



Consumers
Power
Company

James W Cook
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March 26, 1982

Director of Office of Inspection
and Enforcement
Att Mr Richard C DeYoung
US Nuclear Regulatory Commission
Washington, DC 20555



MIDLAND PROJECT - ALAB-106 MONTHLY REPORT FOR FEBRUARY 1982
DOCKET NOS 50-329 AND 50-330
FILE: 0.4.6 SERIAL: 16145

In accordance with Condition of Memorandum and Order ALAB-106, dated March 26, 1973, and Amendment No 1 of the Midland Plant Construction Permit, enclosed are ten copies of the following documents written or closed during the month: Bechtel Nonconformance Reports; sheets from the Bechtel Nonconformance Report Log; Bechtel Quality Action Requests; Bechtel Management Corrective Action Reports; Bechtel Quality Assurance Findings; Bechtel FLAGS Quality Action Requests; Babcock & Wilcox Reports of Nonconformity; Babcock & Wilcox In-Service Inspection Nonconformance Reports; Consumers Power Company Nonconformance Reports; Audit Finding Reports; Quality Action Requests; Corrective Action Reports; and Management Corrective Action Reports.

James W. Cook

WRB/lr

CC: JGKeppler, USNRC Region III (w/enc)
RJCook, NRC Resident Inspector, Midland Site (w/enc)

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BECHTEL

Open NCR's

LOG OF NONCONFORMANCE REPORTS

PROJECT NAME¹JOB NO.¹PAGE⁸ 226

² NRC NO.	³ DATE	⁴ NONCONFORMANCE DESCRIPTION / REMARKS	⁵ DISPO.	⁶ DATE NCR CLOSED	⁷ CLOSED BY
3923	1-29-82	Inspection in EPA 1Z139 revealed damage to vendor supplied cables in Modules "E", "F", & "G".	Rework		
3924	1-29-82	Inspection in EPA 1Z132 revealed damage to vendor supplied cables in Modules "B", "D", & "F".	Rework		
3925	1-29-82	Inspection in EPA 1Z151 revealed damage to vendor supplied cables in Module "B".			
3926	1-29-82	Vendor cable D17 in Module "C" of EPA 1Z131 has a gouge 4'3" from Module.	Rework	2-18-82	J.C. Miller
3927	1-29-82	Inspection in EPA 1Z138 revealed damage to vendor supplied cables in Modules "B", "C", "E" & "G".	Rework		
3928	1-29-82	Inspections in EPA 1Z133 revealed damage to vendor supplied cables in Modules "A", "B", "C", "D", "E", "F", & "G".	Rework		
3929	1-29-82	Contrary to Spec. C-211, material was placed in excavated areas, work was performed & material used was not approved by Geotec. Soils Eng.			
3930	1-29-82	Contrary to Spec. C-197, 5 freezehoies were begun w/o controlled Dwg. & 4 excavations left Q-utilities unprotected.	N/A	2-9-82	L. May
3931	1-30-82	During inspection it was found that M.O.V. 2M03993B1 had a broken terminal block.	Repair		
3932	1-30-82	During inspection it was found that M.O.V. 2M03993B2 had a broken terminal block.	Repair		
3933	2-1-82	Contrary to Spec. M-204, 1/2" valve at FW7, Dwg. FSK-M-2GCB-38-1 is missing "N" stamp data tag & also packing gland nut.			
3934	2-1-82	P-1.10-FSK-M-ICCB-18-2-1. Contrary to M-204.5.2.1, FW20 & 23 have valve inst. betw. & not shown on Dwg. & pipe is damaged betw. FW26 & 27.	Rework		
3935	2-1-82	Dwg. FSK-DVI-M-619-7. Contrary to Spec. M-204, pipe betw. SW4 & 5, SW6 & T.O.E. on Conn. # 5 have no tracable heat no's.	Rework		
3936	2-2-82	Contrary to Spec. C-231, a 6" penet. was drilled with no clear distance & a portion of it is behind the channel.			
3937	2-2-82	M-604-15, welds 61 & 62 don't have req. amt. of weld material for fillet leg size, welders were unequal. for this & 2CCC-1-1 weld 10.	Rework		
3938	2-3-82	Spec. M-204, FSK-DVI-M-619-7, SW's 42, 43, 60, & 61 are shown on DWG. but not the actual way inst., also no Q.C. verif. or doc. clean.			
3939	2-3-82	Spec. M-204, FSK-DVI-M-619-7, SW's 56, 58, 71, & 72 are inst. differently than what Dwg. shows, also no Q.C. verif. or doc. of clean.	Doc Rework		
3940	2-3-82	Contrary to Spec. M-204, line 2HBC-497 & 2HBC-3 has been damaged by bending, flattening & gouging.			
3941	2-3-82	Contrary to Spec. E-47, there isn't a 6" seperation betw. cable 2BB5640A & D-channel cable inside of equipment 2X56.	Use As Is		

LOG OF NONCONFORMANCE REPORTS



PROJECT NAME ¹ _____

JOB NO. ¹ _____

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² NRC NO.	³ DATE	⁴ NONCONFORMANCE DESCRIPTION / REMARKS	⁵ DISPO.	⁶ DATE NCR CLOSED	⁷ CLOSED BY
3942	2-3-82	Inspections in EPA 22113 revealed damage to cables in Modules "A" & "D".	Rework		
3943	2-3-82	E-6,6-89a, A defect was found in heater plate for EPA 22157.			
3944	2-3-82	Cables in EPA 12131 were removed for inspec, & when reinserted the butt splice for cable L6 was found disconnected.	Rework		
3945	2-5-82	Contrary to Spec, A-56, trowels were dampened with Amercoat 12 cleaner instead of Ny-KLAD 116E cleaner.			
3946	2-5-82	Spec, M-204, Line 2CCB-18 on Dwg. FSK-M-2CCB-18-1 has valve inst. betw. FW's 14 & 15 that isn't shown on Dwg., also FW's that don't match Dwg.	Rework		
3947	2-5-82	Contrary to Spec, M-204, pipe betw. FW's 13 & 14 & FW's 15 & 16 on Dwg. FSK-M-1HCC-542-1-16 have no tracable heat #'s.	Rework		
3948	2-6-82	Contrary to Spec, M-326, on hgr. sk. 2-604-8-18 an additional weld was made w/o prior Project review or approval.	Rework		
3949	2-8-82	Contrary to ASME Sect. III NC-3645, during the welding of 1/2 coupling (FW70) the heat generated caused flattening of line 1HCB-253.			
3950	2-8-82	Contrary to spec, M-204, pipe betw. FW11 on FSK-M-2HBC-497-3 & FW 16 on FSK-M-2HBC-497-2 has no documented heat numbers.			
3951	2-8-82	Contrary to spec, E-42A Sh.7, cables 2BA0605G & 1BG1205A have cut through outer jacket.			
3952	2-8-82	Contrary to spec, M-204 the elbow at FW60 on line 1HBC-136 was found to have an area flattened and damaged.			
3953	2-8-82	Contrary to spec, C-231, blockwall #12A & B have exceeded max. spacing of 16' betw. horiz. cast. joints.			
3954	2-8-82	Contrary to spec, M-204, there is no documentation on the cleanliness of FW 17 & 18 on Dwg. FSK-M-1HBC-56-1.			
3955	2-8-82	P-1,10-FSK-M-2HBC-206-1-1a, Flange assembly connecting line 2HBC-206 to 2VM-40B was made using incorrect size fasteners.			
3956	2-9-82	Contrary to FPE-4.000 & letter #80400 cable 2BD2001AS embodies a minimum bend radius violation			
3957	2-9-82	Contrary to spec, M-204 Para.4.1.3, 1" globe valve betw. FW68 & 69 on FSK-DVI-M-616-4 Rev.1 has "N" stamp tag missing.			
3958	2-9-82	Contrary to Spec, C-195, welds were drilled w/o dwg. or schedules pertaining to design of joints & screens, also Geo Tech wasn't informed			
3959	2-9-82	Contrary to A-56, the monitoring of surface temp. for Ameron 90 wasn't done within the required 12 hours.			
3960	2-9-82	Contrary to Spec, C-231, excessive rebar was cut between line B and C.	Rework		

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PROJECT NAME ¹ Midland

JOB NO. ¹ 07226

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² NCR NO.	³ DATE	⁴ NONCONFORMANCE DESCRIPTION / REMARKS	⁵ DISPO.	⁶ DATE NCR CLOSED	⁷ CLOSED BY
3961	2-9-82	Contrary to Spec. C-306 Sect. 2.2, excessive rebar was cut in two locations in the Aux. Bldg.	Rework		
3962	2-10-82	Contrary to Spec. M-325, on hgr. FSK-M-2CCB-21-1-H6 the weld betw. Item 2 & 4 was made w/o Proj. Eng. approval.			
3963	2-10-82	Contrary to Spec. M-214, line 3" OHBC-29, elbow at FW 1 & elbow at FW 67 installed exceeding maximum design tolerance.	Doc. Rework		
3964	2-10-82	During inspection it was found that MOV IM03893B1 had several broken terminal dividers on the block.			
3965	2-10-82	E-42A sh. 10A, cable tray 2BKA06 has a conduit protruding into the physical confines of the tray.			
3966	2-10-82	Contrary to Sec. 5240 & 7130 BQAM, FW 1, 34, & 35 on FSK-M-1HBC-4-2 Rev.6 & FW 18 on FSK-M-1HBC-4-1 R.2, doesn't have all Q. verif doc.			
3967	2-10-82	Contrary to Spec. M-204, a review of backlog insp. rec. shows leak chas channels installed & no doc. of mar. I.D. recorded on as-built			
3968	2-12-82	Contrary to Spec. M-204, valves 438-3-025 on 6"-IDBC-2 & 438-3-294 on 6"-IDBC-10 aren't installed as shown on Dwg.			
3969	2-12-82	PSP G-6.1, FW 6 at Flued heads 12-69, 22-41 & 66 were made without inspection records or documentation.	Rework		
3970	2-12-82	Contrary to Dwg. E-42B sh. 316, field has installed a type 13-13 support with embedment length of only 2".			
3971	2-11-82	Contrary to Spec. M-342, during constr. approx. 3-5 gal. of a yellow liquid was observed running out of stainless steel pipe.			
3972	2-11-82	Contrary to Dwg. E-42 sh. 18, angle iron enclosures weren't installed for slots 2BSL301, 306, 307, and 308.			
3973	2-11-82	PSP G-6.1, cables were pulled thru via DH052 without Q.C.E. present to verify possible damage.			
3974	2-11-82	Contrary to Spec. M-204, FW 14 on dwg. M633 sh. 2 was installed without QC verification or documentation of cleanliness.			
3975	2-12-82	Contrary to Spec. C-231, the placements listed on NCR weren't adequately protected from freezing for minimum of two days.			
3976	2-12-82	Contrary to Spec. M-204 & BQAM, pipe hgr. 1-616-4-511 was welded to pipe w/ no FW #'s designated on iso & no QC IR's initiated.			
3977	2-12-82	Contrary to Spec. M-204 & BQAM, SW's 11 & 12 on FSK-M-1HBC-497-3 are located in two different places.			
3978	2-12-82	Contrary to FPE-4.000, cable OEVO40B was damaged inside of pull box 2EJ679 betw. OB66 & OVV90E.			
3979	2-12-82	Contrary to Dwg. M-652 sh.1, the spools 36"HBD & 24"HBD on NCR have been installed & the required material test rpts. aren't available.			

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PROJECT NAME: Midland

JOB NO: 07220

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
3980	2-13-82	Contrary to Spec. M-204, pipe betw. FW 1 & 2 on FSK-M-1HBC-493-3 Rev. 3 has no documented heat number.			
3981	2-15-82	PW-1,00-M616-6-177, the "F" dimension of 1/2 coupling installed at FW 177 is .879, which exceeds Spec. M-488 tolerance.			
3982	2-15-82	Contrary to Spec. M-366, material received on AEO-12470 (E-55080) doesn't have any markings for I.D. and traceability.	Doc. Rework		
3983	2-15-82	Contrary to FPE-4.000, bend radius for IAB4308 has been exceeded, also pulled w/ only 1 of 3 conductors attached to hand wench.	Rework		
3984	2-15-82	Contrary to FPE-4.000, minimum bend radius for cable IBB4408 A has been exceeded.	UseAsIs Rework		
3985	2-15-82	M-1.11 R-2.10-16255, no documentation except the code data reports have been received on the subject material.			
3986	2-16-82	Contrary to FPE-4.000, cable 2BQ396K wasn't supported properly during coiling of cable & minimum bend radius was exceeded.			
3987	2-16-82	Contrary to Dwg. E-42A, cables exceeded the maximum 3' unsupported airlined distance betw. 2BKA07 - 2BKA007 & 2BKA07 - 2BKA017.			
3988	2-16-82	Contrary to Spec. M-204, mat. used as welded attach. for hgr. 26"-2ELB-10-H33 on M632 sh.1 is traceable not to ASME approved vendor.			
3989	2-16-82	Contrary to Spec. C-306, excessive east/west rebar were cut.			
3990	2-16-82	Contrary to Spec. M-204, the 2 1/2 pipe betw. FW 119-147 & 161-162 on Dwg. M616 sh.2 heat # isn't traceable to manufact. certifications.			
3991	2-16-82	Contrary to Spec. M-204, FW 20 & 21 on iso M616-8 had no cleanliness documented during installation.	Rework		
3992	2-16-82	Contrary to Spec. M-204, Conn. 12 found on line 1HBC-305 & FW 51 are not installed as shown on iso FSK-DVI-M-619-8 Rev. 9.			
3993	2-17-82	Dwg. E-37 Rev. 52 list vias for OBB6804L & OBB6804M including 2BSL972, both cables are routed thru IBSL970.			
3994	2-17-82	IBB6401L-2, 2BB6401L-2, 2BB5644C-1, 2AI048C-2, & 2BI061I-2 weren't installed per requirements of E-900 and E-37.			
3995	2-17-82	B21 codes cables listed on NCR were found to have defective conductor insulation.			
3996	2-17-82	Per E-37 Rev. 52, during over-inspection in support of MPQAD revealed the cables listed on NCR were misrouted.	Use As Is		
3997	2-17-82	Cable 2AY1107A, IAB4302M, IAB2332A, IAB4301J, IAB4310J, 2AA0503M, & 2AA0504L was pulled thru new via without Q.C. witness.			
3998	2-17-82	Contrary to Spec. M-204, FW 15cl iso M616-8 has no documentation for cleanliness during installation.			

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PROJECT NAME¹

Midland

JOB NO.¹

07220

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2 NRC NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
3999	2-17-82	Contrary to Spec. C-305, on either side of pipe penet. 16-M-832 sh.2, six expansion anchors have been cut off at face of concrete.			
4000	2-17-82	Contrary to Dwg. C-1148 Note A.6 & B.1, 18" of ice was found in tanks 1T & 2T-60 & a leak was found on 2T-60 at valve 3/4-ECB-CR-R.			
4001	2-18-82	M-18, upon receipt inspection of material received on AEO-17123 a discrepancy was noted for part #02-717-02-RS.			
4002	2-19-82	Contrary to Spec. M-204, valve P&ID #093 between FW #16 & 17 has pneumatic & electrical material missing.			
4003	2-19-82	M-657 sh.5, contrary to Spec. M-204, FW #13 & 14 were installed without QC verification or documentation of cleanliness.			
4004	2-19-82	Dwg. E-47, cables 2CQ184 T,S,R,P,&U, there is non class & class 1E cables penetrating thru same floor penetr. at Equip. 2C13.			
4005	2-19-82	Contrary to Spec. C-231 SCN-11003, the penetration noted on drill permit 13751 was drilled with clear spacing of 10 1/4" from opening.			
4006	2-19-82	Contrary to M-336-29-2, Y-strainer IYS-0401B was reassembled w/o replacing gasket & IYS-0301B w/o strainer screen, gasket, & 6 nuts.			
4007	2-19-82	Contrary to ASME Sec. III & Weld Stand. ED-1, valve 432-1-260 was removed & repaired, prior concurrence from manuf. wasn't obtained.			
4008	2-19-82	Contrary to Spec. M-204, dwg. M-604-17 line 2HCC-76 shows 1/2 coupling installed at FW #92, theres a elbowlet actually installed.			
4009	2-23-82	Contrary to Spec. M-204, FW #6 (IHBC-177-S657-36-3) was installed without QC verification or documentation of cleanliness.			
4010	2-23-82	Contrary to Spec. M-204, Conn. #11 & FW #50 aren't installed as shown on FSK-DVI-M-619-8 Rev. 9.			
4011	2-24-82	Pour #RSSP(571,0)F, contrary to Spec. C-230, temperature of concrete was 70° and slump was 8".			
4012	2-25-82	FSK-M-IHBC-180-1, 1" pipe (HT #E10302) installed at SW #54 has a raised ridge of metal full length of pipe along internal surface.			
4013	2-25-82	C-2,02-14, contrary to Spec. C-118, the top 3'10" of grout poured for well N-6 was placed with the termie pipe out of the grout.			
4014	2-25-82	F-1-564, upon visual inspection valve OM06547A & 6546A were damaged in and around the actuator area.			
4015	2-26-82	Contrary to ASME Sect. III & Weld Stand. ED-1, valve 432-1-259 was removed & rewelded, prior concurrence from manuf. wasn't obtained.			
4016	2-26-82	P.O. F-54592, the required tests haven't been received on AEO's 17187 and 17174.			
4017	2-26-82	During rework to Cont. 1 out-of-core neutron detector 3 boxes developed long, cracks in welds installed by vendor fabricator.			

S/U - DEAD



NONCONFORMANCE REPORT

1. PROJECT NAME MIDLAND Units I & II		JOB NO. 7220		19. NO. 3932	20. PAGE 1 OF 1
2. UNIT(S) AUX 2	3. DRAWING/PART NO. M-132-110	4. ITEM DESCRIPTION Motor Oper. Valve (2M03993B2)	5. ITEM LOCATION 10' E of C.C. 584' 10' N of F.G.		
6. P.O. OR SPEC. NO. M-132-110	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A	9. SOURCE Const.	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA DWG () SPEC () OTHER	IR NO. N/A	12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec'g (X) Const () Test	15. Equip. Furnished By () Client (X) Eng () FLD
16. NONCONFORMING CONDITION: During cable termination inspection it was discovered that M.O.V. 2M03993B2 had a broken terminal block. The damage consisted of several broken terminal dividers on the block.					
24. DISPOSITION CONCURRENCE					
rework		reject	repair	use as is	
PROJECT FIELD ENGINEER		PROJECT ENGINEER		DATE	
PROJECT ENGINEER		PROJECT ENGINEER		DATE	
PROJ CONSTR QC ENGINEER		PROJ CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		AUTHORIZED INSPECTOR		DATE	
25. DISPOSITION RESULTS					
Q-List No. 4.1761 Held for Eng. Disp.					
17. REPORTED BY David Dapp		18. VALIDATED BY 1/1/82		DATE 1/30/82	
21. ROUTING: TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE					
QC ENGINEER				DATE	
AUTHORIZED INSPECTOR				DATE	



Discussed with
Lyle Courton

NONCONFORMANCE REPORT

IR Backlog

START up case: 2 BKB3

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3933	20. PAGE 1 OF 1
2. UNIT(S) 2	3. DRAWING/PART NO. FSK-M-26CB-38-1	REV 2	4. ITEM DESCRIPTION 1/2" Needle Valve, 10A (183) SW JAA-18-19	5. ITEM LOCATION See Block 16	
6. P.O. OR SPEC NO. NA	7. SERIAL NO. JAA-18-19	8. REPLACEMENT PART P/N NA REV NA SER NO. NA	9. SOURCE Construction	10. CONTRACTOR/SUPPLIER NA	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER NO. 11-207		12. ASME AUTHORIZED INSPECTION REC'D (X) YES () NO		13. SKETCH ATTACHED () YES (X) NO	
14. Discovered During () Rec'g (X) Const () Test					
15. Equip Furnished By () Client (X) Eng () FLD					
16. NONCONFORMING CONDITION: Requirement: Specification M207 Paragraph 4.1.3 states in Part: "Materials shall be marked with the information required by the applicable ASME material specifications and the Nuclear Power Plants Components Code Paragraph NB2151: Condition: The 1/2" Needle Valve Located at Fw 7 on Drawing FSK-M-26CB-38-1, is missing required "N" stamp data tag. In addition this value is also missing the packing gland data. "Q" list is 4.137					
17. REPORTED BY John Kramer		DATE 1/25/82		18. VALIDATED BY E Smith	
DATE 1/25/82		DATE 2-1-82			
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
24. DISPOSITION CONCURRENCE					
rework		reject		repair	
use as is					
PROJECT FIELD ENGINEER					
PROJECT ENGINEER					
PROJ CONSTR QC ENGINEER					
AUTHORIZED INSPECTOR					
25. DISPOSITION RESULTS					
26. QC ACCEPTANCE					
QC ENGINEER					
AUTHORIZED INSPECTOR					
DATE					



IR Buckle

Discussed with G. Koski

NONCONFORMANCE REPORT

34 155D

1. PROJECT NAME <i>Midland</i>		JOB NO. <i>7220</i>		19. NO. <i>3934</i>		20. PAGE <i>1</i> OF <i>2</i>	
2. UNIT(S) <i>1</i>		3. DRAWING/PART NO. <i>FK-M-100B-18-2</i>		4. ITEM DESCRIPTION <i>Line 100B-18 (see Block 16)</i>		5. ITEM LOCATION <i>Cont. 1</i>	
6. P.O. OR SPEC NO. <i>N/A</i>		7. SERIAL NO. <i>N4</i>		8. REPLACEMENT PART P/N <i>N/A</i> REV <i>N/A</i>		9. SOURCE <i>Const</i>	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. <i>100B-18-2</i> NO. <i>42-204</i>		12. ASME AUTHORIZED INSPECTION REQ'D (X) YES () NO		13. SKETCH ATTACHED () YES (X) NO	
16. NONCONFORMING CONDITION: <i>Requirement: M 204.5.2.1 status in fact, Bechtel Instrumental Installation instruments are the governing drawings for final approval configuration and installation. In addition, during and after installation of piping, care shall be taken to prevent surface damage. Condition: Contrary to 5.2.1 line between field welds 20 and 223 is not installed in agreement with the latest.</i>		14. DISCOVERED DURING () Rec'g (X) Const () Test		15. EQUIP FURNISHED BY () Client () Eng (X) FLD		24. DISPOSITION CONCURRENCE	
17. REPORTED BY <i>B. J. J. J.</i>		DATE <i>1-28-82</i>		VALIDATED BY <i>E. J. J. J.</i>		DATE <i>2-1-82</i>	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)							
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering							
23. PROJECT ENGINEERING DISPOSITION							
26. QC ACCEPTANCE							
QC ENGINEER		DATE					
AUTHORIZED INSPECTOR		DATE					

Con'd of Block #15

Condition: - Rev. of Drawing FSK-M-1CCB-18-2 Rev. 2, drawing shows Configuration between these welds to be only pipes, but existing configuration has a valve (V054-18) installed between welds #21 and #22 not shown on Rev. 2 of drawing. Condition of pipes between shield welds #26 and #27 of line 1CCB-18 shows damage (bent).

Plot NO 4037

2 Hold tags



Discussed with:
Bill Swenson

IR BACKLOG

NONCONFORMANCE REPORT S/u # DEAA

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 3935	20. PAGE 1 OF 1
2. UNIT(S) 1 & 2	3. DRAWING/PART NO. FSK-DV1-M-619-7	REV 9	4. ITEM DESCRIPTION Conn. #5 (FSK-DV1-M-619-7)	5. ITEM LOCATION Axx. 816g El. 608'	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A	9. SOURCE Const.	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		12. ASME AUTHORIZED INSPECTION REC'D (X) YES () NO		14. Discovered During () Rec'g (X) Const () Test	
16. NONCONFORMING CONDITION: Requirement: M-204 states in part, "heat numbers shall be marked on all fillings and pipe and shall retain this identification until it is installed in the piping system and identification has been recorded in the record isometric or other record document. Condition: Pipes installed between SW.#4 and SW.#5, SW.#6 and T.D.E. on Conn. #5, DWG. FSK-DV1-M-619-7 are installed with nontraceable material. Q List No. 4.192		13. SKETCH ATTACHED () YES (X) NO		15. Equip. Furnished By () Client (X) Eng () FLD	
17. REPORTED BY James T. Lott		DATE 2-1-82		24. DISPOSITION CONCURRENTLY rework reject repair use as is	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		VALIDATED BY W. J. Swenson		DATE 2-1-82	
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE					
QC ENGINEER					
AUTHORIZED INSPECTOR					
DATE					



NONCONFORMANCE REPORT

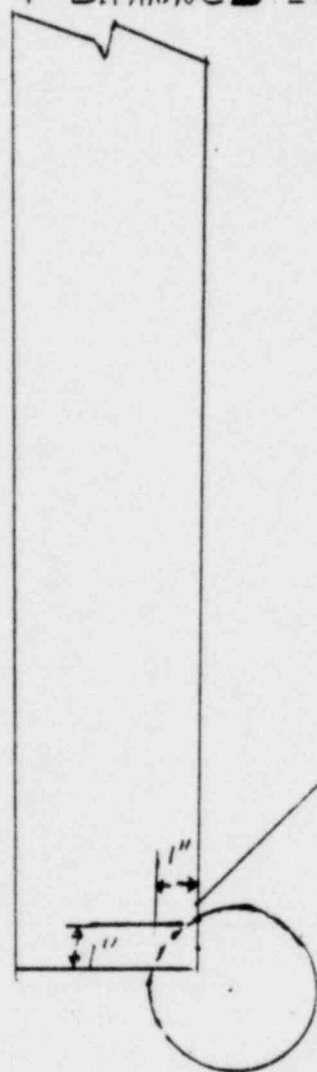
CONTACT: BILL KARLE

SLU NON-TESTABLE

1. PROJECT NAME MIDLAND		JOB NO. 2220		19. NO. 3936		20. PAGE 1 OF 2	
2. UNIT(S) COMMON		3. DRAWING/PART NO. N/A		4. ITEM DESCRIPTION CORE DRILLED PENETRATION		5. ITEM LOCATION Ave. 8129. 11. 617-1 st	
6. P.O. OR SPEC NO. C-231/2A		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N N/A REV. N/A SER. NO. N/A		9. SOURCE CONSTRUCTION	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. C-160-325 NO. C-231/2A		12. ASME AUTHORIZED INSPECTION REC'D () YES () NO		13. SKETCH ATTACHED () YES () NO	
16. NONCONFORMING CONDITION: Spec C-231/2A, SCN 11,003 STATES IN PART, "... The minimum clear distance between the edge of the channel embed AND the penetration shall be 1 FOOT. CONTRARY TO THIS, A 6" PENETRATION WAS DRILLED THROUGH 7.4 WALL WITH NO CLEAR DISTANCE. A PORTION OF THE PENETRATION IS BEHIND THE CHANNEL. (See ATTACHED SKETCH.) The channel was NOT CUT. Q LIST # 1.205, HOLD FOR ENGINEERING DISPOSITION, 1 HOLD TAG APPLIED.		17. REPORTED BY DATE 2/1/82		18. VALIDATED BY DATE 2-2-82		14. Discovered During () Rec'g () Const () Test () FLD	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering		24. DISPOSITION CONCURRENCE rework reject repair use as is		15. Equip Furnished By () Cheny () King () FLD	
23. PROJECT ENGINEERING DISPOSITION		26. QC ACCEPTANCE		QC ENGINEER		DATE	
		AUTHORIZED INSPECTOR				DATE	

NCR SKETCH

4" CHANNEL Embed



NOTE: CHANNEL NOT CUT.

"Non-Conforming Condition"
6" \varnothing Core Drill

(ELEVATION VIEW - Aux. Bldg.
7.4 WALL, EAST FACE
5'-6" \varnothing I.D.
ELV. 617'-1")



DISCUSSED WITH J. MILLER

NONCONFORMANCE REPORT

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3937		20. PAGE 1 OF 2	
2. UNIT(S) 2		3. DRAWING/PART NO. M604-15		4. ITEM DESCRIPTION HALF COUPLING		5. ITEM LOCATION AUX/EL 614/RN329	
6. P.O. OR SPEC NO. NA		7. SERIAL NO. NA		8. REPLACEMENT PART P/N NA REV NA SER NO. NA		10. CONTRACTOR/SUPPLIER NA	
11. INSPECTION CRITERIA <input checked="" type="checkbox"/> DWG <input type="checkbox"/> SPEC <input type="checkbox"/> OTHER		IR NO. SEE PAGE 2 NO. SEE BELOW		13. SKETCH ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		14. Discovered During <input type="checkbox"/> Rec'g <input checked="" type="checkbox"/> Const <input type="checkbox"/> Test	
16. NONCONFORMING CONDITION: REQUIREMENT: M488 REQUIRES A 3/8" FILLET LEG SIZE FOR 1/2" AND 3/4" 6000# HALF COUPLINGS. CONDITION: M604-15 WELDS 61 AND 62 DO NOT HAVE THE REQUIRED AMOUNT OF WELD METAL FOR FILLET LEG SIZE AND ARE UNACCEPTABLE. REQUIREMENT: PER G-27, WQ1, AP 3.7.1, SMAW, ITEM D (QW403.16) FOR GROOVE WELDS UNDER 2 7/8 O.D. THE WELDER SHALL BE QUALIFIED TO				17. REPORTED BY SM Rathbun DATE 1/30/82			
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING <input type="checkbox"/> TO OTHERS (SPECIFY)				18. "ALIDATED BY CDN/Edna DATE 2-2-82			
22. <input type="checkbox"/> Field Engineering Disposition <input type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering							
23. PROJECT ENGINEERING DISPOSITION							
24. DISPOSITION CONCURRENCE							
rework		reject		repair		use as is	
PROJECT FIELD ENGINEER		PROJECT ENGINEER		PROJ CONSTR QC ENGINEER		AUTHORIZED INSPECTOR	
DATE		DATE		DATE		DATE	
25. DISPOSITION RESULTS							
26. QC ACCEPTANCE							
QC ENGINEER				DATE			
AUTHORIZED INSPECTOR				DATE			



ITEM 16 CONT.

THE "OVER 1 INCH" CLASSIFICATION (MAX. TEST SPECIMEN 2" NPS).
CONDITION: BOTH WELD 61 AND 62 WERE WELDED WITH PROCEDURE P8-AT-AG
BY WELDERS P658 + P543. NEITHER WELDER WAS QUALIFIED FOR
WELDING P8 MATERIAL IN THE SMAW PROCESS UNDER 2 7/8" O.D.
WITH A GROVE JOINT CONFIGURATION. THE ABOVE CONDITIONS ARE
UNACCEPTABLE.

REQUIREMENT: PER G-27, WQ1, TP 3.7.2, GTAW, ITEM D (QW40316)
A CHANGE IN THE BASE METAL THICKNESS BEYOND THE RANGE QUALIFIED
IS AN ESSENTIAL VARIABLE FOR WELDER QUALIFICATION, CONDITION 2
WELD 10 ON DWG. FSK-M-2000-1-1 IS A 6000# 1" HALF
COUPLING WELDED WITH PROCEDURE P8-T-AG. PER M-488 THE
WALL THICKNESS OF THIS HALF COUPLING IS .717. WELDER
P543, WHO MADE THIS WELD, IS ONLY QUALIFIED FOR A THICKNESS
UP TO .560 PER HIS P8-T WELDERS QUALIFICATION RECORD.
THIS IS OUTSIDE THE RANGE OF HIS QUALIFICATION AND LEAVES
THE CONDITION UNACCEPTABLE.

ITEM 3 CONT. DWG. FSK-M-2000-1-1 REV. 6

ITEM 11 CONT. IR NO'S	M 604-15-61	LOG NO.	61103	S/W#	2BGA
	M 604-15-62	" "	61104	"	2BGA
	FSK-M-2000-1-1-14	" "	44553	"	2BGA

THREE HOLD TAGS APPLIED



IR Backlog
Discussed with:
Ted Ostain

NONCONFORMANCE REPORT *Sub #2 EAD*

A-LAP

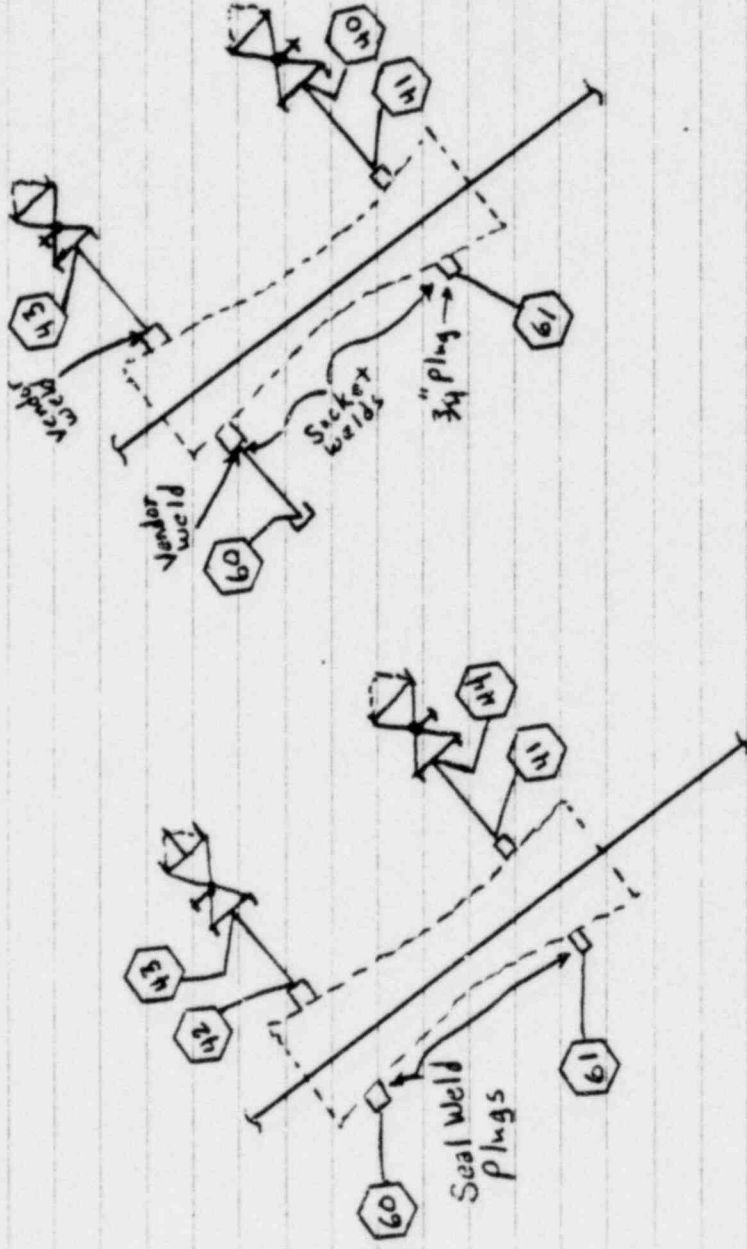
1. PROJECT NAME <i>Midland</i>		JOB NO. <i>7220</i>		19. NO. 3938	20. PAGE 1 OF 2
2. UNIT(S) <i>1 & 2</i>	3. DRAWING/PART NO. <i>FSK-DV1-M-619-7</i>	REV <i>9</i>	4. ITEM DESCRIPTION <i>Conn #10 FSK-DV1-M-619-7</i>	5. ITEM LOCATION <i>Aux. Bldg El. 59'6"</i>	
6. P.O. OR SPEC NO. <i>N/A</i>	7. SERIAL NO. <i>N/A</i>	8. REPLACEMENT PART P/N <i>N/A</i> REV <i>N/A</i>	SER NO. <i>4A</i>	9. SOURCE <i>Const.</i>	10. CONTRACTOR/SUPPLIER <i>N/A</i>
11. INSPECTION CRITERIA <input checked="" type="checkbox"/> DWG <input checked="" type="checkbox"/> SPEC <input type="checkbox"/> OTHER		IR NO. <i>P-10-FSK-</i>	12. ASME AUTHORIZED INSPECTION REQ'D <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	13. SKETCH ATTACHED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	14. Discovers During <input checked="" type="checkbox"/> Rec'd <input checked="" type="checkbox"/> Const <input type="checkbox"/> Test
15. Equip Furnished By <input type="checkbox"/> Client <input checked="" type="checkbox"/> Eng <input type="checkbox"/> JFLD					
16. NONCONFORMING CONDITION: <i>"Bechtel isometrics (installation isometrics) are the governing drawings for final spool configuration and installation. Para. 6.4 states in part, 'all piping shall be visually checked for cleanliness prior to installation.' Condition: SW #60 and SW #61 are shown on dwg. to be seal welds. SW #60 and SW #61 are both socket welds. SW #60 is not welded to a plug. SW #60 is welded to a cap. SW #42 is reported by <i>WB</i> validated by <i>W.C. Smith</i> 2-2-82 2-3-82"</i>					
17. REPORTED BY <i>David L. Smith</i> DATE <i>2-2-82</i>					
18. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING <input type="checkbox"/> TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE					
QC ENGINEER					
AUTHORIZED INSPECTOR					
DATE					
DATE					



Block 16 Cont. Does Not exist the weld indicated as S.W. #42 is actually a Vendor weld. S.W. #44 does not exist. The weld indicated on DWG is actually S.W. #40. S.W. #60 and S.W. #61 were installed without Q.C. verification or documentation of cleanliness prior to installation.
See sketch below.

Q List No. 4.192

1 Hold Tag Applied



As Shown on DWG

"AS BUILT"

IR Backlog
Discussed with:
Ted Ostein

NONCONFORMANCE REPORT S/U # 2 EAD

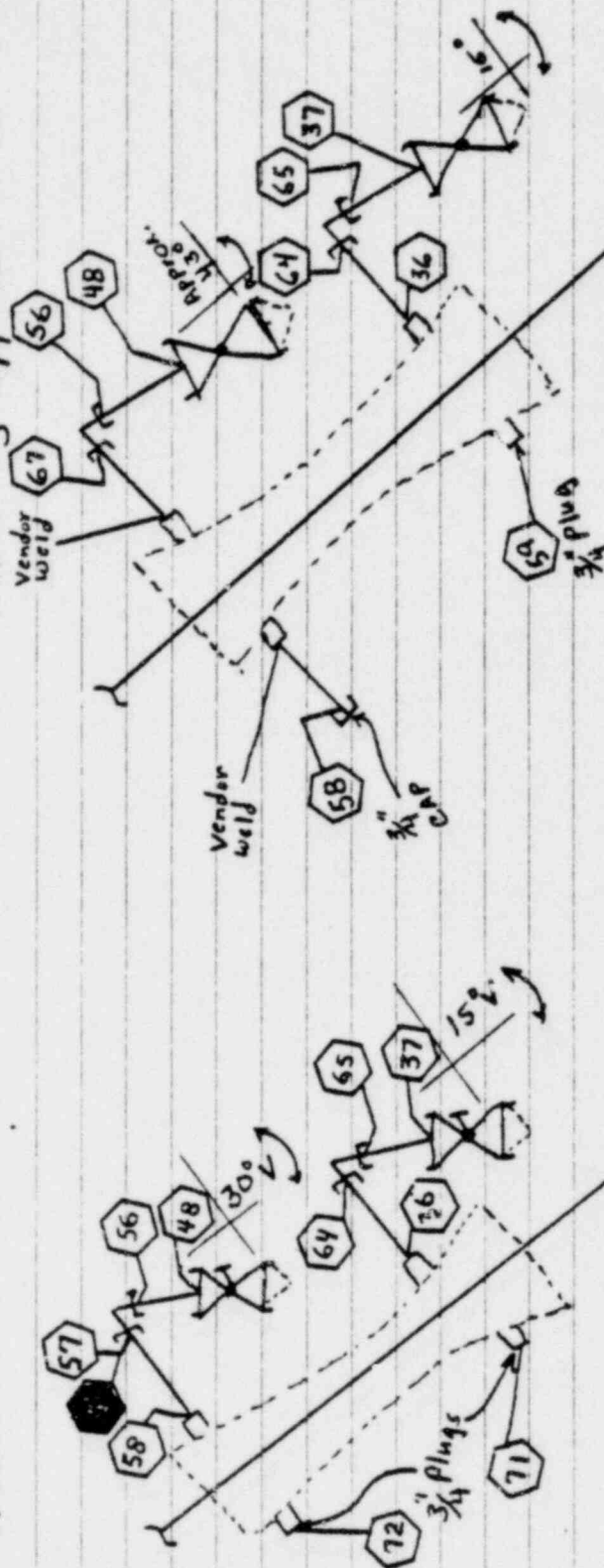
1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 3939	20. PAGE 1 OF 2
2. UNIT(S) 1E2	3. DRAWING/PART NO. FSK-DVI-M-619-7	REV 9	4. ITEM DESCRIPTION Conn #11 (FSK-DVI-M-619-7)	5. ITEM LOCATION A-1. Bldg E. 59462	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE Const.	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA <input checked="" type="checkbox"/> DWG <input checked="" type="checkbox"/> SPEC <input type="checkbox"/> OTHER		IR NO. P-119-FSK-DVI-1-12	ASME AUTHORIZED INSPECTION REQ'D <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	13. SKETCH ATTACHED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	14. Discovered During <input checked="" type="checkbox"/> Rec'd <input checked="" type="checkbox"/> Const <input type="checkbox"/> I Test
15. Equip. Furnished By <input type="checkbox"/> Client <input checked="" type="checkbox"/> Eng <input type="checkbox"/> IFLD					
16. NONCONFORMING CONDITION: Requirement: P-204, Para. 5.2.1 states in part, "Bechtel isometrics (installation isometrics) are the governing drawings for final spool configuration and installation. Para. 6.4 states in part, all piping shall be visually checked for cleanliness prior to installation. Condition: SW #72 as shown on Dwg is actually a vendor weld to 2 3/4" pipe. SW #58 is to install a cap on the 4" pipe which is not shown on the dwg. SW #71 as shown on the dwg is actually S.W. 59.					
17. REPORTED BY James F. Hatt		DATE 2-2-82		18. VALIDATED BY E. E. Euse	
ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING <input type="checkbox"/> TO OTHERS (SPECIFY)		DATE 2-3-82			
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
26. OC ACCEPTANCE					
OC ENGINEER				DATE	
AUTHORIZED INSPECTOR				DATE	

Block 16 Cont. S.W. #58 as shown on the dwg is actually a vendor weld for the pipe attached to the venturi. SW #56 as shown on the dwg is actually SW #67. The North instrument Connection is shown on the dwg to have a 30° roll to the South. It actually has approximately a 43° roll to the South. S.W. #58 and SW. #59 were installed without QC verification or documentation of cleanliness.

See sketch below

Q List No. 4.192

1 Hold Tag Applied



AS SHOWN ON DWG

"AS Built"



Discussed with K. Mason
Bill Metzger

NONCONFORMANCE REPORT

2JEA

1. PROJECT NAME MIDLAND UNITS 1+2		JOB NO. 7220		19. NO.	3940	PAGE	1 OF 1
2. UNIT(S) 2	3. DRAWING PART NO. 32-M-248C-457-2	REV	4. ITEM DESCRIPTION BURIED DIESEL OIL PIPE SEE BLOCK 16.	5. ITEM LOCATION YARD SEE BLOCK 16.			
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A	9. SOURCE CONST.	10. CONTRACTOR/SUPPLIER N/A			
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. N/A	12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO	13. SKETCH ATTACHED () YES () NO	14. Discovered During () Rec'g () Const () Test	15. Equip Furnished By () Client () Eng () FLD	
16. NONCONFORMING CONDITION: REQUIREMENT: SPEC 7220-M-204 (2) STATES: "ALL SHALL BE TAKEN IN HANDLING AND INSTALLATION OF PIPING TO PREVENT SURFACE DAMAGE." CONDITION: ITEM 1. DUE TO ADJACENT CONSTRUCTION ACTIVITY, LINE 248C-497 HAS BEEN DAMAGED BY BENDING, FLATTENING, AND GOING APPROXIMATELY 2 FT. EITHER SIDE OF YARD LOCATION E. 489.0/S. 5171.0 WHICH IS APPROXIMATELY 230.15 EAST OF F.W. 13. ITEM 2: LINE 248C-3 HAS BEEN GOUGED AND HAS SHARP DISCONTINUITIES APPROXIMATELY 2 FT. EITHER SIDE OF YARD LOCATION E. 489.0/S. 5172.0 WHICH IS APPROXIMATELY 232.75 FT. E. OF F.W. 33. Q-LIST 4525 2 HOLD TAGS							
17. REPORTED BY M. H. Orr		DATE 2/3/82	VALIDATED BY R. E. See		DATE 2-3-82		
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)							
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering							
23. PROJECT ENGINEERING DISPOSITION							
26. QC ACCEPTANCE							
QC ENGINEER				DATE			
AUTHORIZED INSPECTOR				DATE			



Person Conducted:
Gene Quayle

NONCONFORMANCE REPORT

SD 11 2 PAID

A-LAB

1. PROJECT NAME INSTALL		JOB NO. 7220		19. NO. 3941	20. PAGE 1 OF 2
2. UNIT(S) 2	3. DRAWING/PART NO. E-400	REV SC	4. ITEM DESCRIPTION Cable Termination	5. ITEM LOCATION 614' Ave Rd, 2X56	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N REV SER NO. N/A	9. SOURCE Construction	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. 2805670A2 NO.	12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO	13. SKETCH ATTACHED () YES () NO	14. Discovered During () Rec'g () Const () Test
16. NONCONFORMING CONDITION: Requirements & Per E-47, Rev. 3 The minimum separation distance is 6 inches between Redundant Class II equipment and wiring. Conditions contrary to the above, there is no 6" separation between redundant cables inside of equipment 2X56 between 2805670A cable and 12-ch of cable. (see cont sheet)			15. Equip Furnished By () Client () Eng () FLD		
17. REPORTED BY T.A. Perry		DATE 2-2-82		18. VALIDATED BY N.A. Perry	
18. DATE 2-2-82		19. DATE 2-2-82			
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
24. DISPOSITION CONCURRENCE					
rework reject repair use as is					
PROJECT FIELD ENGINEER DATE					
PROJECT ENGINEER DATE					
PROJ CONSTR QC ENGINEER DATE					
AUTHORIZED INSPECTOR DATE					
25. DISPOSITION RESULTS					
26. QC ACCEPTANCE					
QC ENGINEER DATE					
AUTHORIZED INSPECTOR DATE					

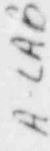


Work 16 (continued)

1615 Co. Engineering Disposition

CR List # 3003

1615 Inc. Applied at Equipment 2X56



NONCONFORMANCE REPORT

NONCONFORMANCE REPORT

5/11 11:00-11:30 AM

1. PROJECT NAME FALL 2000		JOB NO. 81220		19. NO. 3942		20. PAGE 1 OF 1	
2. DWTG () SPEC () OTHER F 240		3. DRAWING/PART NO. 112		4. ITEM DESCRIPTION CABLE DAMAGE IN EFA #22113		5. ITEM LOCATION A 2. 240	
6. P.O. OR SPEC NO. NA		7. SERIAL NO. NA		8. REPLACEMENT PART P/N NA REV 1.1		9. SOURCE CONST	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO		13. SKETCH ATTACHED () YES () NO		14. Discovered During () Rec'g () Const () Test	
16. NONCONFORMING CONDITION: NA EFA #22113.				24. DISPOSITION CONCURRENCE			
17. REPORTED BY M. J. J. J.				25. DISPOSITION RESULTS			
18. VALIDATED BY M. J. J. J.				26. QC ACCEPTANCE			
19. ROUTING: TO FIELD ENGINEERING () TO OTHERS (SPECIFY)				QC ENGINEER			
20. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering				AUTHORIZED INSPECTOR			
21. PROJECT ENGINEERING DISPOSITION				DATE			



RECEIVED CONTINUED
R. MORRIS
S. F. WALKER

NONCONFORMANCE REPORT

S/H NON REMEDIAL

1. PROJECT NAME A11111111		JOB NO. 7700		19. NO. 3943	20. PAGE 1 OF 1
2. UNIT(S) 2	3. DRAWING/PART NO. E660 S41	REV 8	4. ITEM DESCRIPTION HEADER PLATE FOR EPA 2E157.	5. ITEM LOCATION CONT 2 E660 635'-3" AC 1575	
6. P.O. OR SPEC NO. 720 C.W.C.	7. SERIAL NO. A11	8. REPLACEMENT PART P/N 22 REV	SER NO.	9. SOURCE VENDOR	10. CONTRACTOR/SUPPLIER BUNKER ROAD/AMPHIBOL SNAIS
11. INSPECTION CRITERIA () DWG () SPEC (X) OTHER		IR NO. NO. 720 C.W.C. 15	12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec'g (X) Const () Test
15. Equip Furnished By () Client (X) Eng () FLD				15. Equip Furnished By () Client (X) Eng () FLD	
16. NONCONFORMING CONDITION: A DEFECT WAS NOTED IN THE HEADER PLATE FOR EPA 2E157. THE NOTCH, LOCATED AT 170° IN THE SIDE OF THE BORED HOLE FOR MODULE "E", APPEARS TO HAVE BEEN DONE AT THE TIME OF MANUFACTURE. Q*3.002. ONE Q* HOLD TAG APPLIED. HOLD FOR ENH. DISPOSITION.				24. DISPOSITION CONCURRENCE	
				rework reject repair use as is	
				PROJECT FIELD ENGINEER DATE	
				PROJECT ENGINEER DATE	
				PROJ CONSTR QC ENGINEER DATE	
				AUTHORIZED INSPECTOR DATE	
17. REPORTED BY CHAMBERLAIN				DATE 1-30-82	
18. VALIDATED BY D.C.P. E. J. Smith				DATE 2-3-82	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition () Field Engineering Recommendation Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE					
				QC ENGINEER DATE	
				AUTHORIZED INSPECTOR DATE	



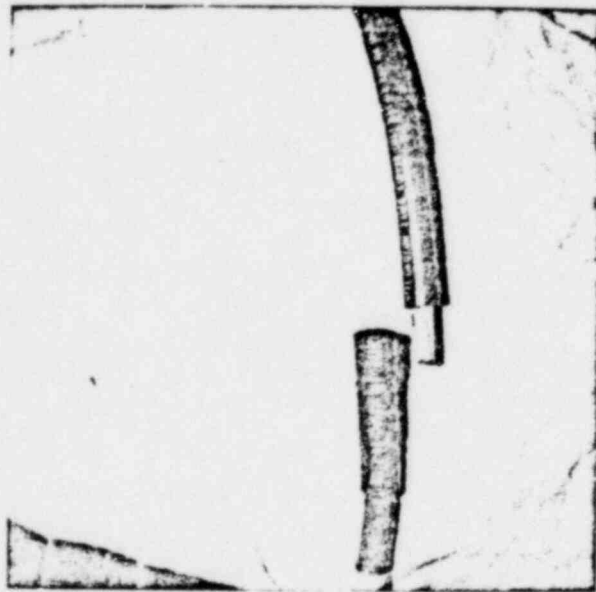
NONCONFORMANCE REPORT

SILL VARIOUS

1. Project Name PUMPED UNITS 102		Job No. 7220		19. No. 3944		20. Page 1 of 3	
2. Unit(s) 1		3. Drawing/Part No. ECC-1		4. Item Description CABLE IN EPA 12131		5. Item Location AZ 140 CONF 41 EL 632	
6. P.O. Or Spec No. NA		7. Serial No. NA		8. Replacement Part PIN NA REV NA		9. Source CONSTR. NA	
11. Inspection Criteria <input type="checkbox"/> GWSG <input type="checkbox"/> SPEC		12. ASME AUTHORIZED INSPECTION REQ'D <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		13. SKETCH ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		14. Discovered During <input checked="" type="checkbox"/> REC-G <input type="checkbox"/> CONST <input type="checkbox"/> TEST <input type="checkbox"/> CLIENT <input type="checkbox"/> ENG <input type="checkbox"/> FLD	
16. Nonconforming Condition: NO JAN. 28, 1982. CABLES IN EPA 12131 WERE REMOVED FOR INSPECTION OF POSSIBLE RODENT DAMAGE ON FEB. 1, 1982. AFTER CABLES WERE REINSERTED INTO EPA 12131, IT WAS DISCOVERED THAT THE RATT SPACE FOR CABLE LG IN MODULE E HAD BECOME DISCONNECTED. SEE ATTACHED PICTURE ON PAGE 20.		15. Equip Furnished By <input type="checkbox"/> REC-G <input type="checkbox"/> CONST <input type="checkbox"/> TEST <input type="checkbox"/> CLIENT <input type="checkbox"/> ENG <input type="checkbox"/> FLD		24. Disposition Concurrence NEWORK REJECT REPAIR ASIS		25. Disposition Results	
17. Reported By S. C. Miller		18. Validated By S. C. Miller		Date 2-1-82		Date 2-3-82	
21. Routing <input checked="" type="checkbox"/> TO FIELD ENGINEERING <input type="checkbox"/> TO OTHERS (SPECIFY)		22. <input type="checkbox"/> Field Engineering Disposition <input type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering		23. Project Engineering Disposition		26. QC Acceptance	
						QC ENGINEER DATE	
						AUTHORIZED INSPECTOR DATE	



PHOTO 12 (CONT'D)

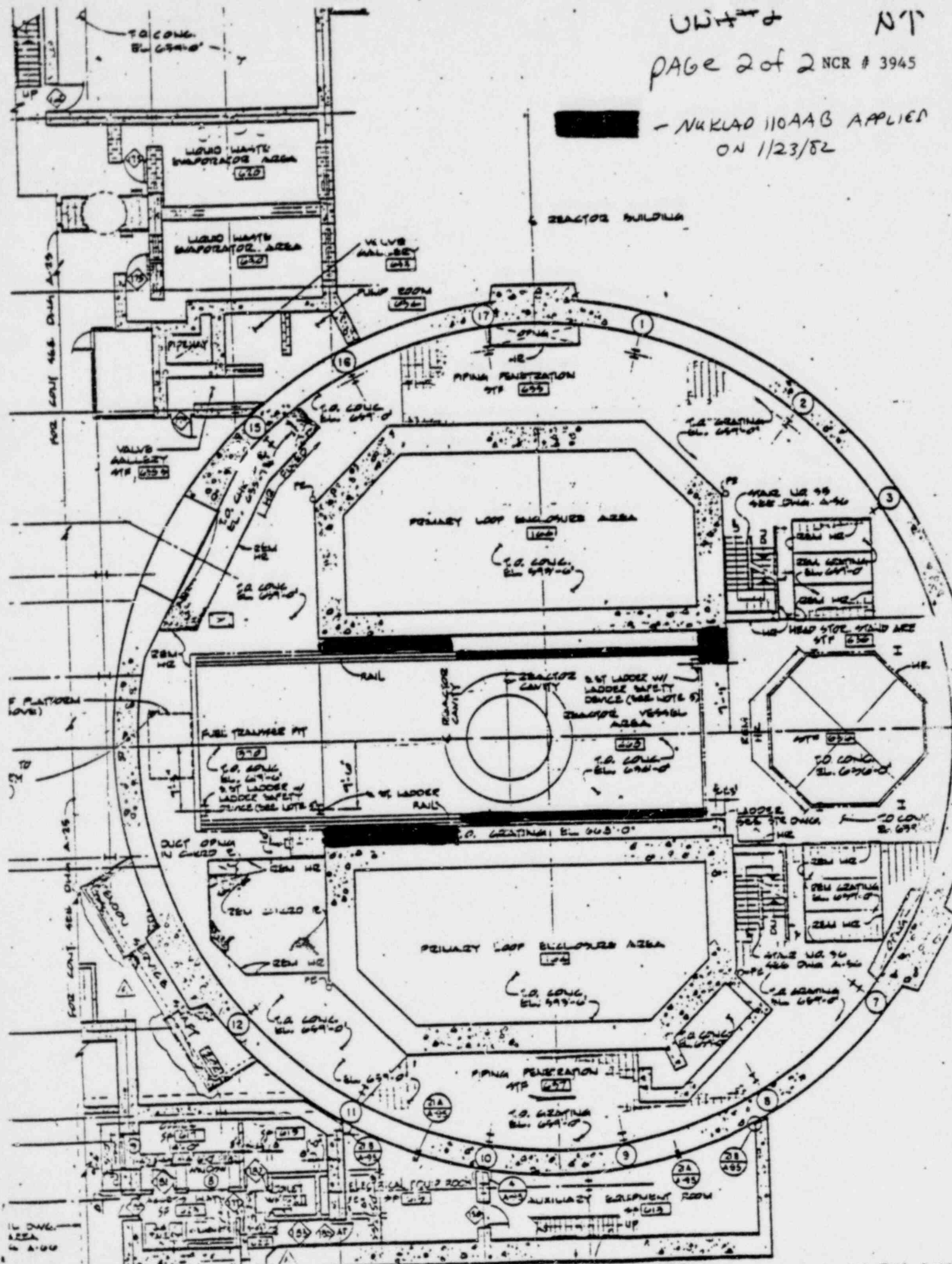


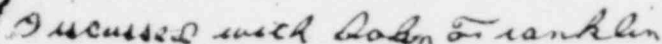
NONCONFORMANCE REPORT

1. PROJECT NAME MIDLAND			JOB NO. 7220			19. NO. 3945		20. PAGE 1 OF 2								
2. UNIT(S) 2		3. DRAWING/PART NO. A-72(Q)		REV 13		4. ITEM DESCRIPTION CONCRETE FLOOR COATING			5. ITEM LOCATION EL 659 BETWEEN D RINGS							
6. P.O. OR SPEC NO. A56 A		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N NA REV NA SER NO. NA		9. SOURCE CONSTRUCTION		10. CONTRACTOR/SUPPLIER NA								
11. INSPECTION CRITERIA () DWG (<input checked="" type="checkbox"/>) SPEC () OTHER			IR NO. C8-51-16 NO A-56 A		12. ASME AUTHORIZED INSPECTION REQ'D () YES (<input checked="" type="checkbox"/>) NO		13. SKETCH ATTACHED <input checked="" type="checkbox"/> YES () NO		14. Discovered During () Rec'g (<input checked="" type="checkbox"/>) Const () Test		15. Equip Furnished By () Client () Eng (<input checked="" type="checkbox"/>) FLD					
16. NONCONFORMING CONDITION: PARAGRAPH 10.3.2 STATES IN PART, "THE ROLLER OR TROWEL MAY BE DAMPENED SLIGHTLY WITH NY-KLAD 116E CLEANER ..." CONTRARY TO THE ABOVE THE TROWELS WERE DAMPENED WITH AMERCOAT 12 CLEANER, DURING THE APPLICATION OF 110AAB ON 1/23/82. THIS WAS ORIGINALLY REPORTED ON IPIN C-19. HOLD FOR ENG. DISPOSITION , "Q" LISTED 2.201 , / HOLD TAGS APPLIED									24. DISPOSITION CONCURRENCE							
									<input type="checkbox"/> rework		<input type="checkbox"/> reject		<input type="checkbox"/> repair		<input type="checkbox"/> use as is	
									PROJECT FIELD ENGINEER		DATE					
									PROJECT ENGINEER		DATE					
									PROJ CONSTR QC ENGINEER		DATE					
									AUTHORIZED INSPECTOR		DATE					
17. REPORTED BY William E Sanpe									DATE 2/4/82		18. VALIDATED BY [Signature]		DATE 2-5-82			
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING () TO OTHERS (SPECIFY)																
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering																
23. PROJECT ENGINEERING DISPOSITION																
26. QC ACCEPTANCE																
QC ENGINEER											DATE					
AUTHORIZED INSPECTOR											DATE					

NT

- NUKLAD 110AAB APPLIED
ON 1/23/82





IL Backlog

A-LAD

NONCONFORMANCE REPORT

1. PROJECT NAME		JOB NO.		S.C. 2 B G D	
2. UNIT (W)		3. DRAWING/PART NO.		4. ITEM DESCRIPTION	
2 FSK-M-2CCB-1B-1		REV 5		Line 1" 2CCB-1B	
6. P.O. OR SPEC NO.		7. SERIAL NO.		8. REPLACEMENT PART P/N NA REV NA SER NO. NA	
NA		NA		9. SOURCE Const.	
				10. CONTRACTOR/SUPPLIER NA	
11. INSPECTION CRITERIA () DWG (x) SPEC () OTHER		IR NO. 2CCB-1B-1.1 NO. M204		12. ASME AUTHORIZED INSPECTION REQ'D (x) YES () NO	
				13. SKETCH ATTACHED () YES (x) NO	
				14. Discovered During () Rec'y (x) Const () Test	
				15. Equip Furnished By () Client (x) Eng () FLDO	
16. NONCONFORMING CONDITION:					
Requirement : M204 states : "Bechtel Isometrics (Installation isometrics) are the governing drawing for final spool configuration and installation."					
Condition : Contrary to this Line 1" 2CCB-1B on Drawg FSK-M-2CCB-1B-1 Rev. 5 has valve 1" CCB-GA, SNIYX132V installed in the piping system between FW 14 & 15					
Q List 4.025 Cont on Page 2					
17. REPORTED BY		DATE		18. VALIDATED BY	
Rev. Dungan		2-4-82		R.E. Smith 2-5-82	
21. ROUTING: (x) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE					
QC ENGINEER				DATE	
AUTHORIZED INSPECTOR				DATE	



NONCONFORMANCE REPORT (CONT'D)

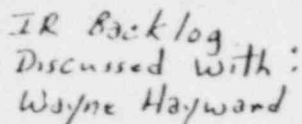
20 PAGE 2 OF 2

19NCR NO 3946

Block 16 Cont; neither the valve nor connecting piping are shown on the diag. Also several fields well no. 9 do not match the as built condition.

3 Hold Tags Applied

Rex Runyon 2-4-82



NONCONFORMANCE REPORT S/u# OEAA

A-LA

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 3947		20. PAGE 1 OF 1	
2. UNIT(S) TWO		3. DRAWING/PART NO. FSK-M-1HCC-542-1		REV 0		4. ITEM DESCRIPTION Pipes between S.W. #13 & SW #14 and between S.W. #15 & SW #16 (FSK-M-1HCC-542-1)	
5. ITEM LOCATION E1. 620' 10" Service Water Bldg.		6. P.O. OR SPEC NO. N/A		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	
9. SOURCE Const.		10. CONTRACTOR/SUPPLIER N/A		11. INSPECTION CRITERIA () DWG () SPEC () OTHER PL-100 JR NO FSK-M-1HCC-542-1-1502		12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO X YES () NO	
13. SKETCH ATTACHED () YES () NO		14. Discovered During () Rec'g () Const () Test		15. Equip Furnished By () Client () Eng () FLD		16. NONCONFORMING CONDITION: Requirement: M-204, states in part, heat numbers shall be marked on all fittings and pipe and shall retain this identification until it is installed in the piping system and identification has been recorded in the record isometric other record document. Condition: Heat Code Markings on pipes between S.W. #13 & #14 and S.W. #15 & #16 are not traceable to acceptable Quality Verification Documentation, leaving the quality of the Material indeterminate. Qlist #4.185 2 Hold Tags Applied	
17. REPORTED BY John F. [Signature] 2-5-82		18. VALIDATED BY [Signature] 2-5-82		19. DATE		20. DATE	
21. ROUTING: X TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering		23. PROJECT ENGINEERING DISPOSITION		24. DISPOSITION CONCURRENCE rework reject repair use as is	
25. DISPOSITION RESULTS		26. QC ACCEPTANCE		27. QC ENGINEER		28. DATE	
29. AUTHORIZED INSPECTOR		30. DATE		31. DATE		32. DATE	



Dale Green

A-LAB

5/11/2000

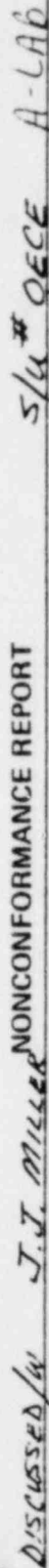
NONCONFORMANCE REPORT

1. PROJECT NAME: Midland		JOB NO. 7220		19. NO. 3948		20. PAGE 1 OF 2	
2. UNIT(S) 2	3. DRAWING/PART NO. 2-604-8-128	REV 0	4. ITEM DESCRIPTION Added Weld without Project Approval (see block 16)	5. ITEM LOCATION New Flag km 13.1			
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A	9. SOURCE Construction	10. CONTRACTOR/SUPPLIER N/A			
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. 10-2-604-8-128 NO. 11-326 Rev 6	12. ASME AUTHORIZED INSPECTION REC'D () YES () NO	13. SKETCH ATTACHED () YES () NO		14. Discovered During () Rec'd () Const () Test	
15. NONCONFORMING CONDITION: 4.2.5 states in part: "Additional welds not shown in the design sketch/drawings. Require project engineering review and approval via field design change control procedure. or nonconformance procedure as applicable." Contrary to the above, per design sketch # 2-604-8-18 mark * B-2 FEB-15-HIS, one additional weld is present on item #1				15. Equipment Furnished By () Client () Eng () FLD			
17. REPORTED BY Dale Green				18. VALIDATED BY MPC		DATE 2/6/02	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)				24. DISPOSITION CONCURRENCE		25. DISPOSITION RESULTS	
				26. QC ACCEPTANCE		DATE	
				QC ENGINEER		DATE	
				AUTHORIZED INSPECTOR		DATE	
				PROJECT FIELD ENGINEER		DATE	
				PROJECT ENGINEER		DATE	
				PROJ CONSTR QC ENGINEER		DATE	
				AUTHORIZED INSPECTOR		DATE	
				25. DISPOSITION RESULTS			
				26. QC ACCEPTANCE		DATE	
				QC ENGINEER		DATE	
				AUTHORIZED INSPECTOR		DATE	
				PROJECT ENGINEERING DISPOSITION			

Block 16 Continued:

12 x 8 tube steel without prior project review or approval. Item #1 was cut in two and butt welded together. The break ^{is in} this item is located approximately 2'0 west of Item #4 tube steel.

"Q" List # 4.045. (1) Hard Tag Applied.



1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3949		20. PAGE 1 OF 2	
2. UNIT(S) 1		3. DRAWING/PART NO. 1614 5416		4. ITEM DESCRIPTION FLATTENING OF PIPE AT FW#70		5. ITEM LOCATION Aux. 629-6 "RM328"	
6. P.O. OR SPEC NO. NA		7. SERIAL NO. NA		8. REPLACEMENT PART P/N NA REV NA SER NO. NA		9. SOURCE CONST.	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. SEE BULKY #16 NO. ASME III		12. ASME AUTHORIZED INSPECTION REQ'D YES () NO		13. SKETCH ATTACHED YES () NO	
16. NONCONFORMING CONDITION: REQUIREMENT: ASME SECTION III NC-3645 STATES EXTERNAL AND INTERNAL ATTACHMENTS TO PIPING SHALL BE DESIGNED SO AS NOT TO CAUSE FLATTENING OF THE PIPE, EXCESSIVE LOCALIZED BENDING STRESSES, OR UNACCEPTABLE THERMAL GRADIENTS IN THE PIPING WALL. CONDITION: DURING THE INSTALLATION OF A ONE INCH HALF COUPLING ONTO A THREE INCH STAINLESS STEEL SCHEDULE TEN PIPE (FW#70) THE HEAT GENERATED DURING THE WELDING PROCESS HAS CAUSED FLATTENING (PAGE 2)		17. REPORTED BY Andrew C. Hickson		18. VALIDATED BY E. G. G. G. G.		DATE 2-4-82	
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering		23. PROJECT ENGINEERING DISPOSITION			
24. DISPOSITION CONCURRENCE		25. DISPOSITION RESULTS		26. QC ACCEPTANCE		DATE	
27. DISPOSITION CONCURRENCE		28. DISPOSITION RESULTS		29. QC ACCEPTANCE		DATE	
29. QC ACCEPTANCE		30. QC ACCEPTANCE		31. QC ACCEPTANCE		DATE	
32. QC ACCEPTANCE		33. QC ACCEPTANCE		34. QC ACCEPTANCE		DATE	
35. QC ACCEPTANCE		36. QC ACCEPTANCE		37. QC ACCEPTANCE		DATE	
38. QC ACCEPTANCE		39. QC ACCEPTANCE		40. QC ACCEPTANCE		DATE	
41. QC ACCEPTANCE		42. QC ACCEPTANCE		43. QC ACCEPTANCE		DATE	
44. QC ACCEPTANCE		45. QC ACCEPTANCE		46. QC ACCEPTANCE		DATE	
47. QC ACCEPTANCE		48. QC ACCEPTANCE		49. QC ACCEPTANCE		DATE	
50. QC ACCEPTANCE		51. QC ACCEPTANCE		52. QC ACCEPTANCE		DATE	
53. QC ACCEPTANCE		54. QC ACCEPTANCE		55. QC ACCEPTANCE		DATE	
56. QC ACCEPTANCE		57. QC ACCEPTANCE		58. QC ACCEPTANCE		DATE	
59. QC ACCEPTANCE		60. QC ACCEPTANCE		61. QC ACCEPTANCE		DATE	
62. QC ACCEPTANCE		63. QC ACCEPTANCE		64. QC ACCEPTANCE		DATE	
65. QC ACCEPTANCE		66. QC ACCEPTANCE		67. QC ACCEPTANCE		DATE	
68. QC ACCEPTANCE		69. QC ACCEPTANCE		70. QC ACCEPTANCE		DATE	
71. QC ACCEPTANCE		72. QC ACCEPTANCE		73. QC ACCEPTANCE		DATE	
74. QC ACCEPTANCE		75. QC ACCEPTANCE		76. QC ACCEPTANCE		DATE	
77. QC ACCEPTANCE		78. QC ACCEPTANCE		79. QC ACCEPTANCE		DATE	
80. QC ACCEPTANCE		81. QC ACCEPTANCE		82. QC ACCEPTANCE		DATE	
83. QC ACCEPTANCE		84. QC ACCEPTANCE		85. QC ACCEPTANCE		DATE	
86. QC ACCEPTANCE		87. QC ACCEPTANCE		88. QC ACCEPTANCE		DATE	
89. QC ACCEPTANCE		90. QC ACCEPTANCE		91. QC ACCEPTANCE		DATE	
92. QC ACCEPTANCE		93. QC ACCEPTANCE		94. QC ACCEPTANCE		DATE	
95. QC ACCEPTANCE		96. QC ACCEPTANCE		97. QC ACCEPTANCE		DATE	
98. QC ACCEPTANCE		99. QC ACCEPTANCE		100. QC ACCEPTANCE		DATE	
101. QC ACCEPTANCE		102. QC ACCEPTANCE		103. QC ACCEPTANCE		DATE	
104. QC ACCEPTANCE		105. QC ACCEPTANCE		106. QC ACCEPTANCE		DATE	
107. QC ACCEPTANCE		108. QC ACCEPTANCE		109. QC ACCEPTANCE		DATE	
110. QC ACCEPTANCE		111. QC ACCEPTANCE		112. QC ACCEPTANCE		DATE	
113. QC ACCEPTANCE		114. QC ACCEPTANCE		115. QC ACCEPTANCE		DATE	
116. QC ACCEPTANCE		117. QC ACCEPTANCE		118. QC ACCEPTANCE		DATE	
119. QC ACCEPTANCE		120. QC ACCEPTANCE		121. QC ACCEPTANCE		DATE	
122. QC ACCEPTANCE		123. QC ACCEPTANCE		124. QC ACCEPTANCE		DATE	
125. QC ACCEPTANCE		126. QC ACCEPTANCE		127. QC ACCEPTANCE		DATE	
128. QC ACCEPTANCE		129. QC ACCEPTANCE		130. QC ACCEPTANCE		DATE	
131. QC ACCEPTANCE		132. QC ACCEPTANCE		133. QC ACCEPTANCE		DATE	
134. QC ACCEPTANCE		135. QC ACCEPTANCE		136. QC ACCEPTANCE		DATE	
137. QC ACCEPTANCE		138. QC ACCEPTANCE		139. QC ACCEPTANCE		DATE	
140. QC ACCEPTANCE		141. QC ACCEPTANCE		142. QC ACCEPTANCE		DATE	
143. QC ACCEPTANCE		144. QC ACCEPTANCE		145. QC ACCEPTANCE		DATE	
146. QC ACCEPTANCE		147. QC ACCEPTANCE		148. QC ACCEPTANCE		DATE	
149. QC ACCEPTANCE		150. QC ACCEPTANCE		151. QC ACCEPTANCE		DATE	
152. QC ACCEPTANCE		153. QC ACCEPTANCE		154. QC ACCEPTANCE		DATE	
155. QC ACCEPTANCE		156. QC ACCEPTANCE		157. QC ACCEPTANCE		DATE	
158. QC ACCEPTANCE		159. QC ACCEPTANCE		160. QC ACCEPTANCE		DATE	
161. QC ACCEPTANCE		162. QC ACCEPTANCE		163. QC ACCEPTANCE		DATE	
164. QC ACCEPTANCE		165. QC ACCEPTANCE		166. QC ACCEPTANCE		DATE	
167. QC ACCEPTANCE		168. QC ACCEPTANCE		169. QC ACCEPTANCE		DATE	
170. QC ACCEPTANCE		171. QC ACCEPTANCE		172. QC ACCEPTANCE		DATE	
173. QC ACCEPTANCE		174. QC ACCEPTANCE		175. QC ACCEPTANCE		DATE	
176. QC ACCEPTANCE		177. QC ACCEPTANCE		178. QC ACCEPTANCE		DATE	



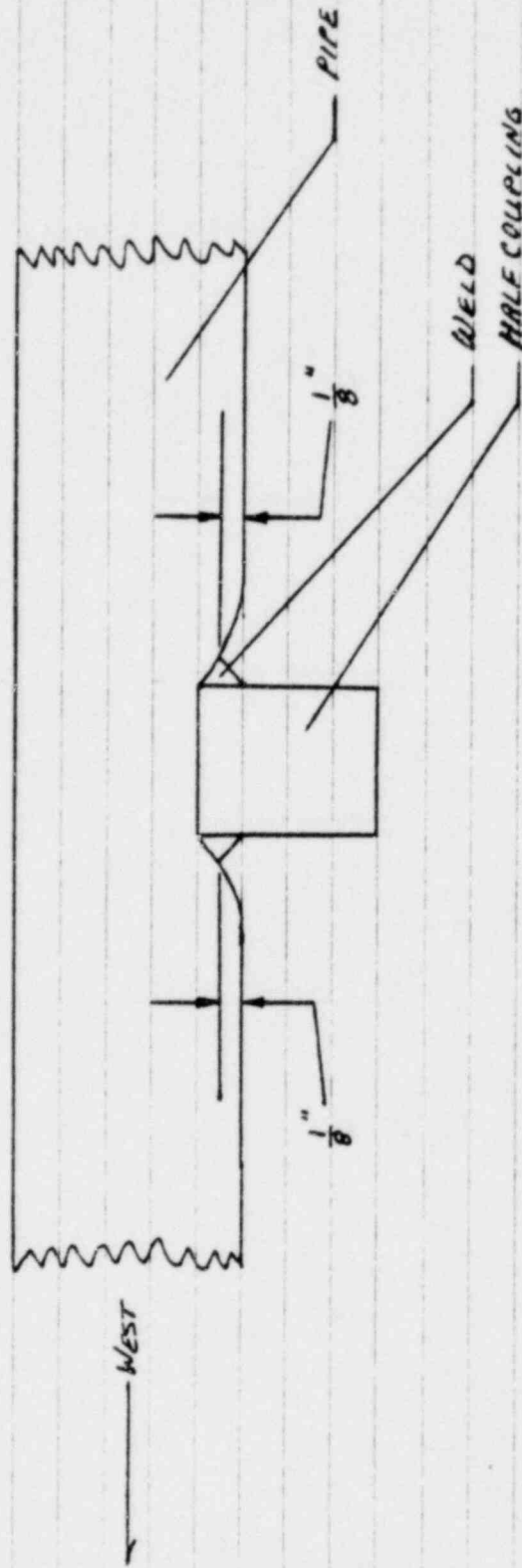
BLOCK 16 CONTINUED

253 ACH 2-4-82

CONDITION (CONT.) OF THE THREE INCH 1HC8-52 LINE. THE AMOUNT OF FLATTENING AND THE STRESSES INVOLVED IN CAUSING THE FLATTENING LEAVES THE CONDITION OF THE MATERIAL INDETERMINATE.

AFFECTED: Q CIR PW 1.00 MB 14-16-70 LOG # 147792
(SEE SKETCH BELOW)

Q-LIST 4.144 1-HOLD TAG APPLIED





IR Backlog

Discussed with Ralph Gordon

NONCONFORMANCE REPORT

S/O # 2JEA A-LAB

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3950	20. PAGE 1 OF 1																
2. UNIT(S) 2	3. DRAWING/PART NO. FSK-M-2HBC-497-3	REV 4	4. ITEM DESCRIPTION SEE BLOCK 16	5. ITEM LOCATION D.G. BLDG. UNDERGROUND																	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE RC/ CONSTRUCTION	10. CONTRACTOR/SUPPLIER N/A																
11. INSPECTION CRITERIA () DWG () SPEC () OTHER log NO. 32219		12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO		13. SKETCH ATTACHED () YES () NO	14. Discovered During () Rec'g () Const () Test																
15. NONCONFORMING CONDITION: Requirement: Specification M204, paragraph 4.1.3 requires that "Pipe... shall be marked with a heat number or heat code and shall retain this identification until... the identification has been recorded in the record isometric or other record document." Condition: The pipe between FW 11 on FSK-M-2HBC-497-3 (A) and FW 16 on FSK-M-2HBC-497-2 (A), which is buried and inaccessible for inspection, has no documented heat number rendering the quality of the pipe indeterminate. No hold tags applied Q-list 4.525				15. Equip Furnished By () Client () Eng () FLD																	
17. REPORTED BY Charles W. Crow Jr. 2/4/82 WS				24. DISPOSITION CONCURRENCE																	
				<table border="1"> <tr> <td>rework</td> <td>reject</td> <td>repair</td> <td>use as is</td> </tr> <tr> <td colspan="2">PROJECT FIELD ENGINEER</td> <td colspan="2">DATE</td> </tr> <tr> <td colspan="2">PROJECT ENGINEER</td> <td colspan="2">DATE</td> </tr> <tr> <td colspan="2">PROJ CONSTR QC ENGINEER</td> <td colspan="2">DATE</td> </tr> <tr> <td colspan="2">AUTHORIZED INSPECTOR</td> <td colspan="2">DATE</td> </tr> </table>		rework	reject	repair	use as is	PROJECT FIELD ENGINEER		DATE		PROJECT ENGINEER		DATE		PROJ CONSTR QC ENGINEER		DATE	
rework	reject	repair	use as is																		
PROJECT FIELD ENGINEER		DATE																			
PROJECT ENGINEER		DATE																			
PROJ CONSTR QC ENGINEER		DATE																			
AUTHORIZED INSPECTOR		DATE																			
18. VALIDATED BY [Signature] 2-8-82				25. DISPOSITION RESULTS																	
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING () TO OTHERS (SPECIFY)																					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering																					
23. PROJECT ENGINEERING DISPOSITION																					
26. QC ACCEPTANCE																					
QC ENGINEER				DATE																	
AUTHORIZED INSPECTOR				DATE																	



PERSON NOTIFIED
BETH HULSEY

START UP SYSTEM
1 FEB 82 2 PCB

NONCONFORMANCE REPORT

1. PROJECT NAME MEDLAND UNIT 1 & 2		JOB NO. 7220		19. NO. 3951	20. PAGE 1 OF 1
2. UNIT(S) 1 & 2	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION See Block 16	5. ITEM LOCATION 674 Trays 2850A, 4 185013	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A	9. SOURCE Construction	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER IR NO. 28A0605G NO. 28G1205A		12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO		13. SKETCH ATTACHED () YES () NO	
16. NONCONFORMING CONDITION: Conductors in trays shall be protected during the construction period against damage from any source. Condition: Cables 28A0605G and 18G1205A have cuts there outer jacket making their quality indeterminate. Re: Bestos Cables. Hold at Engineering Disposition Q LIST - 3.007		14. Discovered During () Rec'd () Const () Test		15. Equip Furnished By () Client () Eng () FLD	
17. REPORTED BY HLSunder		DATE 2/5/82		18. VALIDATED BY DST. E. Dunder	
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		DATE 2-8-82		25. DISPOSITION RESULTS	
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE					
QC ENGINEER					
AUTHORIZED INSPECTOR					
DATE					



Bechtel

DISCUSSED WITH BILL SWENSON NONCONFORMANCE REPORT

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3952		20. PAGE 1 OF 2	
2. UNIT(S) 1		3. DRAWING/PART NO. M616-6		4. ITEM DESCRIPTION 10" - 90° ELBOW AT FW-60		5. ITEM LOCATION 3'W OF (62) 14'S OF (B)	
6. P.O. OR SPEC NO. N/A		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE CONST.	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. N/A		12. ASME AUTHORIZED INSPECTION REC'D (X) YES () NO		13. SKETCH ATTACHED (X) YES () NO	
16. NONCONFORMING CONDITION THAT CARE SHALL BE TAKEN IN HANDLING AND INSTALLATION OF PIPING TO PREVENT DAMAGE.		IR NO. NO. M204		14. DISCOVERED DURING () REC'D (X) CONST () TEST		15. EQUIP FURNISHED BY () CLIENT (X) FIELD	
24. DISPOSITION CONCURRENCE							
REWORK							
INJECT							
REPAIR							
USE AS IS							
PROJECT FIELD ENGINEER							
DATE							
PROJECT ENGINEER							
DATE							
PROJ CONSTR QC ENGINEER							
DATE							
AUTHORIZED INSPECTOR							
DATE							
25. DISPOSITION RESULTS							
26. QC ACCEPTANCE							
QC ENGINEER							
DATE							
AUTHORIZED INSPECTOR							
DATE							

23. PROJECT ENGINEERING DISPOSITION

22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering

17. REPORTED BY
Randy Beach
DATE
2/4/82

18. VALIDATED BY
[Signature]
DATE
2-8-82

21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)

CONDITION: CONTRARY TO SPEC THE ELBOW AT FW #60 LINE INBC-136 ISO M616-6 REV 13/81 HAS BEEN FOUND TO HAVE A AREA FLATTENED AND DAMAGED THEREFORE RENDERING THE QUALITY OF THE PIPE INDETERMINATE [CONT. ON PAGE 2]



Block 16 CONTINUED

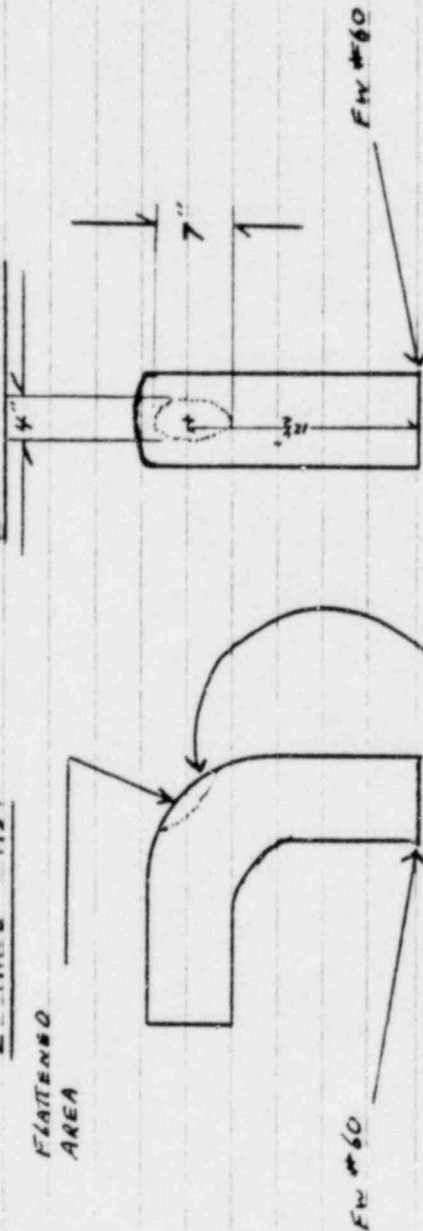
1 HOLD TAG APPLIED

Q-List # 4.164

SKETCH OF DAMAGED AREA

[ELBOW AT FW-60 ON SP.O.L 1HBC-123 -

5616-6-4

Looking EASTFLATTENED
AREALooking SOUTH

4" X 7" AREA - FLATTENED APPROX 1/16" ~ 1/8"

1HBC-136

1HBC-136



PERSON CONTACTED: B. ASHER NONCONFORMANCE REPORT

SU # - NON-RESTABLE

1. PROJECT NAME MIDLAND		JOR NO. 7220		19. NO. 3953	20. PAGE 1 OF 1
2. UNIT(S) Common	3. DRAWING/PART NO. DWG C-2064	REV 5	4. ITEM DESCRIPTION CONSTRUCTION JOINTS	5. ITEM LOCATION Pour # A(633.25)B'	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A	9. SOURCE ENGINEERING	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER	IR NO. C-131-174 NO. C-231	12. ASME AUTHORIZED INSPECTION () YES () NO	13. SKETCH ATTACHED () YES () NO	14. Discovers During () Rec'd () Const () Test	15. Equip. Furnished By () Client () Eng () FLD
16. NONCONFORMING CONDITION: SPEC. C-231 REV. 21. SEN-11003, 11004 SECTION 7.2 STATES IN PART THAT... MAXIMUM SPACING BETWEEN HORIZONTAL CONSTRUCTION JOINTS SHALL NOT EXCEED 16 FEET UNLESS ADEQUATE SPACE IS AVAILABLE FOR WORKING INSIDE THE FORM... CONTRARY TO THE ABOVE, BLOCKWALLS #12A & B AT F.P. EL. 614.0' HAVE BEEN POURED, WITH WALL HEIGHTS OF 17'9" FOR BW #12A & 19'3" FOR BW #12B. HOLD FOR ENGINEERING DISPOSITION. TWO HOLD TAGS APPLIED. "Q" LISTED No. 1.205					
17. REPORTED BY C. Parll	DATE 2/4/82	18. VALIDATED BY W. L. Smith	DATE 2-8-92		
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
26. OC ACCEPTANCE					
OC ENGINEER				DATE	
AUTHORIZED INSPECTOR				DATE	



Discussed with
Tom Zagac

IR BACKLOG

IR BACKLOG
NONCONFORMANCE REPORT START UPCODE: 1KAB

A-LAB

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3954	20. PAGE 1 OF 1
2. UNIT(S) 1	3. DRAWING/PART NO. FSK-M-1HBC-56-1	REV 4	4. ITEM DESCRIPTION See Block # 16	5. ITEM LOCATION EL 294' AM 11-2	
6. P.O. OR SPEC NO. NA	7. SERIAL NO. NA	8. REPLACEMENT PART P/N NA REV NA SER NO. NA		9. SOURCE Construction	10. CONTRACTOR/SUPPLIER NA
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER IR NOW 1208 FSK-M-1HBC-56-1-4 NOM-204		12. ASME AUTHORIZED INSPECTION REQ'D (X) YES () NO		13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec'g () Const () Test
15. Equip Furnished By () Client () Eng () FLD				16. NONCONFORMING CONDITION: Requirement: Specification M204 paragraph 6.5.1 States that prior to installation all piping shall be visually checked for cleanliness. Condition: There is no documented cleanliness inspection for Eckt welds 17 and 18 on Line 2" 1HBC-56 on drawing FSK-M-1HBC-56-1. "Q" List is 4.192 1 Hold Tag applied	
17. REPORTED BY John Kramer DATE 2/8/82				18. VALIDATED BY E. Smith DATE 2-8-82	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
24. DISPOSITION CONCURRENCE					
rework reject repair use as is					
PROJECT FIELD ENGINEER DATE					
PROJECT ENGINEER DATE					
PROJ CONSTR QC ENGINEER DATE					
AUTHORIZED INSPECTOR DATE					
25. DISPOSITION RESULTS					
26. QC ACCEPTANCE					
QC ENGINEER DATE					
AUTHORIZED INSPECTOR DATE					

DISCUSSED WITH DAN HAVEN

50. 26JA



IR BACKLOG
NONCONFORMANCE REPORT

ALB

1. PROJECT NAME Mocand		JOB NO. 07220		19. NO. 3955	20. PAGE 1 of 1
2. UNIT(S) 2	3. DRAWING/PART NO. ASK M-2430-206-1	REV 13	4. ITEM DESCRIPTION See Block 16	5. ITEM LOCATION Area B04	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A	9. SOURCE CONSTRUCTION	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		12. ASME AUTHORIZED INSPECTION REC'D () YES () NO		15. Equip Furnished By () Client () Eng () FLD	
16. NONCONFORMING CONDITION: REQUIREMENT: DNG FSK-M-2430-206-1 Rev 13 SPECIFIC FLANGE BOLTING MATERIAL TO BE 1/2" STD x 2 3/4" LONG FERRUC C.S. CONCLUSION: RECORDS SHOW THAT THE FLANGE ASSEMBLY CONNECTING LINE 2430-206 TO 24M-403 WAS MADE UP USING UNKNOWN SIZE FASTENERS AS TEMPORARY BOLTING MATERIAL. NOTE: THE FLANGE ASSEMBLY WAS SUBSEQUENTLY DEEMED UNSUITABLE WITHOUT Q.C. RELEASE. Q-LIST 4.573					
17. REPORTED BY John P. Miller		DATE 2-8-82		18. VALIDATED BY J. E. Smith	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. () Field Engineering Recommended Disposition to Project Engineering			
23. PROJECT ENGINEERING DISPOSITION					
26. Q.C. ACCEPTANCE					
Q.C. ENGINEER				DATE	
AUTHORIZED INSPECTOR				DATE	



Block 16 CONTINUATION:

CONDITION: CONTRARY TO THE ABOVE REQUIREMENT, CABLE 2BDZ001AS EMBODIES A MINIMUM BEND RADIUS VIOLATION WHERE IT LEAVES CABLE TRAY 2BKQ02 AND ENTERS CONDUIT 2BKQ003. THE MINIMUM BEND RADIUS IS 10" WHERE IT ENTERS CONDUIT. MINIMUM ALLOWABLE BEND RADIUS IS 13.20".

HOLD FOR ENGINEERING DISPOSITION

TWO (2) QC HOLD TAGS APPLIED (ONE @ EACH END)

Q-LIST 3.003



Discussed with
Surentra Chadha

NONCONFORMANCE REPORT

A LAB

S/U IEGA

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 3957	20. PAGE 1 OF 1
2. UNIT(S) 1	3. DRAWING/PART NO. FSK-DVI-M616-14	REV 1	4. ITEM DESCRIPTION 1" globe valve between FW68+FW69	5. ITEM LOCATION Aux 584 elev Room 132	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A	9. SOURCE Construction	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. NO. M-204 15	12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO	13. SKETCH ATTACHED () YES () NO	14. Discovered During () Rec'g () Const () Test
15. Equip Furnished By () Client () Eng () FLD			16. NONCONFORMING CONDITION: Requirement: Spec m204 15 Para 4.1.3 states in Part - - - Materials shall be marked with the information Required by the Applicable ASME material specifications and the Nuclear Power Plant Components Code Para NB2151 Condition: 1" globe valve between FW68+FW69 on FSK-DVI- M616-14 Rev1, has "N" stamp tag missing, and has been installed 1 Hdd tag Applied Q-tag # 4.164		
17. REPORTED BY John Kunschi		DATE 2/8/82	18. VALIDATED BY E. Smith	DATE 2-9-82	24. DISPOSITION CONCURRENCE
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		25. DISPOSITION RESULTS			
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE					
QC ENGINEER					DATE
AUTHORIZED INSPECTOR					DATE

QC UNDERPINNING.



A-LAB

NONCONFORMANCE REPORT

CONTACTED: J. FISHER

S/U - NONTESTABLE

1. Project Name MIDLAND		Job No.		19. No. 3958		20. Page 1 of 1	
2. Unit(s) COMMON		3. Drawing/Part No. N/A		4. Item Description OBSERVATION WELL		5. Item Location F458.0/SAUBA.0	
6. P.O. Or Spec No. C-177 REV.1		7. Serial No. N/A		8. Replacement Part P/N N/A REV N/A		9. Source SUBCONTRACTOR MORETRENK AMERICAN CORP.	
11. Inspection Criteria <input type="checkbox"/> DWG <input checked="" type="checkbox"/> SPEC		12. ASME AUTHORIZED INSPECTION <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		13. SKETCH ATTACHED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		14. Discoveries During <input checked="" type="checkbox"/> REC-G <input type="checkbox"/> CONST <input type="checkbox"/> TEST <input type="checkbox"/> CLIENT <input type="checkbox"/> ENG <input checked="" type="checkbox"/> FLD	
16. Nonconforming Condition: AS STATED IN DRILLING PROCEDURES F7220-CMS-2-3 SECT. 3 PART C - THOSE HOLES WHICH MUST BE DRILLED FOR EJECTORS AND/OR OBSERVATION WELLS, UNDER THE DEWATERING OPERATION, WILL BE LOCATED WITHIN 5 FT. OF THOSE SHOWN ON THE DRAWINGS. CONTRARY TO THIS, (3) DRAWINGS PERTAINING TO LOCATION OF OBSERVATION WELLS WERE NOT ISSUED AT THE TIME OF INSTALLATION.		17. Reported By T. CAIRNS		18. Validated By T. Cairns		25. Disposition Results	
21. Routing <input checked="" type="checkbox"/> TO FIELD ENGINEERING <input type="checkbox"/> TO OTHERS (SPECIFY)		22. <input type="checkbox"/> Field Engineering Disposition <input type="checkbox"/> FIELD ENGINEERING RECOMMENDED DISPOSITION TO PROJECT ENGINEERING		PROJECT FIELD ENGINEER		DATE	
				PROJECT ENGINEER		DATE	
				PROJECT CONSTN QC ENGINEER		DATE	
				AUTHORIZED INSPECTOR		DATE	
23. Project Engineering Disposition		26. QC Acceptance		QC ENGINEER		DATE	
				AUTHORIZED INSPECTOR		DATE	



CONTINUED BACK #16

NONCONFORMANCE REPORT (CONT'D)

20 PAGE 2 OF 3

19 NCR NO 3958

F7220 C195-2-3 SECT. E. STATES - A SCHEDULE WILL BE PROVIDED INDICATING THE DESIGN DEPTH AND SCREEN INTERVALS PRIOR TO START OF INSTALLATION AND/OR DRILLING IN SPECIFIC AREAS.

(2) CONTRARY TO THIS \pm DESIGN DEPTH & SCREEN INTERVAL SCHEDULE WAS NOT AVAILABLE AT THE TIME OF INSTALLATION

(3) GEO TEC WAS NOT INFORMED OF DRILLING OF OBSERVATION WELL.

HOLD FOR ENG. DISPOSITION, "Q" LISTED 1.005
I HOLD TAG APPLIED.

NOTE: OBSERVATION WELL WAS ADVANCED TO A DEPTH OF 69'-4"
W/ 30' OF 1" ϕ 0.016" SCREEN BEING INSTALLED.



Discussed with
F.E. Genny Antip

1. PROJECT NAME

Midland

NONCONFORMANCE REPORT

JOB NO.

7220

2. UNIT(S)

3. DRAWING/PART NO.

A-72 (Q)

REV

13

4. ITEM DESCRIPTION

Concrete Wall Coating

19. NO.

3959

20. PAGE

1 OF 4

5. ITEM LOCATION

654 Ext. Sec. 1640-1

6. P.O. OR SPEC NO.

A-56(Q)

7. SERIAL NO.

N/A

8. REPLACEMENT PART

N/A

9. SOURCE

Construction

10. CONTRACTOR/SUPPLIER

N/A

11. INSPECTION CRITERIA

() DWG () SPEC () OTHER

IR NO.

851-14

12. ASME AUTHORIZED INSPECTION REQ'D

() YES () NO

13. SKETCH ATTACHED

() YES () NO

14. Discovered During

() Rec'd () Const () Test

15. Equip. Furnished By

() Client () Eng () FLD

16. NONCONFORMING CONDITION: Spec. A56(Q) Section 13.4.4 requires surface temp. readings be taken at least every 12 hrs during the minimum curing period.
Condition: X-ray exam activities in RB #3 prevented the monitoring of surface temps. within the required 12 hr intervals for American 90 applied 12/19/81 at three areas of ext. Secondary Shieldwall #1640-1-654. Ref. IPIN C-16. Hold for Eng. Disposition. Q-LIST #120 No Hard Tag Attached

17. REPORTED BY

DATE

2-9-82

18. VALIDATED BY

DATE

2-9-82

21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)

22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering

23. PROJECT ENGINEERING DISPOSITION

26. QC ACCEPTANCE

QC ENGINEER

DATE

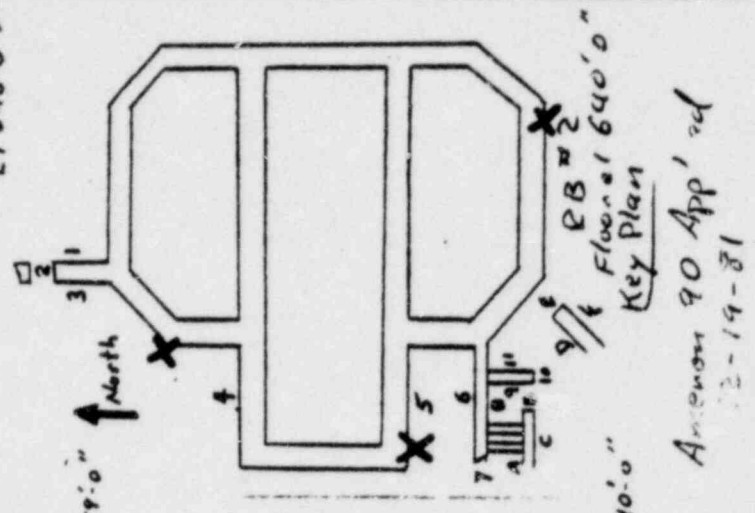
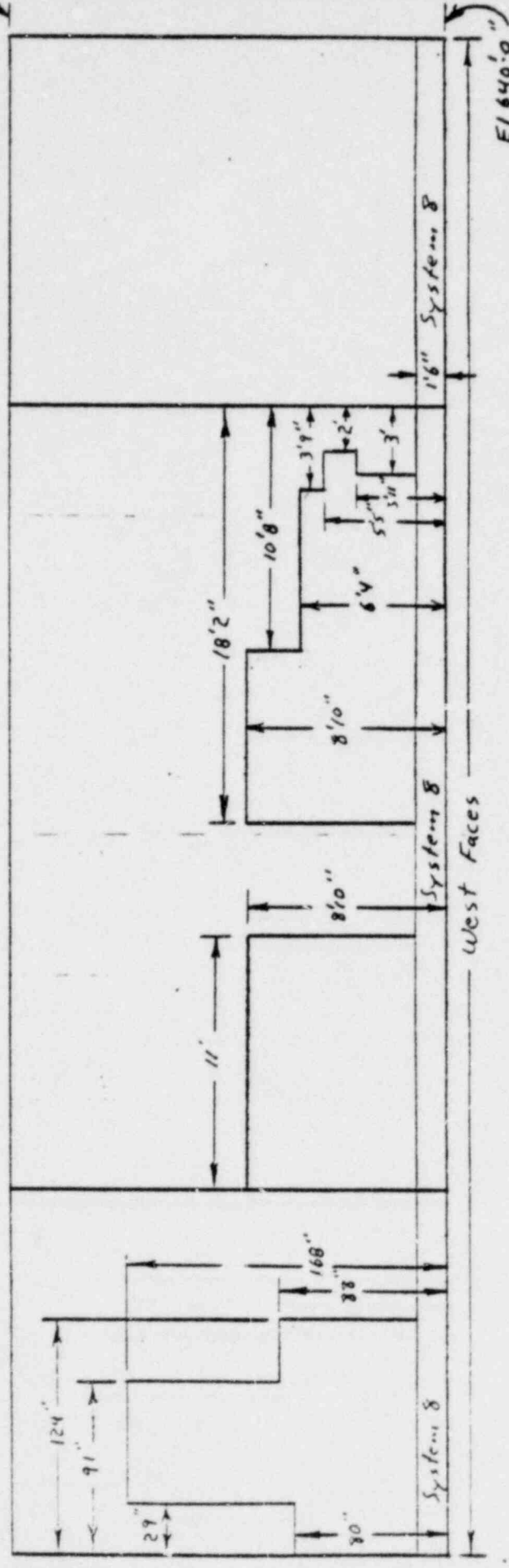
AUTHORIZED INSPECTOR

DATE

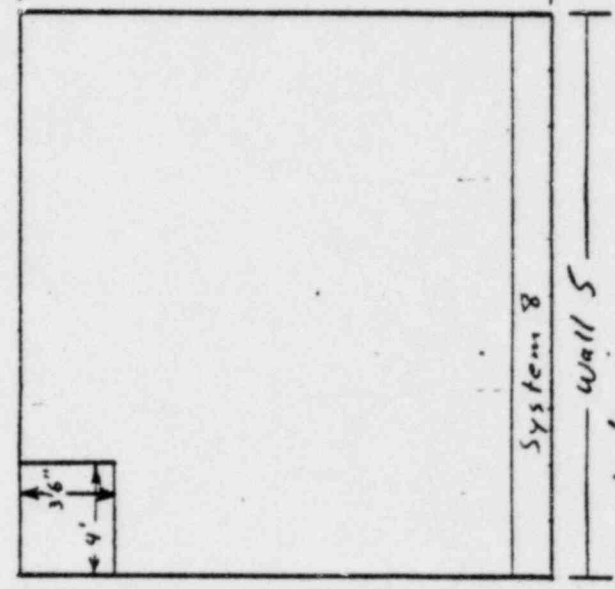
Pg 2 of 4

NCR 3959

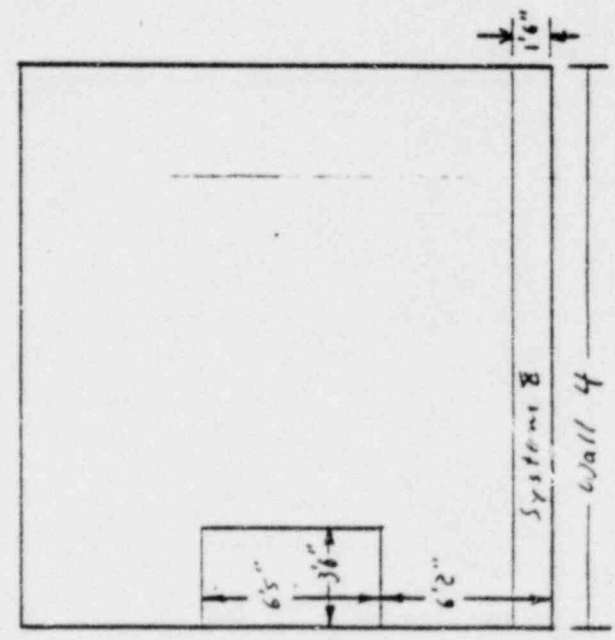
E1659'-0"



Annotation 90 App'nd
12-19-81

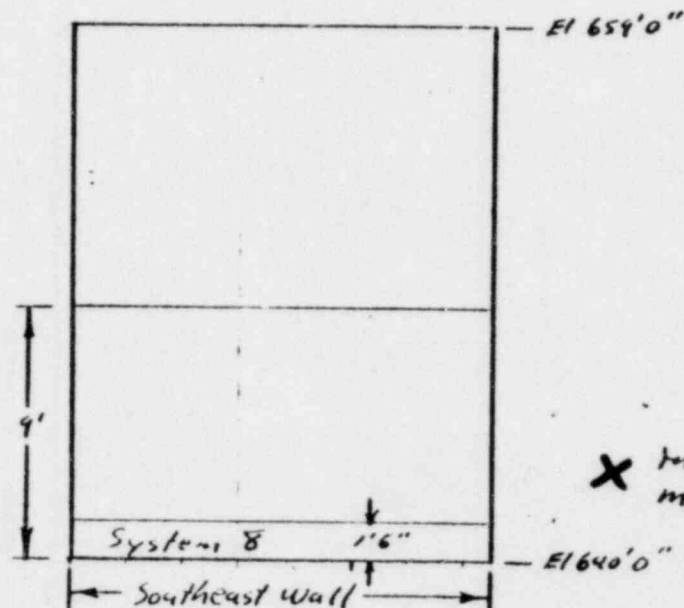
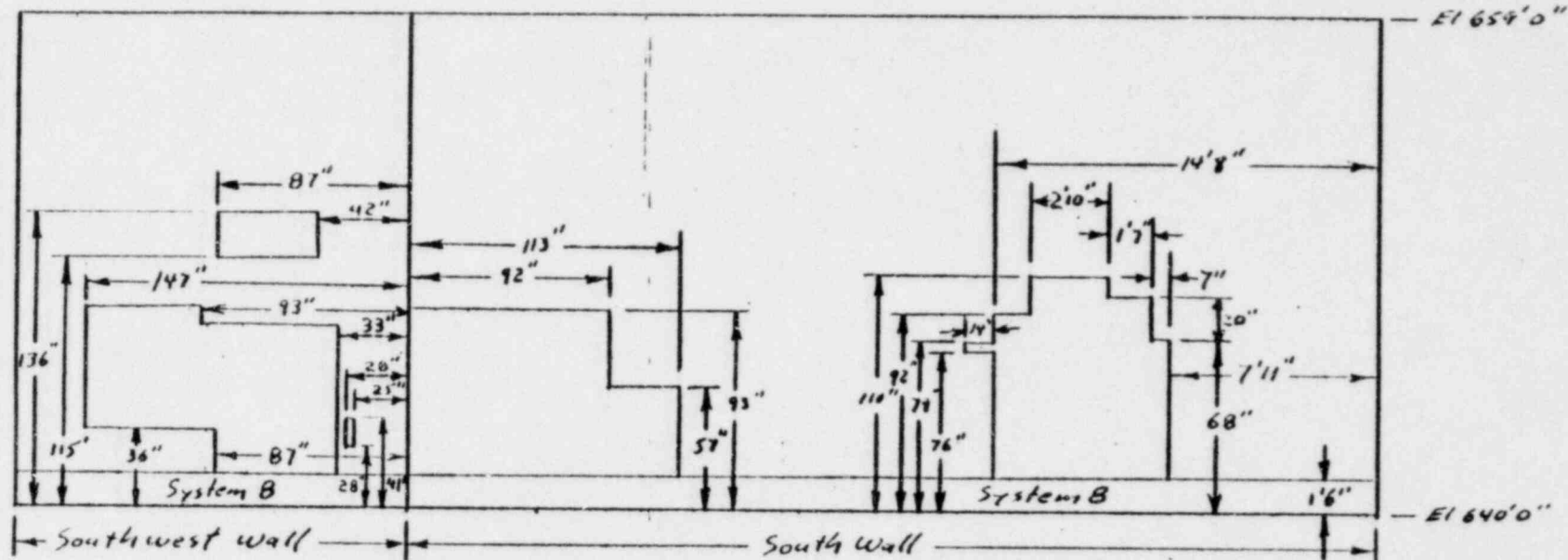


Indica's curve
monitor location

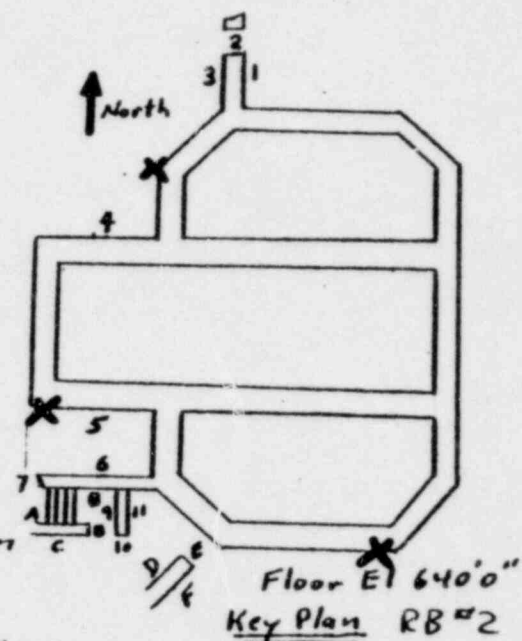


Pg 384

NCR # 3959

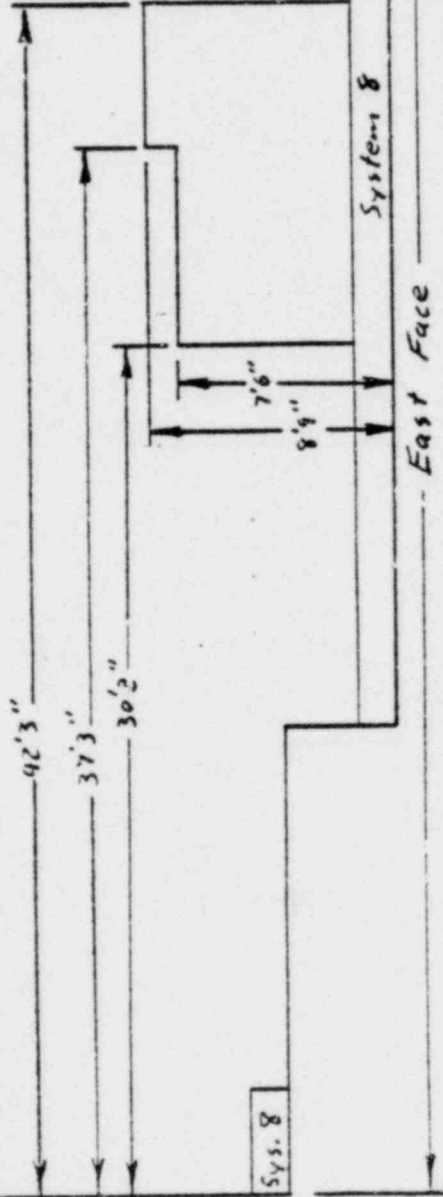


X indicates cure monitor location

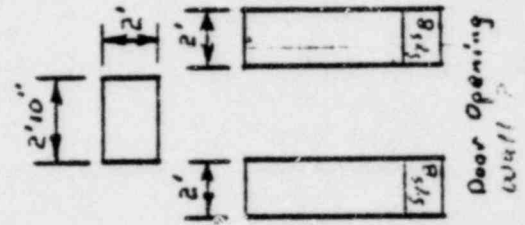
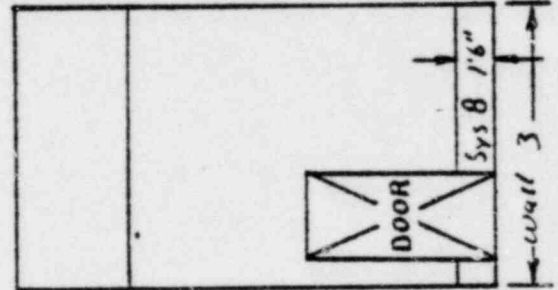
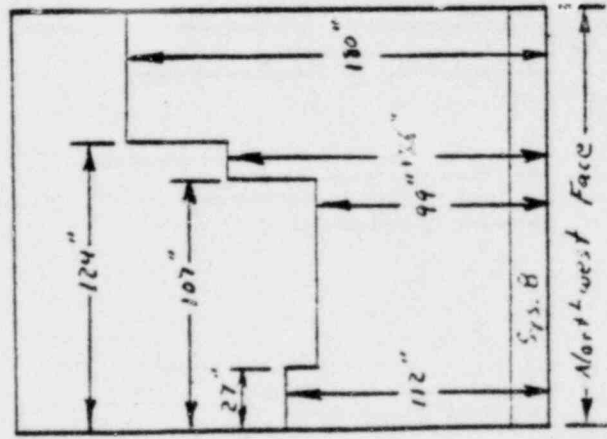


Amenon 90 Applied RB#2
12-19-81

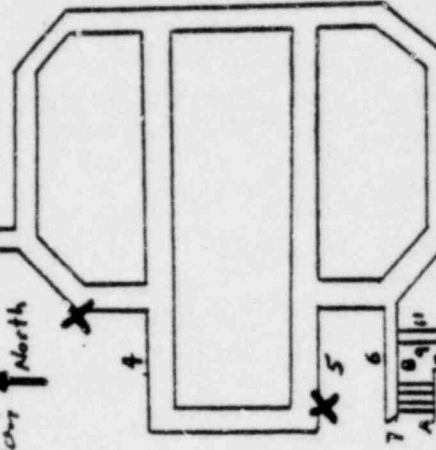
E1659'0"



X indicates cure monitor location North



To Door E1647'2"



Amman 90 Applied
12-19-81



NONCONFORMANCE REPORT

A-CAB

S/A NON-TESTABLE

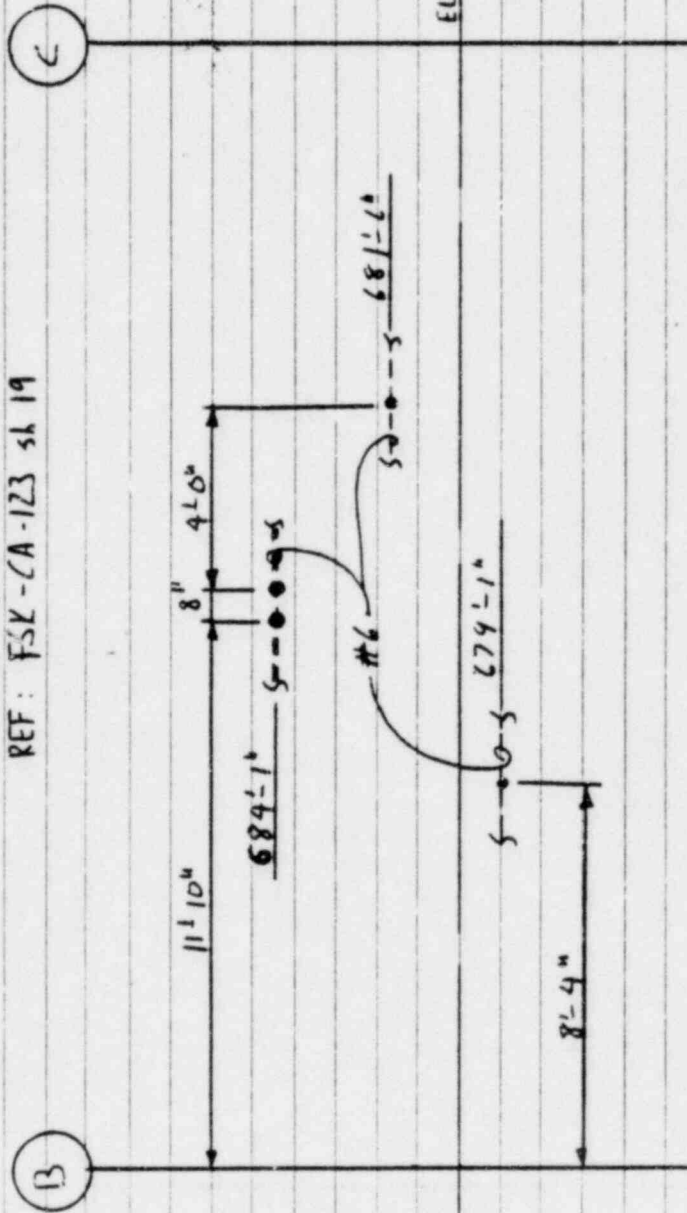
1. PROJECT NAME MIDLAND		JOB NO. 722D		19. NO. 3960		20. PAGE 1 OF 2	
2. UNIT(S) COMMON		3. DRAWING/PART NO. N/A		4. ITEM DESCRIPTION CUT REBAR		5. ITEM LOCATION/AUX BLDG EM. LOT EAST WALL EL 154'	
6. P.O. OR SPEC NO. C-231(a) REV 21		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N N/A REV N/A		9. SOURCE CONSTRUCTION - ELECTRICIAN	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. N/A NO. C-231(a) REV 21		12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO		10. CONTRACTOR/SUPPLIER N/A	
16. NONCONFORMING CONDITION: C-231(a) REV 21, APPENDIX E, STATES IN PART IN SECT 2.2, "... TWO BARS MAY BE CUT EACH FACE, EACH WAY, PROVIDED THE MINIMUM RADIAL DISTANCE TO THE NEXT CUT BAR ON THE SAME FACE, IN THE SAME DIRECTION, IS AT LEAST TEN (10) FEET." CONTRARY TO THIS, EXCESSIVE REBAR WAS CUT IN THE AUX BLDG @ 7.9 LINE WALL BETWEEN B & C LINES AROUND 680' ELEVATION, Q LIST #1, 203. HOLD FOR ENGINEERING DISPOSITION. HOLD TAG Applied.							
17. REPORTED BY SEP William C. Karl		DATE 2-5-82		18. VALIDATED BY R. Smith		DATE 2-9-82	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)							
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering							
23. PROJECT ENGINEERING DISPOSITION							
26. QC ACCEPTANCE							
QC ENGINEER				DATE			
AUTHORIZED INSPECTOR				DATE			

WALL e 7.9 LINE

WEST FACE - LOOKING EAST

1/4" = 1'-0"

REF: FSK-CA-123 s.k. 19





NONCONFORMANCE REPORT

1. PROJECT NAME MIDLAND		JOB NO. 7720		19. NO. 3961		20. PAGE 1 OF 3	
2. UNIT(S) COMMON		3. DRAWING/PART NO. N/A		4. ITEM DESCRIPTION CUT REBAR		5. ITEM LOCATION EL 114-329 RM 131-329	
6. P.O. OR SPEC NO. C-306 REV. 8		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N N/A		9. SOURCE CONSTRUCTION - PIPE FILTERS	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. N/A		12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO		13. SKETCH ATTACHED (X) YES () NO	
16. NONCONFORMING CONDITION: C-306 (G) REV 8, APPENDIX D, SECT 2.2, STATES IN PART, "TWO BARS MAY BE CUT EACH WAY, EACH FACE, PROVIDED THE MINIMUM RADIAL DISTANCE TO THE NEXT CUT BAR ON THE SAME FACE, IN THE SAME DIRECTION, IS AT LEAST TEN (10) FEET." CONTRARY TO THIS EXCESSIVE REBAR WAS CUT IN 2 LOCATIONS: LOCATION #1 - RM 329 - WEST WALL @ 7.4' LINE AROUND E LINE. LOCATION #2 - RM 131 - NORTH WALL @ C LINE WEST OF 8.7' LINE.		14. DISCOVERED DURING () REC'D (X) CONST () TEST		15. EQUIP FURNISHED BY () CLIENT (X) FIELD		24. DISPOSITION CONCURRENCE	
17. REPORTED BY SEP William C. Kord		DATE 2-4-82		18. VALIDATED BY J. E. Smith		DATE 2-9-82	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)							
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering							
23. PROJEC / ENGINEERING DISPOSITION							
26. QC ACCEPTANCE				QC ENGINEER		DATE	
AUTHORIZED INSPECTOR				AUTHORIZED INSPECTOR		DATE	

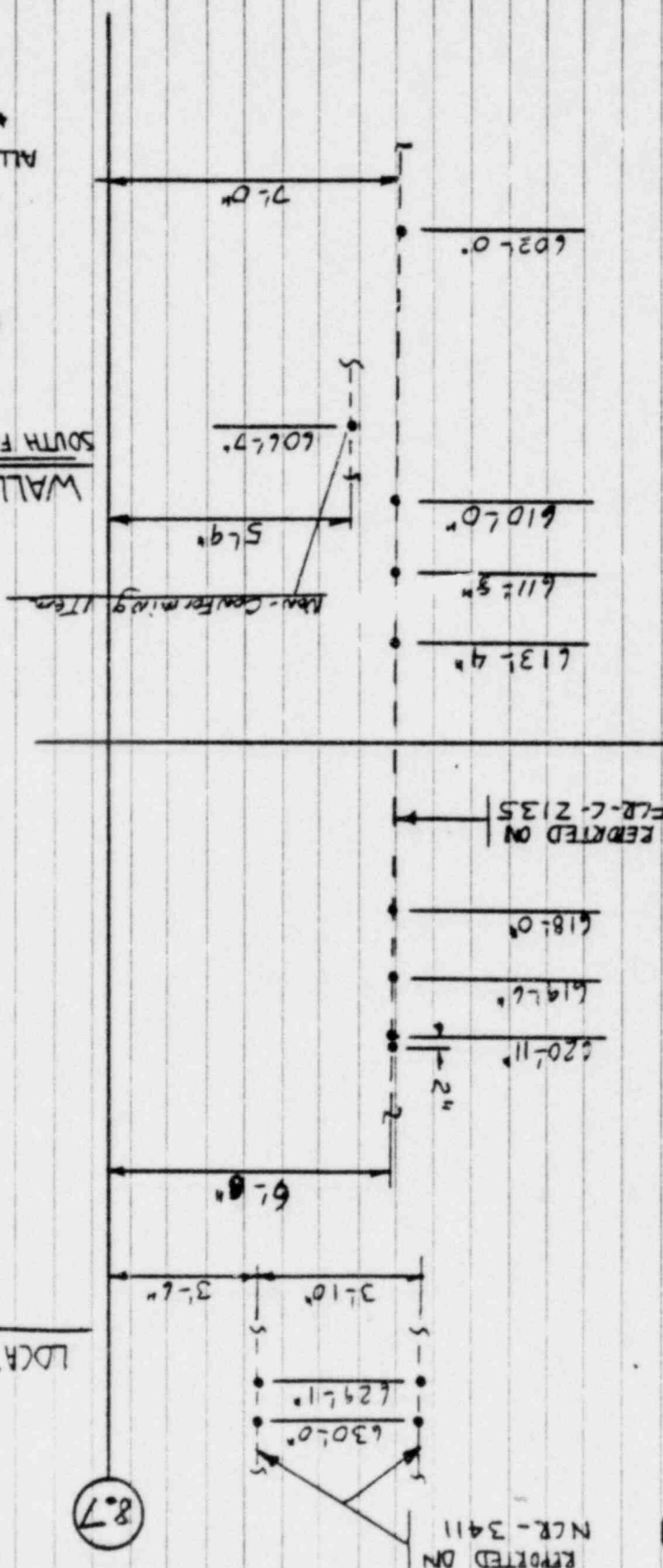
A-CAB

S/A Abn Testable

QC-63-1

WALL @ C LINE
 SOUTH FACE - LOOKING NORTH
 1/4" = 1'-0"
 REF - NCR - 3411
 FCR - C-2135
 FSL - CA-117 & A.142
 HNEB - C19 - 6-122
 QHBC - 19 - W9
 ALL BAR -
 #8 VERTICAL

LOCATION #2:





DISCUSSED WITH B. PURNEY

NONCONFORMANCE REPORT

S/D ZBGD

A-LAB

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3962	20. PAGE 1 OF 2				
2. UNIT(S) Z	3. DRAWING/PART NO. FSK-M-ZCCB-21-1-H6	REV Z	4. ITEM DESCRIPTION WELDING OF FSK-M-ZCCB-21-1-H6	5. ITEM LOCATION CONT 2 ELEV 613					
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE Q.C. Const.	10. CONTRACTOR/SUPPLIER N/A				
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. SEE BLOCK 16 NO. SEE BLOCK 16	12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO	13. SKETCH ATTACHED () YES () NO	14. Discovered During () Rec'g () Const () Test				
15. Equip. Furnished By () Client () Eng () MFLD		16. NONCONFORMING CONDITION: IR NO P220-FSK-M-ZCCB-21-1-H6 SPEC NO M-326 R6							
24. DISPOSITION CONCURRENCE		<table border="1"> <tr> <td>rework</td> <td>reject</td> <td>repair</td> <td>use as is</td> </tr> </table>				rework	reject	repair	use as is
rework	reject	repair	use as is						
PROJECT FIELD ENGINEER		DATE							
PROJECT ENGINEER		DATE							
PROJ CONSTR QC ENGINEER		DATE							
AUTHORIZED INSPECTOR		DATE							
25. DISPOSITION RESULTS									
26. QC ACCEPTANCE									
QC ENGINEER		DATE							
AUTHORIZED INSPECTOR		DATE							

17. REPORTED BY: J. Brownell DATE: 2-8-82

18. VALIDATED BY: E. [Signature] DATE: 2-10-82

21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)

22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering

23. PROJECT ENGINEERING DISPOSITION

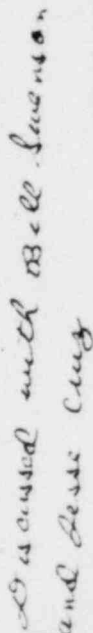


Block 16 CONTINUED

A 3/16" NEAR SIDE, FAR SIDE, FILLET, NPS221 WELD. UPON INSTALLATION INSPECTION THIS WELD WAS FOUND TO BE AN ALL AROUND WELD. THIS WELD WAS MADE WITHOUT PROJECT ENGINEERING APPROVAL

QLIST 4.045

1 HOLD TAG APPLIED



A-LAB

NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 3963		20. PAGE 1 OF 2	
2. UNIT(S) CO2 H2S		3. DRAWING/PART NO. 22219-10		4. ITEM DESCRIPTION Line 5		5. ITEM LOCATION 22594-7-8 Egt 1.1	
6. P.O. OR SPEC NO. NA		7. SERIAL NO. NA		8. REPLACEMENT PART P/N 22219-10		9. SOURCE Const.	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		12. ASME AUTHORIZED INSPECTION REQ'D <input checked="" type="checkbox"/> YES () NO		13. SKETCH ATTACHED () YES <input checked="" type="checkbox"/> NO		14. Discovered During () Rec'd () Const () Test	
16. NONCONFORMING CONDITION: Requirement: 22219A Para 4.8.1 states for all piping 2 1/2" size and larger a pipe spool or any part of the system may vary from design position up to a maximum of 2 inches. Condition: Contrary to this the distance dim. from elbow at FW 1 and elbow at FW 67 is installed 30-10" rather than 31'-3".		17. REPORTED BY Ree Thomas		18. VALIDATED BY [Signature]		19. DATE 2-8-82	
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION							
26. QC ACCEPTANCE							
QC ENGINEER							
AUTHORIZED INSPECTOR							
DATE							
DATE							



Black 16 Cont. : The elbow at FW 64 and FW 2 is shown as being 8'-0" East of 7.4 per FCR-4680, the actual location is 7'-8" East of 7.4 exceeding the maximum allowable tolerance.

4 HOD TAGS ARMED

Q List No. 4.192

Per Runyon 2-8-82

0

2. Contacted - John Dennis

S.U. # / EAD

NONCONFORMANCE REPORT

A-CAD

1. PROJECT NAME Midland Units I & II		JOB NO. 7220		19. NO. 3964		20. PAGE 1 OF 1	
2. UNITS A-1 I		3. DRAWING/PART NO. Under Draw. 7120-M132-110-1		REV 1		4. ITEM DESCRIPTION Motor Op. Valve (1M03893BI)	
5. P.O. OR SPEC NO. M-132-110		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N N/A REV N/A		9. SOURCE Const.	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. N/A		12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO		13. SKETCH ATTACHED () YES (X) NO	
16. NONCONFORMING CONDITION During cable termination inspection it was discovered that M.O.V. 1M03893BI had a broken Terminal block. The damage consisted of several broken Terminal dividers on the block.		14. Discovered During () Rec'g (X) Const		15. Equip. Furnished By () Client (X) Eng		5. ITEM LOCATION A-1 15'E-6.6 10'N-4G	
17. REPORTED BY Randy D. Dora		DATE 2-8-82		18. VALIDATED BY D.S.P. C. Smith		DATE 2-10-82	
21. ROUTING 6/10 FIELD ENGINEERING		() TO OTHERS (SPECIFY)		24. DISPOSITION CONCURRENCE rework reject repair use as is		25. DISPOSITION RESULTS	
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering		PROJECT FIELD ENGINEER		PROJECT ENGINEER		PROJ CONSTR QC ENGINEER	
23. PROJECT ENGINEERING DISPOSITION		AUTHORIZED INSPECTOR		DATE		DATE	
26. QC ACCEPTANCE		QC ENGINEER		DATE		AUTHORIZED INSPECTOR	
		DATE		DATE		DATE	



Person Contacted:
Rick Black

NONCONFORMANCE REPORT

S.U. #

Non-testable Unit

A-CAB

1. PROJECT NAME Middin		JOB NO. 7220	
2. UNIT(S) 2	3. DRAWING/PART NO. E-617	REV 20	4. ITEM DESCRIPTION Cable tray 28KAO6
5. P.O. OR SPEC NO. n/a	6. SERIAL NO. n/a	7. REPLACEMENT PART P/N	8. SOURCE Construction
9. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO		10. CONTRACTOR/SUPPLIER n/a	
11. INSPECTION CRITERIA () DWG () SPEC (X) OTHER		12. DISCOVERED DURING () Rec'g (X) Const () Test	
13. NONCONFORMING CONDITION: Requirements: Per E-42A, sh. 10A note 10.4 Conduits shall be routed such that a 2 inch minimum separation is maintained between any conduit and cable tray. Condition contrary to the above, cable tray 28KAO6 has a conduit protruding into the physical confines of the tray. (SEE CONT. SHEET)		14. EQUIP FURNISHED BY () Client () Eng (X) FLD	
15. REPORTED BY T.A. Perry	DATE 2-9-82	DATE 2-10-82	
16. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)			
22. () Field Engineering Recommended Disposition to Project Engineering			
23. PROJECT ENGINEERING DISPOSITION			
26. QC ACCEPTANCE			
QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	



Block 16 (cont.)

Cables 2BB2439A, 2BB2439B, 2BB2443A, 2BB2443B AND 2BB5622A were involved in a QC. walkdown when problem was found.

Hold for Engineering disposition

Q-List # 3005 & 3006

1 Holding Applied At the time



Discussed with Ralph Gordon

NONCONFORMANCE REPORT

S/U # 1JEA

A-LAB

1. PROJECT NAME <i>Midland</i>		JOB NO. <i>7220</i>		19. NO. <i>3966</i>	20. PAGE <i>1 OF 2</i>
2. UNIT(S) <i>1</i>	3. DRAWING/PART NO. <i>See block 16</i>	REV	4. ITEM DESCRIPTION <i>See block 16</i>	5. ITEM LOCATION <i>Diesel Oil Storage Tank IT 80</i>	
6. P.O. OR SPEC NO. <i>N/A</i>	7. SERIAL NO. <i>N/A</i>	8. REPLACEMENT PART P/N <i>N/A</i> REV <i>N/A</i> SER NO. <i>N/A</i>		9. SOURCE <i>CONSTRUCTION</i>	10. CONTRACTOR/SUPPLIER <i>N/A</i>
11. INSPECTION CRITERIA () DWG () SPEC () OTHER <i>log NO. 16547</i>		12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO		13. SKETCH ATTACHED () YES () NO	14. Discovered During () Rec'g () Const () Test
15. Equip Furnished By () Client () Eng () FLD				16. NONCONFORMING CONDITION: <i>Section 7130 of the BOAM requires that "Bechtel generated welding and NDE quality verification documentation and records are prepared and maintained in accordance with PQC1 PW-1.00. Section 5240 requires "verification of traceability between the item and the inspection, examination, and test documentation. Contrary to the above, FW 54 + FW 35 on FSK-M-IHBC-4-2-1, which are buried and inaccessible for inspection, have no welding documentation. Furthermore, the pipe between FW 18 on FSK-M-IHBC-4-1-1 and FW 1 on FSK-M-IHBC-4-2-1 has a documented heat number 40843 which is not</i>	
17. REPORTED BY <i>Charles Cross Jr.</i>		DATE <i>2/9/82</i>		18. VALIDATED BY <i>[Signature]</i>	
DATE <i>2-10-82</i>					
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
24. DISPOSITION CONCURRENCE					
rework reject repair use as is					
PROJECT FIELD ENGINEER DATE					
PROJECT ENGINEER DATE					
PROJ CONSTR QC ENGINEER DATE					
AUTHORIZED INSPECTOR DATE					
25. DISPOSITION RESULTS					
26. QC ACCEPTANCE					
QC ENGINEER DATE					
AUTHORIZED INSPECTOR DATE					



Block 16 continued:

traceable to a certified material test report. The above conditions render the quality of the pipe indeterminate. One hold tag applied. Q-1,1st 4.525



NONCONFORMANCE REPORT

A-LAB
SpU - Indeterminate

1. PROJECT NAME <i>Midland</i>		JOB NO. <i>7220</i>		19. NO. <i>3967</i>		20. PAGE <i>1</i> OF <i>2</i>	
2. UNIT(S) <i>1 & 2</i>	3. DRAWING/PART NO. <i>VARIOUS</i>	REV <i>N/A</i>	4. ITEM DESCRIPTION <i>SEE BLOCK #16</i>	5. ITEM LOCATION <i>VARIOUS</i>			
6. P.O. OR SPEC NO. <i>N/A</i>	7. SERIAL NO. <i>N/A</i>	8. REPLACEMENT PART P/N <i>N/A</i> REV <i>N/A</i> SER NO <i>N/A</i>	9. SOURCE <i>Const./RC.</i>	10. CONTRACTOR/SUPPLIER <i>N/A</i>	15. Equip Furnished By () Client (X) Eng () FLD		
11. INSPECTION CRITERIA () DWG (X) SPEC (X) OTHER		IR NO. <i>N/A</i> NO. <i>N/A</i>	12. ASME AUTHORIZED INSPECTION REQUIRED (X) YES () NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec'g (X) Const () Test	24. DISPOSITION CONCURRENCE	
16. NONCONFORMING CONDITION: <i>Requirement: M204 REV. 15 PARA. 4.1.3 states in part "LOCK CHASE CHANNELS expenatration flued heads, shall be considered minor permanent attachments as called out in ASME SEC. III, NB-4435. They do not require certified material." PARA. NB-4435 states in part "Temporary or minor permanent attachments may be non-certified material and welded directly to the pressure boundary provided: (b) The material</i>							
17. REPORTED BY <i>Randy</i>		DATE <i>2/9/82</i>		18. VALIDATED BY <i>W. E. Sumner</i>		DATE <i>2-10-82</i>	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)							
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering							
23. PROJECT ENGINEERING DISPOSITION							
26. QC ACCEPTANCE							
QC ENGINEER							
AUTHORIZED INSPECTOR							
DATE							
DATE							



Block 16 continued:

is identified and is suitable for welding. "Para. NH-442.1 states, "parts" measures shall be established for identification and control of materials and parts... These measures shall assure that identification is maintained either on the item or on records traceable to the item, throughout many phases or installation." Condition: Contrary to the above requirements, a review of back log inspection records has identified many cases, where leak chase channels have been installed and no documentation of the material identification was recorded on as built records, nor is material installed identified. This generic NCR is issued to resolve the final material acceptance of leak chase channels previously installed on Q "plus" heads. It is further noted that Quality Control Instructions have been revised and failure to document material identification is no longer a problem.

Q-List No. - information

NO HOLD TAGS APPLIED



DISCUSSED WITH MIKE MALLONEE

NONCONFORMANCE REPORT 3/0 IALA438

a-lab

1. PROJECT NAME MIDLAND		JOB NO. T220		19. NO. 3968	20. PAGE 1 OF 1																				
2. UNIT(S) 1	3. DRAWING/PART NO. M-6335h4	REV 13/1	4. ITEM DESCRIPTION VALVE 438-3-294 BETWEEN FW 119 & 120 VALVE 438-3-025 BETWEEN FW 388 & 389	5. ITEM LOCATION EL 586.0 W E of 5.6/2.3" S of 4																					
6. P.O. OR SPEC NO. NA	7. SERIAL NO. 8020-95420-2-1 8020-95420-2-2	8. REPLACEMENT PART P/N NA REV NA SER NO. NA	9. SOURCE CONST.	10. CONTRACTOR/SUPPLIER NA																					
11. INSPECTION CRITERIA <input checked="" type="checkbox"/> DWG <input type="checkbox"/> SPEC <input type="checkbox"/> OTHER		IR NO. NO. M-6335h4	12. ASME AUTHORIZED INSPECTION REQ'D <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	13. SKETCH ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	14. Discovered During <input type="checkbox"/> Rec'g <input checked="" type="checkbox"/> Const <input type="checkbox"/> Test																				
15. Equip Furnished By <input type="checkbox"/> Client <input checked="" type="checkbox"/> Eng <input type="checkbox"/> FLD			15. Equip Furnished By <input type="checkbox"/> Client <input checked="" type="checkbox"/> Eng <input type="checkbox"/> FLD																						
16. NONCONFORMING CONDITION: REQUIREMENT: SPEC. M204 STATES IN PART; VALVES SHALL BE INSTALLED AS SHOWN ON THE DRAWINGS. CONDITION: VALVE 438-3-025 ON LINE 6"-IDBC-2 AND VALVE 438-3-294 ON LINE 6"-IDBC-10 HAVE BEEN INSTALLED WITH AN APPROXIMATE ROLL OF 15° FROM VERTICAL. DRAWING M6335h4 REQUIRES THESE VALVES BE INSTALLED IN THE TRUE VERTICAL POSITION.			24. DISPOSITION CONCURRENCE																						
			<table border="1"> <tr> <td>rework</td> <td>reject</td> <td>repair</td> <td>use as is</td> </tr> <tr> <td colspan="2">PROJECT FIELD ENGINEER</td> <td colspan="2">DATE</td> </tr> <tr> <td colspan="2">PROJECT ENGINEER</td> <td colspan="2">DATE</td> </tr> <tr> <td colspan="2">PROJ CONSTR QC ENGINEER</td> <td colspan="2">DATE</td> </tr> <tr> <td colspan="2">AUTHORIZED INSPECTOR</td> <td colspan="2">DATE</td> </tr> </table>			rework	reject	repair	use as is	PROJECT FIELD ENGINEER		DATE		PROJECT ENGINEER		DATE		PROJ CONSTR QC ENGINEER		DATE		AUTHORIZED INSPECTOR		DATE	
rework	reject	repair	use as is																						
PROJECT FIELD ENGINEER		DATE																							
PROJECT ENGINEER		DATE																							
PROJ CONSTR QC ENGINEER		DATE																							
AUTHORIZED INSPECTOR		DATE																							
17. REPORTED BY Paul Schult		DATE 2-11-82		18. VALIDATED BY E. Smith																					
				DATE 2-12-82																					
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING <input type="checkbox"/> TO OTHERS (SPECIFY)																									
22. <input type="checkbox"/> Field Engineering Disposition <input type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering																									
23. PROJECT ENGINEERING DISPOSITION																									
26. QC ACCEPTANCE																									
QC ENGINEER				DATE																					
AUTHORIZED INSPECTOR				DATE																					



2-1-82

NONCONFORMANCE REPORT

Excessed with - L. Harrison

NO. 2220

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 3969	20. PAGE 1 OF 2
2. UNIT(S) 1+2	3. DRAWING/PART NO. F5K-MPC-5-1031	4. ITEM DESCRIPTION FW#6 AT Flood Head 1269, 2241 and 2266	5. ITEM LOCATION REACTOR Bldg Unit #42		
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N 514	9. SOURCE Const.	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER	IR NO. N/A	12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO	13. SKETCH ATTACHED () YES () NO	14. Discovered During () Rec'g () Const () Test	15. Equip Furnished By () Client () Eng () FLD
16. NONCONFORMING CONDITION: Requirement: APPD, PSPG-6.1, PARA. 3.3 states "Project Quality Control. Inspection activities describe the minimum inspection activities and tasks that must be performed by construction quality control to verify that work performed... conforms to the inspection requirements criteria". Condition: Contrary to the above requirement, the following field work was made without inspection records or documentation, therefore final acceptance of welds, is indeterminate: FW#6, Dwg. FSK-MPC-17. REPORTED BY Trendall, Date 2-11-82 21. ROUTING: TO FIELD ENGINEERING () TO OTHERS (SPECIFY) WS DATE 2/11/82 VALIDATED BY E. L. Smith DATE 2/11/82					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE QC ENGINEER AUTHORIZED INSPECTOR					
DATE DATE DATE					

Continuation of block #16

1-1021 REV. 1, F.W. # 6 Dwg. FSK-MPC-2006 REV. 2 AND F.W. # 6 Dwg. FSK-MPC-2006
REV. 2. WELDS ARE LOCATED AT LEAK CHASE CHANNELS TO CURBED HEADS
NO. 1Z 69 (ELV. 596'), 2Z 41 (ELV. 617') AND 2Z 66 (ELV. 596'), IN REACTOR BUILDING.

Q-List No. 4.0411

4.494

4.537

(3) Hold Tags Applied



Q-LIST: 1.2015

Q-List

LARRY ANDERSON NOTIFIED NONCONFORMANCE REPORT

SU: NON-TESTABLE

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3970		20. PAGE 1 OF 2	
2. UNIT(S) 2		3. DRAWING/PART NO. E 623		4. ITEM DESCRIPTION REV 3 INSTALLATION OF CONDUIT, BOXES, SLOTS		5. ITEM LOCATION SEE CONT. SHT.	
6. P.O. OR SPEC NO. E 42 B		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N N/A REV N/A		9. SOURCE CONSTRUCTION	
11. INSPECTION CRITERIA (X) DWG () SPEC () OTHER		IR NO. E 42 B		12. ASME AUTHORIZED INSPECTION REG'D () YES (X) NO		13. SKETCH ATTACHED () YES (X) NO	
14. DISCOVERED DURING () REC'D (X) CONST () TEST		15. EQUIP FURNISHED BY () CLIENT () ENG (X) FLD		10. CONTRACTOR/SUPPLIER N/A			
24. DISPOSITION CONCURRENCE							
25. DISPOSITION RESULTS							
26. QC ACCEPTANCE							
QC ENGINEER							
AUTHORIZED INSPECTOR							
DATE							
DATE							

16. NONCONFORMING CONDITION:

REQUIREMENT:-

DWG. E42B SHT. 316 REQUIRES

TYPE 13-13 SUPPORT BE INSTALLED WITH 5/8" φ

ANCHOR BOLTS THAT HAVE A MIN. EMBEDMENT

LENGTH OF 2 3/4". (SEE CONT. SHT.)

17. REPORTED BY
Randy [Signature]

LN DATE
2/4/82

18. VALIDATED BY
E. [Signature]

DATE
2-12-92

21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)

22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering

23. PROJECT ENGINEERING DISPOSITION

Block 16:-
CONDITION:-

CONTRARY TO THE ABOVE REQUIREMENT THE FIELD HAS
INSTALLED A TYPE 13-13 SUPPORT WITH $5\frac{1}{8}$ " ϕ ANCHOR
BOLTS THAT HAVE AN EMBEDMENT LENGTH OF
ONLY 2".

Block: 5

LOCATION: AUX. BLDG. EL. 657'-9", 13'-0" WEST OF
COL. B.7, 4'-6" NORTH OF LINE B. (SUPPORT # EG23-1163)

Q.LIST. 1.2015

HOLD FOR ENGINEERING DISPOSITION

1 HOLD TAG ATTACHED.



Discussed w/ D. John

NONCONFORMANCE REPORT

S/u 186A

Q-800

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 3971	20. PAGE 1 OF 2
2. UNIT(S) 1	3. DRAWING/PART NO. See Block 16	REV	4. ITEM DESCRIPTION see Block 16	5. ITEM LOCATION Cont. 1	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A	9. SOURCE Cast.	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. M-342	12. ASME AUTHORIZED INSPECTION REC'D (X) YES () NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec'g (X) Const () Test
15. Equip Furnished By () Client () Eng (X) FLD					
16. NONCONFORMING CONDITION: Spec. M-342, Rev. 6, Paragraph 8.3 states that "Sulphur, chlorides and other halides or materials containing compounds of these elements shall not be used on final cleaned or stainless steel and nickel-based surfaces."					
24. DISPOSITION CONCURRENCE					
rework		reject		repair	
PROJECT FIELD ENGINEER		PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		PROJECT ENGINEER		DATE	
PROJ CONSTR QC ENGINEER		PROJ CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		AUTHORIZED INSPECTOR		DATE	
25. DISPOSITION RESULTS					
17. REPORTED BY C.D. Noling					
DATE 2-9-82		18. VALIDATED BY (Cont'd. on Page 2)			
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE					
QC ENGINEER		AUTHORIZED INSPECTOR		DATE	
AUTHORIZED INSPECTOR		AUTHORIZED INSPECTOR		DATE	

Block 16 (cont'd):

During construction, approximately 3-5 gallons of a yellow liquid, which appeared to be urine, was observed running out of a stainless steel pipe. ^{4650 2/11/72}

The origin of the liquid (location) not being known, leaves the quality and cleanliness of the pipe indeterminate for the below listed lines.

Dwg. M603, SH3

- Line 3" - ICCB-67
- " 3" - ICCA-26
- " 2 1/2" - ICCB-70
- " 3" - ICCB-63
- " 3" - ICCA-19
- " 2 1/2" - ICCB-65

Dwg. FSK-M-ICCA-95-1

- Line 1" - ICCB-112
- " 1" - IHCC-484
- " 1" - IHCC-531
- " 1" - ICCA-95
- " 1" - IHCC-483

Dwg. FSK-M-ICCB-69-1

- Line 1" - IHCC-484
- " 1" - ICCB-69
- " 1" - IHCC-540

Dwg. FSK-M-ICCB-66-1

- Line 1" - ICCB-111
- " 1" - IHCC-483
- " 1" - ICCB-66

Q-List # - 4,037

Fifteen (15) hold tags applied.



PERSON NOTIFIED
RICH BLACK

S/U-08LA, 28TA

0-800

NONCONFORMANCE REPORT

1. PROJECT NAME MIDLAND PLANT UNIT 1 & 2		JOB NO. 7220		19. NO. 3972	20. PAGE 1 OF 1
2. UNIT(S) 2	3. DRAWING/PART NO. E632 SH1	REV 14	4. ITEM DESCRIPTION SLOTS	5. ITEM LOCATION E685 10" LINE HTOR, 66-78	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART PIN N/A	9. SOURCE CONSTRUCT.	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA (X) DWG () SPEC () OTHER		IR NO. SEE BLOCK 16	12. ASME AUTHORIZED INSPECTION REQUIRED () YES (X) NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec. (X) Const () Test
15. Equip. Furnished By () Client (X) Eng (X) Field					
16. NONCONFORMING CONDITION: CONTRARY TO THE REQUIREMENTS OF E42 SH18 (D, E, F, G) ANGLE IRON ENCLOSURES WERE NOT INSTALLED FOR SLOTS: 2BSL301, 2BSL306, 2BSL307, 2BSL308. NOTE: UPGRADED IPINS N ^o E942, E943, E944, E945 TO NCR. Q-LIST N ^o 3006 HOLD FOR ENGINEERING DISPOSITION. 4 HOLD TAGS APPLIED.					
17. REPORTED BY M REUTICH	DATE 2-11-82	18. VALIDATED BY R. Smith		DATE 2-11-82	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE					
QC ENGINEER					
AUTHORIZED INSPECTOR					
DATE					
DATE					

PERSON NOTIFIED
BOB BANE

STARTUP SYSTEM # 258A

NONCONFORMANCE REPORT

1. Project Name MIDLAND		Job No. 7220		19. No. 3973		20. Page 1 of 2	
2. Unit(s) 2		3. Drawing/Part No. N/A		4. Item Description CABLES PULLED W/O QC WITHNESS		5. Item Location ELEV. 659 AUX BLDG SAFETY RELATED RM.	
6. P.O. Or Spec No. N/A		7. Serial No. N/A		8. Replacement Part P/N N/A REV N/A		9. Source CONSTRUCTION N/A	
11. Inspection Criteria <input type="checkbox"/> DWG <input type="checkbox"/> SPEC <input checked="" type="checkbox"/> OTHER NO. 2DQ192EA		12. ASME AUTHORIZED INSPECTION REQ'D <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		13. SKETCH ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		14. Discovered During <input type="checkbox"/> REC'G <input checked="" type="checkbox"/> CONST <input type="checkbox"/> TEST <input type="checkbox"/> CLIENT <input checked="" type="checkbox"/> ENG <input type="checkbox"/> FLD	
16. Nonconforming Condition: REQUIREMENT: PSPG-1.1 SECTION 3.1.3 STATES IN PART: INSPECTION, EXAMINATION, TESTING, CHECKING, AND REVIEWING TO VERIFY THE REQUIRED QUALITY IN WORK PERFORMED BY BECHTEL CONSTRUCTION ARE PROVIDED BY THE DIVISION CONSTRUCTION DEPARTMENT QUALITY CONTROL ENGINEERS WHO ARE NOT DIRECTLY RESPONSIBLE FOR PERFORMANCE OF THE WORK ACTIVITIES.		15. Equip Furnished By PROJECT FIELD ENGINEER DATE PROJECT ENGINEER DATE PROJECT CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE		24. Disposition Concurrence REWORK REJECT REPAIR USE AS IS		25. Disposition Results	
17. Reported By D.K. Stalder		Date 2-10-82		18. Validated By E. J. Smith		Date 2-11-82	
21. Routing <input checked="" type="checkbox"/> TO FIELD ENGINEERING		22. <input type="checkbox"/> Field Engineering Disposition		23. Project Engineering Disposition		26. QC Acceptance QC ENGINEER DATE AUTHORIZED INSPECTOR DATE	



NONCONFORMANCE REPORT (CONT'D)

20 PAGE 2 OF 2

19 NCR NO 3973

EXISTING CONDITION: CABLES WERE PULLED THROUGH VIA DH052 WITHOUT
QUALITY CONTROL ENGINEER PRESENT TO VERIFY POSSIBLE DAMAGE

HOLD TAGS APPLIED: 2

HOLD FOR ENGINEERING DISPOSITION.

Backlog IR
Discussed with:
Dave Baker

S/U# 1 FCA

NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 3974	20. PAGE 1 OF 1
2. UNIT(S) One	3. DRAWING/PART NO. M-633 Sh. 2	REV 1/2	4. ITEM DESCRIPTION FW #14 (on 12" HBE-322)	5. ITEM LOCATION Ave. Bldg El. 600' 4 1/2"	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N 4/A REV N/A	9. SOURCE Const.	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER Log NO. 9735		12. ASME AUTHORIZED INSPECTION REQ'D (X) YES () NO		14. Discovered During () Rec'd (X) Const () Test	
15. Equip. Furnished By () Client (X) Eng () FLD					
16. NONCONFORMING CONDITION: Requirement: M-204 states in part - "Prior to installation all piping shall be visually checked for cleanliness. Condition: FW #14 on Dwg. M-633 Sh. 2 was installed without QC verification or documentation. Cleanliness.					
24. DISPOSITION CONCURRENCE					
rework		reject		repair use as is	
PROJECT FIELD ENGINEER DATE					
PROJECT ENGINEER DATE					
PROJ CONSTR QC ENGINEER DATE					
AUTHORIZED INSPECTOR DATE					
25. DISPOSITION RESULT					
26. OC ACCEPTANCE					
OC ENGINEER DATE					
AUTHORIZED INSPECTOR DATE					

Q List No. 4164
1 Hold Tag Applied
DATE 2-10-82
ROUTING: (X) FIELD ENGINEERING () TO OTHERS (SPECIFY)
E. Smith 2-11-82

22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering

23. PROJECT ENGINEERING DISPOSITION

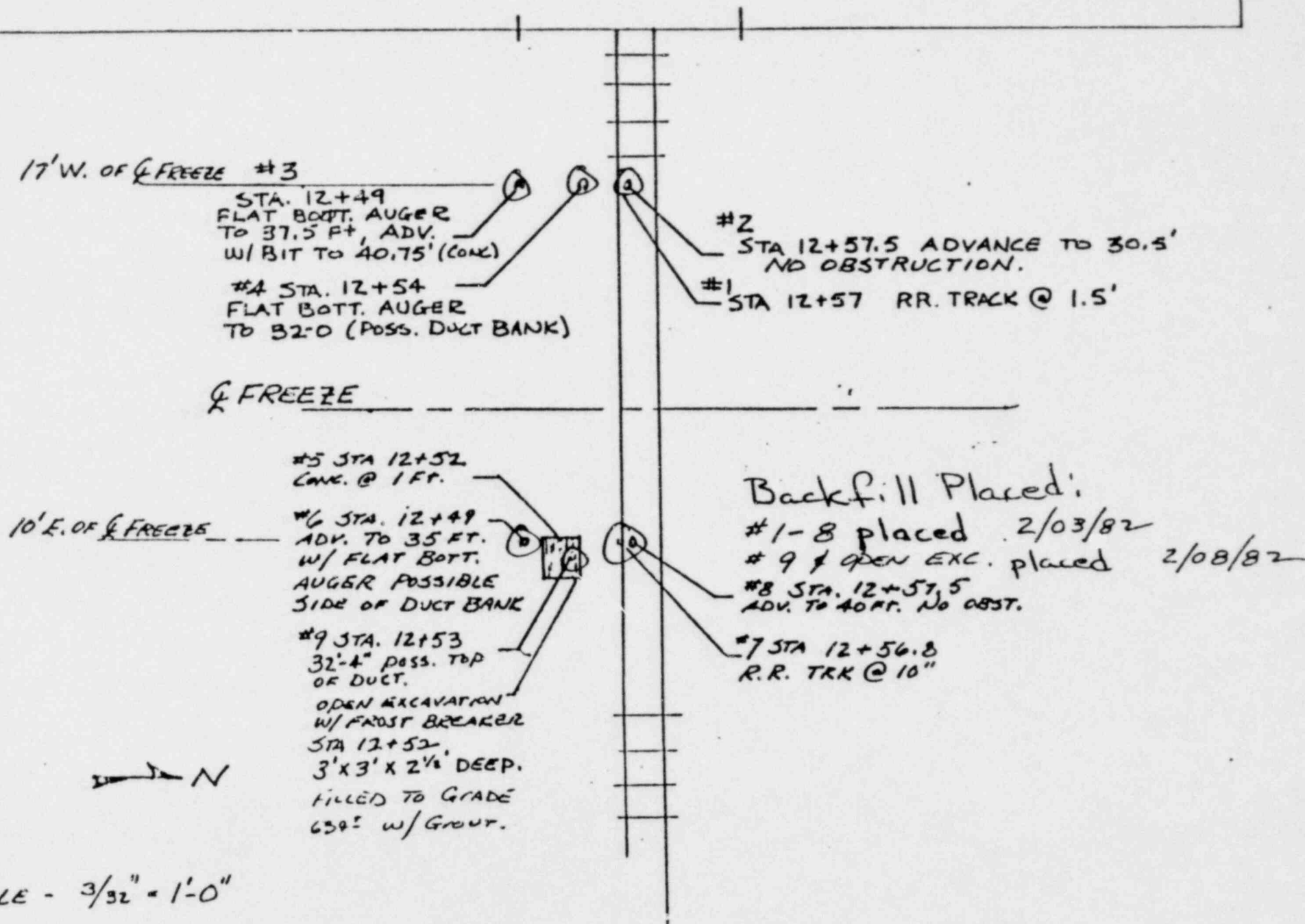
Q.C. Underpinning

Jim Kelleher

Contacted: Kael Kleinhard

A-Field
No hold tags applied.
"Q" listed 1.004
S/U: Nontestable

1. PROJECT NAME Midland		JOB NO. 7220	
2. UNIT(S) Common	3. DRAWING/PART NO. C-45(Q)	REV 6	4. ITEM DESCRIPTION Backfill Concrete
6. P.O. OR SPEC NO. H/A	7. SERIAL NO. H/A	8. REPLACEMENT PART P/N H/A REV H/A	9. SOURCE Subcontracted Moretrench American Corp.
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO	
16. NONCONFORMING CONDITION: Spec. C-231, Rev. 21, section 13.2.4.c, states in part "... backfill concrete shall be cured as described in Article 14.0 and protected from freezing for a minimum of 2 days..." Contrary to this, the placements described on the attached sketches were not adequately protected from freezing for a minimum of 2 days. (11 TOTAL)		13. SKETCH ATTACHED (X) YES () NO	
17. REPORTED BY Randy Hueron		18. VALIDATED BY C. Smith	
21. ROUTING (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		25. DISPOSITION RESULTS	
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering			
23. PROJECT ENGINEERING DISPOSITION			
26. QC ACCEPTANCE			
QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	



FIR C-197-2

Backfill
Placed 2.8.82
FA-18"Ø X 5 FT.

LOCATED AT
E-93 S-4793

ENGINEERING
SERVICE
BUILDING

UNIT 1

SOLID
RADWASTE
BUILDING

REACTOR BLDG
UNIT 1

AUXILIARY
BUILDING

REACTOR
UNIT 1

TURBINE

BUILDING

ATTACHMENT
TO FIR
C-197-5

pg. 4 of 4 NCR # 3975

Backfill placed: 2.10.82

STA 9+01, LEFT OF FREEZE WALL E,
APPROXIMATE E. 400 LINE

HOLE #4
9' CE of E

HOLE #5
10' CE of E

AUGER METHOD OBSTRUCTION AT 15' DEPTH

AUGER METHOD OBSTRUCTION AT 5' DEPTH

AREA IV
400 LINE S 5185

17
14
11
10
9

0+6

JOHN HEFFERON



NONCONFORMANCE REPORT

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3976	20. PAGE 1 OF 2
2. UNIT(S) 1	3. DRAWING/PART NO. M616-4	REV 2/1	4. ITEM DESCRIPTION 1CBB-10 LINE	5. ITEM LOCATION 18' N OF E 20'E OF E	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE CONST.	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. N/A	12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO	13. SKETCH ATTACHED () YES () NO	14. Discovered During () Rec'g () Const () Test
15. Equip Furnished By () Client () Eng () FLD					
16. NONCONFORMING CONDITION: REQUIREMENT: SPEC M204 (S) PARA 5.2.1 STATES IN PART FIELD WELDS SHALL BE SHOWN ON INSTALLATION ISOMETRICS ALSO BQAM SEC 5140 REQUIRES THE USE OF A QUALITY CONTROL INSPECTION RECORD FOR CONTROL OF WELDING TO ASME SEC III PARTS. BANDARIES.					
17. REPORTED BY Randy Bensch DATE 2/10/82					
18. VALIDATED BY R. Smith DATE 2-12-82					
19. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE					
QC ENGINEER					
AUTHORIZED INSPECTOR					
DATE					
DATE					

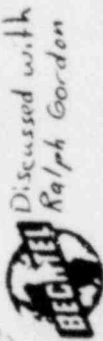


BLOCK 16 CONTINUED

PIPE, SYSTEM 1 CBB-10 (LOCATED BETWEEN FW 177 + 179), WITH NO FIELD
WELD NUMBERS DESIGNATED ON ISO. M616-4 FOR HANGER ATTACHMENTS AND
NO QUALITY CONTROL INSPECTION RECORDS INITIATED.

1 HOLD TAG APPLIED

Q-LIST # 4.164



NONCONFORMANCE REPORT START W/ CODE: 1 JEA

3977

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3977		20. PAGE 1 OF 3	
2. UNIT(S) 1		3. DRAWING/PART NO. FSK-M-113C-497-3		4. ITEM DESCRIPTION See Block # 16		5. ITEM LOCATION EL 631' 7 1/2" 5' South of well	
6. P.O. OR SPEC NO. NA		7. SERIAL NO. NA		8. REPLACEMENT PART P/N NA REV NA		9. SOURCE Construction	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		12. ASME AUTHOR. 'ED (X) YES () NO		13. SKETCH ATTACHED () YES (X) NO		14. Discovered During () Rec'g (X) Const () Test	
16. NONCONFORMING CONDITION: Requirement: Section 7130 of the BQAM requires that "Bechtel generated welding and NDE quality verification documentation and records are prepared and maintained in accordance with Project Quality Control instructions PQCI-7220 PW-100". PQCI PW-100 requires welds to be correctly identified. Condition: Socket welds 11 and 12 are located in two different places the first location is a coupling identified on the drawing as socket welds 1 and 2. These welds were installed as welds		17. REPORTED BY John Kramer		18. VALIDATED BY E. Smith		25. DISPOSITION RESULTS	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		DATE 2/11/82		DATE 2-12-82		24. DISPOSITION CONCURRENCE	
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering						25. DISPOSITION RESULTS	
23. PROJECT ENGINEERING DISPOSITION						26. QC ACCEPTANCE	
						QC ENGINEER	
						AUTHORIZED INSPECTOR	
						DATE	
						DATE	



NONCONFORMANCE REPORT (CONT'D)

20 PAGE 2 OF 2 19NCR NO 3977

(Block # 14 cont'd) 11 and 12 per Revision 1 of the drawing. The Line was redesigned on Revision 2 and new weld numbers 1 and 2 were assigned to these joints. Socket weld numbers 11 and 12 were reassigned approximately 50 feet upstream to a 90° Elbow and installed as socket weld numbers 11c1 and 12c1. There is no quality Verification documentation for socket welds 1 and 2. Original socket welds 11 and 12 located at the coupling are underground. "Q" List is 4,525. Hold tag applied to socket welds 11c1 and 12c1 on 90° elbow.



A-Sub

NONCONFORMANCE REPORT

SYSTM-OGDL

SUPV. ELSC. Robert Bone

1. PROJECT NAME		JOB NO.		19. NO. 3978		20. PAGE 1 OF 1	
2. UNIT(S)		3. DRAWING/PART NO.		4. ITEM DESCRIPTION		5. ITEM LOCATION EL-6346	
II		Midland		7220		Service water building	
6. P.O. OR SPEC NO.		7. SERIAL NO.		8. REPLACEMENT PART		9. SOURCE	
NA		NA		P/N NA REV NA		Const NA	
11. INSPECTION CRITERIA		IR NO. OEVO40 B		12. ASME AUTHORIZED INSPECTION REQ'D		13. SKETCH ATTACHED	
(X) DWG () SPEC () OTHER		NO. E-37		() YES (X) NO		() YES (X) NO	
16. NONCONFORMING CONDITION:		FPE-4000 Rev-5 paragraph 6.0, provides the requirements for installation of electrical cables. Contrary to the above, Scheme Cable NO. OEVO40 B, was damaged inside of Pull Box 2EJ679, between OB66 and OV90E.					
17. REPORTED BY		2. Hold Tags Applied		18. VALIDATED BY		DATE	
Dorothy Jettie		2-11-82		H. J. Jettie		2-12-82	
21. ROUTING:		TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering							
23. PROJECT ENGINEERING DISPOSITION							
26. QC ACCEPTANCE							
QC ENGINEER		DATE					
AUTHORIZED INSPECTOR		DATE					



CONTACTED BUCK RIEGELSENBERG

SOT RACK 16

NONCONFORMANCE REPORT

A-LAB

1. PROJECT NAME MIGRANT UNITS 1 + 2		JOB NO. 7220		19. NO. 3979	20. PAGE 1 OF 2
2. UNIT(S) 1 + 2	3. DRAWING/PART NO. MIG 52 SH 1	REV 6/F1	4. ITEM DESCRIPTION DIESEL GEN. EXHAUST PIPING	5. ITEM LOCATION DIESEL GEN. BLDG. Bays 1, 2, 3	
6. P.O. OR SPEC NO. M 1043	7. SERIAL NO. NA	8. REPLACEMENT PART P/N NA REV NA SER NO. NA	9. SOURCE CONF	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER	IR NO. NA	12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec (X) Const () Test	15. Equip Furnished By () Client (X) Eng () IFLD
16. NONCONFORMING CONDITION: REQUIREMENT; DWG MIG 52 SH 1 NOTE 19 DESIGNATES THE 24" AND 36" DIESEL PIPING AS BEING NON-ASME "Q". NOTE 16 REQUIRES MATERIAL-TEST REPORTS FOR ALL MATERIAL SUPPLIED ON THIS DRAWING. CONDITION: CONTRARY TO THE ABOVE, THE FOLLOWING LISTED SPOOLS HAVE BEEN INSTALLED AND THE REQUIRED MATERIAL TEST REPORTS ARE NOT AVAILABLE. BLOCKS CONTINUED ON PAGE 2					
17. REPORTED BY M.H. Du	DATE 2/11/82	18. VALIDATED BY [Signature]	DATE 2-12-82		
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE					
QC ENGINEER				DATE	
AUTHORIZED INSPECTOR				DATE	



NONCONFORMANCE REPORT (CONT'D)

20 PAGE 2 OF 2 19NCR NO 3979

Block No (Cont.)

Item #	Spec Number	LINE #	SLIP #
1	1 HBD-488-S-652-1-1	24" 1HBD-488	1 FEB
2	1 HBD-488-S-652-1-2	" " "	
3	1 HBD-489-S-652-1-1	24" 1HBD-489	
4	1 HBD-489-S-652-1-2	" " "	
5	1 HBD-485-S-652-1-1	24" 1HBD-485	1 PEA
6	1 HBD-485-S-652-1-2	" " "	
7	1 HBD-486-S-652-1-1	24" 1HBD-486	
8	1 HBD-486-S-652-1-2	" " "	
9	2 HBD-499-S-652-1-1	24" 2HBD-524	2 PEA
10	2 HBD-499-S-652-1-2	" " "	
11	2 HBD-500-S-652-1-1	24" 2HBD-523	
12	2 HBD-500-S-652-1-2	" " "	
13	2 HBD-488-S-652-1-1	24" 2HBD-488	2 PEA
14	2 HBD-488-S-652-1-2	" " "	
15	2 HBD-489-S-652-1-1	24" 2HBD-489	
16	2 HBD-489-S-652-1-2	" " "	
17	2 HBD-490-S-652-1-1	36" 2HBD-490	
18	2 HBD-481-S-652-1-1	36" 2HBD-487	2 PEA
19	1 HBD-487-S-652-1-1	36" 1HBD-487	1 PEA
20	1 HBD-490-S-652-1-1	36" 1HBD-490	1 PEA

Q: LIST 4.525

12 HED Taps



IR Bachlos

Discussed with Ralph Gordon

NONCONFORMANCE REPORT

S/U # 11EA

A-Ref

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 3980		20. PAGE 1 OF 1	
2. UNIT(S) 1	3. DRAWING/PART NO. FSK-M-11HBC-418-3	REV 3	4. ITEM DESCRIPTION SEE BLOCK 16				5. ITEM LOCATION DG BLDG BAY #1
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A	REV N/A	SER NO. N/A	9. SOURCE QC	10. CONTRACTOR/SUPPLIER N/A	11. INSPECTION CRITERIA () DWG () SPEC () OTHER IR NO. P-110-FSK-M-11HBC NO. 418-3-1A
12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO							
13. SKETCH ATTACHED () YES () NO							
14. Discovered During () Rec'd () Const () Test							
15. Equip Furnished By () Client () Eng () FLD							
16. NONCONFORMING CONDITION: Requirement: Specification M204, paragraph 4.1.3 requires that "Pipe... shall be marked with a heat number or heat cate. and shall retain this identification until... the identification has been recorded in the record isometric or other record document." Condition: The pipe between FW's 1 and 12 on FSK-M-11HBC-418-3A has no documented heat number thereby leaving the quality of the pipe indeterminate. One hold tag applied. Q-1st 4.525 Note: Pipe is coated & partially buried and inaccessible for REINSPECTION.							
17. REPORTED BY Charles Cross Jr		DATE 2/12/92		18. VALIDATED BY w5		DATE 2/13/92	
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING () TO OTHERS (SPECIFY)							
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering							
23. PROJECT ENGINEERING DISPOSITION							
26. QC ACCEPTANCE							
QC ENGINEER				DATE			
AUTHORIZED INSPECTOR				DATE			



NONCONFORMANCE REPORT

S/C # 1 EGA G-800

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3981	20. PAGE 1 OF 1	
2. UNIT(S) 1	3. DRAWING/PART NO. M 616-G	REV 1/F1	4. ITEM DESCRIPTION 3/4" HALF-coupling AT FN 177	5. ITEM LOCATION AUX EL 585' D & C-2		
6. P.O. OR SPEC NO. M 488	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER 0. N/A	9. SOURCE CONST	10. CONTRACTOR/SUPPLIER N/A		
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. NO. M 488	12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO	13. SKETCH ATTACHED () YES () NO	14. Discovered During () Rec'g () Const () Test	15. Equip Furnished By () Client () Eng () FLD
16. NONCONFORMING CONDITION: Requirement: Specification M 488 REV 8 shows the "F" dimension of a 3/4" 3000" half-coupling to be .824". The tolerance on the "F" dimension is ± 0.030 per DCN #4. Condition: The "F" dimension of the half-coupling installed at FN 177 is .879, which exceeds the stated tolerance. Item measured with micrometer # BPC-3186 cal exp date 5/10/82. Q-List # 4.164 ONE (1) HOLD TAG APPLIED.				24. DISPOSITION CONCURRENCE rework reject repair use as is PROJECT FIELD ENGINEER _____ DATE _____ PROJECT ENGINEER _____ DATE _____ PROJ CONSTR QC ENGINEER _____ DATE _____ AUTHORIZED INSPECTOR _____ DATE _____		
17. REPORTED BY Richard Kamm 2/14/82		18. VALIDATED BY [Signature] 2/15/82		25. DISPOSITION RESULTS		
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)						
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering						
23. PROJECT ENGINEERING DISPOSITION						
26. QC ACCEPTANCE QC ENGINEER _____ DATE _____ AUTHORIZED INSPECTOR _____ DATE _____						



Rick McBride

NONCONFORMANCE REPORT

S/U CODE INDETERMINANT

1. Project Name MIDLAND		Job No. 7220		19. No. 3982	20. Page 1 of 1								
2. Unit(s) INDETERMINATE	3. Drawing/Part No. N/A	Rev N/A	4. Item Description 3/8" 13/8" & 2 1/4" SA 36 ROD	5. Item Location STANDISH FABRICATION SHOP									
6. P.O. Or Spec No. F-55080	7. Serial No. N/A	8. Replacement Part P/N _____ REV N/A	9. Source SUPPLIER	10. Contractor/Supplier MILLS ALLOY STEEL COMPANY									
11. Inspection Criteria <input type="checkbox"/> DWG <input checked="" type="checkbox"/> SPEC <input type="checkbox"/> OTHER		IN NO. R-1-00-12470 NO. M-366 REV-3	12. ASME AUTHORIZED INSPECTION REQ'D <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	13. SKETCH ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	14. Discovered During <input checked="" type="checkbox"/> REC <input type="checkbox"/> CONST <input type="checkbox"/> TEST								
16. Nonconforming Condition: SPECIFICATION M-366 REV-3 PARA 3.3 STATES IN PART THAT THE IDENTIFICATION OF MATERIAL REQUIRING CERTIFIED MATERIAL TEST REPORTS SHALL MEET THE REQUIREMENTS OF SUB-PARA NA-3766.6 OF THE CODE. THE IDENTIFICATION OF THE MATERIAL SHALL BE APPLICABLE SPECIFICATION, GRADE OF MATERIAL, HEAT NUMBER OR HEAT CODE. CONTRARY TO THE ABOVE THE MATERIAL RECEIVED ON AED-12470 DOES NOT HAVE ANY MARKINGS ON THE MATERIAL FOR IDENTIFICATION & TRACEABILITY. 'Q' NUMBER IS INDETERMINANT. HOLD FOR ENGINEERING DISPOSITION. THREE(3) HOLD TAGS APPLIED.			15. Equip Furnished By <input type="checkbox"/> CLIENT <input type="checkbox"/> ENG <input checked="" type="checkbox"/> FLD										
21. Routing <input checked="" type="checkbox"/> TO FIELD ENGINEERING <input type="checkbox"/> TO OTHERS (SPECIFY) _____			24. Disposition Concurrence										
			<table border="1"><tr><td>REWORK</td><td>REJECT</td><td>REPAIR</td><td>USE AS IS</td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>			REWORK	REJECT	REPAIR	USE AS IS				
			REWORK	REJECT	REPAIR	USE AS IS							
PROJECT FIELD ENGINEER _____ DATE _____													
PROJECT ENGINEER _____ DATE _____													
22. <input type="checkbox"/> Field Engineering Disposition <input type="checkbox"/> FIELD ENGINEERING RECOMMENDED DISPOSITION TO PROJECT ENGINEERING			PROJECT CONSTR QC ENGINEER _____ DATE _____										
23. Project Engineering Disposition			AUTHORIZED INSPECTOR _____ DATE _____										
			25. Disposition Results										
26. QC Acceptance			QC ENGINEER _____ DATE _____										
			AUTHORIZED INSPECTOR _____ DATE _____										

PERSON NOTIFIED
BOB BANE

SU NO. 1EAD

NONCONFORMANCE REPORT

1. Project Name MIDLAND PROJECT UNIT I & II		Job No.		19. No. 3983		20. Page 1 of 1	
2. Unit(s) I	3. Drawing/Part No. N/A	4. Item Description CLASS IE CONTROL AND POWER CABLES	5. Item Location AUX. Bldg. AT IP2320	15. Equip. Furnished By <input type="checkbox"/> CLIENT <input checked="" type="checkbox"/> ENG <input type="checkbox"/> FLD			
6. P.O. Or Spec No. N/A	7. Serial No. N/A	8. Replacement Part P/N N/A REV N/A	9. Source CONSTRUCTION	10. Contractor/Supplier N/A			
11. Inspection Criteria <input type="checkbox"/> DWG <input type="checkbox"/> SPEC <input checked="" type="checkbox"/> OTHER NO. FPE 4.000 REV. 5		12. ASME AUTHORIZED INSPECTION REQD. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		13. SKETCH ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		14. Discovered During	
16. Nonconforming Condition CONTRARY TO FPE 4.000 REV. 5 PARAGRAPH 6.7 THE SPECIFIED MINIMUM BEND RADIUS FOR CABLE NUMBER 1884408A HAS BEEN EXCEEDED. THIS REDUCES THE QUALITY OF THE CABLE. INDETERMINATE. THIS VIOLATION OCCURRED AT 1A1161 AUX. BLDG. ELV. 564. RADIUS MEASURED - 3.25" DURING THE PROCESS OF PULLING CABLE NUMBER 1884408A IT WAS PULLED WITH ONLY ONE OF THE THREE CONDUCTORS ATTACHED TO A HAND WHICH LEAVING THE TENSION ON THE CABLE INDETERMINATE. CABLE COULD NOT BE HAND PULLED THROUGH THE 2 INCH CONDUIT NUMBER 1884408A WHICH HAS 2-90'S AND 4-OFFSETS. (1-131) 3003 (2) TWO HOLD TAGS APPLIED HOLD FOR ENG. DISPOSITION							
17. Reported By Robert Savoni		Date 7-15-82		18. Validated By DSR. [Signature]		Date 7/15/82	
21. Routing <input checked="" type="checkbox"/> TO FIELD ENGINEERING <input type="checkbox"/> TO OTHERS (SPECIFY)		22. <input type="checkbox"/> Field Engineering Disposition <input type="checkbox"/> FIELD ENGINEERING RECOMMENDED DISPOSITION TO PROJECT ENGINEERING					
23. Project Engineering Disposition							
25. Disposition Results							
26. QC Acceptance							
QC ENGINEER				DATE			
AUTHORIZED INSPECTOR				DATE			



NONCONFORMANCE REPORT

1. PROJECT NAME MIDLAND PROJECT UNIT I & II		JOB NO. 07220		19. NO. 3984	20. PAGE 1 OF 1
2. UNIT(S) I	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION CLASS IE CONTROL AND POWER CABLES	5. ITEM LOCATION ELV. 584 AUX BLDG. AT 1P232B	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE CONSTRUCTION	10. CONTRACTOR/SUPPLIER N/A
11. INSPECTION CRITERIA () DWG () SPEC <input checked="" type="checkbox"/> OTHER		IR NO. NO. FPE 4.000 REV. 5	12. ASME AUTHORIZED INSPECTION REQ'D () YES <input checked="" type="checkbox"/> NO	13. SKETCH ATTACHED () YES <input checked="" type="checkbox"/> NO	14. Discovered During () Rec'y <input checked="" type="checkbox"/> Const () Test
15. Equip Furnished By () Client <input checked="" type="checkbox"/> Eng () FLD				15. Equip Furnished By () Client <input checked="" type="checkbox"/> Eng () FLD	
16. NONCONFORMING CONDITION: CONTRARY TO FPE 4.000 REV. 5 PARAGRAPH 6.7 THE SPECIFIED MINIMUM BEND RADIUS FOR SCHEME CABLE NUMBER 1AB-4308A HAS BEEN EXCEEDED. THIS RENDERS THE QUALITY OF THE CABLE INDETERMINATE. THIS VIOLATION OCCURRED AT C FITTING 1BC108 AUX BLDG. ELV. 584. RADIUS MEASURED - 3.25" (2-List - 3.003 (2) TWO HOLD TAGS APPLIED. HOLD FOR ENR. DISPOSITION				24. DISPOSITION CONCURRENCE rework reject repair use as is	
17. REPORTED BY Robert A. Savoie				DATE 2-15-82	
18. VALIDATED BY D.S.P. [Signature]				DATE 2/15/82	
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE QC ENGINEER DATE AUTHORIZED INSPECTOR DATE					



S/U CODE: 1 BBB + 2 BBB

A-Sub

1. Project Name MIDLAND		Job No. 7220		S/U CODE: 1 BBA + 2 BAB	
2. Unit(s) 1 & 2	3. Drawing/Part No. N/A	Rev.	4. Item Description CONTROL VALVES. B&W TAG # RC-UZ-1,2+2RC-UZ-1,2 WASE # 2	19. No. 3985	20. Page 1 of 1
6. P.O. Or Spec No. MI-11	7. Serial No. N/A	8. Replacement Part P/N _____ REV _____	9. Source SUPPLIER	5. Item Location TARGET ROCK CORP.	
11. Inspection Criteria <input type="checkbox"/> DWG <input type="checkbox"/> SPEC <input checked="" type="checkbox"/> OTHER NO. QCIR-R2.10 REV D		12. ASME AUTHORIZED INSPECTION REQ'D <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	13. SKETCH ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	14. Discovered During <input checked="" type="checkbox"/> REC-G <input type="checkbox"/> CONST <input type="checkbox"/> TEST	15. Equip Furnished By <input checked="" type="checkbox"/> CLIENT <input type="checkbox"/> ENG <input type="checkbox"/> FLD
16. Nonconforming Condition: QCIR-R2.10 Rev. D Para: 3.1 states: "Review the B&W family verification documentation contained in the B&W Data Package for availability, legibility and traceability in accordance with requirements of the B&W Quality Requirements Matrix (QRM)." Contrary to the above no documentation except the code data reports has been received on the subject material. Q numbers are 9.0111 & 9.0211. Hold Engineering disposition. 7 Hold Tags applied.			24. Disposition Concurrence REWORK REJECT REPAIR USE AS IS PROJECT FIELD ENGINEER DATE PROJECT ENGINEER DATE PROJECT CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE		
17. Reported By [Signature] Date 2-11-82		18. Validated By [Signature] Date 15 Feb 1982		25. Disposition Results	
21. Routing <input checked="" type="checkbox"/> TO FIELD ENGINEERING		<input checked="" type="checkbox"/> TO OTHERS (SPECIFY) B&W SITE REPRESENTATIVE.			
22. <input type="checkbox"/> Field Engineering Disposition		<input type="checkbox"/> FIELD ENGINEERING RECOMMENDED DISPOSITION TO PROJECT ENGINEERING			
23. Project Engineering Disposition					
26. QC Acceptance QC ENGINEER DATE AUTHORIZED INSPECTOR DATE					



Person Contacted:
BETH HULSEY

NONCONFORMANCE REPORT

START UP Systems:
2ALA - 2BQ396K
2BGA - 2BIO11A

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 3986	20. PAGE 1 OF 2																				
2. UNIT(S) Two	3. DRAWING/PART NO. E-37	REV 52	4. ITEM DESCRIPTION Cables 2BQ396K & 2BIO11A	5. ITEM LOCATION Cont. Two EL593'-6"																					
6. P.O. OR SPEC NO. NA	7. SERIAL NO. NA	8. REPLACEMENT PART P/N NA REV NA SER NO. NA		9. SOURCE Construction	10. CONTRACTOR/SUPPLIER NA																				
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. 2BQ396K NO. 2BIO11A	12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec'g (X) Const () Test	15. Equip. Furnished By () Client (X) Eng () FLD																			
16. NONCONFORMING CONDITION: <u>Requirements: FPE 4,000 6.5.1 REV 5. When</u> Coiling electrical cable, care must be taken to provide proper support and to ensure the coiled configuration does not exceed the minimum bend radius. <u>Condition: Cable 2BQ396K was not supported properly during coiling of this cable and the minimum bend radius has been exceeded, causing possible damage to the cable. Cable is coiled at 286084. (see Cont SHT)</u>				24. DISPOSITION CONCURRENCE <table border="1"><thead><tr><th>rework</th><th>reject</th><th>repair</th><th>use as is</th></tr></thead><tbody><tr><td colspan="4">PROJECT FIELD ENGINEER DATE</td></tr><tr><td colspan="4">PROJECT ENGINEER DATE</td></tr><tr><td colspan="4">PROJ CONSTR QC ENGINEER DATE</td></tr><tr><td colspan="4">AUTHORIZED INSPECTOR DATE</td></tr></tbody></table>		rework	reject	repair	use as is	PROJECT FIELD ENGINEER DATE				PROJECT ENGINEER DATE				PROJ CONSTR QC ENGINEER DATE				AUTHORIZED INSPECTOR DATE			
rework	reject	repair	use as is																						
PROJECT FIELD ENGINEER DATE																									
PROJECT ENGINEER DATE																									
PROJ CONSTR QC ENGINEER DATE																									
AUTHORIZED INSPECTOR DATE																									
17. REPORTED BY Dennis Dece 2-14-82		18. VALIDATED BY Dennis Dece 2/16/82		25. DISPOSITION RESULTS																					
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)																									
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering																									
23. PROJECT ENGINEERING DISPOSITION																									
26. QC ACCEPTANCE <table border="1"><thead><tr><th>QC ENGINEER</th><th>DATE</th></tr></thead><tbody><tr><td>AUTHORIZED INSPECTOR</td><td>DATE</td></tr></tbody></table>						QC ENGINEER	DATE	AUTHORIZED INSPECTOR	DATE																
QC ENGINEER	DATE																								
AUTHORIZED INSPECTOR	DATE																								

BLOCK 110 (CONTINUED)

CABLE 281011 A WAS NOT SUPPORTED PROPERLY DURING COILING OF THIS CABLE AND THE MINIMUM BAND RADIUS HAS BEEN EXCEEDED, CAUSING DAMAGE TO THE OUTER JACKET OF THE CABLE. CABLE IS COILED AT 28660.

HOLD FOR ENGINEERING DISPOSITION

Q LIST 3007

2 HOLD TAGS APPLIED FOR EACH CABLE, ONE ON EACH END.

Person Contacted:
BETH HULSEY



Start up System?
SEE BLOCK 10

Q-Sub

NONCONFORMANCE REPORT

1. PROJECT NAME A.0.0.0.0.0		JOB NO. 220		19. NO. 3987		20. PAGE 2 OF 2	
2. UNIT(S) Two		3. DRAWING/PART NO. E37		4. ITEM DESCRIPTION 52 CABLES (See block 10)		5. ITEM LOCATION AUX Bldg, EL 614	
6. P.O. OR SPEC NO. NA		7. SERIAL NO. NA		8. REPLACEMENT PART P/N NA REV NA SER NO. NA		9. SOURCE Construction	
11. INSPECTION CRITERIA DWG () SPEC () OTHER ()		IR NO. NA		12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO		10. CONTRACTOR/SUPPLIER NA	
13. SKETCH ATTACHED () YES () NO							
14. Discovered During () Rec'g () Const () Test							
15. Equip Furnished By () Client () FLD							
16. NONCONFORMING CONDITION: Requirements: E42A REV 54 (SHA PAR. 18) Cables may be run unsupported Airlined for a maximum distance of 3 feet upon leaving the physical confines of scheduled Rackway. Condition: The following cables 2B32429A, 2B32429B, 2B32426E, 2B35606B & 2B35612B, HAVE exceeded the maximum 3 feet unsupported Airlined distance between 2BKA07 AND 2BKA007.							
17. REPORTED BY Dennis D. De		DATE 2-14-92		18. VALIDATED BY D.S.R. Wyl Paul		DATE 2/16/92	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)							
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering							
23. PROJECT ENGINEERING DISPOSITION							
26. QC ACCEPTANCE							
QC ENGINEER							
AUTHORIZED INSPECTOR							
DATE							
DATE							



Block 16 (continued)

The following cables 28B5626B, 28B5633A, & 28B5633B, have exceeded the maximum 3 feet unsupported Airlined distance between 28KA07 and 28KA017.

CABLE - START UP System

28B5626A	28KA
28B5626B	28KA
28B5626E	28CA
28B5606B	28GE
28B5612B	28GE
28B5633A	01EA
28B5633B	04EA
28B5626B	2ALA

Hold For Engineering Disposition

Q LIST 3.104

2 EA Hold Tags Applied 1 For Each Conduit AT 28KA007 & 28KA017.



Discussed with Zinoviy Simonovskiy NONCONFORMANCE REPORT

S/U # 2ABA

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 3988		20. PAGE 1 OF 1	
2. UNIT(S) 2		3. DRAWING/PART NO. MG32 sh1		4. ITEM DESCRIPTION See block 16		5. ITEM LOCATION REACTOR BLDG UNIT 2	
6. P.O. OR SPEC NO. N/A		7. SERIAL NO. N/A		8. REPLACEMENT P/N N/A		9. SOURCE CONSTRUCTION	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. P-110-MG32-16 NO. M204		12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO		13. SKETCH ATTACHED () YES () NO	
16. NONCONFORMING CONDITION: Requirement: M204 paragraph 4.1.2 states "Certification of materials by the manufacturer shall be furnished in accordance with the Nuclear Power Plant Components Code, Paragraph NB-2130." Condition: The material used as welded attachments for hanger 26"-2ELB-10-H33 at FWB 50,59 60,61 on MG32 sh1 has heat code DF. This material is traceable to Ryerson & Son which is not an ASME approved vendor, thereby rendering the acceptability of the material indeterminate. One hold tag applied. O-list 4.322.		14. Discovers During () Rec'g () Const () Test		15. Equip Fulfilled By () Client () Eng () FLD		24. DISPOSITION CONCURRENCE	
17. REPORTED BY Charles Cross Jr. 2/16/82		DATE 2/16/82		18. VALIDATED BY WJ Paul 2/16/82		DATE 2/16/82	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		PROJECT ELD ENGINEER		PROJECT ENGINEER		DATE	
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering		PROJECT QC ENGINEER		PROJECT ENGINEER		DATE	
23. PROJECT ENGINEERING DISPOSITION		PROJECT AUTHORIZED INSPECTOR		PROJECT ENGINEER		DATE	
26. QC ACCEPTANCE		QC ENGINEER		AUTHORIZED INSPECTOR		DATE	



NONCONFORMANCE REPORT

S/A New-Testable

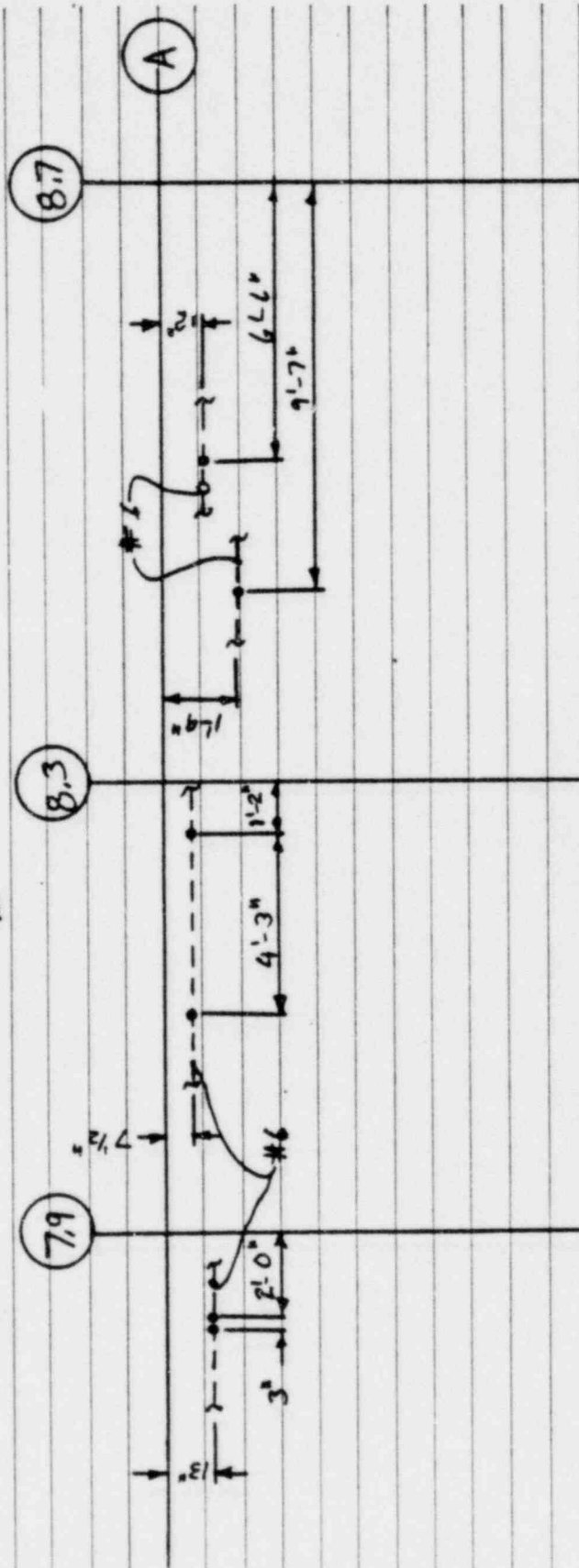
1. PROJECT NAME MIDLAND		JOB NO. 7720		19. NO. 3989		20. PAGE 1 OF 2	
2. UNIT(S) COMMON		3. DRAWING/PART NO. N/A		4. ITEM DESCRIPTION CUT REBAR		5. ITEM LOCATION AUX BUDG RM 604 SLAB A & B, 3	
6. P.O. OR SPEC NO. C-306 REV. 8		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N N/A		10. CONTRACTOR/SUPPLIER NA	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. NO. C-306 REV. 1.8		12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO		13. SKETCH ATTACHED (X) YES () NO	
14. DISCOVERED DURING () Rec'g (X) Const () Test		15. EQUIP FURNISHED BY () Client () Eng (X) FLD		24. DISPOSITION CONCURRENCE		25. DISPOSITION RESULTS	
16. NONCONFORMING CONDITION: C-306, APPENDIX D, SECT 2.2, STATES IN PART, "TWO BARS MAY BE CUT EACH WAY, EACH FACE, PROVIDED THE MINIMUM RADIAL DISTANCE TO THE NEXT CUT BAR ON THE SAME FACE, IN THE SAME DIRECTION, IS AT LEAST TEN (10) FEET." CONTRARY TO THIS, EXCESSIVE EAST/WEST REBAR WERE CUT. Q-LIST #1, 203		17. REPORTED BY SEP William Charles		18. VALIDATED BY MPC		DATE 2-10-82	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering		PROJECT FIELD ENGINEER		DATE	
23. PROJECT ENGINEERING DISPOSITION				PROJECT ENGINEER		DATE	
				PROJ CONSTR QC ENGINEER		DATE	
				AUTHORIZED INSPECTOR		DATE	
				26. OC ACCEPTANCE		DATE	
				OC ENGINEER		DATE	
				AUTHORIZED INSPECTOR		DATE	

REF - FSK-CA - 123 & 112A 2, 2
 HNGR. - 665-1-12
 DDBL-002-H9

SLAB @ 659'

RM 608 - AUX BIDG

$\frac{1}{4} \times \frac{3}{8} = 1'-0"$
 $\frac{10}{215} \times 2$



Discussed with Bill Swanson



IN Back Log

NONCONFORMANCE REPORT START UP CODE: LEGA

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3990	20. PAGE 1 OF 1
2. UNIT(S) 1	3. DRAWING/PART NO. Melle SA 2	REV 6/1	4. ITEM DESCRIPTION See block # 16	5. ITEM LOCATION 2611' 9"	
6. P.O. OR SPEC NO. NA	7. SERIAL NO. NA	8. REPLACEMENT PART P/N NA REV NA	9. SOURCE Construction	10. CONTRACTOR/SUPPLIER NA	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER IR NO. P10-616-2-1 NO M204		12. ASME AUTHORIZED INSPECTION REC'D (X) YES () NO		14. Discovered During () Rec'd (X) Const () Test	
15. Equip Furnished By () Client () Eng (X) FLD					
16. NONCONFORMING CONDITION: Requirement: Specification M204 paragraph 4.1.2 requires the Certification of materials by the manufacturer to be furnished in accordance with the Nuclear Power Plant Components Code paragraph NB2130. Condition: The 2 1/2" pipe installed between field welds 119 and 147 and field welds 141 and 142 on Line 1CBB-6 on Drawing Melle SA 2 is marked with heat number 250510. This heat number is not traceable to manufacturers Certifications. Fix is 2/16/82 2 steel tags applied					
17. REPORTED BY John Kianor		DATE 2/16/82		18. VALUATED BY WB	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFIC)		DATE 2/16/82			
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
24. DISPOSITION CONCURRENCE					
REWORK		REJECT		USE AS IS	
PROJECT FIELD ENGINEER		PROJECT ENGINEER		DATE	
PROJECT ENGINEER		PROJECT ENGINEER		DATE	
PROJ CONSTR QC ENGINEER		PROJ CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		AUTHORIZED INSPECTOR		DATE	
25. DISPOSITION RESULTS					
26. GC ACCEPTANCE					
GC ENGINEER		GC ENGINEER		DATE	
AUTHORIZED INSPECTOR		AUTHORIZED INSPECTOR		DATE	



DISCUSSED WITH
TEX RITTER
BILL SWANSON

QCIR BACKLOG

filed

NONCONFORMANCE REPORT

START UP #1 EGA

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. 3991		20. PAGE 1 OF 1	
2. UNIT(S) 1	3. DRAWING/PART NO. M616-B	REV 1/6/82	4. ITEM DESCRIPTION PAP SECTION OF FW-20+21 ON SLOPE INDC-135-5616-B-3			5. ITEM LOCATION Aux 584 19.5' x 8' 20' W of 8.2	
6. F.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A	9. SOURCE Const/QC	10. CONTRACTOR/SUPPLIER N/A			
11. INSPECTION CRITERIA () DWG () SPEC () OTHER IR NO. P110-6168-2A NO. M204 (S)		12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO		13. SKETCH ATTACHED () YES () NO		14. Discovers During () Rec'd () Const () Test	
15. Equip Furnished By () Client () Eng () FLD							
16. NONCONFORMING CONDITION: <u>REQUIREMENT: SPEC M204 REV 15 PARAGRAPH</u> <u>6.5.1 STATES IN PART THAT PRIOR TO INSTALLATION ALL PIPING SHALL</u> <u>BE VISUALLY CHECKED FOR CLEANLINESS.</u> <u>CONDITION: CONTRARY TO SPEC FIELD WELDS #20</u> <u>#21 ISO M616-B HAD NO CLEANLINESS DOCUMENTED DURING INSTALLATION.</u> <u>THEFORE RENDERING THEM UNSUITABLE FOR SERVICE</u> <u>2 HOLD TAGS APPLIED</u> <u>Q-LIST # 4.164</u>							
17. REPORTED BY Randy Bensch		DATE 2/16/82		18. VALIDATED BY WS		DATE 2/16/82	
21. ROUTING: TO FIELD ENGINEERING () TO OTHERS (SPECIFY)							
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering							
23. PROJECT ENGINEERING DISPOSITION							
26. QC ACCEPTANCE							
QC ENGINEER				DATE			
AUTHORIZED INSPECTOR				DATE			



NONCONFORMANCE REPORT

S/A 16AD

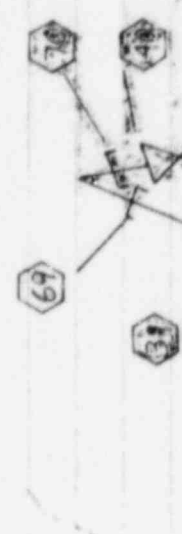
A-Lab

1. PROJECT NAME MILLAND		JOB NO. 7220		19. NO. 3992	20. P. 6E 1 OF 2
2. UNIT(S) 1F2	3. DRAWING/PART NO. FSK-DU-M-512-8	REV 7	4. ITEM DESCRIPTION See Block #16	5. ITEM LOCATION FL 652' 2' 34" 2' 34"	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE CONST	10. CONTRACTOR SUPPLIER N/A
11. INSPECT/ON CRITERIA () DWG (X) SPEC () OTHER IR NO. NO M204 Rev 15		12. ASME AUTHORIZED INSPECTION REQ'D (X) YES () NO		13. SKETCH ATTACHED (X) YES () NO	14. Discovered During () Rec'd (X) Const () Inst
16. NONCONFORMING CONDITION: <p>Requirement: M-204.5.2.1 states in part; Bechtel Isometrics (installation isometrics) are the governing drawing for final spread configuration and installation. Condition: Contrary to M204, Const #12 (Venture) foundation line HOC-305 is not installed as shown on Isometrics Drawing FSK-DU-M-512-8 Rev 9. Also F.W.#51 was installed as a socket weld, but is shown as a Seal weld. For details see attached sketch.</p> <p>(Cond' on Page #2)</p>					
17. REPORTED BY D. Fisher		DATE 2/16/82		18. VALIDATED BY WJL	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		DATE 2/16/82			
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING'S DISPOSITION					
24. DISPOSITION RESULTS					
25. DISPOSITION RESULTS					
26. QC ACCEPTANCE					
27. QC ENGINEER					
28. AUTHORIZED DISPOSITION					



Cond + Ticks #16
Sketch

Q LIST NO. 4.192 310LD TAGS



P-4930
REDLINE
PER REV 6/83
ON FSE

EXISTING
INSTALLED
PER REV.



40

39

42

310d

52

51

cap

plug

INST
WELD

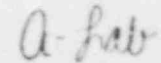


Resource Contract
G. QUAYE

NONCONFORMANCE REPORT

SU-CEAA

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3993	20. PAGE 1 OF 1
2. UNIT(S) 2	3. DRAWING/PART NO. E-599 SH 1C	REV 3	4. ITEM DESCRIPTION ROUTING OF CABLES OBB 6804L & OBB 6804M	5. ITEM LOCATION WATER Bldg, 65460	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART PIN 222 REV	SER NO. CONSTRUCTION	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA X DWG () SPEC () OTHER		IR NO. NOE37 REV 52	12. ASME AUTHORIZED INSPECTION REQ'D () YES X NO	14. Discarded During () Rec'd X Const () Test	15. Equip. Furnished By () Client () Eng X FLD
16. NONCONFORMING CONDITION REQUIREMENT: Dwg 7220-E-37 Rev 52 Lists THE Vias For OBB 6804L AND OBB 6804M INCLUDING 2 BSL 972. CONDITION: BOTH LISTED CABLES ARE ROUTED THROUGH 1 BSL 972. CABLE ENDS - Q LIST & 3, 003, 3007. HOLD FOR ENGINEERING DISPOSITION.					
17. REPORTED BY G. Miller		DATE 2-14-82		18. VALIDATED BY JSP [Signature] Paul	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. () Field Engineering Recommended Disposition to Project Engineering			
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE					
QC ENGINEER					
AUTHORIZED INSPECTOR					
DATE					



1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3994		20. PAGE 1 OF 3	
2. UNIT(S) 1 & 2		3. DRAWING/PART NO. E37, Rev 52, E-900, Rev 56		4. ITEM DESCRIPTION CABLE TERMINATIONS		5. ITEM LOCATION SEE BLDG 16	
6. P.O. OR SPEC NO. N/A		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE CONST	
10. CONTRACTOR/SUPPLIER N/A		11. INSPECTION CRITERIA <input checked="" type="checkbox"/> DWG <input type="checkbox"/> SPEC <input type="checkbox"/> OTHER		12. ASME AUTHORIZED INSPECTION REQ'D <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		13. SKETCH ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
14. Discovered During <input type="checkbox"/> Rec'g <input checked="" type="checkbox"/> Const <input type="checkbox"/> Test		15. Equip. Furnished By <input type="checkbox"/> Client <input checked="" type="checkbox"/> Eng <input type="checkbox"/> FLD		16. NONCONFORMING CONDITION: I) SYS. OGD, AUX. BLD., EL. 659', CONTR. ROOM, EQ. OCIO IR IBB6401 L-2a REQUIREMENTS: PER E-900, REV. 56 CABLE IBB6401 L-2 MUST BE INSTALLED INSIDE EQUIPMENT OCIO (SEE CONT. PAGE)		24. DISPOSITION CONCURRENCE	
25. DISPOSITION RESULTS		26. QC ACCEPTANCE		27. QC ENGINEER		28. AUTHORIZED INSPECTOR	
29. PROJECT ENGINEERING DISPOSITION		30. PROJECT ENGINEER		31. AUTHORIZED INSPECTOR		32. DATE	

(BLOCK 16. CONT. FROM PAGE 1)

EXISTING CONDITIONS: CABLE IBB6401L-2 IS NOT INSTALLED
INSIDE EQUIPMENT DC10

II) SYS. OGDJ, AUX. BLD., EL. 659', CONTR. ROOM, ER. DC10

IR 2BB6401 L-2

REQUIREMENTS: CONFORM BETWEEN E-37 AND E-900

EXISTING CONDITIONS: E-37, REV. 52; DR 53A

E-900, REV. 56; DR 10

III) SYS. OGDJ, AUX. BLD., EL. 659', CONTR. ROOM, ER. DC47

IR 2BB6401 C-1

REQUIREMENTS: PER E-900, REV. 56

CABLE 2BB6401 C-1 MUST BE INSTALLED

INSIDE EQUIPMENT DC47

EXISTING CONDITIONS: CABLE 2BB6401 C-1 IS NOT

INSTALLED INSIDE EQUIPMENT DC47

IV) NONE SYSTEM, AUX. BLD., EL. 659', CONTR. ROOM, ER. DC47

IR 2A1048 C-2

REQUIREMENTS: CONFORM BETWEEN E-37 AND E-900

EXISTING CONDITIONS: E-37, REV. 52; DR 53A

E-900, REV. 56; DR 10

V) NONE SYSTEM, AUX. BLD., EL. 614', CONTR. ROOM, ER. DC10

IR 2B1061 J-2

REQUIREMENTS: E-37 MUST HAVE INSIDE EQUIPMENT DC10

WIRE NUMBER 1000



(BLOCK 16 CONT FROM PAGE 2.)

EXISTING CONDITIONS: E-37, REV. 52 DOES NOT HAVE
INFORMATION ABOUT WIRE
NUMBERS AND COLORS FOR
CABLE 2BI 061J-2

THE FOLLOWING IPINS WERE UPGRADED TO AN NCR 387 001 22 2 03/1984
HOLD FOR ENGINEERING DISPOSITION

R-LIST # 3 003

5 HOLD TAGS APPLIED

Boris Fayman 2 16 82



PERSON CONTACTED: GENE QUAYLE

NONCONFORMANCE REPORT

START UP SYSTEM:
(SEE BLOCK 16)

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3995	20. PAGE 1 OF 2
2. UNIT(S) BOTH	3. DRAWING/PART NO. E-37	REV 52	4. ITEM DESCRIPTION CABLE TERMINATION	5. ITEM LOCATION AUX. BLD.	
6. P.O. OR SPEC NO. E 26	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N REV SER NO.		9. SOURCE CONSTR.	10. CONTRACTOR/SUPPLIER N/A
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. 26Q189A-2 NO. 32E BLOCK 16	12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec'g (X) Const () Test
15. Equip. Furnished By () Client (X) Eng () FLD				16. NONCONFORMING CONDITION:	
EXISTING CONDITIONS:				24. DISPOSITION CONCURRENCE	
THE FOLLOWING B21 CODED CABLES WERE FOUND TO HAVE DEFECTIVE CONDUCTOR INSULATION (SEE CONTIN SH.)				rework reject repair use as is	
17. REPORTED BY Viktor Shell				DATE 2.15.82	
18. VALIDATED BY D.E.P. [Signature]				DATE 2/17/82	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
25. QC ACCEPTANCE					
QC ENGINEER DATE					
AUTHORIZED INSPECTOR DATE					



NONCONFORMANCE REPORT (CONT'D)

20 PAGE 2 OF 2

19 NCR NO 3995

BLOCK 16 (CONTINUED)

<u>CABLE SCHEME NO</u>	<u>START up SYSTEM</u>	<u>REEL NO</u>
1BB2432 G	1BGC	E26-00000714
2BA0602 V	2PEB	↓
2BQ410D	2BBA	
2BQ189A	2SBA	
2BQ192D	2SBA	
1AA0501 F	1PBA	E26-0007A746
2AQ192 D	2SBA	↓

THE CABLES HAVE SOME OF THE INSULATION STRIPPED OFF ALONG THE CONDUCTORS. STRIPPED INSULATION IS A RESULT OF THE SEPARATING OF THE TWO CONDUCTORS AT THE TIME WHEN THE CABLE WAS PREPARED FOR TERMINATION. BOTH OF THE CONDUCTORS ARE STUCK TOGETHER BECAUSE THEY ADHERED TO EACH OTHER DURING THE PROCESS OF MANUFACTURING.

HOLD FOR ENGINEERING DISPOSITION.

Q-LIST # 3.007

NO HOLD TAGS APPLIED AT EQUIPMENT.

Viktor Shell 2.15.82



5/4 # - See Block 16

0-20

NONCONFORMANCE REPORT

1. PROJECT NAME MIDLAND UNITS 1 & 2		JOB NO. 7220		19. NO. 3926	20. PAGE 1 OF 1
2. UNIT(S) 1 & 2	3. DRAWING/PART NO. N/A	REV	4. ITEM DESCRIPTION CABLES PULLED THROUGH UNSPECIFIED VIAS	5. ITEM LOCATION VARIOUS	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N	9. SOURCE Construction	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. N/A	12. ASME AUTHORIZED INSPECTION REC'D () YES (X) NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec'g (X) Const () Test
15. Equip Furnished By () Client (X) Eng () FLD					
16. NONCONFORMING CONDITION: OVER-INSPECTION IN SUPPORT OF MPOAD, REVEALED THE FOLLOWING NON-CONFORMING ITEMS: SEE CONTINUATION SHEETS FOR LIST OF NONCONFORMANCES.					
17. REPORTED BY Dale S. Presley		DATE 2-17-82		18. VALIDATED BY D.S.P. [Signature]	
21. ROUTING: (X) TO FIELD ENGINEERING		() TO OTHERS (SPECIFY)			
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE					
QC ENGINEER					
AUTHORIZED INSPECTOR					
DATE					



Block 16 (continued)

① Cable 2BB4405 B 267B

Requirements: Per E-37 Rev. 52, Vias BJMO1,
BJBO3

Contrary to the above, cable installed in vias BJMO1,
BJMO2, BJBO3

② Cable 2BB4406 B 267C

Requirements: Per E-37 Rev. 52, Vias BJMO1,
BJBO3

Contrary to the above, cable installed in vias BJMO1,
BJMO2, BJBO3

③ Cable 2BB4402 B 267B

Requirements: Per E-37 Rev. 52, Vias BJMO1, BJBO3

Contrary to the above, cable installed in vias BJMO1
BJMO2, BJBO3

④ Cable 2BB4409 B 267E

Requirements: Per E-37 Rev. 52, Vias BSL952, BJKO1, BJA04,
BJMO1, BJBO3

Contrary to the above, cable installed in vias BSL953, BJKO1,
BJA04, BJMO1, BJMO2, BJBO3



Block 16 (continued)

⑤ Cable IAB5514 B IBNA

Requirements: Per E-37 Rev. 52, Vias AJA05,
AJC01 ... AZ077 ...

Contrary to the above, cable installed in vias AJA05,
AJA06, AJC01 AZ076

⑥ Cable IAB5514 A IBNA

Requirements: Per E-37 Rev. 52 Vias AJL05, AJC01

Contrary to the above, cable installed in vias AJL05,
AJL06, AJC01

⑦ Cable ZBB4401 B 2650

① Requirements: Per E-37 Rev. 52 Vias BJM01, BJB03

Contrary to the above, cable installed in vias BJM01,
BJM02, BJB03

② Requirements: Per E-37 Rev. 52 Vias BSL951

Contrary to the above, cable installed in vias BSL952

⑧ Cable IAB1704 B IBKA

Requirements: Per E-37 Rev. 52 Vias AKC07, AKC041

Contrary to the above, cable installed in vias AKC07, AKC08, AKC041



Block 16 (Continued)

(9) Cable IAB1704 A 1BKA

Requirements: Per E-37 Rev 52, Vias AKC07, AKC040
Contrary to the above, cable installed in vias AKC07, AKC08,
AKC040

(10) Cable IAB2327 A 1EAC

Requirements: Per E-37 Rev 52, Vias ASL396, AJM05, AKA05
Contrary to the above, cable installed in vias ASL396, AJM03, AKA05

(11) Cable 2BB4401 E 2G5B

Requirements: Per E-37 Rev 52, Vias BJF01, BKA04,
Contrary to the above, cable installed in vias BJF01, BKA03, BKA04,

(12) Cable IAFW082 E 1ALA

Requirements: Per E37 Rev 52, Vias - - - - - AJB018, AJB14
Contrary to above, cable installed in vias - - - - - AJB018, AJT14, AJB14 - -

(13) Cable IAFW021 B 1ALA

Requirements: Per E-37 Rev 52, Vias AJB018, AJB14
Contrary to the above, cable installed in vias AJB018, AJT14, AJB14

(14) Cable IBBS638 A 1ABA

Requirements: Per E-37 Rev 52, Vias BSL927, BSH06, BKA04
Contrary to the above, cable installed in vias BSL927, BKA04



Block 16 (continued)

- (15) Cable 1BB2444 Q 1BGC
Requirements: Per E-37 Rev. 52, Vias BSL430, BKA06
Contrary to the above, cable installed in vias BSL430, BJH11, BKA06
- (16) Cable 1BB5605 B 1ECB
Requirements: Per E-37 Rev. 52, Vias BSL921, BJH01, BKA06
Contrary to the above, cable installed in vias BSL921, BKA06
- (17) Cable 2BB5626 A 2ALA
Requirements: Per E-37 Rev. 52, Vias BSL926, BKFO3, BKA03, BKA04
BKA05, BKA06
Contrary to the above, cable installed in vias BSL930, BKFO1, BTB06,
BTB06, BKA06
- (18) Cable 1BB5626 A 1ALA
Requirements: Per E-37 Rev. 52, Vias BSL926, BJH04, BKA05
Contrary to the above, cable installed in vias BSL926, BKA05
- (19) Cable 1BB5626 B 1ALA
Requirements: Per E-37 Rev. 52, Vias BSL926, BJH04, BKA05
Contrary to the above, cable installed in vias BSL926, BKA05
- (20) Cable 1BB5605 A 1ECB
Requirements: Per E-37 Rev. 52, Vias BSL921, BJH01, BKA06
Contrary to the above, cable installed in vias BSL921, BKA06



Block 16 (continued)

- (21) Cable IAB5526 A 1ALA
Requirements: Per E-37 Rev. 52, ViasAKA05, AJC01
Contrary to the Above, cable installed in viasAKA05, AKA06, AJA06, AJC01
- (22) Cable IBB2441 B 1BGC
Requirements: Per E-37 Rev. 52, ViasBJA20, BJE01
Contrary to the Above, cable installed in viasBJA20, BJA21, BJE01
- (23) Cable IAB2341 B 1BGC
Requirements: Per E-37 Rev. 52, Vias ASL399, AJM01, AJA06, AJC01
Contrary to the Above, cable installed in vias ASL399, AJM01, AJC01
- (24) Cable IAB5512 B 1BGE
Requirements: Per E-37 Rev. 52, ViasAJA05, AJC01
Contrary to the Above, cable installed in viasAJA05, AJA06, AJC01
- (25) Cable 2AB5531 A 2PHK
Requirements: Per E-37 Rev. 52, Vias ... AJH02, AKA05 ... ASA03,
ASB01, ASL973
Contrary to the Above, cable installed in vias ... AJH02, AKA06, AKA05
ASA03, 1ASL968
- (26) Cable OAB6909 A OEAA
Requirements: Per E-37 Rev. 52, ViasASA02, ASA03, ASA04
Contrary to the Above, cable installed in vias ...ASA02, ASA04

Block 16 (continued)

(27) Cable QAB6909B OFAA

Requirements: Per E-37 Rev. 52, Vias ASAO2, ASAO3, ASAO4
Contrary to the above, cable installed in vias ASAO2, ASAO4

(28) Cable IBQ403 E 1SAB

Requirements: Per E-37 Rev. 52, Vias BSL170, BJA045, BJA01, BJA02,
BJA03, BJA04, BJM01, BJF03

Contrary to the above, cable installed in vias BSL170, BJA045, BJA01,
BTA02, BTA03, BTA04, BJF03

(29) Cable IBQ403 D 1SAB

Requirements: Per E-37 Rev. 52, Vias BSL169, BJA044, BJA02,
BJA03, BJA04, BJM01, BJF03

Contrary to the above, cable installed in vias BSL169, BJA044,
BTA02, BTA03, BTA-4, BJF03

58 hold tags applied

Q-list No.s 3.003

3.007



PERSON CONTACTED
STEVE POORTINGA

NONCONFORMANCE REPORT

Q-fab

S/U SYSTEM
2 RLP

1GTB 02AA
1BGC
1GSB

2/1/82

1. PROJECT NAME MIDLAND, UNITS 1 & 2		JOB NO. 7220		19. NO. 3997	20. PAGE 1 OF 2
2. UNIT(S) 2	3. DRAWING/PART NO. N/A	REV	4. ITEM DESCRIPTION CABLE ROUTED THRU NEW VIA W/O QC WITNESS	5. ITEM LOCATION EL 679, UPPER SPRING RM	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A	9. SOURCE CONSTRUCTION	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA () DWG () SPEC (X) OTHER		IR NO. 24Y1107A NO. FPE-4.000 REV 5	12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec'g (X) Const () Test
15. Equip Furnished By () Client (X) Eng () FLD		16. NONCONFORMING CONDITION: E REQUIREMENT: FPE-4.000 REV 5 PARA 6.1.1 STATES AS FOLLOWS: "WHEN CABLE IS PARTIALLY REMOVED (FOR RACEWAY REWORK OR ANY OTHER REASON), THE CRITERIA USED FOR INSTALLATION SHALL GOVERN THE REMOVAL (OR PULL BACK)" - ALSO REFERENCE PSP G1.1, PARA 3.2.3 AND PSP G6.1 PARA 3.1.1 OF QCNH. (SEE SHEET 2 CONTINUATION)			
17. REPORTED BY J. Shewell		DATE 2-16-82		18. VALIDATED BY M. Carl	
DATE 2/17/82		21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)			
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE					
QC ENGINEER		DATE			
AUTHORIZED INSPECTOR		DATE			



3 2.12.12

BLOCK 16 CONTINUATION:

① CONDITION: CABLE 2AY1107A WAS REMOVED FROM DELETED VIAS (AWW037) AND (AFD05), AND RE-ROUTED THROUGH VIA (AFK15) WITHOUT QCE PRESENT TO VERIFY VIA OR POSSIBLE DAMAGE.

Q-LIST # 3.007

HOLD FOR ENGINEERING DISPOSITION

HOLD TAGS APPLIED: TWO (2) (1 EACH END)

CONDITION:

② CABLE 1AB4302 M PULLED THROUGH SLOT ASL942 @ 1B43. PER E-37 REV.52 CORRECT SLOT IS ASL941. CABLE WAS INSTALLED WITHOUT QCE BEING PRESENT TO VERIFY SLOT OR POSSIBLE CABLE DAMAGE.

Q-LIST # 3.007

HOLD FOR ENG. DISPOSITION

HOLD TAGS APPLIED (2), (1 EACH END)

③ CONDITION:

CABLE 1AB2332 A WAS PULLED BACK THROUGH VIAS AJD05 AND AJD04 WITHOUT QCE PRESENT TO VERIFY POSSIBLE DAMAGE.

Q-LIST #3.007 HOLD FOR ENG. DISPOSITION.

HOLD TAGS APPLIED (2), (1 EACH END)

SEE SHEET 3 CONTINUATION



BLOCK 16 CONTINUATION:

(4) CONDITION:

CABLE 1AB4301 J PULLED THROUGH VIA ASL942 - SHOULD BE ASL941
PER E-37 REV 52. QCE NOT PRESENT TO VERIFY VIA OR POSSIBLE
CABLE DAMAGE

Q-LIST # 3.007 HOLD FOR ENG. DISPOSITION.
HOLD TAGS APPLIED (2), (1 EACH END)

(5) CONDITION:

CABLE 1AB4310 J WAS PULLED OUT OF VIA ASL943 AND PULLED
INTO VIA ASL942. PER E-37 REV 52 CORRECT SLOT IS ASL940.
QCE NOT PRESENT TO VERIFY CORRECT SLOT OR POSSIBLE
CABLE DAMAGE

Q-LIST # 3.007 HOLD FOR ENG. DISPOSITION
HOLD TAGS APPLIED (2), (1 EACH END)

(6) CONDITION:

CABLE 2AA0504 L WAS PULLED THROUGH VIA AFK15 WITHOUT QCE
BEING PRESENT TO VERIFY VIA OR POSSIBLE CABLE DAMAGE.

Q-LIST # 3.007 HOLD FOR ENG. DISPOSITION
HOLD TAGS APPLIED (2) (1 EACH END)

(7) CONDITION:

CABLE 2AA0503 M WAS PULLED THROUGH VIA AFK15 WITHOUT QCE
BEING PRESENT TO VERIFY VIA OR POSSIBLE CABLE DAMAGE.

Q-LIST # 3.007 HOLD FOR ENG DISPOSITION
HOLD TAGS APPLIED (2) (1 EACH END)



Discussed
with
Tex Ritter

QCIR BACKLOG
NONCONFORMANCE REPORT

STARTUP # OEGA

1. PROJECT NAME Midland		JOB NO. 7220		19. NO.	3998	20. PAGE 1 OF 1
2. UNIT(S) 1	3. DRAWING/PART NO. M616-8	4. ITEM DESCRIPTION FIELD WELD - 15C1	5. ITEM LOCATION 13' 5" OF (8) 13' W OF (2)			
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A	9. SOURCE QC/const.	10. CONTRACTOR/SUPPLIER N/A		
11. INSPECTION CRITERIA () DWG () SPEC () OTHER	IR NO. NO. M20-4	12. ASME AUTHORIZED INSPECTION RECD () YES () NO	13. SKETCH ATTACHED () YES () NO	14. Discovered During () Rec'g () Const () Test	15. Equip Furnished By () Client () Eng () FLD	
16. NONCONFORMING CONDITION: REQUIREMENT: SPEC M20-4 PARA 6.5.1 STATES IN PART THAT PRIOR TO INSTALLATION ALL PLANE SHALL BE VISUALLY CHECKED FOR CLEANLINESS CONDITION: CONTRARY TO SPEC M20-4 FIELD WELD 15C1 ISO M616-8 HAS NO DOCUMENTATION FOR CLEANLINESS DURING INSTALLATION 1 HOLD TAG APPLIED 17. REPORTED BY Randy Bensch 2/16/82 2V ROUTING TO FIELD ENGINEERING () TO OTHERS (SPECIFY) 22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering						
23. PROJECT ENGINEERING DISPOSITION						
24. DISPOSITION CONCURRENCE						
PROJECT FIELD ENGINEER		DATE				
PROJECT ENGINEER		DATE				
PROJ CONSTR QC ENGINEER		DATE				
AUTHORIZED INSPECTOR		DATE				
25. DISPOSITION RESULTS						
26. QC ACCEPTANCE						
QC ENGINEER		DATE				
AUTHORIZED INSPECTOR		DATE				



Contracted:
Bill Swenson

NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 3999		20. PAGE 1 OF 2	
2. UNIT(S) Common		3. DRAWING/PART NO. P/A		4. ITEM DESCRIPTION Expansion Anchors (See Hook 16)		5. ITEM LOCATION Exp. Bldg. Room 130	
6. P.O. OR SPEC NO. P/A		7. SERIAL NO. P/A		8. REPLACEMENT PART P/N P/A		9. SOURCE Construction	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. 2-305 Rev 14		12. ASME AUTHORIZED INSPECTION REQUIRED () YES (X) NO		13. SKETCH ATTACHED (X) YES () NO	
16. NONCONFORMING CONDITION:		14. DISCOVERED DURING () Rec'g (X) Const () Test		15. Equip. Furnished By () Client (X) Eng () FLD		24. DISPOSITION CONCURRENCE	

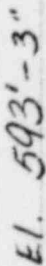
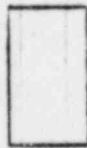
Rev. 14 Para. 4.15 states in part: "Expansion anchors which do not meet requirements of the specification and are therefore abandoned shall not be cut off at the concrete surface." On either side of pipe penetrations 10-M-832 & 2 at total of six 5/8" Ø expansion anchors (see attached photos) have been cut off at the face of the concrete. Q-List # 4.162. 2 old tags applied.

17. REPORTED BY Kathy Ganser	DATE 2/17/82	18. VALIDATED BY WJ Paul	DATE 2/17/82
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)			
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering			

23. PROJECT ENGINEERING DISPOSITION

26. QC ACCEPTANCE	DATE
QC ENGINEER	DATE
AUTHORIZED INSPECTOR	DATE

$\frac{3}{5}, \frac{8}{5}, \frac{3}{5}, \frac{1}{2}, \frac{5}{5}$



○ Cored Sales



0-ful

CONTACT: B HAMILTON FE. NONCONFORMANCE REPORT S/U - Non-Testable

1. PROJECT NAME MIDLAND 1PZ		JOB NO. 7220		19. NO. 4000		20. PAGE 1 OF 2	
2. UNIT(S) WTS 1PZ		3. DRAWING/PART NO. N/A		4. ITEM DESCRIPTION GRADED WATER STORAGE TANK		5. ITEM LOCATION TANKS 1T-60 AND 2T-60	
6. P.O. OR SPEC NO. N/A		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE CONST.	
11. INSPECTION CRITERIA (X) DWG () SPEC () OTHER		FIR NO. C-82-49 NO. C-1148/A		12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO		13. SKETCH ATTACHED () YES (X) NO	
16. NONCONFORMING CONDITION (X) DWG. C-1148/A NOTE A.6 STATES IN PART THAT; THE WATER IN THE TANKS SHALL BE PREVENTED FROM FREEZING DURING THE LOAD TEST. " CONTRARY TO THIS, APPROXIMATELY 18" OF ICE WAS FOUND IN TANKS 1T-60 AND 2T-60. (B) DWG. C-1148/A NOTE B.1 STATES IN PART; "IF THE WATER LEVEL IN EITHER TANK IS LOWERED FOR ANY REASON, ... PROJECT ENGINEERING SHALL BE NOTIFIED IMMEDIATELY AND THE FOLLOWING READINGS (TIME VS WATER LEVEL) SHALL BE TAKEN." (CONT.)		17. REPORTED BY R. Paul		18. VALIDATED BY H. Paul		DATE 2-17-82	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering		24. DISPOSITION CONCURRENCE		25. DISPOSITION RESULTS	
23. PROJECT ENGINEERING DISPOSITION				15. Equip. Furnished By () Rec'g (X) Client () Eng () FLD			
				PROJECT FIELD ENGINEER		DATE	
				PROJECT ENGINEER		DATE	
				PROJ CONSTR QC ENGINEER		DATE	
				AUTHORIZED INSPECTOR		DATE	
				26. QC ACCEPTANCE		DATE	
				QC ENGINEER		DATE	
				AUTHORIZED INSPECTOR		DATE	

CONTINUATION OF BLK 16 - CONTRARY TO THIS, ON 2/15/82 @ APPROXIMATELY 9:00
A LEAK WAS FOUND ON TANK 2T-60 AT VALVE # 3/4-ECB-QB-R. THE LEAK WAS
STOPPED SOON AFTER DISCOVERY BUT NOT BEFORE AN INDETERMINATE AMOUNT
OF WATER HAD LEAKED OUT. HOLD FOR ENIG. DISPOSITION. 2 HOLD TAGS APPLIED.
Q-LIST No. 1.003.



ENGINEER CONTACTED: ROBERT BIS NONCONFORMANCE REPORT

S/U CODE: IPEA, IPEB.

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 4001	20. PAGE 1 OF 1
2. UNIT(S) 1 & 2	3. DRAWING/PART NO. 02-717-02-RS	REV N/A	4. ITEM DESCRIPTION REPLACEMENT PART FOR EMERGENCY DIESEL GENERATORS: PART # 02-717-02-RS	5. ITEM LOCATION WAREHOUSE # 1	
6. P.O. OR SPEC NO. M-18AC	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N REV N/A	SER NO.	9. SOURCE SUPPLIER	10. CONTRACTOR/SUPPLIER TRANSAMERICA DELAVAL
11. INSPECTION CRITERIA () DWG () SPEC (X) OTHER		IR NO. R-1-00-17123	12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During (X) Rec'g () Const () Test
15. Equip Furnished By () Client () Eng (X) MFLD					
16. NONCONFORMING CONDITION: UPON RECEIPT INSPECTION OF THE MATERIAL RECEIVED ON AEO-17123 - A DISCREPANCY WAS NOTED FOR PART # 02-717-02-RS, ON ONE OF THE THREE (3) BRACES RECEIVED - THE ENDS OF THE BRACE HAVE NOT BEEN BEVELED TO MATCH THAT OF THE OTHER TWO BRACES. LEAVING THE STATUS OF THE MATERIAL INDETERMINATE. HOLD FOR ENGINEERING DISPOSITION. 'Q' NUMBER IS # 521 & 522. ONE (1) HOLD TAG APPLIED.				24. DISPOSITION CONCURRENCE	
				rework reject repair use as is	
				PROJECT FIELD ENGINEER DATE	
				PROJECT ENGINEER DATE	
				PROJ CONSTR QC ENGINEER DATE	
				AUTHORIZED INSPECTOR DATE	
17. REPORTED BY J. Kanchwala 2/18/82				18. VALIDATED BY [Signature] 2-18-82	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE					
QC ENGINEER DATE					
AUTHORIZED INSPECTOR DATE					



DP-118182
DISCUSSED WITH TOSTIEN

NONCONFORMANCE REPORT

Q-Sub
S.U. # IE GA 40AUB

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 4002	20. PAGE 1 OF 1
2. UNIT(S) 1	3. DRAWING/PART NO. FSK-M-1HCC-143-1	REV 0	4. ITEM DESCRIPTION VALVE BETWEEN FW'S 16 & 17	5. ITEM LOCATION COMBO SHOP	
6. P.O. OR SPEC NO. NA	7. SERIAL NO. NA	8. REPLACEMENT PART P/N NA REV NA SER NO. NA	9. SOURCE CONST.	10. CONTRACTOR/SUPPLIER NA	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO	13. SKETCH ATTACHED () YES () NO	14. Discovered During () Rec'g () Const () Test	15. Equip Furnished By () Client () Eng () FLD
16. NONCONFORMING CONDITION: REQUIREMENT: SPEC. M204 REV 15 STATES: CARE SHALL BE TAKEN TO PREVENT DAMAGE TO VALVE OR ITS APPURTENANCES. CONDITION: VALVE P#ID NUMBER 093 BETWEEN FW'S 16 & 17, IS MISSING TERMINAL BOX, PRESSURE GAGE, SOLENOID VALVE. SOME TUBING IS DAMAGED AND MISSING, HAND WHEEL LOCK DAMAGED. Q LIST 4.166 1 HOLD TAG APPLIED			24. DISPOSITION CONCURRENCE rework reject repair use as is PROJECT FIELD ENGINEER DATE PROJECT ENGINEER DATE PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE		
17. REPORTED BY David J. Postma		18. VALIDATED BY C. Smith		25. DISPOSITION RESULTS	
DATE 2/18/82		DATE 2-12-82			
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE QC ENGINEER DATE AUTHORIZED INSPECTOR DATE					



IR Backlog
Discussed With:
Dan Haven

NONCONFORMANCE REPORT *S/H # 2GJA*

Q-Rec

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 4003	20. PAGE 1 OF 1
2. UNIT(S) Two	3. DRAWING/PART NO. M-657 Sh. 5	REV 6/FI	4. ITEM DESCRIPTION M-657 Sh. 5 FW #13 and FW #14 (ZABC-217-S-657-S-5)	5. ITEM LOCATION Ax. Bldg. E1 60's	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART PIN N/A REV N/A SER NO. N/A		9. SOURCE Const.	10. CONTRACTOR/SUPPLIER N/A
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER Log NO. 44-221		12. ASME AUTHORIZED INSPECTION REQ'D (X) YES () NO		13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec'g (X) Const () Test
15. Equip Furnished By () Client (X) Eng () FLD		16. NONCONFORMING CONDITION: Requirement: M-204 states in part - "Prior to installation, all piping shall be visually checked for cleanliness." Condition: FW #13 and FW #14 were installed without QC Verification or documentation of Cleanliness			
17. REPORTED BY Thurston, Gary 2-18-82		18. VALIDATED BY (Signature) 2-19-82		24. DISPOSITION CONCURRENCE	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering		25. DISPOSITION RESULTS	
23. PROJECT ENGINEERING DISPOSITION		26. QC ACCEPTANCE			
		QC ENGINEER		DATE	
		AUTHORIZED INSPECTOR		DATE	

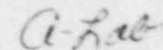


NONCONFORMANCE REPORT

FE Tom Clements

All systems - 250/1

1. PROJECT NAME		JOB NO.		19. NO. 4004	20. PAGE 1 OF 1			
2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION				
II	E-42	3	Scheme Cables = 2CQ1P4T, 2CQ1P4S, 2CQ1P4B, 2CQ1P4P, 2CQ1P4U	FL 0570 Control Room Area				
6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART		9. SOURCE	10. CONTRACTOR/SUPPLIER			
NA	NA	P/N NA REV NA SER NO. NA		CONST	NA			
11. INSPECTION CRITERIA		12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By			
(X) DWG () SPEC () OTHER		IR NO. 200-Item 4 NO. E-32	() YES (X) NO	() Rec'g (X) Const () Test	(X) Client () Eng () FLD			
16. NONCONFORMING CONDITION:				24. DISPOSITION CONCURRENCE				
<p>Draw. E-42 Rev 3, is to establish the criteria for implementation of the physical separation of EE circuitry. Contrary to the above, there is non class and class EE cables penetrating through the same floor penetration at equipment 20.3 in the control room, therefore violating the separation protection systems. The existing condition is 0" inches.</p> <p>Ch List 3.04 Held tags applied. Hold for Eng. Dis.</p>				rework		reject	repair	use as is
				PROJECT FIELD ENGINEER		DATE		
				PROJECT ENGINEER		DATE		
				PROJ CONSTR QC ENGINEER		DATE		
				AUTHORIZED INSPECTOR		DATE		
17. REPORTED BY				25. DISPOSITION RESULTS				
DATE								
18. VALIDATED BY								
DATE								
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS SPECIFY:								
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering								
23. PROJECT ENGINEERING DISPOSITION								
26. QC ACCEPTANCE								
QC ENGINEER								
DATE								
AUTHORIZED INSPECTOR								
DATE								



slu non-Testable

CONTACT: Steve PAYNE

1. PROJECT NAME MIDLAND			JOB NO. 7220			19. NO. 4005		20. PAGE 1 OF 2					
2. UNIT(S) Common		3. DRAWING/PART NO. N/A		REV N/A		4. ITEM DESCRIPTION CORE DRILL PENETRATION		5. ITEM LOCATION Ave. Bulg, B.W. 35, 16610					
6. P.O. OR SPEC NO. C-231 A		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE Construction		10. CONTRACTOR/SUPPLIER N/A					
11. INSPECTION CRITERIA () DWG () SPEC () OTHER			IR NO. NO. C-231 A		12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO		13. SKETCH ATTACHED (X) YES () NO		14. Discovered During () Rec'g (X) Const () Test		15. Equip. Finished By () Client (X) N/A () FLD		
16. NONCONFORMING CONDITION: Spec. C-231 A) SCN N, 003 section 9.2.3 d STATES IN PART... "The minimum clear spacing between existing openings AND Penetrations SHALL Be Three Times The maximum dimension OF The Penetration or 1 Foot, whichever is Larger." CONTRARY TO THIS, The Penetration NOTed ON DRILL PERMIT # 13751 WAS drilled WITH A CLEAR spacing OF 10 1/4 inches From A existing opening. Q LIST 1.205, HOLD For Engineering Disposition. 1 HOLD TAG Applied.										24. DISPOSITION CONCURRENCE			
17. REPORTED BY Jim Helms 2/15/82										18. VALIDATED BY [Signature] 2/19/82		25. DISPOSITION RESULTS	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)													
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering													
23. PROJECT ENGINEERING DISPOSITION													
26. QC ACCEPTANCE													
QC ENGINEER										DATE			
AUTHORIZED INSPECTOR										DATE			

EIC 284
 12/11/80

PROJECT DRAWING NUMBER: 570

Drawn By: G.D. KIELY Discipline: SM. PIPE Date: 12/11/80
 Site: 1 Bldg: AUX. Area: 1 RM: 312 Elev: 614'-0"

Location of Q-Listed blockwall or poured wall substituted for Q-Listed blockwall

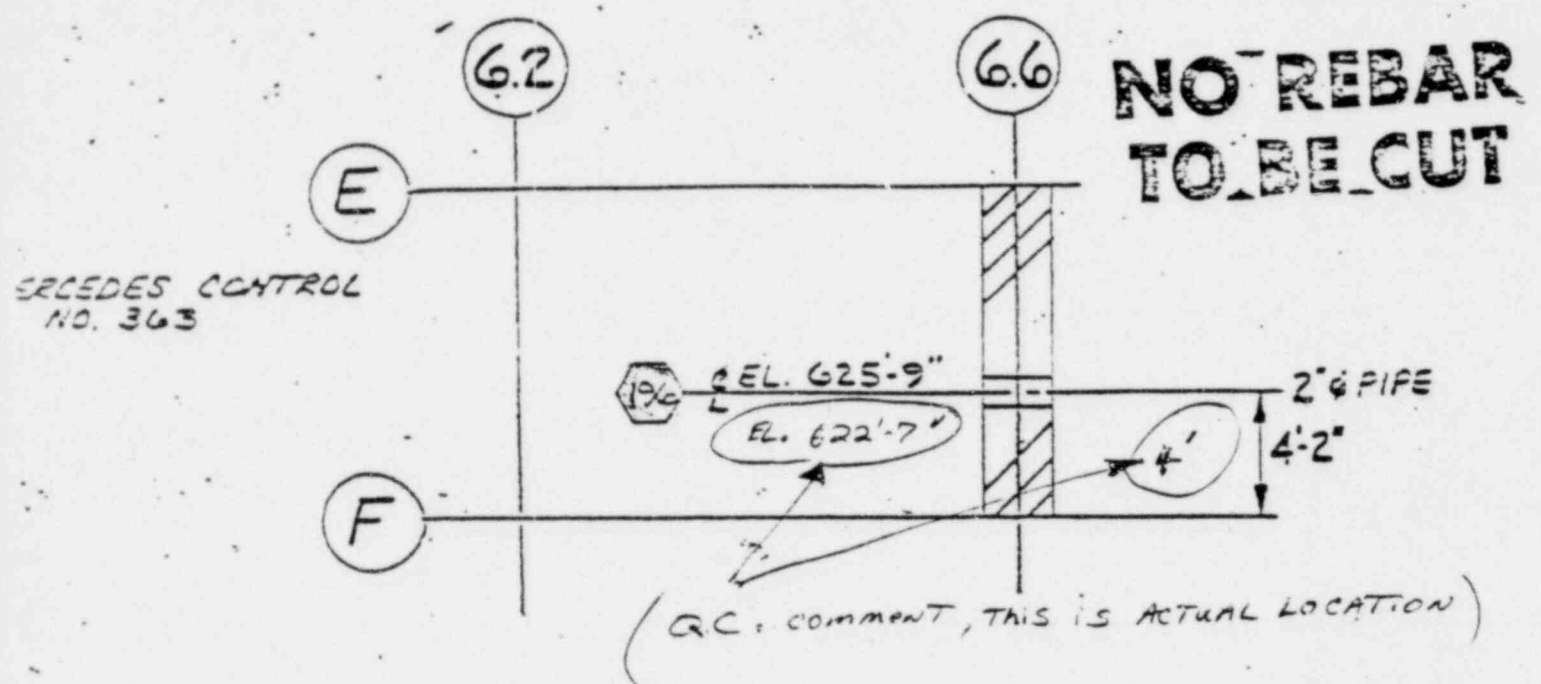
B.W. #38

EL 614

Resident Engineer approval for attachment to Q-Listed blockwall or poured wall substituted for a Q-Listed blockwall.

Appv'd _____ Not Appv'd _____ Date _____

By: _____



Notes: (1) SEE LATEST DESIGN DRAWING REVISION AND CHANGE ADDENDA PRIOR TO DRILLING.
 (2) DO NOT CUT REBAR WITHOUT FIELD ENGINEERS APPROVAL. NO REBAR CUTTING IS ALLOWED IN Q-LISTED CONCRETE BLOCKWALLS OR POURED WALLS SUBSTITUTED FOR Q-LISTED CONCRETE BLOCKWALLS.

Specific Instruction and Location: Tolerance: CORE DRILL 4" HOLE AS SHOWN

Notes: If rebar encountered, notify STEVE PAYNE EXT. 334
 If ground cable encountered, notify DAVE SCOTT EXT. 317
 Before moving hanger, notify _____

Reference Drawings: FSK-M-CHCD-431-1E FSK-M-PG-27 SH.1

Approved By: (Not required for attachments to Q-listed block-wall or poured walls substituted for Q-listed block walls.)

Civil: HS M. Aubrey Date: 12/2/81

Elect: [Signature] Date: 12/2/81

Mech: _____ Date: _____

Piping: Ed Card Date: 12-2-81

Instru: [Signature] Date: 12/2/81

DCE CONTROL NO. 561 N/A INSULATION



DISCUSSED WITH DOUG EGNATHAK

NONCONFORMANCE REPORT

START-UP CODE 186A
286A

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 4006	20. PAGE 1 OF 2	
2. UNIT(S) 1 AND 2	3. DRAWING/PART NO. M604 SH12, M603 SH12	REV. 15/11/81	4. ITEM DESCRIPTION Y-STRAINERS 1YS-0301B, 2YS-0401B	5. ITEM LOCATION Rm 434 AUX BLDG. ELEV. 634' AM 4350		
6. P.O. OR SPEC NO. 7220-M336	7. SERIAL NO. 012482-2-AGC 012482-2-AGA	8. REPLACEMENT PART P/N NA REV NA SER NO. NA		9. SOURCE CONSTRUCTION	10. CONTRACTOR/SUPPLIER LESLIE CO.	
11. INSPECTION CRITERIA () DWG () SPEC (X) OTHER		IR NO. NA	12. ASME AUTHORIZED INSPECTION REQ'D (X) YES () NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec'g (X) Const () Test	15. Equip. Furnished By () Client () Eng (X) FLD
16. NONCONFORMING CONDITION: REQUIREMENT: ① VENDOR PROCEDURE 7220-M-336-29-2 STATES: ALWAYS USE NEW GASKETS WHEN REASSEMBLING STRAINERS FITTED WITH SPIRAL WOUND, FULL COMPRESSION TYPE GASKETS. THESE GASKETS ARE USABLE ONLY ONCE. CONDITION: ① Y-STRAINER 2YS-0401B WAS REASSEMBLED WITHOUT REPLACING GASKET. REQUIREMENT: ② VENDOR PROCEDURE 7220-M-336-29-2 Dwg NO. 712482020 REQUIRES (B) EIGHT NUTS, (1) ONE GASKET AND (1) ONE STRAINER SCREEN. (cont. p. 2)				24. DISPOSITION CONCURRENCE rework reject repair use PROJECT FIELD ENGINEER DATE PROJECT ENGINEER DATE PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE		
17. REPORTED BY D. Smith		DATE 2/18/82	18. VALIDATED BY (Signature)		DATE 2/19/82	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)						
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering						
23. PROJECT ENGINEERING DISPOSITION						
26. QC ACCEPTANCE QC ENGINEER DATE AUTHORIZED INSPECTOR DATE						

BLOCK 16 CONTINUED.

CONDITION: ② Y-STRAINER 1YS-03K1B WAS REASSEMBLED WITHOUT STRAINER SCREEN,
GASKET, AND (6) SIX NUTS.

Q	LIST NO.	UNIT ONE 4.0313 UNIT TWO 4.0413	2 HOLD TAGS APPLIED
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Discussed with L. Harrison

NONCONFORMANCE REPORT

C-1-100 S10 # 2 ABA

1. PROJECT NAME Midland Project		JOB NO. 07220		19. 4007 NO. 7	20. PAGE 1 of 3
2. UNIT(S) 2	3. DRAWING/PART NO. M-632-2	REV 15/A	4. ITEM DESCRIPTION 6" EBBGT Valve (432-1-260)	5. ITEM LOCATION Aux Elev. 715	
6. P.O. OR SPEC NO. NA	7. SERIAL NO. 2N 483	8. REPLACEMENT PART P/N NA REV NA SER NO. NA		9. SOURCE Const.	10. CONTRACTOR/SUPPLIER NA
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. 2-298-24	12. ASME AUTHORIZED INSPECTION REQ'D (X) YES () NO	13. SKETCH ATTACHED (X) YES () NO	14. Discovered During () Rec'g (X) Const () Test
16. NONCONFORMING CONDITION: Condition 1 ASME Sec III Para. NC 4130 States in Part "Defects in materials which ^{or others} were accepted on delivery or which are discovered during the process of manufacture may be eliminated or repaired by welding, provided the defects are removed, repaired and examined in accordance with the requirements of NC-2500" See Page 2			15. Equip Furnished By () Client () Eng (X) FLD		
17. REPORTED BY David L. Smith			18. VALIDATED BY W. J. C. Smith		
DATE 2/19/82			DATE 2/19/82		
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
24. DISPOSITION CONCURRENCE					
rework reject repair use as is					
PROJECT FIELD ENGINEER DATE					
PROJECT ENGINEER DATE					
PROJ CONSTR QC ENGINEER DATE					
AUTHORIZED INSPECTOR DATE					
25. DISPOSITION RESULTS					
26. QC ACCEPTANCE					
QC ENGINEER DATE					
AUTHORIZED INSPECTOR DATE					



Cont of Block 16: Welding standard ED-1 Rev 2 Para. 2.0 states "Before defects are eliminated by removal and rewelding the manufacturer shall be notified and concur" This pertains to pressure vessels, pumps and valves.

Contrary to this, Porosity was noted on the east end of the above referenced valve (see attached sketch). Though these indications met the requirements of ASME Sec III Para. NB-2517 for manufacture they may have been cause for rejection during radiographic interpretation of the weld per NC-S300 for installation. In attempting to remove the porosity three excavations were made $\frac{1}{8}$ " back from the weld end prep and rewelded.

Prior concurrence from the manufacturer was not obtained.

Condition 2, Adjacent to FW-247 on the O.D. of the valve there is a linear indication measuring approximately 1 inch in length rendering the quality of this item indeterminate.

1 Hold Tag Applied

Q 1st No 4,323

This area examined
by field weld
radiography





NONCONFORMANCE REPORT

DISCUSSED WITH P. MAX

S/u # 2BGA

1. PROJECT NAME MIDLAND		JOB NO. 07220		19. NO. 4008		20. PAGE 1 OF 1	
2. UNIT(S) 2 M604 SH 17		3. DRAWING/PART NO. N/A		4. ITEM DESCRIPTION ELBOWLET AT FW92		5. ITEM LOCATION AUX BLDG, ELEV 614, RM315	
6. P.O. OR SPEC NO. N/A		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE CONSTRUCTION	
11. INSPECTION CRITERIA DWG () SPEC () OTHER ()		IR NO. 100-604-17-17		12. ASME AUTHORIZED INSPECTION RECD YES () NO ()		13. SKETCH ATTACHED YES () NO ()	
16. NONCONFORMING CONDITION: REQUIREMENT: M204 REV15, BECHTEL ISOMETRICS ARE THE GOVERNING DRAWINGS FOR FINAL SPOOL CONFIGURATION AND INSTALLATION. CONDITION: DRAWING M604-17, LINE 2 HCC-76 SHOWS A HALF COUPLING TO BE INSTALLED AT FW92. CONTRARY TO THIS AN ELBOWLET HAS BEEN INSTALLED AT THIS LOCATION.		14. Discovered During () Rec'd () Const () Test ()		15. Equip Furnished By () Client () Eng () FLD ()		24. DISPOSITION CONCURRENCE	
17. REPORTED BY Robert E. Johnson		DATE 2/19/82		18. VALIDATED BY W. Paul		DATE 2/19/82	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering		23. PROJECT ENGINEERING DISPOSITION		25. DISPOSITION RESULTS	
26. QC ACCEPTANCE		QC ENGINEER		AUTHORIZED INSPECT		DATE	



IR Backlog
Discussed With:
Don Haven

NONCONFORMANCE REPORT S/H IGJA

Q-Sub

1. PROJECT NAME <i>Midland</i>		JOB NO. <i>7220</i>		19. NO. <i>4009</i>	20. PAGE <i>1</i> OF <i>1</i>
2. UNIT(S) <i>One</i>	3. DRAWING/PART NO. <i>M-657 Sh. 36</i>	REV <i>7/1</i>	4. ITEM DESCRIPTION <i>FW#6 (IHBC-177-S-657-36-3)</i>	5. ITEM LOCATION <i>Ann. Bldg E1. 628'S 1/2"</i>	
6. P.O. OR SPEC NO. <i>N/A</i>	7. SERIAL NO. <i>N/A</i>	8. REPLACEMENT PART P/N <i>N/A</i> REV <i>N/A</i> SER NO. <i>N/A</i>		9. SOURCE <i>Const/QC</i>	10. CONTRACTOR/SUPPLIER <i>N/A</i>
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER Log NO. <i>8978</i>		12. ASME AUTHORIZED INSPECTION REQ'D (X) YES () NO		13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec'g (X) Const () Test
15. Equip Furnished By () Client (X) Eng () FLD		16. NONCONFORMING CONDITION: <i>Requirement: M-204 states in part - "Prior to installation, all piping shall be visually checked for cleanliness." Condition: FW#6 was installed without QC. Verification or documentation of cleanliness.</i>			
17. REPORTED BY <i>Shirley</i>		DATE <i>2-22-82</i>		18. VALIDATED BY <i>[Signature]</i>	
DATE <i>2-22-82</i>		DATE <i>2-23-82</i>		25. DISPOSITION RESULTS	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering			
23. PROJECT ENGINEERING DISPOSITION		26. QC ACCEPTANCE			
		QC ENGINEER DATE			
		AUTHORIZED INSPECTOR DATE			

S/N/B
S/W/7.4



B. JOHNSON
J. CRUZ

DISCUSSED WITH

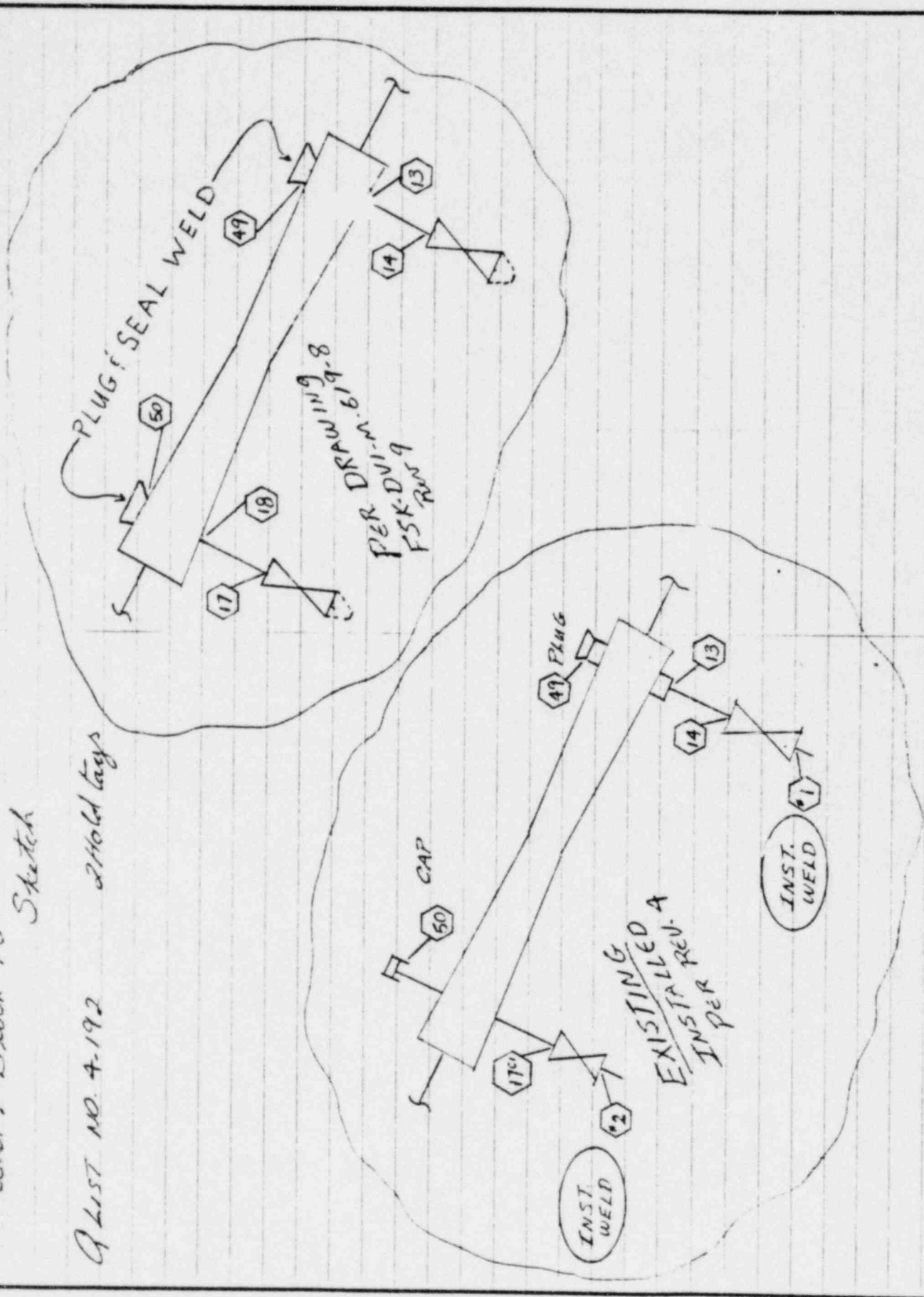
NONCONFORMANCE REPORT

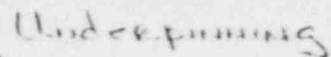
S/u - IEAD

Q. Field

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 4010	20. PAGE 1 OF 2																				
2. UNIT(S) 1F2	3. DRAWING/PART NO. FSK-DVL-M-619-8	REV 9	4. ITEM DESCRIPTION See Block #16	5. ITEM LOCATION Aux E2 653' 5.1 f 11' N/E																					
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE OCONST	10. CONTRACTOR/SUPPLIER N/A																				
11. INSPECTION CRITERIA <input type="checkbox"/> DWG <input checked="" type="checkbox"/> SPEC <input type="checkbox"/> OTHER		IR NO. NO. M-204 Rev 15	12. ASME AUTHORIZED INSPECTION REQ'D <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	13. SKETCH ATTACHED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	14. Discovered During <input type="checkbox"/> Rec'g <input checked="" type="checkbox"/> AConst <input type="checkbox"/> Test	15. Equip Furnished By <input type="checkbox"/> Client <input type="checkbox"/> Eng <input checked="" type="checkbox"/> FLDO																			
16. NONCONFORMING CONDITION: Requirement: M-204-5.2.1 states in part; Bechtel Isometrics (installation isometrics) are the governing drawing for final pool configuration and installation. Condition: Contrary to M-204, Conn #11 (Venturi) found on line 2 HBC-305 is not installed as shown on Isometrics Drawing FSK-DVL-M-619-8 Rev 9. Also FW #50 was installed as a socket weld, but is shown as a seal weld. For details see attached sketch. (Cont'd on Page #2)				24. DISPOSITION CONCURRENCE <table border="1"><tr><td>rework</td><td>reject</td><td>repair</td><td>use as is</td></tr><tr><td colspan="4">PROJECT FIELD ENGINEER _____ DATE _____</td></tr><tr><td colspan="4">PROJECT ENGINEER _____ DATE _____</td></tr><tr><td colspan="4">PROJ CONSTR QC ENGINEER _____ DATE _____</td></tr><tr><td colspan="4">AUTHORIZED INSPECTOR _____ DATE _____</td></tr></table>		rework	reject	repair	use as is	PROJECT FIELD ENGINEER _____ DATE _____				PROJECT ENGINEER _____ DATE _____				PROJ CONSTR QC ENGINEER _____ DATE _____				AUTHORIZED INSPECTOR _____ DATE _____			
rework	reject	repair	use as is																						
PROJECT FIELD ENGINEER _____ DATE _____																									
PROJECT ENGINEER _____ DATE _____																									
PROJ CONSTR QC ENGINEER _____ DATE _____																									
AUTHORIZED INSPECTOR _____ DATE _____																									
17. REPORTED BY B. Johnson		DATE 2/23/82		18. VALIDATED BY E. Sanchez		DATE 2-23-82																			
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING <input type="checkbox"/> TO OTHERS (SPECIFY)																									
22. <input type="checkbox"/> Field Engineering Disposition <input type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering																									
23. PROJECT ENGINEERING DISPOSITION																									
26. QC ACCEPTANCE <table border="1"><tr><td>QC ENGINEER</td><td>DATE</td></tr><tr><td>AUTHORIZED INSPECTOR</td><td>DATE</td></tr></table>						QC ENGINEER	DATE	AUTHORIZED INSPECTOR	DATE																
QC ENGINEER	DATE																								
AUTHORIZED INSPECTOR	DATE																								

Cond 7 Block #16 Sketch 2 Hold Tags





Completed: Jim Kelleher

NONCONFORMANCE REPORT

s/u: non testabile

A-Rel

1. PROJECT NAME Midland		JOB NO. 7220		TBR NO. RSSP(571.0)F		19. NO. 4011		20. PAGE 1 OF 2	
2. UNIT(S) common		3. DRAWING/PART NO. C-1420 (Q)		4. ITEM DESCRIPTION SOLDIER PILE NO. 3 concrete-high temp & slump		5. ITEM LOCATION East of cent #2 Yard Soldier Pile #3			
6. P.O. OR SPEC NO. C-230		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE Supplier		10. CONTRACTOR/SUPPLIER Allied Concrete	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. C-131-WP-2 NO C-230		12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO		13. SKETCH ATTACHED () YES (X) NO		14. Discovered During () Rec'g () Const (X) Test	
15. Equip Furnished By (X) Client () Eng () FLD		16. NONCONFORMING CONDITION: Spec 230, Rev 20, section 11.1, states in part, "Concrete, when deposited in the forms during cold weather, shall have a temperature within plus or minus 10°F of the following: Ambient Air Temp 31°F to 45°F; Mass Concrete, 2 1/2 ft. or more in least dimension (w/Flyash); 50°F." Contrary to this the temperature of the concrete was 70°F. (continued)							
17. REPORTED BY Randy Hucan		DATE 2-23-82		18. VALIDATED BY R. J. Smith		DATE 2-24-82		25. DISPOSITION RESULTS	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering							
23. PROJECT ENGINEERING DISPOSITION									
26. OC ACCEPTANCE									
OC ENGINEER		DATE							
AUTHORIZED INSPECTOR		DATE							



Block 16 continued

Spec. 230, Rev. 20, table 91 states in part, "Class PG-C has a Slump Working Limit at Point of Placement of 5 inches with an inadvertency margin of 1 inch." Contrary to this the slump was 8 inches.

C-list indeterminate

1 - Hold Tag Applied

Pour # RSSP (571.0) F

Discussed with
Andy Kilszek,
Don Haven

Q-Field

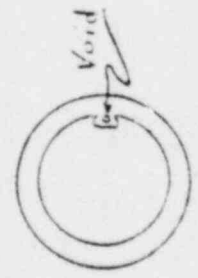
NONCONFORMANCE REPORT

1. PROJECT NAME <i>Aluminum</i>		JOB NO. <i>7220</i>		19. NO. 401	PAGE 1 OF 2
2. UNIT/ISS <i>One</i>	3. DRAWING/PART NO. <i>FSK-M-1186-1-1</i>	REV <i>3</i>	4. ITEM DESCRIPTION <i>1" Pipe (H34 # F1...)</i>	5. ITEM <i>Aluminum</i>	6. P.O. OR SPEC NO. <i>7220</i>
8. REPLACEMENT PART P/N <i>N/A</i> REV <i>N/A</i> SER NO. <i>N/A</i>		9. SUBJECT <i>Corrosion</i>		10. CONTRACTOR/SUPPLIER <i>Cuyon Alloys</i>	
11. INSPECTION CRITERIA () DWG () SPEC (X) OTHER		12. ASME AUTHORIZED INSPECTION RECD YES () NO (X)		13. DISCOVERED DURING () Visual () Test () Other () Field () DTD	
16. NONCONFORMING CONDITION <i>A 1" pipe (HT #E10302) installed in S6 #54 has a raised ridge of metal running longitudinally the full length of the pipe, along the internal surface. At the open end of this pipe a hole or void of undetermined magnitude is visible. (Sketch attached). The quality of this pipe is undetermined. It is noted that pipe from this same group (HT #E10302) is installed in six places on Dwy. FSK-M-1186-1-1 between S6 #11 and S6 #12.</i>					
17. REPORTED BY <i>W.C. Jones</i>		18. VALIDATED BY <i>W.C. Jones</i>		24. DISPOSITION Work Order _____ Date _____ Project Field _____ Date _____ Project Engineering _____ Date _____ Project QC/Inspection _____ Date _____ Authorized Inspection _____ Date _____ Disposition _____ Date _____	
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE QC ENGINEER _____ DATE _____ AUTHORIZED REPRESENTATIVE _____ DATE _____					

27. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering

Block 16 Cont #42, #48 and #49, #57 and #58. The amount or location of other systems installed in Q systems is not known. 1. may

Q List No. 4.572 6 Holes Applied



Raised area approx. 1/2" high
Running the length of the pipe

Looking Down on
End of Pipe

-4- 2-11-82

Midland Nuclear

NONCONFORMANCE REPORT

slu - N-6 - Testable

1. PROJECT NAME Midland Nuclear		REV 5		4. ITEM DESCRIPTION 07220		19. NO. 4013		20. PAGE 1 OF 2	
2. URTIS 3. DRAWING/PART NO. 1722 C-2016		8. REPLACEMENT PART P/N 1-18 REV 1-13 SER NO NP		9. SOURCE Subcontractor Kelly Dewatering		5. ITEM LOCATION well no. N-6			
6. P.O. OR SPEC NO. 7. SERIAL NO. C-118 (3) NP		10. CONTRACTOR/SUPPLIER		11. INSPECTION CRITERIA () DWG () SPEC () OTHER		14. Discovered During () Rec'g () Const () Test			
12. ASSESS AUTHORIZED BY NO C-118 (3) NP		13. SKETCH ATTACHED () YES () NO		15. Equipment Furnished By () Chem () Eng () FLD		24. DISPOSITION CONCURRENCE			
16. NONCONFORMING CONDITION: Spec. C-118 Para 8.2.6 STATES in part "At all times during the grout pour, the grout pipe shall be submerged in the grout". Contrary to the above, the top 3'10" of grout poured for well N-6 was placed with the Tremie pipe out of the grout.									
17. REPORTED BY Robert Spangola		DATE 2-24-82		18. VALIDATED BY [Signature]		DATE 6-25-82		25. DISPOSITION RESULTS	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)									
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering									
23. PROJECT ENGINEERING DISPOSITION									
26. QC ACCEPTANCE									
QC ENGINEER DATE									
AUTHORIZED INSPECTOR DATE									

Cont

containing 11.5%
of the total weight
of the grout. After
the grout placement
was completed, the
top 3'10" of grout was not
yet set.

Additionally, the C-118 requires a minimum 18 ft. of
grout seal around each well with the above stated
composition approximately 3 ft. of the required
18 ft. is not terminate.

"Q" LOT NO. 1.005. 1 hold TAG Applied.



NONCONFORMANCE REPORT

1. PROJECT NAME BRIDGE		JOB NO. 7220		19. NO. 4014		20. PAGE 1 OF 1	
2. UNIT(S) 1/2		3. DRAWING/PART NO. N/A		4. ITEM DESCRIPTION HVAC DAMPER ASSEMBLY		5. ITEM LOCATION BRIDGE	
6. P.O. OR SPEC NO. 1/2		7. SET NO. N/A		8. REPLACEMENT PART N/A		9. SOURCE BRIDGE	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. NO 7-324		12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO		13. SKETCH ATTACHED () YES () NO	
14. DISCOVERED DURING () Test () Client		15. Equip. Furnished By () Client () Field		16. NONCONFORMING CONDITION: FI-324 REV D BRIDGE 21.2 SITES: BRIDGE SUBJECT FOR PHYSICAL DAMAGE. OPEN ASSEMBLY DAMAGED. HAVE ORIGINALLY CORRODED. PARTS TO BE REMOVED AND RE-INSTALLED. THE REPAIR WORK IS BEING DONE. QUANTITIES 4545.00. THE REPAIR ENGINEERING DISPOSITION. 2. HOLD TOPS APPLIED IN THE REPAIR ENGINEERING DISPOSITION.		17. REPORTED BY Mr. [Signature]	
18. VALIDATED BY Mr. [Signature]		DATE 3/26/82		19. DATE 3/26/82		20. DATE 3/26/82	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering		23. PROJECT ENGINEERING DISPOSITION		24. DISPOSITION CONCURRENCE	
25. DISPOSITION RESULTS		26. QC ACCEPTANCE		27. QC ENGINEER		28. AUTHORIZED INSPECTOR	
29. DATE		30. DATE		31. DATE		32. DATE	

1/10/03 10:00 AM
Mike Kostly

567 2/25/82

NONCONFORMANCE REPORT

1. PROJECT NAME <i>Midland</i>		JOB NO. <i>7220</i>		19. NO. <i>4015</i>	20. PAGE <i>1</i> OF <i>2</i>
2. UNIT(S) <i>2</i>	3. DRAWING/PART NO. <i>17-632-2</i>	REV <i>1/1</i>	4. ITEM DESCRIPTION <i>6" EBA-GT Valve (432-1-259)</i>	5. ITEM LOCATION <i>Avi Ekv 715</i>	
6. P.O. OR SPEC NO. <i>NA</i>	7. SERIAL NO. <i>PCW-89</i>	8. REPLACEMENT PART P/N <i>NA</i> REV <i>NA</i> SER NO. <i>NA</i>	9. SOURCE <i>Const</i>	10. CONTRACTOR/SUPPLIER <i>N/A</i>	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		12. ASME AUTHORIZED INSPECTION REQ'D YES () NO (X)	13. SKETCH ATTACHED () YES (X) NO	14. Discovers During () Rec'g (X) Const () Test	15. Equip Furnished By () Client () Eng (X) FLD
16. NONCONFORMING CONDITION: <i>Requirement: ASME Section 8, NC 430</i> <i>States in Part: Defects in materials which were accepted</i> <i>on delivery or which are discovered during the process</i> <i>of manufacture may be eliminated or repaired by welding</i> <i>provided the defects are removed, repaired and examined</i> <i>in accordance with the requirements of NC-2500.</i> <i>See Page 2</i>					
17. REPORTED BY <i>P. Givette</i>		DATE <i>2/24/82</i>		18. VALIDATED BY <i>[Signature]</i> DATE <i>2-26-82</i>	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE					
QC ENGINEER					
AUTHORIZED INSPECTOR					
DATE					



Cont of Blot 16: Welding standard E0-1 Rev 2, Para. 2.0 states:
"Before defects are eliminated by removal and rewelding the
manufacturer shall be notified and concurred" this pertains to pressure
vessels, pumps and valves.

Cont of Blot 16: Welding standard E0-1 Rev 2, Para. 2.0 states:
"Before defects are eliminated by removal and rewelding the
manufacturer shall be notified and concurred" this pertains to pressure
vessels, pumps and valves.

Condition: Porosity was noted on the ~~west~~ end of the above
referenced valve. Although these indications met the requirements of
ASME Sec. III Para. NB-2577 for manufacture they may have been
cause for rejection during radiographic interpretation of the weld
per NB-5300 for installation. An attempting to remove the porosity
excavations were made in the weld end grip and revealed.

1 Hold Tag Applied
List No. 4.323



F.E. (BRIAN OLDHAM)

NONCONFORMANCE REPORT

S/L CODE INDETERMINATE.

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 4016	20. PAGE 1 OF 1
2. UNIT(S) INDETERMINATE	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION 1440 BAGS PREMIXED EMBECC MASTERFLOW 713 NON-SHRINK GROUT	5. ITEM LOCATION WAREHOUSE # 2	
6. P.O. OR SPEC NO. F-54592	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A	SER NO. N/A	9. SOURCE SUPPLIER	10. CONTRACTOR/SUPPLIER MASTER BUILDERS
11. INSPECTION CRITERIA () DWG () SPEC () OTHER IR NO. R100-17187 NO. R100-17174 G-33 Rev 1H		12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO NO		13. SKETCH ATTACHED () YES () NO NO	14. Discovered During () Rec'g () Const () Test
15. Equip. Furnished By () Client () Eng MFLD				16. NONCONFORMING CONDITION: PURCHASE ORDER F-54592 REQUIRES THE MATERIAL TO BE TESTED FOR COMPRESSIVE STRENGTHS & FOR SHRINKAGE, AND A STATEMENT OF CONFORMANCE TO ACCOMPANY THE SHIPMENT. CONTRARY TO THE ABOVE THE REQUIRED TESTS HAVE NOT BEEN COMPLETED & A STATEMENT OF CONFORMANCE HAVE NOT BEEN RECEIVED FOR THE MASTERFLOW 713 NON-SHRINK GROUT RECEIVED ON AEO-17187 (BATCH # B0115Z1) & AEO-17174 (BATCH # B0105Z1). LEAVING THE STATUS OF THE GROUT INDETERMINATE. HOLD FOR ENGINEERING DISPOSITION. Q/NUMBER IS INDETERMINATE. NO HOLD TAGS APPLIED.	
17. REPORTED BY J Kancharla		DATE 2/26/82		18. VALIDATED BY [Signature]	
DATE 2/26/82		DATE 2/26/82		24. DISPOSITION CONCURRENCE rework reject repair use as is	
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering		25. DISPOSITION RESULTS	
23. PROJECT ENGINEERING DISPOSITION		26. QC ACCEPTANCE QC ENGINEER DATE AUTHORIZED INSPECTOR DATE			



NONCONFORMANCE REPORT

6-10-82

S/P - NON TESTABLE

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 4017	20. PAGE 1 OF 2
2. DRAWING NO. C-370 (Q)	3. REV. 18	4. ITEM DESCRIPTION WELD DEFECTS IN THE OUT-OF-CORE NEUTRON DETECTOR BOXES		5. ITEM LOCATION ELEV. 9321 P.B.1 SHIELD NIER	
6. P.O. NO. F-32338	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A	9. SOURCE VENDOR/CONSTR. AFCC STEEL	10. CONTRACTOR/SUPPLIER	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO		13. SKETCH ATTACHED () YES (X) NO	
14. DISCOVERED DURING () Rec'g (X) Const () Test		15. Equip. Furnished By () Client () Eng (X) FLD		16. NONCONFORMING CONDITION: DURING RE-WORK TO THE CONTAINMENT #1 OUT-OF-CORE NEUTRON DETECTOR BOXES (REFERENCE DGN # 10 TO DRAWING C-370(Q) REV. 18) 3 BOXES DEVELOPED LONGITUDINAL CRACKS IN WELDS INSTALLED BY THE VENDOR - FABRICATOR. THE WELD DEFECTS WERE INDUCED BY THE RE-WORK AND DID NOT EXIST PRIOR TO THAT TIME. HOLD FOR ENG. DISPOSITION, 4" LISTED 1.101, 4 HOLD TAGS APPLIED.	
17. REPORTED BY J E Morris		18. VALIDATED BY W J Paul		DATE 2/26/82	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering			
<p>THE FIELD WILL EXCAVATE THE WELD IN THE JOINT AREA TO THE END(S) OF THE DEFECT AS REQUIRED BY AWS. SUFFICIENT INSPECTION SHALL BE PERFORMED TO ENSURE COMPLETE REMOVAL OF THE DEFECT. THE JOINT(S) SHALL BE RE-WELDED IN ACCORDANCE WITH THE DRAWING AND 23. PROJECT ENGINEERING DISPOSITION</p>					
24. DISPOSITION CONCURRENCE		25. DISPOSITION RESULTS			
rework		reject		repair	
PROJECT FIELD ENGINEER		PROJECT ENGINEER		DATE	
PROJECT ENGINEER		PROJECT ENGINEER		DATE	
PROJ CONSTR QC ENGINEER		PROJ CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		AUTHORIZED INSPECTOR		DATE	
26. QC ACCEPTANCE		QC ENGINEER			
AUTHORIZED INSPECTOR		DATE			

SECRET

NONCONFORMANCE REPORT (CONT'D)

PAGE 2 OF 2

18 NCR NO 4017

BLOCK 22 CONTINUED - - -

APPLICABLE WELDING PROCEDURES.

LE Moss
2/26/82

D. Harvey 2-26-82

10099-2

White Copy - Originator
Canary Copy - Field Engineer
Pink Copy - PQAE
Goldenrod Copy - QC

QC-633

Discussed with
George R. Miller

JK Backley

NONCONFORMANCE REPORT

START UP CODE: JFCA

1. PROJECT NAME

MIDLAND

2. UNIT(S) 3. DRAWING/PART NO.

1 MLL-6 S-2

6. P.O. OR SPEC NO. 7. SERIAL NO.

NA NA

11. INSPECTION CRITERIA

() DWG (X) SPEC () OTHER

16. NONCONFORMING CONDITION:

Requirement: Specification M-204 Δ paragraph 6.4 states that prior to installation all piping shall be visually checked for cleanliness. Condition: There is no documented cleanliness inspection for field weld M-204 Δ. MLL-6 as Drawing MLL-6 S-2.

1 Held Tag applied "Q" list is 4/10/64

17. REPORTED BY

John G. ...

DATE

4/10/64

18. VALIDATED BY

(Signature)

DATE

7-26-62

21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)

22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering

23. PROJECT ENGINEERING DISPOSITION

26. OC ACCEPTANCE

OC ENGINEER

AUTHORIZED INSPECTOR

DATE

DATE

JOB NO.

7220

REV 4. ITEM DESCRIPTION

3/1 NO Documented cleanliness for M-204 Δ as per JCB-6

8. REPLACEMENT PART

P/N: N/A REV: N/A SER NO: N/A

12. ASME AUTHORIZED INSPECTION REQUIRED

(X) YES () NO

13. SKETCH ATTACHED

() YES (X) NO

14. Discovered During

() Hold (X) Post () Test () Eng Field

15. Equip Furnished By

() Client () Eng Field

19. NO. 4018

PAGE 1 OF 1

9. ITEM LOCATION

Unit # 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

10. CONTRACTOR/SUPPLIER

NA

24. DISPOSITION CONCURRENCE

REWORK REJECT REPAIR USE AS IS

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJECT CONSTRUCTION ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Discussed with:

Tom Zolae

NONCONFORMANCE REPORT *SA # 1031A*

JOB NO. *7220*

1. PROJECT NAME *M. d. 12nd*

2. UNIT(S) *3* DRAWING/PART NO. *M-657 Sh. 38*

6. P.O. OR SPEC NO. *N/A* 7. SERIAL NO. *N/A*

8. REPLACEMENT PART *N/A* 9. SOURCE *Const. 11/92*

10. CONTRACTOR/SUPPLIER *A/P*

11. INSPECTION CRITERIA *11 NO. 11/12 12. ASME AUTHORIZED INSPECTION TO GO*

12. ASME AUTHORIZED INSPECTION TO GO *X* YES *()* NO

13. SKETCH ATTACHED *X* YES *()* NO

14. DISPOSITION DURING *14. DISPOSITION DURING*

15. EQUIP. FURNISHED BY *15. EQUIP. FURNISHED BY*

16. NONCONFORMING CONDITION *Requirement: M-204 states in part - "Prior to installation, all piping shall be visually checked for cleanliness. Condition: FW #5 and FW #12 were installed without Q.C. verification or documentation of cleanliness."*

Q List No. 4572

17. REPORTED BY *17. REPORTED BY* DATE *2-20-82*

18. VALIDATED BY *18. VALIDATED BY* DATE *2-26-82*

19. ROUTING: *19. ROUTING* () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)

22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering

23. PROJECT ENGINEERING DISPOSITION

26. QC ACCEPTANCE

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

1.

CONTACT: Mark Jensen NONCONFORMANCE REPORT

Q-Job

11 PROJECT NUMBER

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 4020		20. PAGE 1 OF 1	
2. UNIT(S) N/A		3. DRAWING/PART NO. C-2016 REV 5		4. ITEM DESCRIPTION FURNISHMENT GOMEX-PACK WELLS		5. ITEM LOCATION WELL D-2	
6. P.O. OR SPEC NO. C-118 REV 3		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N 411 REV 5/7 SER NO. N/A		9. SOURCE SACCONWELLS KENNY 2-2-82 12006	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. C-202-18 A NO. C-113 A		12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO		13. SKETCH ATTACHED () YES (X) NO	
16. NONCONFORMING CONDITION: APT. "BELOW 15 FEET, THE HOLE SHALL NOT BE DRAINED PERMANENTLY. CONTRARY TO THE ABOVE, THE HOLE WAS DRAINED TWO FEET FAST TO THE BOTTOM OF THE Casing TO A DEPTH OF 24 FEET FROM GROUND LEVEL. TWO FOR EXHAUSTING DISPOSITION." Q LISTED 1005, 1 AND THE APPENDED.		14. DISCOVERED DURING () REG'G (X) CONST () TEST		15. EQUIP FURNISHED BY () CLOUT () HENG () FLD		24. DISPOSITION CONCURRENCE	
17. REPORTED BY Spring No		DATE 2-15-82		18. VALIDATED BY W. E. Smith		DATE 2/16/82	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering		23. PROJECT ENGINEERING DISPOSITION		25. DISPOSITION RESULTS	
						PROJECT FIELD ENGINEER DATE	
						PROJECT ENGINEER DATE	
						PROJ CONSTR GC ENGINEER DATE	
						AUTHORIZED INSPECTOR DATE	
						26. OC ACCEPTANCE	
						OC ENGINEER DATE	
						AUTHORIZED INSPECTOR DATE	

BLK 16 CONTINUED

NOTE: THE HOLE HAS BEEN DRILLED TO A DEPTH OF 24' FROM THE SURFACE, THE CASING HAS BEEN ADVANCED TO 22' FEET FROM THE SURFACE.

BECHTEL

Closed NCR's



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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1352	5-17-78	E-42. Seismic Cable Tray Support - A325 bolts were torqued with wrench found to be out of calibration. Aux.	Rework	9-27-78	K. Brinster
1353	5-17-78	E-20. Elec. Penetration Assemblies - Doc. Pkg. not received at jobsite. Pent. 22152 has 0 psig reading.	Doc. Rework	2-7-80	J. W. Miller
1354	5-18-78	P-20. Elec. Penetration Assemblies - Doc. Pkg. not received at jobsite. s/n AS-131-5 Nameplate discrepancy.	Doc. Rework	4-23-80	J. Miller
1355	5-18-78	Dwg. C-229. FPGW's shown on Dwg. lack details of groove welded joints and preparation of matl's. Aux. El. 704'	Std. Repair		
1356	5-18-78	G-27. FSK-MPC-2-2021 - The WR-5 and WR-6a for FSK-MPC-2-2021 Field Weld 1/4 have been lost during in-process welding.	Use as is	6-30-78	J. C. Huron
1357	5-18-78	C-653. Arc Gouges on Beam, caused by faulty welding cable. Cont. #2 El. 659'	Use as is	6-7-78	J. C. Huron
1358	5-18-78	M-1.31 & 1.32. B&W QA Data Packages for Instrumentation Cabinets have not been received.	Repair	1-9-79	J. Huron
1359	5-18-78	J-202. Welding was begun on Inst. Panel 2C150 with no proper authorization. Elev. 685' Aux. 2			
1360	5-22-78	C-304. PAW's found to be unacceptable due to undersize oversize, and other weld defects. Aux. Bldg.	Rework	7-19-78	J. C. Huron
1361	5-23-78	M-104A. Pipe Spool 2FCB-11-S604-5-2 cannot be uniquely identified - 2 spools have same number.	Repair	11-2-78	J. C. Huron
1362	5-24-78	C-231. Cadweld test splices were lost exceeding test frequency for production and sister splices.	Use as is		
1363	5-25-78	Dwg. C-651. Angle to E-3 #mbd fillet weld undersized Cont. #2 Elev. 626'	Use as is	8-30-78	R. Moray
1364	5-30-78	A-13. Compressive strength of Type M mortar does not meet spec. requirements.	Rework	8-4-78	S. Kirker
1365	5-26-78	M-215. 10 pcs CS Pipe - 2 pcs removed from receiving without QC inspection, traceable heats not marked, no traceable doc.	Use as is	10-21-80 9-29-78	E. Dutton J. C. Huron
1366	5-26-78	M-123C. Check Valves 2 ₁ -CCB-CK-1 S/N 2N-799 & 2 ₂ -CCB-CK-1 S/N 2N-789 are missing the Hinge Pin Covers. Aux. 605'	Reject	6-20-78	T. Lieb
1367	5-31-78	Dwg. C-195. MCC Units Fillet Welds - Distance between welds do not agree with that called out on dwg. Aux.	Use as is	12-7-79	R. Montreuil
1368	5-31-78	C-208. Five concrete curing tanks stored in temperatures exceeding requirements called out by ASTM C-31-69.	Rework	2-22-82	E. Kalemba
1369	6-1-78	M-104A. Two Pipe Spools have the same spool number. 1FCB-11-S603-5-2 - Aux. Elev. 600'	Use as is	6-22-78	J. C. Huron
1370	6-2-78	M-336. Nuclear Wye Strainers - Code data plates detached from strainers, incorrectly identified. Med. G-321D incorrect.	Use as is	6-15-78	T. Lieb
			Doc. Rework	8-28-78	K. Nilson
				2-24-79	R. Valentine

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2 NCR NO	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
2272	6-15-79	M-104A. Concentric reducers, G-321-D not signed by shop inspector; no line designation data or spool number on concentric reducers.	Doc. Rework	10-30-79	M. Moore
2273	6-15-79	Hanger 2½" ICCB-24-H14 has no visible identification and cannot be traced to a certificate of compliance.	NA	1-9-80	E. Urbanawiz
2274	6-15-79	Hanger 8" ICCB-15-H56 has no visible identification and cannot be traced to a certificate of compliance.	N/A	11-7-79	E. Urbanawiz
2275	6-15-79	Hanger 3" 2CCB-63-H3 has no visible identification and cannot be traced to a certificate of compliance.	N/A	1-9-80	E. Urbanawiz
2276	6-18-79	Hanger 6" 2EBB-13-H15, has no visible identification and cannot be traced to a certificate of compliance.	Rework	2-13-80	F. Mahala
2277	6-18-79	Hanger 6" 2EBB-6-H8 has no visible material identification and cannot be traced to a certificate of compliance.	N/A	1-8-80	E. Urbanawiz
2278	6-18-79	Hanger 10" ICCB-25-H4 has no visible marking and cannot be traced to a certificate of compliance.	N/A Rework	4-17-80	E. Urbanawiz
2279	6-18-79	P-3150. Misc. Pipe Fittings. ½" plugs have no size or service rating stamped and no service rating listed on CMTR's.	Doc. Rework	9-8-79	R. MacGlashan
2280	6-18-79	P-3103. Packing list and documentation received with material from Wiltse has several discrepancies between packing list & material.	N/A	2-4-80	S. Kirker
2281	6-19-79	J-258AC. Butterfly valves received with only G-321-D, no other documentation. Nameplate taped to inside of valves.	Doc. Rework	9-5-79	R. MacGlashan
2282	6-19-79	E-617 Sh. 2. Expansion anchors used to install support conduit run and junction box. Expansion anchor not to be used.	Use As Is	2-13-81	C. Spinks
2283	6-20-79	Stud expansion anchors are not installed with the required minimum embedded length.	Rew / Rej Use As Is	2-23-82	T.A. Perry
2284	6-19-79	M-183 Sh. 1. Two reinforcing bars in slabs were cut on the same face, in the same direction for pipesleeve on line QJBD-42.	Std. Repair Use As Is	9-14-79	S. Gelnett
2285	6-20-79	Hanger expansion anchors have been installed below minimum embedment requirements.	Rework	3-25-81	K. Gustafson
2286	6-20-79	Wires in wireways in 4 panels are pulled so tight that wireway covers cannot be reinstalled. Pieces of wood used in wireways as braces.	Repair	4-17-80	R. Narcavage
2287	6-21-79	M-127 Check valve 1"-CBC-CK edges have forced together & surrounding paint is chipping away.	N/A	8-27-79	T. Estes
2288	6-21-79	J-218 Instrument tubing to OP1-1422B, OP1-1424A, OP1-1424B has been damaged by filing of weld fit-up scribe mark.	Use As Is	10-12-79	E. Urbanawiz
2289	6-21-79	Torque Wrench BPC-2175 out of calibration thereby making torque tests made during 5-30-78 thru 2-20-79 indeterminate.	Rework	1-9-80	F. Mahala
2290	6-22-79	2ELB-12-S632-3-2 & 3-3, spools, thermocouples welded to line w/o QCIR W-1.00B being issued, also 2 were welded to code data PH.	Rework	7-23-79	D. Kimbro

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
2328	7-9-79	C-24. Sluice gates w/ lifting operators released to construction without maintenance compliance to FPG 5.000.	Use As Is	2-15-82	R. Mac Glashan
2329	7-9-79	CRD Primary AC Breakers, dehumidifiers have not been properly maintained, causing oxidation of bolt holes on bus bars of panels.	Rework	2-26-80	E. Urbanawiz
2330	7-9-79	Concrete slab at 628'6", rebar cut (no. 11).	Std. Repair	11-19-79	S. Gelnett
2331	7-10-79	Check Valve 2 1/2" CCB-CK-L (403-2-061), both hinge pin covers & hinge pins disassembled without use of field instruction FIP-2.112.	Rework	1-29-81	R. Amos
2332	7-10-79	M-1.7. T-304 SS Safety Wire delivered without documentation.	Doc. Rework	1-28-80	D. Delaney
2333	7-10-79	M-1.1. Dowels for DRDM indexing hole Mod. FCA-34 received without documentation.	Doc. Rework	7-25-79	D. A. Delaney
2334	7-10-79	J-256AC. Solenoid valve, tag # 2SV-3969A, received with name-plate marked with incorrect serial number.	Doc. Rework	8-23-79	T. Estes
2335	7-10-79	QHBC-17-619-8-1, pipe spool damaged, has an arc strike approximately 7/8" in diameter.	Std. Repair	10-10-79	C. Fugate
2336	7-10-79	F-27952. 48 ea. 3/4" to 3/8" socket weld tube reducer, are not marked with alpha-numeric code B-31.	Doc. Rework	11-19-79 11-12-79	R. Mac Glashan
2337	7-10-79	E-12AC. 125 volt station battery, supplier release twx and quality verification documentation not received.	Use As Is	11-13-79	R. Montreuil
2338	7-11-79	C-306. Rebar (#11) was cut at the top of D/5.6 pilaster while core drilling for hanger.	Use As Is	1-31-80	G. Cheves
2339	7-11-79	Spec. M-342. Q piping & components have a gross amount of concrete, also within pipe spool 1FCB-19-610-7-8.	Rework	12-14-79	F. Mahala
2340	7-12-79	C-306. Grouted anchor bolts for hanger in concrete block walls, contrary to spec. requirements.	Rework	11-11-79 11-12-79	P. Haren
2341	7-12-79	Hanger 8" 2CCB-15-H21, sketch shows part 4 attached to part 2 with fillet welds; part 5 attached to part with no weld symbol.	Rework	10-1-79	E. Urbanawiz
2342	7-12-79	F-3107 Rev. 24. G-321-D form received with documentation for the restraint material received on AEO-9764 is from Rev. 14 of Spec. C-233	Doc. Rework	8-17-79	M. Moore
2343	7-13-79	Dwg. FSK-M-1HBC-207-1, 3/4" globe valve is inoperative due to piping insulation interference.	Rework	1-16-80	E. Urbanawiz
2344	7-13-79	E-750 Sh. 1, Anchor center to center spacing do not meet requirements of Spec. C-305.	Rework Use As Is	10-16-79	R. Amos
2345	7-14-79	Dwg. E-611. Conduit Installation 1BJE002. Conduit has total of 405' between pulling points. Anchor bolts do not meet dwg. dimensions.	Rework	1-30-80	C. Cameron
2346	7-14-79	Dwg. M-631 sh. 3. Block welding done pipe spool 1ELB-12-631-3-1 This is not permitted by Spec. G-27 and M-204.	Use As Is	11-12-79	E. Urbanawiz

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² NRC NO.	³ DATE	⁴ NONCONFORMANCE DESCRIPTION / REMARKS	⁵ DISPO.	⁶ DATE NCR CLOSED	⁷ CLOSED BY
3031	6-13-80	Spec. C-230, water meter has not been calibrated per spec.	Rework	7-22-80	T. Lieb
3032	6-13-80	Portion of the post-tensioning movable gantry is striking some of the vertical grease cans that are on top of the vertical tendons.	Use As Is	6-16-81	P. Vanderveer
3033	6-17-80	Dwg. C-266, 3/4" anchors installed in locations that are under the minimum or exceed maximum vert./horiz. edge distance per drawing.	Rework UseAsIs	10-1-80	E. Dutton
3034	6-18-80	E-650 sh.1, E-42, Raceway supports installed contrray to drawing requirements.	Use As Is	9-3-80	J. Miller
3035	6-20-80	C-2 tendons were stressed with a gauge whose calibration was indeterminate.	Use As Is	9-15-80	P. Vanderveer
3036	6-20-80	FSK-M-IHBC-145-1, Vertical #11 rebar cut in excess of spec. allowances while drilling for hanger installation.	Use As Is	8-13-80	T. Gelnett
3037	6-23-80	P.O. M-127A Rev. 12, valve I.D. requirements are conflictory between the M.R. and vendor drawings	UseAsIs DocRework	9-16-80	R. MacGlashan
3038	6-23-80	P.O. F-46088, contrary to Spec. CRD-C568-78A shrinkage or grout is less than its original volume.	N/A	7-1-80 6-26-80	B. DeArmond
3039	6-25-80	P.O. E-46833, 12 of the 25 cases of paint delivered to jobsite were found to be seeping paint form containers & 1 case was missing.	Reject	10-15-80	F. Kanchwala
3040	6-26-80	Dwg. M-619-5, In the installation of FW 134, hear applied to carbon steel without field welding engineering instructions.	Use As Is	8-25-80	C. Fugate
3041	6-27-80	PQCI SC-1.05 requires that field density of relative densities be retested, contrary to this, 7 have not been retested.	Use As Is	9-23-81 10-3-80	S. Kirker B. DeArmond
3042	7-1-80	Material used as welded attachments for component supports as listed on NCR, not purchased from ASME or Bechtel approved suppliers	Rework & N/A		
3043	7-1-80	P.O. F-45447, Threaded Nelson Studs, no statement of conformance or certificate of compliance submitted by vendor. AEO-13033.	Doc. Rework	7-9-80	F. Kanchwala
3044	7-1-80	P.O. F-30042, Honey Comb Crushable Element, G-321-D supplied by vendor on AEO-13062 doesn't have his signature in Block 21.	Doc. Rework	7-10-80	F. Kanchwala
3045	7-1-80	E-541, Dwg. E-42, Conduit 2BE013, embedded in floor of purge Room #703, has been core drilled.	Repair	7-31-80	J. Petrosino
3046	7-2-80	M-104A, Shop fab. c.s. piping has been coated with an unidentified base shop coating contrary to Spec. G-3	Use As Is	2-18-82	E. Dutton
3047	7-3-80	FSK-M-OHBC-67-1, FSK-M-IHBC-184-1, socket welds installed without cleanliness verification and documentation by QC per Spec. M-204.	Use As Is	9-22-80	C. Fugate
3048	7-9-80	P.O. F-46747, Transducers, received on AEO-13114, no statement of conformance submitted by the vendor.	Doc. Rework	8-5-80	F. Kanchwala
3049	7-9-80	P.O. F-46905, Selector SW Operator, statement of conformance hasn't been recieved.	Doc. Rework	7-21-80	J. Kramer

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2 NRC NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
3146	10-2-80	Temp. Closure Plates for 4 18" spools were not Doc. on separate QCIR's for installation and removal	Rework		
3147	10-3-80	Sampling/Fabrication of fresh concrete, contrary to ASTM C172-71, 20 min. wait between composite sampling & molding of specimens	Use As Is	2-6-81	B. DeArmond
3148	10-3-80	Concrete material proportions, the cement & the cement & Pozzolan was below required amount per C-94-78a	Use As Is	12-17-80	B. DeArmond
3149	10-3-80	M-1,16, During an inspection, a leak was found in Lube Oil Cooler for 2P-58A	N/A	2-15-82	M. Orr
3150	10-3-80	Embedded conduit 2AA055 was found damaged by Core Drilling in Cont. #2	Std Repair	10-28-80	J. W. Miller
3151	10-2-80	F-47666, P.O. Item #9, Transformers JAK-0 have no Certificate of Conformance, and is required per G-33 Rev. 12	Rework	10-27-80	J. Kramer
3152	10-2-80	E-22 Contrary to Hold placed on Q cables for scheme # 1BD2001AD, 1BD2001AC, 2BD2001AA, 2BD2001AC, & 2BC2001AD have been installed	Use As Is	1-05-81	J. Lange
3153	10-3-80	ASME NB-4411 Sect. 3, Contrary SW#1 completed without Q.A. Record to identify and control filler material or weld process	Rework	5-28-81	R. Runyon
3154	10-6-80	During a Hydrostatic test on spools LHCC-35-S-603-15-4 & 6 Two shop welds were found that were not on ISO drawing M-603 SH 15 Rev. 7/F2	N/A	01-9-81 12-1-80	C. Fugate W. Green
3155	10-6-80	Spec M-481 SH 100B, contrary to spec., Drain Connection #1 on FSK-DVI-M619-18 was installed using a half coupling on FW 11.	Use As Is	01-30-81	R. Kramer
3156	10-7-80	M-18, Rotor, 1G-12, damaged during installation	Repair	12-23-81	C. Stevens
3157	10-8-80	Dwg. C-2022, During temp. dewatering, settlement monitoring is required. Soil monitoring devices not read from 8-29-80 on.	Use As Is	2-6-81	J. Sercu
3158	10-8-80	M-118B, Valves 2XV-3966A1P & 1XV-3866B1P have corrosion, rust & scaling of the valve internals	Rework	11-18-80	C. Fugate
3159	10-8-80	F-31122, Structural backfill received on AEO-13773 was not tested by contractor as required per Spec. C-211	Use As Is	12-17-80	D. Delaney
3160	10-8-80	E-756 SH 1 & E-751 SH 2, 3/4" Hilti Drop In Anchors no installed with edge to edge distance as required by FPG-2,100	Use As Is	3-13-81	J.W. Miller
3161	10-8-80	Dwg. FSK-MPY-153, Thermowell supports for temperature elements not installed per drqwing detail	Use As Is	7-14-81	R. Kramer
3162	10-8-80	E-650 SH 1, Type 12 & 14 conduit supports & type 9E box support installed on misc. steel contrary to E-42	Reject	9-29-81	J.W. Miller
3163	10-9-80	Supports on Dwg. FSK-CA-2213 were welded by Standish welders S-2, S-5, & S-7 who are not qualified on only 3/8" plate per ASME	Use As Is	3-2-81	L. Harrison
3164	10-9-80	Dwg. M-166, 4" ODBC-1 Subassembly from FW 150 to 166 released from field shop without A.I. signature	Doc. Rework	10-10-80	M. Meeks

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
3258	1-14-81	E-630 Sh. 2, 2 type 14 conduit supports installed with cross flange welding contrary to E-42.	Use As Is	3-6-81	J.C. Miller
3259	1-15-81	C2-146, Tendon H13-045 was supplied with only 168 wires contrary to INRYCO's system for Post-Tensioning.	Use As Is	3-24-81	P. Vanderveer
3260	1-15-81	Dwg. C-233 A-F3103-198, Spec. C-304, Cross flange welding to beam 16B1 performed without prior Project Engineer's approval.	Use As Is	4-10-81	E. Dutton
3261	1-15-81	Spec. C-304, Cross flange welding to access platform structural steel, performed without prior approval of Project Engineer.	Use As Is	10-22-81	S. Kirker
3262	1-16-81	M-614-8, 8" HCC-GT-L (414-009), The nuclear identification tag is missing from the valve.	Rework	2-10-81	G. Fulmer
3263	1-20-81	F-49256, Hex bolts, nuts and washers; certificate of compliance doesn't state Type 3 required by ASTM-A325, Mat. not marked by type	Doc. Re- work/Reject	2-2-81	M. Slocumb
3264	1-21-81	1 1/2" diameter anchor bolts for hanger 604-5-21 can't be traced to any specific ASTM/Grade.	N/A	2-10-81	R. Huron
3265	1-21-81	E-7, Motor Control Centers-bolts missing on banking assemblies of back to back or back against wall with no rear entry.	Rework		
3266	1-23-81	Stock ASME NF Steel procured from sub-vendors who were not ASME or Bechtel approved. (Several P.O.'s- see NCR)	Rwk/Rej. UseAsIs		
3267	1-26-81	E-697 Sh.1, Electrical supports welded using Procedure P1-A-LH with E-8018 electrode; Spec. C-304 requires E-7018 & E-7016	Use As Is	2-25-81 11-10-81	J.C. Miller J. Cabral
3268	1-26-81	E-643, Conduits 2BH048, 2BH049, 2BH050 & 2BH051 have bends which exceeds the 4 - 90° maximum requirements.	Use As Is	2-4-82	D. Herwick
3269	1-26-81	M-3, Fuel Pool Cooling Heat Exchange #OE-76A was found to have an arc burn located on the upper west end.	Std. Repair		
3270	1-27-81	Attachments welds welded to Line OHCC-15-S-614-8-2 installed with full penetration welds, flattening of the pipe; contrary to M204 requir.	UseAsIs	11-12-81	K. Gustafson
3271	1-28-81	Included angles of the 4 connectors between the P1001 stru/flat surface of the steel is less than 60° contrary to Specs C-304 & G27	Repair	6-4-81	J.W. Miller
3272	1-29-81	During pullback of WR #801 consisting of 22 cables, the maximum allowance cable tension was exceeded. Dwg. E-37	Rework	5-19-81	R. Spisich
3273	1-30-81	C-306 states the minimum radial distance between two cut bars be at least 10 feet; contrary to this cut bar allowances exceeded.	Use As Is	4-30-81	P. Vanderveer
3274	1-30-81	C-2 states wires with defects greater than 0.005" deep shall be de-fected, Tendon H21-015 2 wires sheared off & 1 wire gouged 0.007".	Use As Is	4-20-81	S. Gelnett
3275	2-2-81	Tray support shown on Dwg. E-741 does not agree with "AS Build" Condition.	Doc. Rework		
3276	2-2-81	Spec. G-33 does not include structural steel to be used in the in-stallation of ASME Sec. III class 2 & 3 pipe supports.			

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3277	2-2-81	P.O. F-46941 doesn't contain material certification in accordance with requirements of NA 3767.4.	Doc, Rwk Reject		
3278	2-2-81	P.O. F-45563 has rigging beam, plate & beam assemblies with paint thickness in excess of Spec. C-233 requirements.	Rework	2-24-81	P. Vanderveer
3279	2-3-81	M-1.31, no documentation or TWX has been received for 2 master specialty series 800 pushbutton assemblies PT #851-24416-002.	Doc. Rework		
3280	2-3-81	During pullback per WR794 there were 17 cables rendered indeterminate because maximum allowable tension was exceeded.	Rework	6-3-81	J. Lange
3281	2-3-81	Spec. C-208 states that 2"x2" cubes be in moist condition & maintained at a temp. of 73.4 & .3° R. Contrary to this the temp. was 69°	Use As Is	3-12-81	B. DeArmond
3282	2-3-81	M-125B, contrary to Spec. M-204, an arc burn was discovered on SS check valve 2 1/2 HCC-CK-RL2 (403-1-087).	STD. Repair		
3283	2-6-81	E-42B limits tube steel length to be 24", contrary to this 3 type 11B conduit supports have been revised so tube is 28".	Use As Is	3-17-81	J.W. Miller
3284	2-5-81	Penetration circumferential weld testing doesn't meet requirements of ASME Sub. Sect. NE Sect. III.	Use As Is	2-18-82	D. Fredianelli
3285	2-9-81	Tendons H13-027 & H13-047 lost an indeterminate amount of grease during greasing operation.	Use As Is Rework	2-24-81	P. Vanderveer
3286	2-9-81	Contrary to Dwg. A-52, block wall 26B has only two No. 5 rebars installed horizontally as a bond beam.	Rework	3-9-81	J. Musser
3287	2-9-81	Contrary to Dwg. A-72, Schedule I linear plate coating repairs were 3rd or 4th coated w/o required dry film thickness limits verified.	Use As Is	4-14-81	E. Dutton
3288	2-9-81	Cut rebar of Oct. and Nov. wasn't reported until Jan. 5, 1981, contrary to C-305 Section 3.0.	Doc. Rework	2-26-81	S. Gelnett
3289	2-9-81	Contrary to A-72, General Note #6, instrumentation supports failed to meet requirement as tested to FPA 1000.	Reject	5-19-81	R. Kramer
3290	2-10-81	Bottom N. anchor bolt for H-617-1-7 was installed w/o QC inspection of anchor hole prior to installation, contrary to PQCI C-1.50 Rev 7	Rework	2-13-81	W. Smith
3291	2-10-81	E-632 sh. 2 anchors for pull box #1B1815 being installed prior to holes being inspected, contrary to PQCI C-1.50 & Spec. C-305.	Use As Is	6-9-81	T. Hahn
3292	2-12-81	E-536, Embedded conduit 2AC007 was penetrated while drilling for expansion anchors.	Rework Repair	6-26-81	C. Lemons
3293	2-13-81	Spec. C-231 states in part Horiz. rebar shall not be cut; during core drilling a horiz. and two vertical rebar were cut.	N/A	3-24-81	P. Vanderveer
3294	2-13-81	P.O. F-48098 upon inspection, hex nuts were found to have injurious defects, also contrary to ASME SA-194 6 nuts were not marked.	Reject	3-3-81	M. Slocumb
3295	2-16-81	M-603 sh. 12, installation of pipe causing flattening of pipe (M204). 1" 1/2 coupling flattened pipe from welding (M-488).	Reject	3-20-81	J. Miller

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3353	3-25-81	J-201 Rev. 8 & Spec. G-3, locations in Control Panels QC20, IC11, & IC13 have no coating & bare metal is exposed. Peeling paint.	Std. Repair	2-18-82	C. Stevens
3354	3-25-81	Contrary to Requirements of Dwg. E-47, Panel IC47 contains Class 1E & Non-Class 1E cable not employing a 6" separation.	Rework		
3355	3-26-81	Dwg. M-488 Rev. 7, based on re-inspection of field installed "O-lets" fittings, the O-lets listed on NCR don't meet dwg. requirements.	Rework	2-13-82	M. Dewitt
3356	3-26-81	Contrary to PQCI C-1.50, 2 east expansion anchor bolts for 2-605-2-13 were installed without QC inspection of holes.	Test Rework	4-8-81 6-24-81	L. Glatz W. Smith
3357	3-26-81	M1-1 R-2.20-14325, Contrary to QCIR R-2.20 R.4, the CMTR states the mat. conforms to Spec. B211-76, but no '76 Ed. for B211 mat. leaving it indeter.	Doc. Rwk. it indeter.	11-23-81	R. MacGlashan
3358	3-26-81	M-1.13 R-2.20-144, Contrary to PQCI R-2.20 R.4, the B&W C.ofC. hold status hadn't been completed therefore making status of mat. indeter.	Doc. Rework	12-8-81	R. MacGlashan
3359	3-26-81	C-231, Contrary to Gen. Proc. Sec. II.3 of Manuf. Bulletin 08 1277-5 Star Grout, a core drilled hole was repaired w/o surf. being rough	Reject	4-10-81	J. Sercu
3360	3-27-81	Contrary to M-488 R.7, 2" 1/2 couplings have been welded to 6" run-pipe on EBB line classes for welds listed on NCR.	Use As Is	10-1-81	K. Gustafson
3361	3-31-81	Contrary to PQCI C-1.50, (4) expansion anchor bolts for 2-617-9-6 were installed w/o QC inspection of anchor bolt holes.	Test Rework	4-9-81	L. Glatz
3362	3-31-81	P.O. F-46711 R-1.00-14607, the computer mode control SBM switch has no traceability to its documentation contrary to R-1.00 Rev. 10.	Doc. Rework	4-16-81	M. Slocumb
3363	3-31-81	Spec. C-305, expansion anchors on LHCD-204-H1 has exceeded maximum embedment depth.	Use As Is	9-15-81	J. Tilton
3364	4-1-81	2-617-9-6, (6) expansion anchor bolts were installed w/o QC inspection of anchor bolt holes, contrary to PQCI C-1.50.	Test Rework	4-9-81 6-24-81	L. Glatz W. Smith
3365	4-1-81	Contrary to Spec. C-305, expan. anchors on FSK-M-1CCC-16-5-H4, FSK-M-1CCB-16-2-H10, & FSK-M-2HCD-507-1H2 exceeded max. embed. depth.	Use As Is	9-14-81	J. Tilton
3366	4-1-81	Contrary to Spec. M-204 Para. 5.2.1, a 1" nozzle coming from flued head #1220 has been bent on approximately a 20° angle.	Reject		
3367	4-1-81	Contrary to P.O.F-46194 & Specs. C-208&C-230, the lab. test report doesn't indicate the applicable ASTM design, or year nor other Spec.	Doc. Rework	5-29-81	B. DeArmond
3368	4-2-81	Contrary to Spec. C-231, the concrete forms were removed on the 6th day on Blk. wall 22 E&F. The sidewalls were left uncured indet. time	Use As Is	5-15-81	P. Vanderveer
3369	4-3-81	Dwg. E-47, Cabinet 2C47 has Class 1E & Non-Class 1E circuits with separation less than 6".	Rework	7-9-81	T. Hahn
3370	4-3-81	FMP 132-0.1.2.3, no detail is provided on these drawings for the make up of the scheme strips on states terminals.	Use As Is	6-18-81	J. Durham
3371	4-6-81	Cable 2BB6404J jacket insul. has been bunched up causing wrinkles over approx. 8" of cable near end at 2C166, quality of cable indeter.	Rework		

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3429	5-5-81	Contrary to F-50676, R-1.00-14891 the 10GA steel sheet has no P.O. # or heat # or weather proof tag.	Rework	6-22-81	M. Slocumb
3430	5-5-81	Contrary to Spec. C-306, (3) E/W bars were cut with a 10' radial distance.	Rework	6-16-81	P. Vanderveer
3431	5-5-81	Contrary to FPE-4.000 Rev. 3 Para. 6.7, the minimum bend radius for scheme cable 2AB6301H has been violated in two places.	Reject	10-9-81	R. Danbury
3432	5-6-81	Contrary to Spec. M-75-56-5, the impeller for Service Water Pump OP-75C is battered and gouged.	Use As Is	9-10-81	M. Orr
3433	5-8-81	Contrary to FPE-4.000 Rev.3 Para 6.7, the minimum bend radius for scheme cable #2BB2413A has been exceeded.	Reject	6-3-81	L. Rosemayer
3434	5-8-81	Contrary to Spec. M-204, 1" s/s valve Dwg. FSK-M-ICCB-33-2 item #365 SN: VK-23-17 has no nuclear stamp tag or ID tag.	Rework	8-19-81	R. VanDenBosch
3435	5-8-81	Contrary to E-55 & ASTM A386-78, coating on material doesn't meet the spec. requirements, making mat. indeterminate. R-1.00-14973.	Rework	5-14-81	F. Kanchwala
3436	5-8-81	FSK-M-OHCC-33-2-H2 Contrary to PQCI-C-1.50 anchor bolts for the afore mentioned hanger were installed without QC inspection of holes	Test Rework	7-2-81	K. Gustafson
3437	5-12-81	Contrary to Spec. C-230, conduit penetrations 1BJA102 & 1BJA103 were grouted using masterflow '814' grout.	N/A	6-16-81	P. Vanderveer
3438	5-12-81	Contrary to Specs. J-568 & J-233, R-1.00-14906 has documentation problems on resistance temperature detector assy - items 25 & 26.	Use As Is		
3439	5-14-81	Contrary to Spec. C-306, (3) vertical bars were cut within a 10' radial distance.	Use As Is	7-27-81	P. Vanderveer
3440	5-14-81	Contrary to Spec. C-306, one stirrup bar was cut in pilaster without Project or Resident Engineer approval.	Use As Is	8-13-81	P. Vanderveer
3441	5-14-81	Contrary to Spec. C-306, excessive bars were cut within a 10' radial distance.	loc.1 Use As Is loc.2 & 3 Rep.	12-21-81	L. May
3442	5-14-81	Contrary to PQCI C-1.50, (3) expansion anchors were installed for hgr. 2-604-15-33 without QC inspection of holes.	Test Rework	6-22-81	K. Gustafson
3443	5-14-81	Contrary to Spec. C-306, (2) E/W bars were cut in excess of spec. allowance on 599' slab.	Use As Is	7-14-81	P. Vanderveer
3444	5-14-81	Contrary to Spec. C-231, (3) North/South bars were cut within a 3' distance.	Rework	12-17-81	L. May
3445	5-14-81	Contrary to Spec. M-326, for item #1 hgr. 0-619-6-14 a full penetration weld was used to Proc. PI-A-LH w/o backing ring or gouging.	Rework	8-17-81	R. Grubich
3446	5-14-81	Contrary to Dwg. E-42A Rev.49 Sh.6, damage was done to tray sections listed on page 2 of NCR.	Rework	2-18-82	J.W. Miller
3447	5-14-81	Contrary to PQCI C-1.50, (3) expansion anchors were installed for hgr. 1-657-2-28 w/o QC inspection of holes.	Test Rework	6-22-81	K. Gustafson

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3448	5-15-81	Contrary to PQCI C-1.50 Act 2.3.8, (6) 3/4" expansion anchors were installed prior to hole characteristics being verified for C-1.50-79	Rework	7-1-81	N. Plante
3449	5-15-81	Contrary to FPE-4.000 Rev.3, the minimum bend radius for scheme cable #OBW030N has been exceeded.	N/A	11-2-81	H. Waatti
3450	5-18-81	Contrary to FCR-E-2143, the back half of the motor terminal boxes for 1&2VV-57A,B,C,D have been painted carbo-zinc green.	UseAsIs Rework	2-18-82	J.W. Miller
3451	5-18-81	Contrary to Spec. M-342, after completion of hydrotest EA-CT-23-PT-2 the cleanliness of the piping on Spools OHBC-15 line indeterminate.	Use As Is	11-4-81	G. Fulmer
3452	5-20-81	Contrary to G-33, F-50855 chemical analyses & physical tests for Type II cement received hasn't been completed on AEO-14951.	Doc Rework	7-17-81	F. Kanchwala
3453	5-20-81	Contrary to PQCI C-1.50 & Spec. C-305, anchor bolts installed prior to inspection, w/o QC verification of installers & bending. (EH-1582)	Rework	6-1-81	T. Hahn
3454	5-20-81	Contrary to DCN #2 Dwg. C-2022 Rev. 1&2, during settlement monitoring upon review of doc. received, piezometer readings were omitted.	Use As Is	9-17-81	C. Pavledes
3455	5-20-81	Contrary to Spec. A-41, painter PT-52 applied a top coat of pheno-line 305 by gun type to indeterminate # of Q Areas.	Use As Is	6-20-81	E. Dutton
3456	5-20-81	During the inspection of the A490 Type 3 bolts purchased on P.O. F-47410 (item 14) 51 of the 203 were found to be Type 1.	Reject	6-23-81	M. Sherwood
3457	5-20-81	Contrary to Dwg. E-47, terminal strips TBA1 & A2 have non-Q cables routed thru the floor with less than the allowable required separation	Rework	12-7-81	R. Schaut
3458	5-20-81	Scheme cable #2AB2312A was pulled thru slot ASC393 into MCC 2B23 w/o prior QC notification & insp. Bend radius for B11 cable was 10 1/4".	UseAsIs Rework	12-1-81	R. Schaut
3459	5-20-81	Contrary to Spec. C-304, a W12x36 tos 624'6" added for cable tray support has areas of grind marks which approach 1/8".	Std. Repair	6-17-81	J. W. Miller
3460	5-21-81	Contrary to FCR-E-2300 Dwg. E-42A R.49, 'AG063 scheduled conduit installed is indeterminate if an oversize situation exists.	Use As Is	6-24-81	J. W. Miller
3461	5-21-81	Contrary to Spec. C-230, concrete placement A(623)A' of 5/14/81 had a record test air content of 7.1%.	Use As Is	9-30-81	L. May
3462	5-21-81	Contrary to Dwg. M-481 R.19, (6) 900# weld neck raised face flanges 4" ODBC-1 yard piping scheduled 80 were installed in the vault.	Reject		
3463	5-21-81	Contrary to PSP-6.1 Art.3.3.3.a.5, Act. 2.3, fit-up, on the PW-1.00 for 2CCB-63 & 70 were bypassed during construction.	Rework	2-16-82	M. Dewitt
3464	5-22-81	Contrary to FPE 5.000 Rev.3, scheme cable #2AA05001R has violated the minimum bend radius requirements.	Use As Is	6-22-81	W. Fedorow
3465	5-22-81	Contrary to FPE 4.000 Rev.3, scheme cable #0EI005A exceeds the minimum bend radius.	Use As Is	7-9-81	H. Waattii
3466	5-22-81	Contrary to PQCI C-1.50, (4) 3/8" anchors were installed to support box 2BJ1841 byoassing three hold points.	Rework		

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3543	6-30-81	Contrary to Spec. C-306, during installation of pipe 26"-OHBC-16-H14 (619-5-32), a #11 horiz. bar was cut within 10' of 2 other bars	Use As Is	9-1-81	L. May
3544	6-30-81	Contrary to Spec. C-306, 3 vertical #6 bars were cut within a 10' radial distance.	Repair	11-24-81	L. May
3545	6-30-81	F-39296 & F-44287, Contrary to ANSI B16.36-75, the orifice flanges received on R-1.00's-11568 & 12515 were supplied with 1/2" pipe taps.			
3546	6-30-81	Contrary to PSP 6.1 Rev.6, Insp. Act. 2.3 on PW-1.00 Rev.1 M618-2-25-203, 190, & 191 has been bypassed & welds completed.	Rework		
3547	7-01-81	Dwg. M-619 Sh. 1 Contrary to M-204 material used as welded attachment for component support was not purchased from an ASME appr. supplier	Rework	9-17-81	G. Fulmer
3548	7-02-81	Pipe received on R-1.00-15195, 1 piece doesn't have the markings required in Spec. ASME SA106 or the heat # etched on the end of pipe	rework		
3549	7-02-81	M-611 sh.4, Contrary to ASME Sec. III Para. NC-3645, during install. of hgr. lugs for FW's 87,88,89 excessive shrinkage caused flattening	Rework UseAsIs	10-19-81	M. Orr
3550	7-02-81	Contrary to Spec. M-204, material used as welded attach. for component supports wasn't purchased from ASME approved supplier.	N/A	7-7-81	J. Miller
3551	7-03-81	P.O. F-50360, Material received on R-1.00-15204 doesn't have the documentation required in Spec. G-33 Rev. 13, Para. 4.0,	Doc. Rework	7-23-81	M. Sherwood
3552	7-06-81	Contrary to Spec. M-204, FW #6 on FSK-DVI-M604-13 Rev.5 was installed without QC verification or documentation of cleanliness.	Use As Is	9-4-81	L. Glatz
3553	7-07-81	Material on P.O. M-398 has been identified to be indeterminate in satisfactory completion of the Qual. Test Rqmts., also NPV forms written to wrong rev.	DocRwk.	2-1-82	R. MacGlashan
3554	7-07-81	Hgr. FSK-M-1FCB-46-1-H1 has a clearance of approximately 5/32" between the pipe and the PGS 104 restraint.	Rework	10-17-81	L. Glatz
3555	7-09-81	FW #28 on P-2.10-604-13-4 was installed without QC verification or documentation of cleanliness, contrary to Spec. M-204,	Use As Is	8-3-81	L. Glatz
3556	7-08-81	Contrary to Spec. G-33, the proper documentation hasn't been supplied by the vendor for material received on R-1.00-15254	Doc. Rework	7-23-81	J. Mattioli
3557	7-08-81	Contrary to Spec. G-33, the proper documentation hasn't been supplied by the vendor for material received on R-1.00-15237.	Doc. Rework	7-17-81	J. Mattioli
3558	7-10-81	F-47542, contrary to Spec. C-306, the G-321-D wasn't provided for the material received on R-1.00-15255.	Doc. Rework	7-22-81	J. Mattioli
3559	7-14-81	The test required on P.O. F-51726 for material received on R-1.00-15470 have not been completed.	Test Rework	8-28-81	F. Kanchwala
3560	7-14-81	Contrary to Spec. G-27-WQ-1 Rev. 12, welder P-1060 qualified in P1-A-LH .0625 to .8130 performed welding on hgr. lugs 1 1/2 thickness.	Rework	9-23-81	R. Amos
3561	7-14-81	Contrary to PSP 6.1 Rev. 6 Para 3.3, FW's for Spools 1HBD-485-S-652-1-1 & 1HBD-489-S-652-1-1 were welded without any QCI's.	Use As Is		

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3581	7-30-81	F-51887, contrary to G-33, no statement of conformance was received for material on R-1.00-15402.	Doc. Rework	8-24-81	M. Sherwood
3582	7-31-81	RW-1.10-21, there is insufficient clearance at breaker-harness connection betw. lugs & breaker supports at 1B&2B24 and 1B&2B23.	Rework	10-14-81	H. Stevens
3583	7-31-81	Contrary to Dwg. E-36 Rev.55, 1BKA040 isn't routed to INP41B nor to the proposed location of control box INP41B.	N/A	11-3-81	S. Childers
3584	8-3-81	Contrary to Spec. J-255, no radiographic film has been received on the valves received on R-1.00-15625, tag #1PV-3100A&B-1 & 2PV3200A&B-1	Doc. Rework	12-8-81	R. MacGlashan
3585	8-3-81	Contrary to Spec. G-27 WQ-1 Rev.12, Hgr. Sk. 1-631-1-1, welders P982 & P1129 were not qualified for the thickness of mat. installed.	Rework	9-10-81	J. Herbert
3586	8-4-81	Contrary to Spec. C-306, four horizontal bars were cut within a 10' radius on the south face of "B" Col. line wall.	Rework	10-13-81	R. Huron
3587	8-4-81	F-50628 R-1.00-15388, no G-321-D was received contrary to Spec. M-305, also heat code on documentation differs from on material.	Doc. Rework	9-3-81	J. Mattioli
3588	8-4-81	Contrary to Spec. C-88 SCN-11002, well #COE-10 was disconnected & reconnected without written approval from contractor.	Use As Is		
3589	8-4-81	Spec. M-204, valve 2 1/2" CCC-GT-L (404-1-28) was installed and didn't have Act. 2.8 signed by QC prior to closure.	Use As Is	9-4-81	L. Glatz
3590	8-4-81	Contrary to PQCI P-2.10 Rev.8 Act 2.1, QC didn't verify preheat requirements on hgr. FSK-M-1HCC-63-1 H3 welded to a 4" thick column.	Use As Is	2-22-82	K. Gustafson
3591	8-5-81	Contrary to E-42B Sh.342, type 25 conduit support EC-2-37-143 is located 9 1/2" from an HVAC support attached to linear plate.	Use As Is	10-29-81	J. Miller
3592	8-5-81	Contrary to Essex Group Letter, cable 2AD1107A has a bent radius of .7" in tray 2AJF04 rendering quality of cable indeterminate.	Reject	8-31-81	R. Danbury
3593	8-6-81	Contrary to Dwg. E-650 Sh.3, 2 I38 cables scheme #'s 2BQ175B and 2BQ175D violate the bend radius where cables enter tray 2BVA06.	Reject	9-28-81	R. Danbury
3594	8-6-81	P-1.30-648-7-1, valves 3"HCB-GBVD 448-2-006 & 3"HCB-GBVDP 448-2-004 installed without Act. 2.8 signed by QC prior to final closure.	Use As Is	9-11-81	C. Fugate
3595	8-6-81	Contrary to Dwg. E-42A requirements, raceways, listed on NCR, embedded on the 593'-6" floor slab of Cont.1 have been flooded at times.	Std. Repair	10-1-81	J.W. Miller
3596	8-7-81	C-8.50-758, contrary to A-41 Para. 11.1, verification of surface preparation by QC prior to finish linear plate coating was not made.	Use As Is	10-21-81	E. Dutton
3597	8-7-81	Contrary to Dwg. E-42B sh. 342, a conduit support for 2ALA015 and a tubing support for 2BVA014 is within 9" of a Type 25 support.	Use As Is	10-29-81	J. Miller
3598	8-10-81	Contrary to Spec. C-306, during installation of pipe hanger 3"-OHCC-22-H1, two #11 horiz. bars were cut within a 10' radial distance.	Use As Is	12-10-81	L. May
3599	8-13-81	Hanger 1-657-39-28 welding of Item 1 cannot be visually examined per Spec. requirements of M-326 and G-27.			

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2 NRC NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
3619	8-21-81	MCAR 52, Indeterminate design criteria for Westinghouse Gate Valves.	Use As Is	11-6-81 9-1-81	M. Orr G. Fugate
3620	8-24-81	Contrary to Spec. M-204, spool OHBC-19-S619-67 the section of pipe betw. FW 162 & flange at B.F.V. 419-028 has been damaged.	Use As Is	1-23-82	R. Bersh
3621	8-22-81	FSK-M-2CCB-15-5, due to construction activity, FW 3 has been bent, FW 3&4 have several with pinholes, & 4 isn't uniform in size & width.	Rework		
3622	8-24-81	1BA0602Y, 1BQ427C, D.E.C.H cable jackets have been damaged during installation rendering the quality of cable indeterminate.	STD. Repair	10-7-81	S. Revich
3623	8-24-81	Contrary to Spec. C-24, housing cover plates and flanges received on R-1.00-15443 do not meet the code.	Use As Is		
3624	8-24-81	Spec. M-326 requires the sum of clearance measured on opposite sides of pipe not be less than 1/16", hgrs. 1-603-3-16 & 24 are unacceptable.	Rework	11-2-81	K. Gustafson
3625	8-24-81	Contrary to PQCI P-2.10, QC didn't verify preheat requirements on hgrs. FSK-M-1HCB-267-1-H7, FSK-M-2CCB-6-1-H1, and FSK-M-1CCB-11-1-H1.	Use As Is	2-25-82	J.A. Brownell
3626	8-25-81	E-37 Rev. 48 calls for cables 1AW045K to be routed thru ASL900, contrary to this, 1AW045K is routed thru ASL897.	Rework	11-6-81	R. Danbury
3627	8-25-81	Contrary to Spec. C-305, no documentation can be found, but torque paint has been applied to anchors used to support junction box 1BJ1026.	Test & Use As Is	11-17-81	S. Childers
3628	8-25-81	Contrary to PQCL C-8.50, Amercoat 90 batch #6107903/6106185 was mixed & applied in Q areas w/o the daily verification by a QCE.			
3629	8-26-81	QBB6804J, Dwg. E-37 routes cable thru tray 2BFJ28, contrary to this tray is not installed.	Rework	11-23-81	R. Danbury
3630	8-25-81	Contrary to Dwg. E-37 & FIE 3,300, cables 1BFW033H, 1BFW089Q routed wrong, conduit 1BC093 reworked without a card issued.	Use As Is		
3631	8-26-81	Contrary to PQCI P-1.30 Act. 2.8; valve 2MO-3968-A(439-3-005) betw. Fw 9,10,10R1 on Dwg. M-633-3 was installed prior to IR being issued.	Use As Is	9-28-81	G. Fulmer
3632	8-26-81	Dwg. E-37, E-42A, Cables nor routed thru vias as indicated on dwgs; cables snapped during pulling; unsupported airlines exceeds max. dist.	Use As Is		
3633	8-28-81	Contrary to Dwg. E-37, cable pulled thru different route, and cable 2B1025B has no criteria for maximum bend radius & pull tension.	Use As Is	2-4-82	D. Herwick
3634	8-28-81	F-51264, no Statement of Conformance was received on R-1.00-15628 leaving the status of the material indeterminate.	Doc. Rework	9-4-81	J. Mattioli
3635	8-31-81	Cable 1BB5411H, two cables exist with the same identification, contrary to Dwg. E-37.	Rework	1-8-82	R. Danbury
3636	8-31-81	Contrary to Spec. M-204, leak chase material welded to flued heads at Pene. 12& 22-55 have no material identification.			
3637	8-31-81	Spec. C-88, the gravel packing operation for well #G-3 began 8-27-81 and hasn't been completed as of this date.	Use As Is	10-8-81	R. Bennett

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3638	9-1-81	Contrary to Spec. C-208, August 1981 Monthly Users Test, the concrete sand & pea gravel were measured with results of 0.7 & 0.8%.	Use AS Is	10-21-81	W. DeArmond
3639	9-1-81	P.O. F-51264, statement of conformance hasn't been submitted by the vendor for material received on R-1.00-15708.	Doc. Rework	9-22-81	F. Kanchwala
3640	9-1-81	Contrary to Dwg. E-37, scheme cables weren't pulled through via 2ATF13 due to field use of uncontrolled DCN #769.	Doc. Rework	10-9-81	H. Tuttle
3641	9-1-81	Contrary to PQCI C-5.10 & Pl-Stud Welding, a IR wasn't initialed & act.'s 2.1, 2.2, & 2.3 weren't verified for mounting studs on 1C&2C043.	Use As Is		
3642	9-1-81	Contrary to Peabody Testing Proc. 3.21.A.1, Magna Magic BPC #M287 on recalibration exceeded 400 emperes, therefore inspection indeter.	Rework		
3643	9-2-81	Contrary to Dwg. E-37, cable 1AA0505R was pulled through via 1ASL934 by the use of uncontrolled DCN #774.	Doc. Rework	11-2-81	H. Tuttle
3644	9-2-81	P-1.30-657-2-3, contrary to Spec. M-204, strainer 1YS 5709 C was found to be missing N stamp tag.	Rework		
3645	9-2-81	Contrary to PQCI P-1.30, valve 2M0-3968-B(439-3-004) on Dwg. M633-3 was installed prior to IR being issued and Act. 2.8 inspection.	Use As Is	10-2-81	J. Brownell
3646	9-2-81	Contrary to P.O. F-52944, the required tests haven't been completed for the masterflow 713 Non-Shrink Grout & SofC received on AEQ-15979.	Rework	12-1-81	F. Kanchwala
3647	9-2-81	Contrary to PQCI P-2.10, QC didn't verify preheat requirements on hgr. PSK-M-1HBC-237-1-AH13 welded to a W36 x 300 beam.			
3648	9-3-81	During pullback and coil, jacket of cable 2AB5526A was found to be damaged in unscheduled junction box.	Reject	1-26-82	R. Danbury
3649	9-3-81	P.O. F-52720, 50 nuts were found to be ASTM A-194 Gr.2H, and the CofC received on R-1.00-15818 references A-325.	Doc. Rework	10-8-81	M. Sherwood
3650	9-3-81	Contrary to Spec. C-306, four horizontal bars were cut within a 10' radius.	Use As Is	11-2-81	L. May
3651	9-3-81	Contrary to Dwg. C-2022 Rev.2 DCN 5, no readings for settlement monitoring were taken for months April and May of 1981.	Use As Is	2-18-82	C. Paveledes
3652	9-3-81	Contrary to Spec. M-326, hgr. 1-657-2-16 mark #3-1HBC-217-H1 Item 10 tube steel a 1/2" fillet is welded without prior Project Eng. approval.			
3653	9-4-81	Contrary to PSP G6.1, on Dwg. M618-3 FW 13C1 inspections were bypassed and joint was completed without AI concurrence.	Use As Is	2-26-82	D. Postma
3654	9-4-81	Cables 2AY001F, 2AY1103A, 2AY1111A, 2AQ158BQ & BR, 2AQ335, 336, 337, 338A, 339A, & 440A were routed thru wrong vias, contrary to Dwg. E-37.	Use As Is		
3655	9-4-81	Cables listed on NCR are a small portion of Q cable coils supported with 1/8" ty-wraps, contrary to F.P.E. 4.060 Act. 6.6.1.	Rework	10-7-81	T. Hahn
3656	9-4-81	Contrary to Spec. C-306, 1 horizontal and 1 vertical bar were cut exceeding the spec.	Use As Is	10-27-81	L. May

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3657	9-4-81	Contrary to Spec. M-326, Sect. B-B on hgr. sketch 0-619-4-31 shows additional welds not approved by Project Engineering.	Doc. Rework	1-7-82	N. Chapman
3658	9-4-81	F-51607, contrary to Spec. G-33, the test performed on the material received on R-1.00-15501 didn't meet the requirements.	Reject	11-30-81	F. Kanchwala
3659	9-4-81	Contrary to FPE 7.000 Rev.8, paper insulation next to wire strands isn't being stripped clean & some wires were crimped.	Rework	2-23-82	C. Stevens
3660	9-4-81	Contrary to Spec. M-132, theres no G-321-D or documentation received on R-1.00-15856, also requirements on Spec. & P.O. don't agree.			
3661	9-8-81	Contrary to Req. AAPD-G-6.1 Rev. 6 Valve (P&ID-452-001) between FWs 4&5 was installed without minimum QC inspection	Rework	12-2-81	D. Postma
3662	9-9-81	Bend radius of cable 2BY3211 A-2 is less than vendor's requirements and doesn't meet FPE-7.000 requirements.	Rework	10-21-81	S. Revich
3663	9-10-81	Reinforcing steel purchased on F-52822 R-1.00-15974,75 do not have all the correct documentation, leaving the status of mat. indeter.	Reject	10-13-81	M. Sherwood
3664	9-10-81	Contrary to Dwg. E-47 Para. 5.10, systems have been turned over to CPCO for preoperational testing w/o the required color codings.	UseAsIs Rework		
3665	9-10-81	Contrary to G-27, a type 14 conduit support for IBC129 was attached to column without inspection of preheat.	UseAsIs Repair	12-22-81	J.W. Miller
3666	9-10-81	Contrary to PQCI P-2.10, QC didn't verify preheat requirements on hgr. FSK-M-2CCC-16-3-H3 which was welded to 3" thick embedded plate.	Use As Is		
3667	9-10-81	Contrary to Spec. J-207, no QVD pkg. has been received on cabinets with tags 1C & 2C43 and 1C & 2C44.	Doc. Rework	10-14-81	R. McGlachan
3668	9-10-81	F-52204, contrary to Spec. M-215, the heat # stamped on the tee is 4W4527 & the CMTR references heat # W4527 received on R-1.00-15948.	Doc. Rework	10-6-81	D. Randall
3669	9-11-81	Contrary to FIE-4.100 Para. 4.3, cable OAB4514M ends aren't sealed and layed in water on the floor.	Rework	9-28-81	D. Herwick
3670	9-11-81	Dwg. E-42A, cable 1BD2201B has rubbed against a sharp edge on box 1BJ524 causing a large gouge in the outer insulation.	Use As Is		
3671	9-11-81	Contrary to Spec. E-55, tray 2ALC11 has a rung missing, thus violating the 6" center spacing.	Rework	10-8-81	J.W. Miller
3672	9-11-81	Dwg. M-481 states sch. 160 class II pipe; contrary to this class III pipe was installed. Spool # 1FCC-3-S610-6-2.	Rework		
3673	9-15-81	2BI086B, 2BI094A, 2BI-95A, & 2BI1016B were routed from BTG01 thru BTBo6 to BTBo5, contrary to Dwg. E-37 and DCN #761.	Use As Is	11-17-81	R. Schuat
3674	9-15-81	Contrary to Spec. M-204, FW 9 & 10 on Spool 2HBC-25-S633-3-2 was welded without verification of cleanliness by QC.	Use As Is	10-5-81	G. Fulmer
3675	9-15-81	Contrary to Dwg. E-650 sh.3, cable 2BQ175A violates the required bend radius where the cable emerges from conduit 2BG047.	Reject	10-5-81	R. Danbury

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3676	9-15-81	Contrary to PSP G-6.1, Dwg. M617-15 FW62cl open butt (FPG) weld inspections were by-passed & joint completed w/o AI concurrence.	Use As Is	12-31-81	E. Kalembo
3677	9-15-81	P.O. F-52130, a statement of conformance hasn't been submitted by the vendor for material received on AEO's 15761 and 15802.	Doc. Rework	10-6-81	J. Mattioli
3678	9-15-81	Contrary to Spec. PT(SR) ASME, QC doesn't have doc. of acceptable NDE Rpt. for linear indication prior to install. of hgr. roll plate.	Reject	11-24-81	E. Kalembo
3679	9-16-81	Contrary to Dwg. E-37, cables 2AQ435C, 436C, 437C, 438C, 439C & 440C won't fit into 2AJF002, & tray end not stenciled per Dwg. E-625.	Rework	2-19-82	H. Tuttle
3680	9-16-81	Contrary to Dwg. E-42A Rev.51 Sh. 18G, slot 1BSL946 has a 3 x 1 3/8 x 1/2 angles typical for two sides.	Doc. Rework	12-15-81	J. W. Miller
3681	9-16-81	FW 45 on Spool 2CCB-26-S611-7-1 is welded at a 180°, or vertically down, Installation on flued head 2Z-28, contrary to Dwg. M611 sh.7.			
3682	9-17-81	Contrary to Spec. M-326 Para. 4.2.4 Rev.6, items 1&2 on hgr. 2-619-1-4 were welded across flange without prior Project Eng. approval.	Use As Is		
3683	9-17-81	Cables OAB4510P, OAB4511K, OAB4520E, IAG1113B, IAG1108B, IAA0012A, IAST013B are damaged due to burns of outer jacket.			
3684	9-18-81	Contrary to FPE-4.000 Rev.4, unnumbered cable from Q tray 2AJB22 has cable ends not taped, stripped, & left hanging w/o terminating.	Rework	2-24-82	S. Revich
3685	9-18-81	Contrary to Spec. G-27 Rev.15 & PQCI P-2.10 Rev.10 Act. 2.1, QC didn't verify preheat requirements on hgr. 0-614-8-39.			
3686	9-18-81	Dwg. M-639-13, contrary to form 84 Mech. of Spec. G-27 Rev.15, lugs 102-114 were welded using Pl-A-LH Rev. 2.			
3687	9-18-81	Contrary to Dwg. E-42A Sh.10A, a 4" pipe is being supported by conduits 1BJA102 & 103 by unistrut and threaded I rod.	N/A		
3688	9-18-81	Contrary to Dwg. E-37, cable 1AQ432C pulled thru via 1AFM07 & cable 1AMU085D has vias AJT14 & 15 changed by uncontrolled DCN #755.	Doc. Rework	11-2-81	H. Tuttle
3689	9-21-81	Contrary to Spec. C-306, five horizontal rebars were cut exceeding the spec. requirements.	Repair		
3690	9-21-81	Contrary to Spec. C-230, a concrete slump of 6" with a back up of 6 1/2" was recorded on ticket #46862 at the end of Pump line test.	Use As Is	11-17-81	C. Paveledes
3691	9-21-81	P.O. F-51859, a statement of conformance hasn't been submitted by the vendor for material received on AEO-15897.	Doc. Rework	9-30-81	F. Kanchwala
3692	9-21-81	P.O. F-52653, a statment of conformance hasn't been submitted by the vendor for material received on AEO-15871.	Doc. Rework	9-30-81	F. Kanchwala
3693	9-21-81	P.O. F-50893, referenced documentation hasn't been received for the material received on AEO-15892.	Doc. Rework	10-19-81	F. Kanchwala
3694	9-21-81	Contrary to Spec. E-11 Rev. 7, a G-321-D with shop inspectors report hasn't been recieved for material received on AEO-15594.	Doc. Rework	10-15-81	F. Kanchwala

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3695	9-22-81	Cable 2BB6401M has cable jacket damage with copper showing thru white conductor.	Rework		
3696	9-23-81	Contrary to Dwg. M-480 & M-342, pipe between FW 30633 was cut and level D cleanliness wasn't met; PW-1.00-FSK-M-1HBC-4-2-30 & 33.	Use As Is		
3697	9-23-81	P.O. F-52642, no certificate of conformance was received for material on R-1.00-15784.	Doc. Rework	10-15-81	M. Sherwood
3698	9-23-81	P.O. F-51401, contrary to Spec. G-33, no CMTR was received on R-1.00's-15643 and 15644.	Doc. Rework	10-27-81	M. Sherwood
3699	9-23-81	IAS012A-2b, contrary to FPE-7.000, the bend radius of the blue wire at the lug is less than vendor requirements.	Rework	11-2-81	R. Schaut
3700	9-23-81	LAG1107A-2, there were no ID tags on the terminal strip and wire ID not identified per E-900 Rev. 53.	Rework	1-8-82	R. Schaut
3701	9-23-81	C-2.00-49, contrary to PSP G-3.2, well #COE-10 has been disconnected without a conditional release or disposition to NCR 3588.			
3702	9-23-81	E-6.1-223 2C30, contrary to Spec. J-202, project dwgs. where the questionable ITE relays are being used, have inconsistent term. #'s.			
3703	9-23-81	Contrary to E-42 Rev. 51, E-47 Rev. 2, FIE-4.100, FPE-4.000 & 7.000, cables pulled & terminated don't meet requirements. See NCR.	It. 3N/A It. 1 Rework	1-7-82 It. 2	D. Preslar Use As Is
3704	9-24-81	Contrary to FPE 7.000 & exxes letter, the black & white conductor's bend radius of cable 1BB5629B are less than the minimum required.	Doc. Rework	10-14-81	W. Federow
3705	9-24-81	Contrary to Dwg. E-47 Rev. 2, cables 2BG1213A&F & 2BG1702C&M have been pulled w/o markings or identified on card or E-37 Rev. 48.	Use As Is	1-11-82	C. E. Lemons
3706	9-25-81	Contrary to PQCI E-5.0, in panel 1C35 theres no ID tags, strips, or schemes to enable the verification of term. to the point in equip.	N/A	10-27-81	R. Schaut
3707	9-28-81	C-1.60-331, contrary to Spec. C-231, 3 East-West bars were cut within a 10' radial area.	Use As Is	12-8-81	L. May
3708	9-30-81	Contrary to Spec. C-305, hgr. 2-619-1-2 has 4 5/8" expansion anchors installed w/o length codes & no readings for Ultrasonic testing.	Test & Rework		
3709	10-1-81	Cables 2BB5609J and 2BB5609K were pulled without Q.C. inspections.	UseAsIs Rework	2-22-82	E. Rule
3710	10-1-81	During cables pulling it was discovered that level switch box 1LSHH-9406 contained water, several terminals & a fitting were corroded.	Rework		
3711	10-1-81	Contrary to E-42, E-47, FIE-4.100 and FPE-4.000, cables pulled and terminated don't meet the requirements. See NCR.	Rework	2-25-82	S. Revich
3712	10-1-81	Contrary to Spec. C-306, excessive rebar was cut during installation of hgr. 10"-2HBC-100-H4 (619-6-10).	Std. Repair	12-17-81	L. May
3713	10-5-81	P.O. F-52822, 1 of 4 bundles of #5 rebar, received on R-1.00-16034, has no tag, leaving the status of material indeterminate.	Doc Rework Reject	10-26-81	M. Sherwood

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3714	10-5-81	Contrary to Spec. C-305, seismic tray support (750-60) one nut isn't fully engaged on bolt, didn't meet min. distance, 2 has no washers.	Rework		
3715	10-6-81	P.O. F-51582, a statement of conformance hasn't been submitted by the vendor for material received on AEO-15930.	Doc. Rework	12-18-81	F. Kanchwala
3716	10-6-81	Contrary to Spec. C-305, the C/C spacing of the middle two anchors of MCC's 1B89, 1B90, 2B89 and 2B90 is 4 3/4".	Use As Is	11-24-81	W. Fedorow
3717	10-7-81	P.O. F-52822, no tag was found on one bundle of four of reinforcing steel received on R-1.00-16124.	Doc Rework	10-26-81	M. Sherwood
3718	10-9-81	P.O. F-53436, the required tests haven't been completed for the Masterflow 713 NonShrink Grout received on AEO-16208, also no SofC.	N/A Rework	2-12-82	F. Kanchwala
3719	10-9-81	Contrary to Spec. C-306, 5 vertical rebar were cut, 3 of the 5 rebar were already documented on NCR 3394 & dispo. Use As Is.	Use As Is	12-10-81	L. May
3720	10-9-81	Contrary to Spec. C-231, one #11 bundle bar was cut without Project or Resident Engineering approval.	Use As Is	12-8-81	L. May
3721	10-9-81	Contrary to Spec. C-208, no cylinders were cast on Pour Y(630)N, ticket #39676 and Pour Y(630)O ticket #39688.	Use As Is	2-18-82	C. Paveledes
3722	10-9-81	Contrary to Spec. M-488, 1/2 couplings of FW's 106, 107, 108 & 109 had been ground on the I.D. after boring, leaving integrity indeter.			
3723	10-13-81	Contrary to Spec. M-204 Rev.15 Para. 4.1.3, subject strainer 2YS5711B was found to be missing "N" stamp tag.	Rework		
3724	10-13-81	Contrary to Dwg. E-42A sh.2, A14 cable 1BA0602E has rubbed against sharp edge on tray 1BB11 causing extensive gouging.			
3725	10-13-81	Contrary to Spec. C-230, the air content was recorded @ 9.3% with a retest @ 8.3% for C-1.31-172.	Use As Is	1-4-82	C. Paveledes
3726	10-14-81	P.O. F-32338, CW-1.00-285, Shield rings, in-process inspection of MK-#A210-1&2, and A211-1&2 for rework has weld defects at segments.	Use As Is	12-15-81	N. Plante
3727	10-14-81	Contrary to PSP-G-6.1 3.3 & PQCI P-2.10, bgr. 2-617-7-18 has a full penetration groove weld made bypassing QC hold points.	Doc Rework	2-19-82	R. Grubich
3728	10-15-81	Contrary to Dwg. E-37, cables 0BB6803P and 1BB5607F have duplicate identification.	Rework	1-14-82	R. Danbury
3729	10-14-81	Contrary to R-1.00 & ASME Sec. III, F-28655 was issued as Non-Q & released to field w/o being QC inspected, FMR written as Q material.			
3730	10-16-81	Contrary to PSPl.1 para 3.3.1, there is no record of inspection on cables 1A11018 A,B,& C.	Rework	1-5-82	C. Lemons
3731	10-19-81	P.O. J-249 Rev.0 states, Qualif. of items 1.1, 1.2, & 1.3, to meet spray chemistry reqm't. Contrary to this no report has been received.	Doc Rework		
3732	10-22-81	Contrary to Dwg. E-42 Sh.13A there was no gasket used on hole repair for box 2JB1792 & 1BJ467. Also Partitions have gaps larger than FCN 1427 specifies.	UseAsIs Rework	1-8-82	C. Bawtinheimer

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3733	10-22-81	J-Box 2AJ1395 installed as to prohibit the inspection of the box and bolts attaching box to supports.	N/A	10-23-81	L. Hall
3734	10-23-81	Per Spec. C-208 and ASTM Standards, Flyash specific surface testing exceeds maximum variation requirement.	Use As Is	1-28-82	B. DeArmond
3735	10-23-81	P.O. F-20159, CMTR for AEO-3191 is for 76 pcs., the MRR shows receipt of 100 pcs. Vendor can't certifi. the remaining peices.			
3736	10-23-81	Cable 2AG1105A found damaged at J-Box in conduit 2AFC011, consisting of tear in outer jacket & conductor sheath removed. Revealing conductor.	Reject	1-26-82	R. Danbury
3737	10-23-81	C-70, no documentation received from the vendor for material received on R-1.00-16072.			
3738	10-23-81	Dwg. 1-619-14-24. Material on cert. material test report for heat code doesn't match material in field, making material unacceptable.	Rework		
3739	10-23-81	Contrary to Spec. M-204, flued heads 1Z-11, 1Z-8, 1Z-4, & 1Z-6 have no mat's identification, leaving quality of mat'l indeterminate.			
3740	10-27-81	R-1.00-16325. Contrary to C-24 Rev.3, there was no shop inspection performed, and no G-321-D has been furnished.			
3741	10-27-81	Contrary to Dwg. E-42A sh.2, A14 cable 2BA0602E has a cut in the outer insulation, leaving conductor visible.			
3742	10-26-81	Contrary to Spec. C-306, hanger 2-619-4-111 has three grouted bolts with no traceability.	Rework		
3743	10-26-81	Contrary to Spec. C-306, one horizontal rebar was cut on north wall exceeding minimal radial distance from next cut.	Rework	12-16-81	L. May
3744	10-28-81	Contrary to Spec. C-230, foreign material was found in and around the aggregate compartments.	UseAsIs Rework	1-28-82	B. DeArmond
3745	10-27-81	Spec. C-306, contrary to Appendix D Section 1.0, main reinforcing bars were cut during construction.	Repair		
3746	10-28-81	P-1.10-FSK-DVI-M-604-17-1. Contrary to ASME Sec. III, Para. 2151, heat # on mat'l. used is non-traceable, making mat'l. indeterminate.	Rework	1-5-82	D. Smith
3747	10-28-81	Contrary to Dwg. M-488 Rev.8, half couplings have "f" bore diameters not meeting specified requirements.	Use As Is	2-12-82	M. Orr
3748	10-29-81	Cable 281061D shows damage between 3326 and 3328 foot marks, damaged section is within routing of BTB041.	UseAsIs Rework	2-19-82	E. Rule
3749	10-29-81	Contrary to Spec. C-230, a slump of 8 3/4" with a back up of 7 1/2" was recorded on ticker #47782 truck #12.			
3750	10-30-81	Contrary to Spec. C-88 Rev. 11, temporary casing for well #F-2 wasn't wasn't removed & bottom elev. of casing is at +620.6.	Use As Is	11-24-81	R. Bennett
3751	11-03-81	Contrary to Spec. M-93, no readings or exams were taken on Tank 2T-60 within the required time frame.	Use As Is	11-18-81	P. Vanderveer

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3752	11-3-81	M-54, during T/O review of AEO-5385, the doc. for heat exchanger for RB spray pumps, it was found that they aren't listed on code data shts.			
3753	11-3-81	Contrary to Spec. M-125C, the disc for gate valve P&ID #410-021 has scratches & minor imperfections in the seat contact area of the disc	Use As Is	1-8-82	M. Orr
3754	11-4-81	Contrary to Spec. M-204, Flued head 12-41 on Dwg. FSK-MPC-1-1005 R.2 has leak chase material installed without any identification.			
3755	11-6-81	Contrary to Spec. C-306, 3 horizontal bars were cut on the south face wall of Room 421 exceeding minimum radial distance.	Use As Is	12-23-81	L. May
3756	11-6-81	Contrary to PQCI P-2.10, P-2.10-618-1-34a item 3 has a gouge in the upper N/E corner approximately 3/32"x3/32"x5/8".	Rework	12-7-81	J. Brownell
3757	11-6-81	Contrary to PQCI P-1.30, valve 404-1-064 dwg. M-604 sh. 12 was installed without Act. 2.8 inspection.	Use As Is	12-30-81	C. Cross, Jr.
3758	11-6-81	No Nuclear Symbol Code stamp is installed on valve 404-1-083 & I.D. cannot be verified as per M-204 Para. 4.1.3.	Rework		
3759	11-6-81	Contrary to PSP G6.1 Rev.6, Act. 2.2 of PQCI P-2.10 inspection was bypassed by a CQCE for welding of items 15-33 and 15-1.	Use As Is	2-2-82	L. Adkins
3760	11-9-81	C-1.3.-184, contrary to Spec. C-231, the 4 blockouts between J & K @ 7.4" are inaccessible for concrete surface temperatures.			
3761	11-10-81	M-604 sh. 12, valve 404-1-006 was installed without Act 2.8 of P-1.30 inspection being documented, therefore valve is indeter.	Use As Is	12-3-81	C. Cross, Jr.
3762	11-11-81	M-614 sh.8, contrary to Spec. M-204, 3"-OHCC-22 near FW #25 has an indentation approximately 1"x2" and 1/16" deep at center.	Repair		
3763	11-11-81	Cables 2BB2439A&B, 2BB2440A&B, 2BB2443A&B, 2BB5611A&B, and 2BB5622A&B were installed without Q.C. inspection.	Rework	2-24-82	T.A. Perry
3764	11-11-81	E-21 cable 2BRW174E was pulled out of pull box BJ1238 by four craftsmen and the pull tension is unknown.	UseAsIs Rework	2-26-82	C.E. Lemons
3765	11-11-81	Cabinets 1C&2C41, 1C&2C42 & 1C&2C45 no washers were installed and the diameter of the oversize holes exceed the AISC spec requirements			
3766	11-11-81	Contrary to Dwg. E-47, cables listed on NCR have been pulled thru an unmarked raceway (cable tray).	Use As Is	2-23-82	J.C. Miller
3767	11-11-81	E-51846 R-1.00-15965 tags 1PI-2151 & 2PI-2251, contrary to Spec. J-241, no seismic qualif. reports have been submitted to jobsite.	Doc. Rework		
3768	11-11-81	Spec. J-232 R-1.00-16333, the engineering verification documents have only a code 3 approval.	Use As Is	1-14-82	B. MacGlashan
3769	11-12-81	No Nuclear Symbol Code stamp is installed on valve 404-1-078 dwg. FSK-M-2HCC-75-1 and I.D. cannot be verified.	Rework		
3770	11-16-81	Dwg. M-614 sh.8. Valve doesn't meet mfg. specified minimum wall thickness, making valve unacceptable.			

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3771	11-16-81	P-1.30-FSK-M-1HCB-115-1-1. Valve installed without activity 2.8 signed by Quality Contril prior to final closure.	Use As Is	12-14-81	L. Glatz
3772	11-17-81	M-614-10-146 & 147. Heat from weld process caused distortion in base metal, leaving condition indeterminate.			
3773	11-16-81	Contrary to Spec. C-306 Rev. 8, cut bar does not meet specified minimum radial distance.	Use As Is	1-12-82	L. May
3774	11-17-81	P-2.10-2-613-4-8. Welds were made without QC verification of fitup.	Rework	1-7-82	K. Gunser
3775	11-17-81	2BV023H-2. No acceptance criteria available for cable jumpers.			
3776	11-17-81	Contrary to spec. C-306 Rev. 8, 2 bars were cut exceeding minimum radial distance.	It.2 Rwk It.1UseAsIs		
3777	11-24-81	Contrary to ASME Sec. III NC-3645, heat during the welding process caused approx. 3/16" flattening of the elbow on Sp OHCC-51-S614-10-5			
3778	11-24-81	Neither heat #'s on lugs for hgrs. M614-8-12 and 614-8-13 are traceable to a certified material test report.	N/A	11-30-81	W. Smith
3779	11-24-81	E-1.0-1AJB066, on supports FSK-E-617-196 & FSK-E616-344there is no approval for the splice connections for PI001 C41 unistrut.	Repair		
3780	11-24-81	Motor vlaves 2MO-1111, 101B & 1120B purchased on P.O. M-123R have terminal strips that are enviromentally unqualified.			
3781	11-24-81	Contrary to PQCI CW-1.00, R.E. Karcher, P0073, welded on instrument ation supports without being qualified to procedure Pl-A-LH.	Use As Is	2-25-82	R.F. Wellington
3782	11-24-81	P.O. F-54203 R-1.00-16479, contrary to Spec. G-33 requirements, no statement of conformance was received on material.	Doc. Rework	12-18-81	M. Sherwood
3783	11-25-81	Contrary to Spec. M-204, final configuration of the piping installation is incorrect according to FSK-M-1HCB-116-1 Rev. 2.	Rework		
3784	11-30-81	During pulling of cable 1AB2311A an area of damage was discovered consisting of gouges to depth of 3/32" in outer jacket.	N/A	12-30-81	C. E. Lemons
3785	11-30-81	C-1.31-155, contrary to Spec. C-230, a slump of 9 1/2" was recorded on ticket #46080 at the end of Pumpline Test.	Use As Is	2-12-82	C. Pavledes
3786	12-2-81	Contrary to Spec. M-204, FW 36 documented on QCIR M611-5-36 was found to have insufficient penet. on inside of half-coupling.	Rework	1-6-82	R. Amos
3787	12-2-81	Dwg. E-37, scheme cables 2AB5521A&B, 2AB2343A&B, 2AWQ68H & 069H were installed in trench duct without stenciling & duct also rusted			
3788	12-3-81	Contrary to Dwg. E-42A, several Q tray supports have been installed w/ less than 2" clearance from MCC's 1&2B89, 1&2B43, 1&2B56, & 2B24.			
3789	12-4-81	Cables have been terminated into EPA's inboard terminal boxes, the EPA's are on NCR 1576 with cond. release granting term. of cables to the outboard terminal box only.	Rework	1-21-82	C. Lemons

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3790	12-3-81	Contrary to Spec. M-204, Dwg. FSK-M-1HBC-57-3 Rev. 4 w/ redline P-3942 shows drain orientation to be S/W, actual instal. N/W.	Doc Rework	12-30-81	L. Glatz
3791	12-4-81	Contrary to PSP 6.1, valves (403-2-066 & 403-2-019) were installed w/o documented insp. of internals free of damage required by P-1.30	Use As Is	12-30-81	C. Cross, Jr.
3792	12-4-81	M-604-17-101c1, contrary to ASME Sec. III, during install. of 1" $\frac{1}{2}$ coupling the heat generated during welding caused flattening of pipe			
3793	12-4-81	Contrary to Spec. M-64, the nameplate bearing the N stamp & other info. has become detached from Tank 2T-77A and is missing.	Rework		
3794	12-7-81	Contrary to Spec. C-211 SCN-11004, a concrete mudmat was placed in Water Storage Tank OT-54 w/o approval by Geotech. Soil Eng. or Q.C.	Use As Is	12-14-81	C. Paveledes
3795	12-8-81	Contrary to Spec. M-204, on Dwg. M616 sh.6, FW's 60 & 61 weren't documented for cleanliness during installation.	Rework	2-5-82	R. Bersch
3796	12-9-81	Contrary to Spec. C-305, on hgr. FSK-M-1HBC-196-2-H4 (4) 5/8" ϕ abandoned anchors were cut off flush at the Q deck surface.	Rework		
3797	12-9-81	Contrary to ASME Sec. III NB-2151, the 2"x1 $\frac{1}{2}$ " reducer between FW 2 & 3 on FSK-M-2HBC-129-1 doesn't have a heat number.	Rework	2-11-82	J. Kanski
3798	12-10-81	Contrary to Spec. C-306, excessive bar was cut on Elev. 614'-0".	Use As Is	3-1-82	T. Gelnett
3799	12-10-81	Valve Sn 37 (1 $\frac{1}{2}$ "-EBC-GT) betw. FW 13 & 14 on FSK-M-2HBC-13-3 was installed without Act. 2.8 of P-1.30 being documented.	Use As Is	1-16-82	W. Smith
3800	12-11-81	G-27, contrary to ASME Sec. IX Para. QW-322, welder P-409 was not properly requalified.			
3801	12-11-81	Panels 1C166 & 2C166, theres no vendor instruction to terminate wires on special clamp type termination or a field procedure.			
3802	12-11-81	Dwg. M652 sh.1, contrary to Spec. M-214, the listed lines on page 2 of NCR weren't installed within the allowable tolerances.	DOC Rework		
3803	12-14-81	Contrary to Spec. C-306, three East/West were cut on the 645' elev. in the Aux. Bldg.	Use As Is	3-1-82	T. Gelnett
3804	12-15-81	Contrary to Spec. C-305, the upper right anchor of the lower base plate of hgr. FSK-M-0HCC-62-2-H11 was replaced w/ shorter anchor.	N/A	1-7-82	R. Grubich
3805	12-15-81	Spec. M-204, 1 $\frac{1}{2}$ " line 2HBC-262 isn't installed in accordance with dwg. FSK-M-2HBC-262-1 Rev. 3.			
3806	12-15-81	FW #24 on Dwg. M617-9 R. 11/F1 was completed but documentation can not be obtained verifying Act. 2.1c on W-1.00 completed by the A.I.	Use As Is		
3807	12-15-81	P.O. F-15643 R-1.00-295, during review of the vault pkg. no doc. was included & H. Busch informed us that no replacement could be obtained.			
3808	12-15-81	P.O. F-21091 R-1.00-1509, no UT results or S. of C. was included in the vault pkg. reviewed, leaving quality of material indeterminate.	Doc. Rework		

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3809	12-15-81	P.O. F-44884 R-1,00-11824, contrary to Spec. G-33, no CMTR was included in vault pkg. during review & no replacement can be furnished			
3810	12-15-81	P.O. F-28879 R-1,00-3429, during review of the vault pkg. no S. of C. or CMTR was included in the pkg.	Doc. Rework	1-19-82	B. MacGlashan
3811	12-16-81	Contrary to Spec. M-204, FW's 8,18,19,24,25,&30 on FSK-M-2HBC-138-3 were installed without QC verification or doc. of cleanliness.	Use As Is	1-28-82	W. Smith
3812	12-16-81	Valves SN 56 & 52 (1 1/2"-EBC-GT on FSK-M-2HBC-138-3 were installed without Act. 2.8 of PQCI P-1.30 inspected.	Use As Is	1-16-82	W. Smith
3813	12-16-81	Cable 2AB2312C was pulled in without QC inspection and incorrectly installed in vias other than specified in E-37.	Rework	1-6-82	T. Perry
3814	12-16-81	M-615-2 FW 75, contrary to Spec. M-488, 1" 1/2 coupling bored diameter after welding measures 1.107 violating wall & rendering item inder.			
3815	12-16-81	Contrary to Spec. M-204 & ASME Para. NB-2151, 2" valve 2XV0454R doesn't have a N stamp data tag.	Rework		
3816	12-16-81	C-1.60-334, contrary to Spec. C-231 SCN-11003, penetrations don't meet the minimum clear distance requirements.			
3817	12-16-81	Contrary to Spec. M-326, item 2 of Hgr. 604-4-24 was welded across the flange, and then ground away.			
3818	12-17-81	PSP G-1.1, sole plates installed betw. foundation & equip. aren't shown on dwg. & partial or no contact w/ equip. support mounting ft.			
3819	12-17-81	FSK-DVI-M617-11, contrary to Spec. M-488, the as-welded condition of 1" 1/2 coupling at FW #51 shows an internal mismatch.	Rework	1-13-82	M. Urbanawiz
3820	12-17-81	FSK-M-1HBC-137-3, pipe betw. FW #1 & #14 & #13 & 2 have no heat # traceability, QC verification or documentation, contrary to M-204.	Rework		
3821	12-17-81	Contrary to Spec. M-488, 1 1/2" 3000# 1/2 coupling on Dwg. M617 sh.6 & 2" 3000# coup. on M617 sh.7 bored diam. after welding is in violation			
3822	12-17-81	Contrary to FPE-4.000, cable 2AB4303E exceeds the bend radius.	Rework	2-8-82	R. Savoie
3823	12-17-81	Contrary to Dwg. E-47, theres no 6" separation between redundant cable inside of equipment.	Use As Is		
3824	12-18-81	Contrary to Spec. M-326, It.1 on hgr. FSK-M-1HCB-43-1-H2 was welded across the flange, and then ground away.			
3825	12-18-81	S/C-1.05-266, contrary to Spec. C-208 & UST QCP-7, the S/C added water from hydrant to main temp. sys. w/o Bechtel notification.	Use As Is		
3826	12-19-81	Contrary to Spec. M-204, theres a gouge in pipe 1"-2HBC-355-2.	STDRepair Rework		
3827	12-21-81	Cable 1AB5524A, located in Fuel Pool Cooling Pump Rm. 210, was pulled back per WR170 and was overtensioned.	Rework UseAsIs		

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3828	12-22-81	Contrary to PSP G-3.2, on NCR 3747 some 1/2 couplings had the small bore socket weld made prior to cond. release or dispo.. All had tags.			
3829	12-22-81	Contrary to Spec, M-204, 3/4" pipe, line 2HCB-41 on Dwg. FSK-MPC-2-2020 is bent.	Rework	2-24-82	M. Dewitt
3830	12-22-81	Contrary to Spec, M-204, 3/4" pipe, line 2HCB-59 on Dwg. FSK-MPC-2-2017 is bent.	Rework		
3831	12-22-81	Contrary to G-27 & PQCI-P-2.10, welding of It.5 on FSK-M-1HCB-115-3-H13 which is 2 1/16" was performed w/o QC verification.	No Nonconf.	1-26-82	R. Aubert
3832	12-23-81	Contrary to Spec, C-230, the new cement grind acceptance test is in progress, consequently placing the cement indeterminate.	Test Rework	2-18-82	B. DeArmond
3833	12-23-81	Contrary to Dwg. E-37, cable OBY3609A was routed in slot #1BSL422. Cable vias shows 1BLS421. QC wasn't notified of pull of last slot.	Use As Is	1-19-82	S. Revich
3834	12-28-81	Contrary to Spec. M-204 Rev.15, FW 87, Dwg. M-604 Sh.17, has incomplete penetration in two areas, also two areas, offset exceeds reqir.	Rework	2-3-82	R. Lebkuech
3835	12-28-81	P-1.30-FSK-M-1HBC-144-1-1, Contrary to QC Inst. Act 2.8, 2-FBC-GB No. 016, S/N3854 was install. w/o act. 2.8 documented prior to final closure.	UseAsIs	1-26-82	W. Smith
3836	12-28-81	Contrary to M-204 5.2.1, line OHBC-66 is not installed per latest Dwg. FSK-M-OHBC 66-1 Rev.2.	Doc. Rework	2-18-82	G. Fulmer
3837	12-28-81	Contrary to PSP G-3.2, work was done without conditional release on NCR 3654.	Rework	2-4-82	B. Fayerman
3838	12-28-81	Contrary to Spec. M-204, items on FSK-M-2HBC-146-1, have no heat numbers, & one valve was installed w/o inspection being documented.	Rework		
3839	12-28-81	Contrary to Spec. M-204, on Dwg. FSK-M-1HBC-144-1 Rev.4, items were installed without QC verification or documentation of heat no's.			
3840	12-28-81	Contrary to Dwg. C-2080-1Q Rev. 3, the rebar in detail 13 was omitted.	Use As Is	2-19-82	P. Vanderveer
3841	12-30-81	Cable 1AB2310B was cut through the outer jacket exposing the inner conductors.	Use As Is	2-22-82	H. Tuttle
3842	12-30-81	Contrary to PQCI P-1.30, valves 2"ISV-2158, 2"ISV-2157, & 2"ECB were installed w/o Act 2.8 doc. or verified by QC prior to closure.	Use As Is	1-26-82	W. Smith
3843	12-30-81	Contrary to PQCI P-1.30, valves 1/2"ECB (502) & (492) were installed w/o Act. 2.8 doc. or verified by QC prior to closure.	Use As Is	2-4-82	W. Smith
3844	12-31-81	Large pipe hgrs. (ASME II), listed on NCR, were designed by field eng. & have no formal design calculations on file.			
3845	12-31-81	Conduit 1AJD004, 1AC048, and 1AJD014 doesn't meet clearance requirements, contraru to Dwg. E-42 sh. 10A Rev. 8.			
3846	12-31-81	E-1.0 2ABJA036a, 7 of 90 support bolts are inaccessible due to interference from adjacent conduits.			

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3847	1-4-82	Contrary to the disposition of NCR-3534, hgr. 0-618-1-23 has two corner lada sway struts installed.	Rework		
3848	1-5-82	Contrary to Spec, M-204, lines 1/2" 2HCB-140 & 141 on dwgs, FSK-M-2HCB-140-1 & FSK-M-2HCB-141-2 aren't installed per latest revs.	N/A	2-5-82	J. Clark
3849	1-5-82	PW-1.00-M618-3-98, contrary to Dwg. M-488, 3/4" 1/2 coupling bored diameter after welding measures .865.	Use As Is	2-24-82	R. Kramer
3850	1-5-82	Contrary to AAPD/G6.1, valves 196 & 197 on FSK-M-2HCB-180-1 were installed without being documented for inspection on P-1.30.	Use As Is	2-4-82	W. Smith
3851	1-5-82	Slots IASL915, 916, 917, 2ASL915, 916, & 917 don't mee; the criteria used per Dwg. E-42B Rev.4.			
3852	1-5-82	Contrary to Dwg. E-42B sh.'s 343 & 314 & Dwg. E-796 sh.1, supports were installed with the wrong size expansion anchors.			
3853	1-5-82	Contrary to Dwg. C-481, a list of materials (on Pg.2)for P.O. E-3107 were supplied without charpy impact testing.			
3854	1-6-82	Contrary to Spec, M-488, for 1" 6000# 1/2 couplings welded to 2 1/2" IPS mainline pipe the fillet leg size can't be obtained at transverse sect.			
3855	1-6-82	E-1.0/1BJEQ07 Conduit support attached to 2" thick column without preheat as required in GWS structural			
3856	1-6-82	Contrary to spec M-366 hgr. 2-617-7-17 has no tracable certified materials test report or C of C	Rework		
3857	1-7-82	Contrary to spec, C-230 section 11.1 concrete was placed with an end of line temp. of 71°F. Pour# A(654.5)B'	Use As Is	2-16-82	C. Pavledes
3858	1-7-82	Contrary to Spec, A-41 para. 7.6 surfaces were not cleaned prior to application of coating as part of Sys. 18 Dwg. A-72.	Use As Is	2-18-82	E. Dutton
3859	1-8-82	Contraty to Spec, M-488 & ASME Sect, III the F dimension of 1/2 coupling at FW 36C1 is 1.087" & weld heat caused flattening of pipe			
3860	1-8-82	Contrary to PQCI CW-1.00 penetrations 2Z104 & 2Z105 were welded without QC verification of fitup.			
3861	1-11-82	Contrary to Spec, C-208, on 1-8-82 Tank #12 had exceeding tempera- rures on specimens 5118F-2815 & 16 Pour #DG(678.25)B'.	Use As Is		
3862	1-11-82	Contrary to Spec, C-208, on 1-9-82 specimens 5136F-2921 thru 2926 exceeded the maximum time limit for curing.	Use As Is		
3863	1-11-82	QCIR-R-2.10 Act. 3.1, no documentation has been received on the two thermowells on R-2.10-16718.			
3864	1-11-82	Contrary to Spec, C-305, two anchors have been cut off flush with concrete 6" away from baseplate for hgr. 2-619-1-2.	Rework		
3865	1-11-82	PQCI-P-1.30 Act. 2.8, valves installed without supportive document- ation of valve internals inspection prior to closure being available			

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3866	1-12-82	The diesel air intake screen on the space heater cover has a piece of steel broken away from center section.			
3867	1-12-82	Contrary to Spec. C-305, tray support 750-2060, expansion anchors have indeter. embed. depth & QC has no record of wall repair.			
3868	1-12-82	Contrary to M-204 there is no documentation for the cleanliness of SWL Dwg. FSK-M-1HBC-159-1	Use As Is	2-3-82	W. Smith
3869	1-12-82	Contrary to Spec. C-305 expansion anchor located above hgr. 2-611-6-10 was cut off at the face of the concrete.	Rework	2-17-82	N. Chapman
3870	1-12-82	Contrary to Spec. M-214 the distance between valve 1XV-0339B & 90° elbow at FW#14 is 1'7" not 2'0" as shown on ISO FSK-M-1HCC-44-1	Use As Is	1-28-82	W. Smith
3871	1-12-82	Per WR-1205 re-tagged cable ORR6805U, to ORR6805U, while E-37 shows only one cable with ID., two exists.	Rework	2-19-82	C. Lemons
3872	1-12-82	Contrary to Dwg. M-481 8 concentric reducers, HTYR3LH, are installed which are SA234GR WPC not SA234GR WPB as required.			
3873	1-12-82	Contrary to Spec. M-204 para. 4.3.1, valves 2XV0456A-PL & 2XV0456B-PL do not have N stamp data tags.	Rework		
3874	1-13-82	FSK-M-2HBC-555-3, Contrary to Spec. M-488, dimension of 1/2 coupling at FW24 is .876" instead of required .824"±.030,	Use As Is	2-19-82	M. Orr
3875	1-13-82	Contrary to PQCI P-1.30, valve 023 on Dwg. FSK-M-1HBC-191-1 is installed with the valve handle missing.	Rework		
3876	1-13-82	Contrary to Dwg. 0-619-4-3 a flare bevel groove weld located betw. It. 9 & It. 13 didn't receive QC acceptance prior to further const.			
3877	1-13-82	Dwg. M-481, Contrary to sheet 100B at FW44 on FSK-M-2HCC-60-1 an elbowlet has been installed.	DOC. Rework	1-27-82	R. Amos
3878	1-13-82	Dwg. M-481, Contrary to sheet 100B at FW80 on FSK-DVI-M-604-11 an elbowlet has been installed.	DOC. Rework	1-27-82	R. Amos
3879	1-14-82	Contrary to Spec. C-305, para. 4.11, on hgr. FSK-M-1CCB-45-2-H4 a bolt hole was abandoned & a new one drilled prior to repair.	Rework		
3880	1-14-82	DWG. M-481, Contrary to Sh. 100B at FW 32C1 on FSK-DVI-M-604-11 an elbowlet has been installed.	Doc. Rework	1-15-82	R. Amos
3881	1-13-82	BOAM Sect. 7130 on FSK-M2HBC-3-4, Spec. M-204, duplicate weld #'s were assigned & on documentation.			
3882	1-14-82	Contrary to Spec. M-481, FSK-DVI-M-652-2, 4 welds are installed in GCC lines without ECC ID.			
3883	1-14-82	Contrary to Spec. C-304, a type 12 conduit support 2DVA004 was installed over an area still requiring repair.			
3884	1-14-82	Contrary to Spec. C-231 SCN-11003 & 11004, a temp. of 36°F was recorded on 1-10-82 @ 1650 hrs., 23 hrs. 20 min. of indeter. temp.			

LOG OF NONCONFORMANCE REPORTS



PROJECT NAME ¹		JOB NO. ¹		PAGE ⁸ 224		
2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY	
3885	1-14-82	Contrary to PQCI P-1.10 Act, 31d & M-204, Dwg, FSK-M-1HBC-180-1 pipe is installed without threads as required.				
3886	1-15-82	Contrary to Spec. C-306, 3 horiz. rebar were Cut violating the Spec. requirements.	Use As Is	3-1-82	T. Gelnett	
3887	1-15-82	Contrary to Spec. C-306, 4 N-S rebar were cut violating the Spec. requirements.				
3888	1-15-82	Contrary to Spec. C-231, 3 horiz. rebar were cut in violating Spec. requirements.				
3889	1-15-82	Contrary to PQCI P-2.10 Act, 2.1 QC didn't verify perheat on hgrs. FSK-M-2HCC-461-1-H8 & H9 prior to welding.				
3890	1-18-82	FSK-DVI-M-617-10, Contrary to ASME Sect. III, during the install, of 1/2 coupling the welding process caused flattening of the pipe.				
3891	1-18-82	141078A, Contrary to E-42A Sh, 5A note 18, the unsupported distance of tray BTF07 to BTF06 is 4'6" instead of required 3'.	Rework			
3892	1-18-82	FW-1.00- FSK-DVI-M-603-5-56 & 57, Contrary to DWG. M-488, "F" dimension of 1/2 coupling at FW 56 is 1.107.	Use As Is	3-1-82	W. Smith	
3893	1-19-82	R-1.00-16897, Q material on P.O. identified by Proj/Q.E. to be indeter. on satisfisf. completion qualif. test req. per Spec. E-42B.	Doc. Rework			
3894	1-21-82	Contrary to Spec. C-306, App. D, a # 11 vertical splice bar was cut in the pilaster @7.4 & D @ El. 606'8 1/2".				
3895	1-21-82	Inspection of vendor supplied cables in EPA 22150 revealed a slice in jacker, one cable module 'A'.	Rework			
3896	1-21-82	Inspection of vendor supplied cables in EPA 22115 revealed damage to several cables in modules 'B' & 'F'.	Rework			
3897	1-21-82	Inspection of vendor supplied cables in EPA 22139 revealed damage to cables in modules 'A' & 'D'.	Rework			
3898	1-22-82	Contrary to Spec. M-204 para. 5.2.1, pipe is bent & damaged betw. FW12 on FSK-M-2ECB-7-2 & FW2 on FSK-MPC-2-2013 & doesn't meet design.	Rework			
3899	1-22-82	Contrary to BQAM-ASME III Div. I on corrected data reports were oversigned or reverified by the vendors ANI, for valves. See NCR Blk. 16.				
3900	1-22-82	Contrary to Spec. M-204 para. 4.1.3, 1/2" plugs were installed w/o heat codes or recorded on applicable documents.	Rework			
3901	1-25-82	Contrary to Dwg. J-401-5 Sh.2, note 15, F-P.O.'s 28736, 34091, 35637, 54349, 50062, & 52731, recieved by unapproved vendor.				
3902	1-25-82	Contrary to Spec. M-204 para. 4.1.3, valve # 419-039 S/N D-0061-9-1 on M-619-6 was missing "N" stamp on tag.				
3903	1-25-82	Dwg. FSK-M-1HCB-83-2, Contrary to Spec. M-204, R/L P-1237 to Dwg. Rev. 1 was not incorp. with Rev. 2, & FW10 & 11 added, welds compl. Rev.1.	N/A	2-8-82	W. Smith	

LOG OF NONCONFORMANCE REPORTS



PROJECT NAME ¹

JOB NO ¹

PAGE # 225

² NRC NO.	³ DATE	⁴ NONCONFORMANCE DESCRIPTION / REMARKS	⁵ DISPO.	⁶ DATE NCR CLOSED	⁷ CLOSED BY
3904	1-25-82	Inspections in EPA 1Z116 revealed cables damaged in modules "A", "B", and "E".	Rework	/	
3905	1-25-82	P.O. F-54254, requires material to be ASME SA-105 GRI or GR11, contrary to this there are no grade differences of material w/ Spec.			
3906	1-26-82	Contrary to BOAM, sub-sect. 5240, reducing insert at FW7 on FSK-M-2HBC-498-4 has a heat # not tracable to a CMTR.	Rework		
3907	1-26-82	Contrary to Spec. M-204 para. 4.1.3, valves 419-044 S/N D-0061-9-2 & 419-046 S/N D-0061-9-4 on Iso's, M619-4 & 5 have on "N" stamp on tags.	Rework		
3908	1-27-82	Contrary to Spec. M-204 para. 5.2.1, SW14 is identified on O.C. documentation as SW13 & not identified on DWG FSK-M-2ECB-8-4.	Doc. Rework	2-18-82	J. Kramer
3909	1-27-82	Contrary to Spec. M-326 para. 5.1.1, on Hgr. Q-614-7-1 It. 6 was not installed & It. 3, 4 & 5 were welded directly to Liner Plate.	N/A	2-19-82	R. Grubich
3910	1-27-82	Contrary to Spec. M-204 para. 4.1.3, valve # 1XV-0319A, ISO FSK-M-1HCC-74-1 has no "N" stamp tag.	Rework		
3911	1-27-82	P-1.10-FSK-M-2EAP-6-1-1. Contrary to M-204, FW18 was installed without O.C. verification or documentation.	Doc. Rework		
3912	1-27-82	M-204, Line ICCB-15 isn't installed w/in design tolerance, also FW7, 11, 12, & 13 isn't on DWG, or installed per Rev. 3.			
3913	1-27-82	PSP-6.1, Sect. 3.2.3 A5, Due to excessive accumulation of grout on hgr. 2-613-4-9 final inspection cannot be verified.			
3914	1-27-82	Spec. M-226, Contrary to Dwg. 2-611-5-13R, 3 anchors have been installed instead of required 5, P-2.10-611-5-16.	Rework		
3915	1-28-82	Contrary to Spec. C-306, a vertical # 8 rebar was cut violating the Spec.	Rework		
3916	1-28-82	Contrary to PQCI-P-2.10 Act 2.2, Items 14 & 8 of hgr. FSK-M-1HCB-22-2-AH4 were welded without Fit-Up inspection.	Rework		
3917	1-28-82	Spec. M-326, Hgr. Sk. 1-610-5-40 was revised w/o Proj. Eng. approval for peat. weld for same item as Dwg. C-342.	Doc. Rework	2-20-82	K. Gunser
3918	1-28-82	Spec. M-204, Deminutions betw. the 2 bends betw. SW2 & 3 on DWG. FSK-M-2ECB-5-1 & lack of supports don't meet Spec. or Dwg. requirements.	Rework		
3919	1-28-82	Inspections in EPA 1Z115 revealed cables damaged in Modules "B", "C", & "G". All damage is to jacket only.	Rework	2-26-82	J.C. Miller
3920	1-28-82	Inspections in EPA 1Z111 revealed cables damaged in Modules "A", "B", "C", "D", & "E".	Rework		
3921	1-29-82	Contrary to R-2.10 para. 3.1, P.O. M-1.30 R-2.10-16956 was received with no documentation.			
3922	1-29-82	Inspections in EPA 1Z135 revealed damage to vendor supplied cables in Modules "B", "D", & "E".	Rework	✓	

LOG OF NONCONFORMANCE REPORTS

PROJECT NAME ¹JOB NO. ¹PAGE ⁸ 226

² NRC NO.	³ DATE	⁴ NONCONFORMANCE DESCRIPTION / REMARKS	⁵ DISPO	⁶ DATE NCR CLOSED	⁷ CLOSED BY
3923	1-29-82	Inspection in EPA 1Z139 revealed damage to vendor supplied cables in Modules "E", "F", & "G".	Rework		
3924	1-29-82	Inspection in EPA 1Z132 revealed damage to vendor supplied cables in Modules "E", "D", & "F".	Rework		
3925	1-29-82	Inspection in EPA 1Z151 revealed damage to vendor supplied cables in Module "B".			
3926	1-29-82	Vendor cable D17 in Module "C" of EPA 1Z131 has a gouge 4'3" from Module.	Rework	2-18-82	J.C. Miller
3927	1-29-82	Inspection in EPA 1Z138 revealed damage to vendor supplied cables in Modules "R", "C", "E" & "G".	Rework		
3928	1-29-82	Inspections in EPA 1Z133 revealed damage to vendor supplied cables in Modules "A", "B", "C", "D", "E", "F", & "G".	Rework		
3929	1-29-82	Contrary to Spec. C-211, material was placed in excavated areas, work was performed & material used was not approved by Geotec. Soils Eng.			
3930	1-29-82	Contrary to Spec. C-197, 5 freezehoies were begun w/o controlled Dwg. & 4 excavations left Q-utilities unprotected.	N/A	2-9-82	L. May
3931	1-30-82	During inspection it was found that M.O.V. 2M03993B1 had a broken terminal block.	Repair		
3932	1-30-82	During inspection it was found that M.O.V. 2M03993B2 had a broken terminal block.	Repair		
3933	2-1-82	Contrary to Spec. M-204, 1/2" valve at FW7, Dwg. FSK-M-2GCB-38-1 is missing "N" stamp data tag & also packing gland nut.			
3934	2-1-82	P-1.10-FSK-M-1CCB-18-2-1. Contrary to M-204, 5.2.1. FW20 & 23 have valve inst. betw. & not shown on Dwg. & pipe is damaged betw. FW26 & 27.	Rework		
3935	2-1-82	Dwg. FSK-DVI-M-619-7. Contrary to Spec. M-204, pipe betw. SW4 & 5, SW6 & T.O.E. on Conn. # 5 have no tracable heat no's.	Rework		
3936	2-2-82	Contrary to Spec. C-231, a 6" penet. was drilled with no clear distance & a portion of it is behind the channel.			
3937	2-2-82	M-604-15, welds 61 & 62 don't have req. amt. of weld material for fillet leg size, welders were unequal. for this & 2CCC-1-1 weld 10.	Rework		
3938	2-3-82	Spec. M-204, FSK-DVI-M-619-7, SW's 42, 43, 60, & 61 are shown on DWG. but not the actual way inst., also no Q.C. verif. or doc. clean.			
3939	2-3-82	Spec. M-204, FSK-DVI-M-619-7, SW's 56, 58, 71, & 72 are inst. differently than what Dwg. shows, also no Q.C. verif. or doc. of clean.	Doc Rework		
3940	2-3-82	Contrary to Spec. M-204, line 2HBC-497 & 2HBC-3 has been damaged by bending, flattening & gouging.			
3941	2-3-82	Contrary to Spec. E-47, there isn't a 6" separation betw. cable 2BB5640A & D-channel cable inside of equipment 2X56.	Use As Is		

Contacted: Karl Kleinhardt

NONCONFORMANCE REPORT

S/U Non-Testable

1. PROJECT NAME Midland			JOB NO. 7220			19. NO. 3930		20. PAGE 1 OF 4		
2. UNIT(S) Common		3. DRAWING/PART NO. C-45 Rev. 6		4. ITEM DESCRIPTION Violation of Field Procedures		5. ITEM LOCATION West-West of Cont. #1, on 124 B2 Yard-South of D. G.				
6. P.O. OR SPEC NO. N/A		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N N/A REV. N/A		9. SOURCE Subcontractor		10. CONTRACTOR/SUPPLIER Moretrench American Corp.		
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER			IR NO. N/A NO. C-197 Rev. 1		12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO		13. SKETCH ATTACHED (X) YES () NO		14. Discovered During () Rec'g (X) Const () Test	
15. Equip Furnished By () Client () Eng () IFLD			16. NONCONFORMING CONDITION: Spec C-197 Rev. 1 Sec. 2.3 states in part "...conformance to Subcontractor's drilling procedures in Q-fill areas are Q-listed and shall be in accordance with 10 CFR 50 App. B."		24. DISPOSITION CONCURRENCE rework <input checked="" type="checkbox"/> reject <input checked="" type="checkbox"/> repair <input type="checkbox"/> use as is <input type="checkbox"/>		25. DISPOSITION RESULTS			
1) Moretrench Field Procedure F-7220 C-195-6-1 Drilling Procedures States in part "...Holes, whether for freeze elements or for monitors will be located within 1/2 foot of the location shown on the drawings." Contrary to this, ^{ORP} 5 three freeze holes were begun without controlled drawings. (continued)			17. REPORTED BY Lane May		DATE 1/29/82		18. VALIDATED BY <i>[Signature]</i>		DATE 1-29-82	
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING () TO OTHERS (SPECIFY)			22. <input checked="" type="checkbox"/> Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering		23. PROJECT ENGINEERING DISPOSITION 1) Concern that the location is off. To avoid underground utility congestion, surface casings were installed per approved procedures 3.C.2.g by the probe crew who were allowed to work in the area. No actual drilling for the freeze wall holes themselves will begin		26. QC ACCEPTANCE Lane May			
27. PROJECT ENGINEER <i>[Signature]</i>			28. PROJECT ENGINEER <i>[Signature]</i>		29. PROJECT ENGINEER <i>[Signature]</i>		30. PROJECT ENGINEER <i>[Signature]</i>			
31. PROJECT ENGINEER <i>[Signature]</i>			32. PROJECT ENGINEER <i>[Signature]</i>		33. PROJECT ENGINEER <i>[Signature]</i>		34. PROJECT ENGINEER <i>[Signature]</i>			
35. PROJECT ENGINEER <i>[Signature]</i>			36. PROJECT ENGINEER <i>[Signature]</i>		37. PROJECT ENGINEER <i>[Signature]</i>		38. PROJECT ENGINEER <i>[Signature]</i>			
39. PROJECT ENGINEER <i>[Signature]</i>			40. PROJECT ENGINEER <i>[Signature]</i>		41. PROJECT ENGINEER <i>[Signature]</i>		42. PROJECT ENGINEER <i>[Signature]</i>			
43. PROJECT ENGINEER <i>[Signature]</i>			44. PROJECT ENGINEER <i>[Signature]</i>		45. PROJECT ENGINEER <i>[Signature]</i>		46. PROJECT ENGINEER <i>[Signature]</i>			
47. PROJECT ENGINEER <i>[Signature]</i>			48. PROJECT ENGINEER <i>[Signature]</i>		49. PROJECT ENGINEER <i>[Signature]</i>		50. PROJECT ENGINEER <i>[Signature]</i>			
51. PROJECT ENGINEER <i>[Signature]</i>			52. PROJECT ENGINEER <i>[Signature]</i>		53. PROJECT ENGINEER <i>[Signature]</i>		54. PROJECT ENGINEER <i>[Signature]</i>			
55. PROJECT ENGINEER <i>[Signature]</i>			56. PROJECT ENGINEER <i>[Signature]</i>		57. PROJECT ENGINEER <i>[Signature]</i>		58. PROJECT ENGINEER <i>[Signature]</i>			
59. PROJECT ENGINEER <i>[Signature]</i>			60. PROJECT ENGINEER <i>[Signature]</i>		61. PROJECT ENGINEER <i>[Signature]</i>		62. PROJECT ENGINEER <i>[Signature]</i>			
63. PROJECT ENGINEER <i>[Signature]</i>			64. PROJECT ENGINEER <i>[Signature]</i>		65. PROJECT ENGINEER <i>[Signature]</i>		66. PROJECT ENGINEER <i>[Signature]</i>			
67. PROJECT ENGINEER <i>[Signature]</i>			68. PROJECT ENGINEER <i>[Signature]</i>		69. PROJECT ENGINEER <i>[Signature]</i>		70. PROJECT ENGINEER <i>[Signature]</i>			
71. PROJECT ENGINEER <i>[Signature]</i>			72. PROJECT ENGINEER <i>[Signature]</i>		73. PROJECT ENGINEER <i>[Signature]</i>		74. PROJECT ENGINEER <i>[Signature]</i>			
75. PROJECT ENGINEER <i>[Signature]</i>			76. PROJECT ENGINEER <i>[Signature]</i>		77. PROJECT ENGINEER <i>[Signature]</i>		78. PROJECT ENGINEER <i>[Signature]</i>			
79. PROJECT ENGINEER <i>[Signature]</i>			80. PROJECT ENGINEER <i>[Signature]</i>		81. PROJECT ENGINEER <i>[Signature]</i>		82. PROJECT ENGINEER <i>[Signature]</i>			
83. PROJECT ENGINEER <i>[Signature]</i>			84. PROJECT ENGINEER <i>[Signature]</i>		85. PROJECT ENGINEER <i>[Signature]</i>		86. PROJECT ENGINEER <i>[Signature]</i>			
87. PROJECT ENGINEER <i>[Signature]</i>			88. PROJECT ENGINEER <i>[Signature]</i>		89. PROJECT ENGINEER <i>[Signature]</i>		90. PROJECT ENGINEER <i>[Signature]</i>			
91. PROJECT ENGINEER <i>[Signature]</i>			92. PROJECT ENGINEER <i>[Signature]</i>		93. PROJECT ENGINEER <i>[Signature]</i>		94. PROJECT ENGINEER <i>[Signature]</i>			
95. PROJECT ENGINEER <i>[Signature]</i>			96. PROJECT ENGINEER <i>[Signature]</i>		97. PROJECT ENGINEER <i>[Signature]</i>		98. PROJECT ENGINEER <i>[Signature]</i>			
99. PROJECT ENGINEER <i>[Signature]</i>			100. PROJECT ENGINEER <i>[Signature]</i>		101. PROJECT ENGINEER <i>[Signature]</i>		102. PROJECT ENGINEER <i>[Signature]</i>			



Block #16 continued.

See attached sketch for location and dimension.

- 2) More trench Field Procedure F-7220-C-195-7-1 Sec. C-1 states in part ... "The earth surrounding Q-utilities deeper than 3 feet actually uncovered by the open cut excavating procedure is to be protected from freezing. Contrary to this, 4 excavations in Q-Listed areas are not protected from freezing. Recorded temperatures: Ambient = 10° F
Surface Temp. - bottom of excavation = 22° F

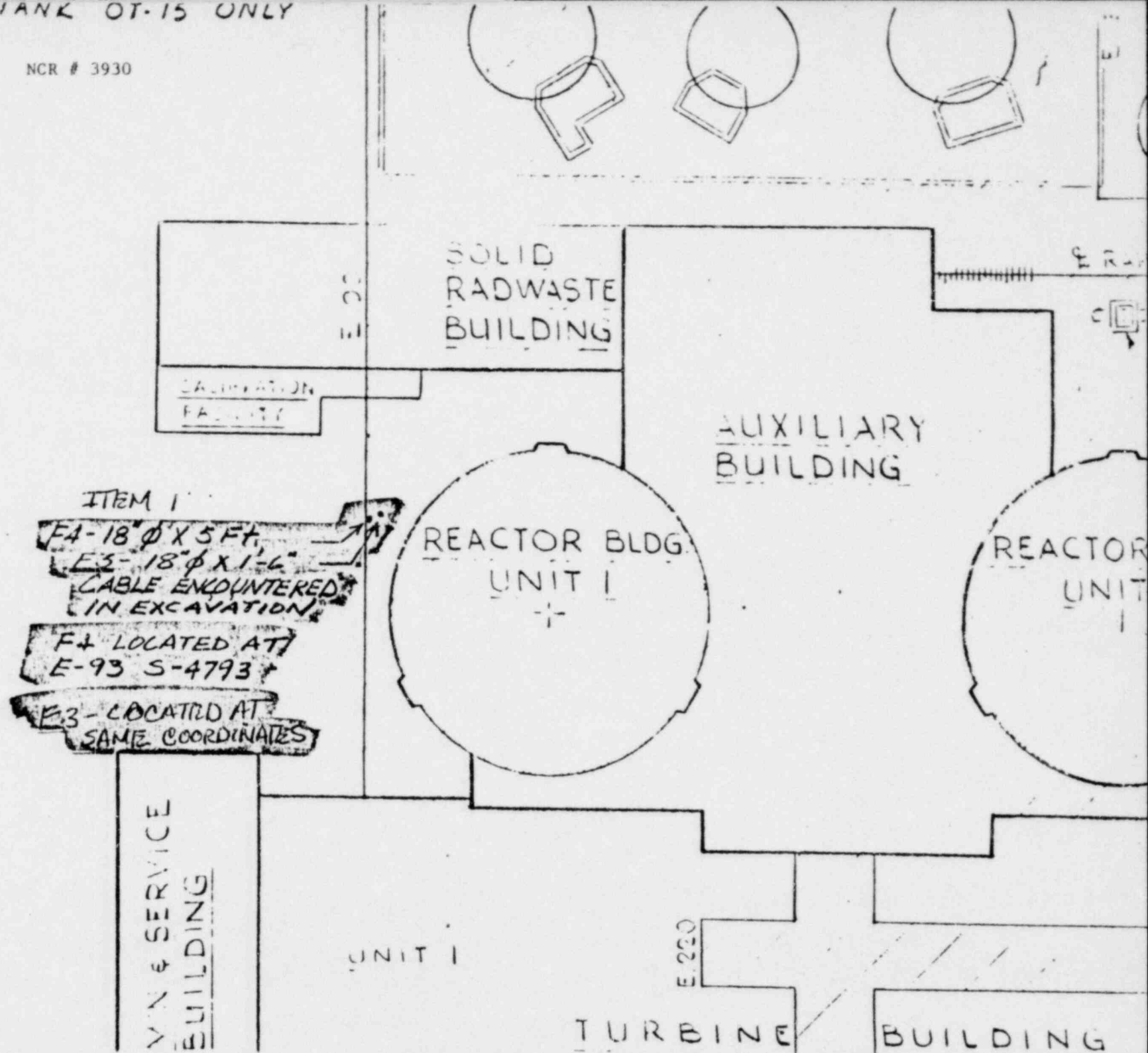
See attached sketch for locations and dimensions.

Q-List - Indeterminate. Hold for Engineering Disposition. No Hold Tags Applied.

Block 22 (cont)

- until controlled drawings are received. Drawings were received 2/1/82 and the location of the casings were verified against the design drawings.
- 2) The 4 locations in question were checked on 1/29/82 by representatives of the Remedial Soils Group and Quality Control and found protected from freezing.
- 3) No work was performed in areas that are on hold.

J. Kelleher 2/3/82



SCALE - 1" = 10'-0"

F15G + F157
S5108 E 497 ±
26" SW

NOT TO SCALE

F148

3' x 18' x 3'

S5158 E 497

26" SW

26" SW

5' x 15' x 5'
S5161 E 489

TIER 1

ITEM 2 244



1 1/2" DIESEL LINE
2" DIESEL LINE

DUCT BANK

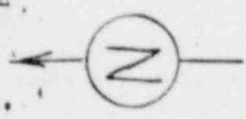
12" F.W.

DUCT BANK F140 F141 F142



CORRUGATED
WEEP TILE

S5175 E 438'





UNCLASSIFIED: FE, BOB, HOPPE

NONCONFORMANCE REPORT

S/A NON-TESTABLE

0-801

1. PROJECT NAME MIDLAND UNITS 122		JOB NO. 7220	
2. UNIT(S) 1	3. DRAWING/PART NO. E661	REV 8	4. ITEM DESCRIPTION CABLE DAMAGE IN EPA 12131
6. P.O. OR SPEC. NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A	9. SOURCE CONST
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO	10. CONTRACTOR/SUPPLIER N/A
16. NONCONFORMING CONDITION: EPA 12131 HAS A GORGE 4'3" FROM MODULE			
A-LIST NO 3.002 2 HXD TAGS APPLIED HOLD FOR ELK DISP.			
17. REPORTED BY J.C. Miller	DATE 1-28-82	18. VALIDATED BY RWA J.C. Miller	DATE 1-28-82
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING () TO OTHERS (SPECIFY)			
22. <input checked="" type="checkbox"/> Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering Rebuilt cable D17 module C using Raychem heat shrink per Bunker-Kamo procedure 123-2273 V.P. 12.20-F-10-152-1 (RM) J.C. Miller 2/8/82			
23. PROJECT ENGINEERING DISPOSITION			
26. QC ACCEPTANCE J.C. Miller			
QC ENGINEER		DATE 2-18-82	
AUTHORIZED INSPECTOR		DATE	



CONTACTED: F.E. BOB HOPPE

NONCONFORMANCE REPORT

S/L NON-TESTABLE

1. PROJECT NAME MIDLAND UNITS 182		JOB NO. 7220		19. NO. 3919	20. PAGE 1 OF 2
2. UNIT(S) 1	3. DRAWING/PART NO. EGG1	REV 8	4. ITEM DESCRIPTION CABLES IN EPA	5. ITEM LOCATION #2 153° CONT #1 ELEV. 6316"	
6. P.O. OR SPEC NO. NA	7. SERIAL NO. NA	8. REPLACEMENT PART P/N NA REV NA SER NO. NA		9. SOURCE CONST	10. CONTRACTOR/SUPPLIER NA
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. NA NO. NA	12. ASME AUTHORIZED INSPECTION REC'D () YES () NO	13. SKETCH ATTACHED () YES () NO	14. Discovered During () Rec'g () Const () Test
15. Equip Furnished By () Client () Eng () FLD					
16. NONCONFORMING CONDITION: THE FOLLOWING CABLE DAMAGE WAS FOUND IN ELEC. PEN. ASSEMBLY 12/15. MODULE B: CABLE B8 IS SCUFFED NEAR OUTBOARD END. CABLE D20 HAS NICK 16" FROM MODULE. CABLE A5 HAS NICK NEAR OUTBOARD END. MODULE C: CABLES J25 & L43 HAVE NICK 2' FROM OUTBOARD END... SEE PAGE 2...				24. DISPOSITION CONCURRENCE rework reject repair use as is PROJECT FIELD ENGINEER DATE PROJECT ENGINEER DATE PROJECT QC ENGINEER DATE AUTHORIZED INSPECTOR DATE	
17. REPORTED BY J.C. Miller		DATE 1-26-82		18. VALIDATED BY J.P. E. Smith	
		DATE 1-28-82		25. DISPOSITION RESULTS Cable work complete J.C. Miller 1-26-82	
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. <input checked="" type="checkbox"/> Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering Rework damaged cable using Bunker-Ramo procedure V.P. 7220-E20-182-1. J.C. Miller 1/26/82 (a.m.c.)					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE J.C. Miller 1-26-82 QC ENGINEER DATE AUTHORIZED INSPECTOR DATE					

BLOCK 16 CONT...

CABLES K318L37 HAVE NICKS 3' FROM MODULE.

MODULE G: CABLE Q23 HAS NICK 1'6" 4'10" AND 5'10" FROM MODULE, AND CABLES
F9, G17, F6, H9, E2, Q24, R28, E4 HAVE NICKS 6' FROM MODULE.

ALL DAMAGE IS TO JACKET ONLY.

Q-LIST NO. 3.002 2 HND TAGS APPLIED HOLD FOR ENB. DISP



Dale Green

NONCONFORMANCE REPORT

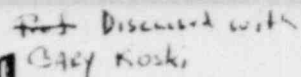
G. Sub

S/A IBNA

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 3917		20. PAGE 1 OF 2																	
2. UNIT(S) 1		3. DRAWING/PART NO. 1-610-5-40		REV B30		4. ITEM DESCRIPTION Conflict of Drawgs (See Block 16)		5. ITEM LOCATION Aux. Bldg. Pipeway Rm 21															
6. P.O. OR SPEC NO. N/A		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE Construction		10. CONTRACTOR/SUPPLIER N/A															
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. 22.10-1-610-5-40 NO. 1-326 Rev. 6		12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO		13. SKETCH ATTACHED () YES (X) NO		14. Discovered During () Rec'g (X) Const () Test		15. Equip Furnished By () Client (X) Eng () FLD													
16. NONCONFORMING CONDITION: Spec. 7220 19-326 Rev. 6 Sect. 5.1.1 states in part: "Pipe supports shall be installed in strict compliance with the component pipe support design sketches/drawgs." Contrary to the above, the detail for base plates on hanger "1-610-5-40 mark" 2A-1HCB-1-H31 is referenced to be installed per Civil drawing C-342 Rev 4 FOR C-3252 with a full penetration weld called out for welding of side stiffeners to the base plate. The hanger (continued on page 2)								24. DISPOSITION CONCURRENCE															
17. REPORTED BY J. Kurner DATE 1/27/82								rework				reject				repair				use as is			
								PROJECT FIELD ENGINEER				DATE				PROJECT ENGINEER				DATE			
								PROJECT ENGINEER				DATE				PROJECT ENGINEER				DATE			
								PROJECT ENGINEER				DATE				PROJECT ENGINEER				DATE			
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)								25. DISPOSITION RESULTS															
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering Redline LH 9829 with Resident Engineering approval 2982-6, resolves conflicts between the hanger sketch and C-342 rev. 4. A. H. Smith 2/15/82								AC agrees with field engineering's disposition using redline LH 9840. J. Kurner 2/25/82 W. Smith 2/23/82															
23. PROJECT ENGINEERING DISPOSITION								26. QC ACCEPTANCE J. Kurner QC ENGINEER DATE 2/20/82															
								AUTHORIZED INSPECTOR DATE															

Block 10 Continued:

Sketch was then revised without project engineering approval to show a partial penetration weld for the same item. The two aforementioned drawings are in direct conflict leaving acceptance criteria indeterminate.
Q-List # 4.102. (1) Held Tag Applied.



IR B. 11. 11. 11.

NONCONFORMANCE REPORT START UP CODE: 2BHA

A-lab

1. PROJECT NAME MIDLAND			JOB NO. 7220			19. NO. 3908		20. PAGE 1 OF 1			
2. UNIT(S) 2		3. DRAWING/PART NO. FSK-M-2ECB-8-4		REV 6		4. ITEM DESCRIPTION See Block #16		5. ITEM LOCATION Cont 2 32' W BL 634 2 1/2" 51' N			
6. P.O. OR SPEC NO. NA		7. SERIAL NO. NA		8. REPLACEMENT PART P/N NA REV NA SER NO. NA		9. SOURCE Construction		10. CONTRACTOR/SUPPLIER NA			
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. P112 FSK-M-2ECB-8-4 NO. M204		12. ASME AUTHORIZED INSPECTION REQ'D (X) YES () NO		13. SKETCH ATTACHED () YES (X) NO		14. Discovered During () Rec'g (X) Const () Test		15. Equip Furnished By () Client () Eng (X) FL	
16. NONCONFORMING CONDITION: Requirement: Specification M-204 paragraph 5.2.1 states at part; "Bochtel isometrics are the governing drawings for final spool configuration and installation." Condition; The socket weld located directly downstream of socket weld 14 is identified on Quality Control documentation and on the pipe as socket weld 13. However drawing FSK-M-2ECB-8-4 rev 6 does not identify this weld. "Q" list is 4.114 1 Hold tag applied						24. DISPOSITION CONCURRENCE rework reject repair use as is ✓ 2/18/82 PROJECT FIELD ENGINEER DATE PROJECT ENGINEER DATE PROJ CONST QC ENGINEER DATE AUTHORIZED INSPECTOR DATE					
17. REPORTED BY John Kramer		DATE 1/26/82 WS		VALIDATED BY [Signature]		DATE 1-27-82		25. DISPOSITION RESULTS Redline P-4946 P-4946 socket weld 13 and agrees with Quality Control documentation generated at time of installation per [Signature]			
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)											
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering Field redline P-4946 corrects this non conformance. (see) [Signature] 2/1/82											
23. PROJECT ENGINEERING DISPOSITION											
26. QC ACCEPTANCE [Signature] QC ENGINEER DATE AUTHORIZED INSPECTOR DATE											



IR Backlog

NONCONFORMANCE REPORT

START-UP² 1BTA

A-LAB

Discussed with F.E. W. Simpson 1-15-82

1. PROJECT NAME Midland		JOB NO. 7220		19. 3903 NO. 2838	20. PAGE 1 OF 1
2. UNIT(S) ONE	3. DRAWING/PART NO. FSK-M/HCB-83-2	REV 2	4. ITEM DESCRIPTION LINE 1/HCB-83	5. ITEM LOCATION Room #424 Elev. 643	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE Const.	10. CONTRACTOR/SUPPLIER N/A
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. P110-FSK-M NO 1/HCB-83-2-1	12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO	13. SKETCH ATTACHED () YES () NO	14. Discovered During () Rec'g () Const () Test
15. Equip Furnished By () Client () Eng () FLD				15. Equip Furnished By () Client () Eng () FLD	
16. NONCONFORMING CONDITION: Requirement: SPEC 1204 states in part "Bechtel isometrics (incl. iso's) are the governing drawing for final spool configuration and installation." + Ding FSK-M/HCB-83-2 Rev. 2 Red Line P-3090 requires LINE 1/HCB-83 installation using added coupling with P.W. #10 #11 assigned. Condition: Previous R/L P-1237 to Rev. 1 was not incorporated with Rev. 2. (R/L P-1237 also added F.W. #10 + #11 with a 90° ell inline at different location.) Welds required by Rev. 1 are complete. Line 1/HCB-83 is not installed to Rev. 2 + R/L P-3090. Q-List No. 4.212 (2) Hold Tags Applied				24. DISPOSITION CONCURRENCE rework reject repair use as is N/A 2/4/82 PROJECT FIELD ENGINEER DATE	
17. REPORTED BY Donald J. Lee		DATE 1-22-82	18. VALIDATED BY W. Smith	DATE 1-25-82	25. DISPOSITION RESULTS Document Control Never Notified QC of this condition. But further checking finds this to be a true statement therefore this is not a non conforming condition. W Smith 2-8-82
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering Drawing 1/HCB-83-2 has been void since 10-12-81. This is not a nonconforming condition. (W.F.) Rue Mail 2-2-82					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE W Smith				DATE 2-8-82	
QC ENGINEER				DATE	
AUTHORIZED INSPECTOR				DATE	

Discussed with T. Ostein

NONCONFORMANCE REPORT

start up code - 2 EBA

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 3874	20. PAGE 1 OF 1
2. UNIT(S) 2	3. DRAWING/PART NO. FSK-M-2HBC-555-3	REV 0	4. ITEM DESCRIPTION half coupling at FW 24	5. ITEM LOCATION Aux 1584 Rm 132	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE const./GC	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. See block #16 NO. M-488 Rev 8	12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO	13. SKETCH ATTACHED () YES () NO	14. Discovered During () Rec'g () Const () Test
15. Equip Furnished By () Client () Eng MFLD					
16. NONCONFORMING CONDITION: Requirement Spec M-488 rev 8 DCM #4 states that "F" bore dimension for 3/4" 3000 lb. class half coupling be .824" \pm .030 Condition: The F dimension of half coupling at FW 24 is .876" (measured using BPC 3186 Cal Due 5/10/82) Affected QRIR PW100 FSK-M-2HBC-555-3-24, log # 144425 Q list # 4,174 Q hold tag applied			24. DISPOSITION CONCURRENCE rework reject repair use as is PROJECT FIELD ENGINEER 1372482 PROJECT ENGINEER DATE PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE 1-13-82		
17. REPORTED BY John Kambhi 11/13/82		18. VALIDATED BY W. C. Paul 11/13/82		25. DISPOSITION RESULTS HALF COUPLING AT FIELD WELD 24 ACCEPTED PER "USE AS IS" DISPOSITION IN BLOCK 23 M. H. Q. 2/19/82	
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition <input checked="" type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering Field Engineering recommends that Project Engineering evaluate and if found to be acceptable to "use as is," if not remove and replace half coupling. (G.O.R.) Done Mail 1.18.82					
23. PROJECT ENGINEERING DISPOSITION PROJECT ENGINEERING DISPOSITION IS "USE AS IS" PER ENGR. CALL. FM-5000-13(R) THE 3/4" 3000 LB HALF COUPLING IN QUESTION HAS ACCEPTABLE REINFORCEMENT WITH THE AS BUILT "F" DIMENSION GIVEN IN BLOCK 16.					
26. QC ACCEPTANCE QC ENGINEER 2/19/82 AUTHORIZED INSPECTOR 2/17/82					

See pg. 3 for
concurrence

APD To Disposition 1/20/82



NONCONFORMING MATERIAL INSTALLATION CONDITIONAL RELEASE

1. Project No. 7220 2. Date 1-13-82 3. Page 2 of 2
4. Initiated By Ted Ostein
5. This is to approve the conditional installation or further work of the nonconforming material as shown on NCR 3874
if there are further restrictions on the conditional release they shall be noted in remarks below.
6. Location Aux 15841 Rm 132 7. ASME Authorized Inspection
Required. Yes ☒ No ☐
8. "Q" No. 174
9. Item Description half cooling pt. F11.24
10. Remarks:

A conditional release is granted to install
line 2-4BC-555-3.

Corrections or removal can be accomplished without
causing damage or contamination to associated
plant equipment or structure.

JOE 1-13-82

11. PFE [Signature] Date 13 Jan 82
12. PFQCE [Signature] Date 1/13/82
13. PQAE (ASME) [Signature] Date 1/13/82
14. Auth Insp (ASME) [Signature] Date 1/13/82
15. MPQAD [Signature] Date 1/13/82

16. Responsible QCE has identified Hold Tag "Conditional Release" and the limitation of the conditional release.

QCE [Signature] Date 1-13-82

NCR 3874 pg 2 of 2
1-13-82



NONCONFORMANCE REPORT (CONT'D)

20. PAGE 2 OF 3 11282 19. NCR NO 3874

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
			<input checked="" type="checkbox"/>
PROJECT FIELD ENGINEER		DATE 2/17/82	
PROJECT ENGINEER		DATE 2/18/82	
PROJECT CONSTR QC ENGINEER		DATE 2-18-82	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	



CONTACTED B HUSLEY 1-11-82 NONCONFORMANCE REPORT

S/L O E A A

1. PROJECT NAME MIDLAND		JOB NO. 07220		19. NO. 3871	20. PAGE 1 OF 1
2. UNIT(S) 2	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION CABLE OBB6805U	5. ITEM LOCATION 2 J1080 AND 2 M0848	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A	9. SOURCE FLD ENG	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO		14. Discovered During () Rec'd () Test	
16. NONCONFORMING CONDITION: PER WR 1205 RE-TAG CABLE OBB6805U TO OBB6805U, E37 SHOWS ONLY ONE CABLE WITH THIS CABLE IDENTIFICATION, CONTRARY TO THE ABOVE THERE NOW EXISTS TWO CABLES IDENTIFIED AS OBB6805U		13. SKETCH ATTACHED () YES () NO		15. Equip Furnished By () Client () Eng () FLD	
HOLD FOR ENG DISPOSITION PROJECTED LIST # 3.003		18. VALIDATED BY [Signature] 1-11-82		25. DISPOSITION RESULTS Incorrect cable pulled out and scrapped per Engineer's disposition D.E. [Signature] 2/19/82	
17. REPORTED BY [Signature] 1-11-82		18. DATE 1-11-82		26. DC ACCEPTANCE [Signature] 2/19/82	
21. ROUTING: N/A FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. N/A Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering		26. QC ENGINEER [Signature] 2/19/82	
23. PROJECT ENGINEERING DISPOSITION		24. DISPOSITION CONCURRENCE		26. AUTHORIZED INSPECTOR [Signature] 2/19/82	



Discussed with Doug Egnatuk

Ted O'Brien

NONCONFORMANCE REPORT

A LAB
S/C # OHEA

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3870	20. PAGE 1 OF 2
2. UNIT(S) 1	3. DRAWING/PART NO. FSA-M-1HCC-44-1	REV 4	4. ITEM DESCRIPTION PIPE SECTION BETWEEN VALVE	5. ITEM LOCATION Aux. 645' 17'S OF 2'W OF 12	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE CONST/QC	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. NO. M214 B	12. ASME AUTHORIZED INSPECTION REQ'D (X) YES () NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec'g (X) Const () Test
15. Equip Furnished By () Client (X) Eng () FLD			16. NONCONFORMING CONDITION: REQUIREMENT: SPEC. M-214 5 PARA 4.B.2 STATES FOR ALL PIPING 2 INCHES AND SMALLER - A PIPE SPILL OR ANY PART OF THE SYSTEM MAY VARY FROM DESIGN POSITION UP TO A MAXIMUM OF 4 INCHES.		
17. REPORTED BY Kanish Beraich DATE 1/8/82 WS			18. VALIDATED BY E. Smith DATE 1-12-82		
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
DRAWING HAS BEEN REVISED TO 1'-7" AS PER TRANS-MITTAL P.4808. Rich Mail 1.23.82					
23. PROJECT ENGINEERING DISPOSITION					
24. DISPOSITION CONCURRENCE rework reject repair use as is DoS PROJECT FIELD ENGINEER 1/28/82 PROJECT ENGINEER 1/28/82 PROJECT CONSULTING ENGINEER 1/28/82 AUTHORIZED INSPECTOR 1/28/82					
25. DISPOSITION RESULTS Dwg. Not Reflects As built condition as per Block 22 dis. position. 11 Smith 1.28.82					
26. QC ACCEPTANCE (X) 1/28/82 QC ENGINEER 1/28/82 AUTHORIZED INSPECTOR 1/28/82					



Block 16 CONTINUED

INSTALLED INSTALLATION BEYOND EXISTING TOLERANCE.

1 HOLD TAG APPLIED

Q-LIST 4.037



DISCUSSED WITH D. EGNATUK NONCONFORMANCE REPORT

1. PROJECT NAME <i>Midland</i>		JOB NO. <i>7220</i>		19. NO. <i>3869</i> PAGE <i>1</i> OF <i>1</i>	
2. UNIT(S) <i>2</i>	3. DRAWING/PART NO. <i>2-611-6-10</i>	REV <i>0/12</i>	4. ITEM DESCRIPTION <i>Cut off Expansion Anchor (See Block 10)</i>	5. ITEM LOCATION <i>Low Bldg. Room 10</i>	
6. P.O. OR SPEC NO. <i>N/A</i>	7. SERIAL NO. <i>N/A</i>	8. REPLACEMENT PART P/N <i>N/A</i> REV <i>N/A</i> SER NO. <i>N/A</i>	9. SOURCE <i>Construction</i>	10. CONTRACTOR/SUPPLIER <i>N/A</i>	

11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER	IR NO. <i>NO. C-305 Rev. 14</i>	12. ASME AUTHORIZED INSPECTION REQUIRED () YES (X) NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec'g (X) Const () Test	15. Equip. Furnished By () Client () Eng (X) FLTD
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16. NONCONFORMING CONDITION: *Specification 7220-C-305 Rev. 14, Sect. 4.15 states in part: "An expansion anchor which does not meet all the requirements of this specification and is therefore abandoned shall not be cut off at the concrete surface." Contrary to the above, an anchor # 2-611-6-10 mark # 10-2508-35-H10 one abandoned expansion anchor located directly above the larger plate was cut off at the face of the concrete. D-Test # 4.112. (1) and Log Applied.*

17. REPORTED BY <i>A. Hansen</i>	DATE <i>1/8/82</i>	18. VALIDATED BY <i>E. Amore</i>	DATE <i>1-12-82</i>
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21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering

FIELD TO COMPLETELY REMOVE EXPANSION ANCHOR, AND CONCRETE TO BE REPAIRED PER SEC. 7.1.2 OF SPEC. C.305.

Per Mail 1-20-82

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE	25. DISPOSITION RESULTS
26. QC ACCEPTANCE <i>QC Engineer</i>	27. AUTHORIZED INSPECTOR <i>QC Engineer</i>
28. DATE <i>2/17/82</i>	29. DATE <i>2/17/82</i>



Discussed With:
Woodie Woodward

NONCONFORMANCE REPORT S/L #1EGA

1. PROJECT NAME <i>Midland</i>		JOB NO. <i>7220</i>		19. NO. 3868	20. PAGE 1 OF 1
2. UNIT(S) <i>One</i>	3. DRAWING/PART NO. <i>FSK-M-1HBC-159-1</i>	REV <i>3</i>	4. ITEM DESCRIPTION <i>S.W. #1 (FSK-M-1HBC-159-1)</i>	5. ITEM LOCATION <i>Aux. Bldg. El. 599' 5 1/2"</i>	
6. P.O. OR SPEC NO. <i>N/A</i>	7. SERIAL NO. <i>N/A</i>	8. REPLACEMENT PART P/N <i>N/A</i> REV <i>N/A</i> SER NO. <i>N/A</i>	9. SOURCE <i>QC/Const.</i>	10. CONTRACTOR/SUPPLIER <i>N/A</i>	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. <i>PW-100-FSK-</i> NO. <i>M-1HBC-159-1-1</i>	12. ASME AUTHORIZED INSPECTION REQ'D (X) YES () NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec'g (X) Const () Test
15. Equip. Furnished By () Client (X) Eng () FLD			16. NONCONFORMING CONDITION: <i>Requirement: M-204 states in part - "Prior to installation all piping shall be visually checked for cleanliness." Condition: No documentation for verification of Cleanliness inspection of S.W. #1 is available. Ref: DWG FSK-M-1HBC-159-1</i>		
17. REPORTED BY <i>Louis F. Glatz</i> 1-7-82 <i>WJ</i>			18. VALIDATED BY <i>E. Smith</i> 1-12-82		
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering TO MEET THE CLEANLINESS CRITERIA OF THE ABOVE LINE AS PER DWG. M-480, LINE WILL BE FLUSHED CLEAN TO CLASS "C" CLEANLINESS LEVEL. THIS PRE-OPERATIONAL ACTIVITY WILL ASSURE THAT THE LINE IS FREE FROM ANY FOREIGN MATERIAL. FIELD RECOMMENDS "USE AS IS" (JOE) <i>Run Mail 1-20-82</i>					
23. PROJECT ENGINEERING DISPOSITION Project engineering concurs with Field Engineering disposition to "Use as is". Flushing prior to preoperational testing will assure the required class "C" cleanliness level of the line. No drawing or specification change required. <i>M. C. Van Sickle</i> 1-27-82 <i>CP Amador</i> 1/27/82 <i>Dis. Bldg</i> 1/28/82 <i>AE</i>					
24. DISPOSITION CONCURRENCE rework reject repair use as is <i>J. J. Subramanian</i> 1/28/82 PROJECT FIELD ENGINEER DATE <i>W. Smith</i> 1/28/82 PROJECT ENGINEER DATE <i>W. Smith</i> 2/3/82 PROJECT CONSTR. QC ENGINEER DATE <i>W. Smith</i> 2-3-82 AUTHORIZED INSPECTOR DATE					
25. DISPOSITION RESULTS QC concurs with use as is per Black 23 disposition <i>W. Smith</i> 2-3-82					
26. QC ACCEPTANCE <i>W. Smith</i> 2-3-82 QC ENGINEER DATE <i>W. Smith</i> 2-3-82 AUTHORIZED INSPECTOR DATE					

M
12/1/82
on

REV Dispositioned 1/28/82 on



OR OTHER FOREIGN MATTER (OTHER THAN GREASE OR OIL) SHALL BE REMOVED BY BRUSHING WITH STIFF FIBER OR WIRE BRUSHES, OR BY SCRAPING, OR BY CLEANING WITH SOLUTIONS OF ALKALINE CLEANERS...

Condition: CONTRARY TO THE ABOVE, STAINS AND APPARENT ZINC SALTS WERE NOT REMOVED PRIOR TO APPLICATION OF INTERMEDIATE COAT OF PHENOLINE 305 OVER CARBO-ZINC II AS PART OF SYSTEM 1B DWG A-72Q REV. 13.

Q LIST 2.201

1 HOLD TAG APPLIED

(Cont) the following sequence was used to repair marking and detachment of the inorganic zinc surface of the Unit 2 Fuel Handling Bridge:

- STEP I - Phenoline Solvent Wipe / Abrasive Scotchbrite Pads Over Entire Structure
- STEP II - Trisodium Phosphate Scrub w/ STIFF BRISTLE Brush over Entire Structure
- STEP III - Clear Water Flush Over Entire Structure
- STEP IV - Phenoline Solvent Wipe / Abrasive Scotchbrite Pads over Entire Structure
- STEP V - Trisodium Phosphate Scrub w/ STIFF BRISTLE Brush over Entire Structure
- STEP VI - Clear Water Flush over Entire Structure
- STEP VII - Abrasion of Markings and Stains with Sand Paper and/or metal wire brushes followed with Trisodium Phosphate Wash and Clear Water Flush on ~~all~~ miscellaneous areas throughout Fuel Handling Structure
- STEP VIII - Phenoline Solvent Wipe on Areas affected by Surface Prep Step VII

In accordance with Section 12.2.3 of Spec A-411(a) Rev. 9, any re-

HOLD FOR ENGINEERING DISPOSITION

maining stains were determined by the Field Engineer to not be detrimental to the functional coating requirements of the prime coat. These remaining stains were visually inspected by representatives of Bachtel M&S, Resident Architecture Group, and the CPEO Coating Consultant prior to application of intermediate coat of Phenoline 305.

SSPC-SP1 solvent cleaning does not apply to this work for the following reasons: Sec. 30.5pc A-411(a) Rev. 8 references standard to be incorporated in specifications as indicated. Sec. 3.1.1, A-411(a) Rev. 8 lists SSPC-SP1 solvent cleaning. The only parts of Spec. A-411(a) Rev. 8 which reference SSPC-SP1 as an indicated method of surface preparation are in Sec. 7.2 for blast cleaned surfaces and in Appendix B, SP-248 Procedure, A-411(a) Rev. 8. The Field recommends "Use as is."

Paul J. [Signature]



NONCONFORMING MATERIAL INSTALLATION CONDITIONAL RELEASE

1. Project No. 7220 2. Date 1-8-82 3. Page 3 of 3
4. Initiated By Jerry Frtrup
5. This is to approve the conditional installation or further work of the nonconforming material as shown on NCR 3858
If there are further restrictions on the conditional release they shall be noted in remarks below.
6. Location Fuel Pool Area EL. 659
7. ASME Authorized Inspection Required. Yes ☐ No ☒
8. "Q" No. 2.201
9. Item Description Reactor Building Fuel Handling Bridge

10. Remarks:

A conditional release is granted to complete coating requirements of system 18' sch. 4 drawing A-72 G Rev. 13.

Corrections or removal can be accomplished without causing damage or contamination to associated plant equipment or structure.

11. PFE [Signature] Date 1/5/82
12. PFOCE [Signature] Date 1-11-82
13. PQAE (ASME) [Signature] Date 1-11-82
14. Auth Insp (ASME) N/A Date N/A
15. MPQAD Donald E. Horn Date 1/11/82

16. Responsible QCE has identified Hold Tag "Conditional Release" and the limitation of the conditional release.

QCE William H. Harnisch Date 1/11/82

NCR 3858 pg 3 of 3



F.E. CONTACT: B. OLDHAM

NONCONFORMANCE REPORT

Shen

S/O - NON-TESTABLE

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3857	20. PAGE 1 OF 2
2. UNIT(S) COMMON	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION HIGH CONCRETE PLACEMENT TEMPERATURE	5. ITEM LOCATION Ave. Bldg. E. 634' W.; B.W. 47; 16A, B, C	
6. POUR SPEC NO. C-230	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE SUPPLIER	10. CONTRACTOR/SUPPLIER ALLIED CONCRETE
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO		13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec'g () Const (X) Test
15. Equip. Furnished By () Client (X) Ag () FLD		16. NONCONFORMING CONDITION: SPEC. C-230 <u>20</u> , SECTION 11.1 STATES IN PART THAT WITH AN AMBIENT AIR TEMP. OF 31° to 45°F, CONCRETE, WHEN DEPOSITED IN THE FORMS DURING COLD WEATHER, SHALL HAVE A TEMPERATURE WITHIN PLUS OR MINUS 10°F OF 60°F FOR THIN SECTIONS. CONTRARY TO THE ABOVE, CONCRETE WAS PLACED WITH AN END OF LINE TEMPERATURE OF 71°F. POUR #A(654.5)B'. G-LIST-1.205. HOLD FOR ENGINEERING DISPOSITION. 2 HOLD TAGS APPLIED.			
17. REPORTED BY Lane May		18. VALIDATED BY <i>[Signature]</i>		24. DISPOSITION CONCURRENCE rework reject repair use as is <i>[Signature]</i> 2/16/82 PROJECT FIELD ENGINEER DATE <i>[Signature]</i> 2/9/82 PROJECT ENGINEER DATE <i>[Signature]</i> 2/16/82 PROJ CONST QC ENGINEER DATE AUTHORIZED INSPECTOR DATE	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. () Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering FIELD ENGINEERING RECOMMENDS TO "USE AS IS". THE DIFFERENCE OF 1°F WILL NOT ADVERSELY AFFECT THE CONCRETE. THER- MOMETERS USED HAVE A TOLERANCE, ACCORDING TO MANUFACTURERS INSTRUCTIONS OF ±2°F. <i>Paul Rogers 2/16/82</i>		25. DISPOSITION RESULTS	
23. PROJECT ENGINEERING DISPOSITION 1°F HIGHER THAN THE MAXIMUM ALLOWABLE TEMPERATURE HAS LITTLE EFFECTS ON CONCRETE PROPERTY. THEREFORE, PROJECT ENGINEERING CONCURS WITH FIELD ENGINEERING RECOMMENDATION TO "USE AS IS". NO SPEC CHANGE IS REQ'D.		26. <i>[Signature]</i> 2/16/82 QC ENGINEER DATE AUTHORIZED INSPECTOR DATE			

RUR-C30208

A. Goel.
2-11-82 GR
R.C. Hoffman*P. Shen*
2/8/82*mt.*
55

IN-PROCESS CONCRETE TEST REPORT

Inspection Record No. C-131-199, 191 Date 1/4/82 Page 3 of 3

CONCRETE PLACEMENT IDENTIFICATION

- ④ Placement Identification A(654.5)B' Thin Section ☒ Thick ☐ Mass ☐
 ⑤ Concrete Class I ⑥ Mix No. PG-E ⑦ Entrained Air Content Limits 2-6%
 ⑧ Slump Working Limits 5" ⑨ Inadvertancy Margin +1"
 ⑩ Concrete Placing Temp. Limits 50-70°F ⑪ Weather Conditions Applicable: Hot ☐ Cold ☒

⑫ Ticket No.	⑬ Truck No.	⑭ Time	⑮ Cum. Yardage	⑯ Sampling Point	⑰ Slump ASTM C-143-74	⑱ Air Ent ASTM C-231-75	⑲ (0°F) Conc. Temp.	⑳ (0°F) Air Temp.	㉑ Unit Wt. ASTM C-138-74	㉒ Conc. Cyls. ASTM C-31-69 Test No. Amt.
48638	14	9:00	6	TG	5	3.3	70	35	N/A	N/A
↓	↓	↓	↓	TD	5	3.3	71	35		N/A
↓	↓	↓	↓	EDL	4 3/4	3.8	71	35		5/30 F-6
48637	13	8:50	2	Grout						
48640	13	10:15	12				60			
48641	14	10:55	18							
48642	18	11:35	④	Grout						

⑳ TESTING EQUIPMENT TO

Slump Rod 156 350 540, 154 Calibration Due Date 2/20/82, 2/21/82
 Slump Cone 147 149 Calibration Due Date 1/22/82 / 3.1.82
 Air Meter No. 4 87 Calibration Due Date 2.28.82 / 1.9.82
 Unit Wt. Cont. No. N/A Calibration Due Date N/A
 Scale No. N/A Calibration Due Date N/A
 Thermometer No. 628 626 Calibration Due Date 1.24.82 / 2.10.82

- ㉓ Concrete Rejected Cu. Yards 0
 ㉔ Concrete Sampled & Tested by PH. GW, SAT, TT, GT
 ㉕ Quality Control Engineer Lane May ㉖ Date 1/4/82



Discussed with Joe Buckley

NONCONFORMANCE REPORT

S/O # 261A

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3850		20. PAGE 1 OF 2	
2. UNIT(S) L		3. DRAWING/PART NO. FSK-M-ZHBC-120-1		REV 2		4. ITEM DESCRIPTION SEE BLOCK 1C	
6. P.O. OR SPEC NO. N/A		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N N/A REV N/A		SER NO. N/A	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. P120-1 by NO. 1246		12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO		13. SKETCH ATTACHED () YES () NO	
16. NONCONFORMING CONDITION		Requirement: AAPD/GG-1 Rev 6 paragraph 3.3 states "Project Quality Control inspection activities describe the minimum inspection activities and tasks that must be performed by Construction Quality Control to verify work performed ... conforms to the inspection reference criteria." Condition: Contrary to the above requirement, valves 191 and 196 on FSK-M-ZHBC-120-1 Rev 2 were installed without documented inspection of internals free of damage as required by the FAC-19130 Rev 4, thus rendering the quality of these valves indeterminate. Two hold tags applied.		14. Discovered During () Rec'g () Const () Test		15. Equip Furnished By () Client () Eng () JFLD	
17. REPORTED BY Charles Cross Jr 1/5/82		18. VALIDATED BY [Signature] 1-5-82		24. DISPOSITION CONCURRENCE		25. DISPOSITION RESULTS	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. () Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering		26. QC ACCEPTANCE [Signature] 2482		DATE 24-82	
23. PROJECT ENGINEERING DISPOSITION		VALVE 197 & 196 HAD SATISFACTORY RECEIPT INSPECTION RECORDS. GASKETS 1.60 WITH NO NOTED VISIBLE DAMAGE TO THE VALVE BODY OR INTERNALS. FIELD WELDS #83 & #71 (ADJACENT TO VALVE 197) & F.W. #62 & #61 (ADJACENT TO VALVE 196) WERE CHECKED FOR CLEANLINESS. AND ACCEPTED BY C.C. THE NONCONFORMING CONDITION APPEARS.		26. QC ACCEPTANCE [Signature] 2482		DATE 24-82	
Project Engineering concurs with the Field Engineering disposition to "use as is". With the satisfactory receipt inspection records at the jobsite for the valves, plus the hydrotest to be done for the system, the valves internals can be assured to be free from damage. No drawing or specification change required.		1-27-82		26. QC ACCEPTANCE [Signature] 2482		DATE 24-82	



Block 16 continued
CR-list 4.17c

BLOCK 22 CONT'D) TO BE AN OMISSION IN Q.C. RECORDS. WITH EXISTING SPECS. AND PROCEDURES BEING FOLLOWED DURING HANDLING AND INSTALLATION OF VALVES DURING CONSTRUCTION, NO CHANGE TO VALVE INTERNALS IS ANTICIPATED. THIS VALVE WILL BE HYDRO-TESTED WITH THE SYSTEM THUS ASSURANCE THE VALVE INTERNALS ARE FREE FROM DAMAGE. FIELD ENGINEERING RECOMMENDS "USE AS IS." (JOF)

Run Mail 1-1682-

7/2

NONPERFORMANCE REPORT

1. PROJECT NAME FALL		19. NO. 3849		20. PAGE 1 OF 1	
2. UNIT/SECTION FALL		5. ITEM LOCATION DOWNSIDE			
3. SUBPART NO. FALL		9. SOURCE CONCRETE			
4. P.O. OR SPECIES FALL		10. CONTRACTOR/SUPPLIER FALL			
5. SERIAL NO. FALL		13. SKETCH ATTACHED () YES () NO			
6. INSPECTOR FALL		14. DISCOVERED DURING () REGULAR () TEST			
7. OTHER FALL		15. EQUIP FURNISHED BY () CHEST () FIELD			
8. CONDITION FALL		24. DISPOSITION CONCURRENCE			
9. DISPOSITION FALL		25. DISPOSITION RESULTS			
10. DISPOSITION FALL		26. DC ACCEPTANCE DATE			
11. DISPOSITION FALL		27. AUTHORIZED INSPECTOR DATE			
12. DISPOSITION FALL		28. DISPOSITION DATE			
13. DISPOSITION FALL		29. DISPOSITION DATE			
14. DISPOSITION FALL		30. DISPOSITION DATE			
15. DISPOSITION FALL		31. DISPOSITION DATE			
16. DISPOSITION FALL		32. DISPOSITION DATE			
17. DISPOSITION FALL		33. DISPOSITION DATE			
18. DISPOSITION FALL		34. DISPOSITION DATE			
19. DISPOSITION FALL		35. DISPOSITION DATE			
20. DISPOSITION FALL		36. DISPOSITION DATE			
21. DISPOSITION FALL		37. DISPOSITION DATE			
22. DISPOSITION FALL		38. DISPOSITION DATE			
23. DISPOSITION FALL		39. DISPOSITION DATE			
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25. DISPOSITION FALL		41. DISPOSITION DATE			
26. DISPOSITION FALL		42. DISPOSITION DATE			
27. DISPOSITION FALL		43. DISPOSITION DATE			
28. DISPOSITION FALL		44. DISPOSITION DATE			
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66. DISPOSITION FALL		82. DISPOSITION DATE			
67. DISPOSITION FALL		83. DISPOSITION DATE			
68. DISPOSITION FALL		84. DISPOSITION DATE			
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80. DISPOSITION FALL		96. DISPOSITION DATE			
81. DISPOSITION FALL		97. DISPOSITION DATE			
82. DISPOSITION FALL		98. DISPOSITION DATE			
83. DISPOSITION FALL		99. DISPOSITION DATE			
84. DISPOSITION FALL		100. DISPOSITION DATE			

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NONCONFORMING MATERIAL INSTALLATION CONDITIONAL RELEASE

1. Project No. 7220 2. Date 1-1-82 3. Page 2 of 2
4. Initiated By John Frankling
5. This is to approve the conditional installation or further work of the nonconforming material as shown on NCR 3349
If there are further restrictions on the conditional release they shall be noted in remarks below.
6. Location Bay #3 Elev 640' D.C. Bldg 7. ASME Authorized Inspection
Required. Yes ☒ No ☐
8. "Q" No. 4102
9. Item Description FW 98 34 salt coupling

10. Remarks:

A conditional release is granted to complete installation of piping from subject salt coupling. Corrections or removal can be accomplished without causing damage or contamination to associated plant equipment or structure.

11. PFE [Signature] Date 2-1-82
12. PFOCE [Signature] Date 2-1-82
13. PQAE (ASME) [Signature] Date 2-1-82
14. Auth Insp (ASME) [Signature] Date 2-1-82

15. Responsible QCE has identified this Tag "Conditional Release" and the limitation of the conditional release.

QCE [Signature] Date 2/2/82



NONCONFORMANCE REPORT

SU No. 28K8

1. PROJECT NAME <i>Midland</i>		JOB NO. <i>7220</i>		19. NO. <i>3848</i>	20. PAGE <i>1 OF 1</i>
2. UNIT(S) <i>3</i>	3. DRAWING/PART NO. <i>FSK-M-2HCB-141-2</i> <i>FSK-M-2HCB-140-1</i>	REV <i>5</i> <i>4</i>	4. ITEM DESCRIPTION <i>Line 1/2" 2HCB-141</i> <i>Line 1/2" 2HCB-140</i>	5. ITEM LOCATION <i>Area Bldg</i> <i>EL573 Rm 28 b26</i>	
6. P.O. OR SPEC NO. <i>NA</i>	7. SERIAL NO. <i>NA</i>	8. REPLACEMENT PART P/N <i>NA</i> REV <i>NA</i> SER NO. <i>NA</i>		9. SOURCE <i>Contr.</i>	10. CONTRACTOR/SUPPLIER <i>NA</i>
11. INSPECTION CRITERIA <input type="checkbox"/> DWG <input checked="" type="checkbox"/> SPEC <input type="checkbox"/> OTHER		12. ASME AUTHORIZED INSPECTION REQ'D <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		13. SKETCH ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	14. Discovered During <input type="checkbox"/> Rec'g <input checked="" type="checkbox"/> Const <input type="checkbox"/> Test
15. Equip Furnished By <input type="checkbox"/> Client <input checked="" type="checkbox"/> Eng <input type="checkbox"/> FLD		16. NONCONFORMING CONDITION: <i>Requirement: M204 States: Bechtel</i> <i>Assemblies (installation isometrics) are the governing</i> <i>Drawings for final spool configuration and installation.</i> <i>Condition: Contrary to the above, lines 1/2" 2HCB-140 and</i> <i>1/2" 2HCB-141 on Dwg's FSK-M-2HCB-140-1 & FSK-M-2HCB-</i> <i>141-2 are not installed per the latest revisions.</i> <i>Robot 4.136</i>			
17. REPORTED BY <i>Rex Pung</i>		DATE <i>12-30-81</i>		18. VALIDATED BY <i>E. Smith</i>	
19. DATE <i>1-5-82</i>		20. HOLD TAGS <i>8 Hold Tags</i>			
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING <input type="checkbox"/> TO OTHERS (SPECIFY)		22. <input checked="" type="checkbox"/> Field Engineering Disposition <input type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering			
23. PROJECT ENGINEERING DISPOSITION <i>This is NOT A NON CONFORMANCE. Piping 1/2" 2HCB-140</i> <i>AND 1/2" 2HCB-141 WAS INSTALLED TO AN EARLIER REVISION OF</i> <i>THE DRAWINGS LISTED IN BLOCK 3. A SUBSEQUENT DESIGN Dwg.</i> <i>REVISION DOES NOT CONSTITUTE A NON CONFORMING CONDITION.</i> <i>THE CONSTRUCTION ON THIS ISO. IS NOT YET COMPLETE. Run Mail 2182</i>					
24. DISPOSITION CONCURRENCE <i>NA</i>					
25. DISPOSITION RESULTS <i>PIPING TO BE REMOVED</i> <i>AND REWORKED IN</i> <i>ACCORDANCE WITH 1175-7</i> <i>DRAWINGS, THEREFORE</i> <i>THIS IS NO LONGER A</i> <i>NON CONFORMANCE CONDITION</i> <i>BE ASPECT 1208</i>					
26. QC ACCEPTANCE <i>E. Smith</i>					
QC ENGINEER <i>E. Smith</i>					
AUTHORIZED INSPECTOR <i>E. Smith</i>					

Discussed with:
Bretch, Lowell

NONCONFORMANCE REPORT # 167C

1. PROJECT NAME Midland		JOB NO. 2220		19. NO. 3843	20. PAGE 1 OF 2
2. UNIT(S) ONE		3. DRAWING/PART NO. FSK-12-1408-80-2		5. ITEM LOCATION Aux bldg.	
6. P.O. OR SPEC NO. N/A		7. SERIAL NO. N/A		9. SOURCE QC	
8. REPLACEMENT PART P/N 1408-80-2		SER NO. N/A		10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		12. ASME AUTHORIZED INSPECTION REQ'D (X) YES () NO		14. Discovered During () Rec'g (X) Const	
16. NONCONFORMING CONDITION Requirement: Quality Control Instruction Act. 2.8 states "Inspect the valve or inline component 'internals' prior to the final installation closure to confirm this free from damage 'Contrary to the above: Valves, 6" ECBS (502) and 8" ECBS (492) were installed and did not have activity 2.8 documented or verified by Quality Control prior to final closure on Day FSK m. JHCB-80-2. Order No. 4215		13. SKETCH ATTACHED () YES (X) NO		15. Equip. Furnished By () Client (X) Eng	
17. REPORTED BY David Ayre 12/30/81		18. VALIDATED BY E. Duce 12-30-81		24. DISPOSITION CONCURRENCE QC concurs with use as is per Block 23 disposition W Smith 2482	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY) Field Engineering Disposition		22. Field Engineering Recommended Disposition to Project Engineering Field Engineering Recommended Disposition to Project Engineering		25. DISPOSITION RESULTS QC concurs with use as is per Block 23 disposition W Smith 2482	
23. PROJECT ENGINEERING DISPOSITION Project Engineering concurs with the Field Engineering disposition to use as is. With the satisfactory inspection records at the jobsite for the valves, plus the hydrotest to be done for the system, the valves' internals can be assured to be free from damage. No drawing or specification change required.					
26. QC ACCEPTANCE W Smith 2482		QC ENGINEER W Smith 2482		DATE 2-4-82	
AUTHORIZED INSPECTOR W Smith 2482		DATE 2-4-82		DATE 2-4-82	

W.C. Thompson 1-29-82

CRAMER 1/27/82

QE VS 1-29-82



BLOCK 22 CONT.) RECORDS. WITH EXIST. SPECS. AND PROCEDURES BEING FOLLOWED DURING HANDLING AND INSTALLATION OF VALVES DURING CONSTRUCTION, NO DAMAGE TO VALVE INTERNALS IS ANTICIPATED. ALSO, THESE VALVES WILL BE HYDRO TESTED WITH THE SYSTEM THUS ASSURANCE THE VALVE INTERNALS ARE FREE FROM DAMAGE. FIELD ENGINEERING RECOMMENDS "USE AS IS" (JOE)

Run Mail 1.16.82

Person Contacted:
Beth Hulsey

NONCONFORMANCE REPORT

Job # LEAD

1. PROJECT NAME Midland		JOB NO. 7220		19. Rev. NO. 3841		20. PAGE 1 OF 1	
2. UNIT(S) 1		3. DRAWING/PART NO. N/A		4. ITEM DESCRIPTION (Q) Cable		5. ITEM LOCATION coiled at tray	
6. P.O. OR SPEC NO. N/A		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N N/A		9. SOURCE Construction	
11. INSPECTION CRITERIA () DWG () SPEC (X) OTHER		IR NO. IAB2310B		12. ASME AUTHORIZED INSPECTION RECD () YES (X) NO		13. SKETCH ATTACHED () YES (X) NO	
16. NONCONFORMING CONDITION: The above cable was cut through the outer jacket exposing the inner conductors. Thus making the quality of the cable indeterminate.				14. Discovered During () Rec'g (X) Const () Test		15. Equip. Furnished By () Client (X) Eng () FLTD	
Q-List # 3.007				24. DISPOSITION CONCURRENCE		25. DISPOSITION RESULTS	
# Hold tags applied 2 (1 at each end of cable)				18. VALIDATED BY T.A. Perry		17. REPORTED BY DATE 12/22/81	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)				26. DC ACCEPTANCE DATE 2-22-82		27. DC ENGINEER DATE 2-22-82	
22. () Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering				28. AUTHORIZED INSPECTOR		29. AUTHORIZED INSPECTOR	
<p>By VISUAL INSPECTION NO DAMAGE IS DONE TO THE INNER CONDUCTORS. CABLE IAB2310B IS TO BE REPAIRED WITH RAYCHEM THERNOFIT JACKET REPAIR SLEEVE (JRS). AFTER REPAIR, CABLE IS TO BE "USED AS IS." (JWS) 1-18-82 SEE PG. 3 FOR DISPOSITION TO CORRECTED COPY.</p> <p>THE DAMAGED OUTER JACKET IS TO BE REPAIRED USING RAYCHEM WCSF-N SLEEVE PER RAYBESTOS SUBMITTAL 7220-EGG-A-4. AFTER REPAIR "USE AS IS" NO DUTY REV. REQ.</p> <p>WCSF 2-4-82</p> <p>WCSF 2-3-82</p> <p>WCSF 2-4-82</p> <p>RWS #FB1003</p>							





NONCONFORMING MATERIAL INSTALLATION CONDITIONAL RELEASE

1. Project No. 7220 2. Date 19 Jan 1982 3. Page 1 of 1
4. Initiated By J. Wayne Slocumb
5. This is to approve the conditional installation or further work of the nonconforming material as shown on NCR 3841
If there are further restrictions on the conditional release they shall be noted in remarks below.
6. Location 1B23, 1M01996A, and adj. raceways
7. ASME Authorized Inspection Required. Yes ☐ No ☒
8. "Q" No. 3.007
9. Item Description electrical cable 1AB2310B

10. Remarks:

need conditional release ASAP in order to pull into remaining raceways & equip - and Terminate. Needed to support system turnover corrections or removal can be accomplished without causing damage or contamination to associated plant equipment or structure

J. Wayne Slocumb
1-19-82 ET 363

11. PFE [Signature] Date 1/19/82
12. PFOCE [Signature] Date 1/19/82
13. PQAE (ASME) [Signature] Date 1/19/82
14. Auth Insp (ASME) N/A Date N/A
15. MPQAD M. J. Schaefer Date 1/19/82

16. Responsible QCE has identified Hold Tag "Conditional Release" and the limitation of the conditional release.

QCE T.A. Perry Date 1-19-82

Corrected Copy

LOT 1000

NONCONFORMANCE REPORT (CONT'D)

Block 16 (CONTINUED) QC COMMENT: CABLE PULLED THROUGH VIAS AKB006, AJ1E3 AND ADO40. DAMAGED SECTION OF CABLE IS LOOPED AT THE SECOND CONDUIT IN CONDUIT AKB006 FROM TRAY SECTION 1AKB02. CABLE WAS CONDITIONALLY RELEASED FOR CABLE PULLING. NCR TAG WAS REAPPLIED AFTER CABLE PULL. Ear Owen, QCE 1-22-82.

Block 22 CONTINUED: ADDITIONAL Q.L. COMMENT, PER CORRECTED COPY (1-25-82) DOES NOT AFFECT/CHANGE FIELD ENGINEERING'S DISPOSITION AS PRESENTLY WRITTEN (1-18-82)
Ear Owen 1-28-82



NONCONFORMANCE REPORT

S/O - NON TESTABLE

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3840	20. PAGE 1 OF 1
2. UNIT(S) Common	3. DRAWING/PART NO. C-2080-1 (Q)	REV 3	4. ITEM DESCRIPTION Additional Wall Reinforcement	5. ITEM LOCATION Area 634-6 Bw 6C	
6. P.O. OR SPEC NO. NA	7. SERIAL NO. NA	8. REPLACEMENT PART P/N NA REV NA SER NO. NA	9. SOURCE Construction	10. CONTRACTOR/SUPPLIER NA	
11. INSPECTION CRITERIA <input checked="" type="checkbox"/> DWG <input type="checkbox"/> SPEC <input type="checkbox"/> OTHER		IR NO. C-2080-19 NO. Rev. 3	12. ASME AUTHORIZED INSPECTION REQ'D <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	13. SKETCH ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	14. Discovered During <input type="checkbox"/> Rec'g <input checked="" type="checkbox"/> Const <input type="checkbox"/> Test
15. Equip Furnished By <input type="checkbox"/> Client <input type="checkbox"/> Eng <input checked="" type="checkbox"/> FLD		16. NONCONFORMING CONDITION Draw. 2080-1 & Rev. 3. Detail 13 calls for additional reinforcement at the elevator rail inserts [on Bw 634-6 EL. 634-6]; [2#6 E.F. with #4 TIES @ 12" O.C. + #5 Dowels, 2E]. Contrary to this, the rebar in Detail 13 was omitted. GUST-1.203. HOLD FOR ENGINEERING DISPOSITION. 2-HOLD TAGS APPLIED.			
17. REPORTED BY PD. BRUCE ASHER		DATE 12-18-81	18. VALIDATED BY V. E. [Signature]	DATE 12-28-81	24. DISPOSITION CONCURRENCE rework reject repair use as is [Signature] 2/14/82 PROJECT FIELD ENGINEER DATE [Signature] 1/27/82 PROJECT ENGINEER DATE [Signature] 2/14/82 PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING <input type="checkbox"/> TO OTHERS (SPECIFY)		25. DISPOSITION RESULTS			
22. <input type="checkbox"/> Field Engineering Disposition <input checked="" type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering FIELD RECOMMENDS TO "USE AS IS". Paul [Signature] 1/6/82					
23. PROJECT ENGINEERING DISPOSITION The wall may be "used as is". Letter reported GSA (20-69.1), Aug. chng. required (C-2080-1) no coordination required. J. K. [Signature] 1-25-82 "use as is", reference calculations no. 20-69.1, Aug. 1986. Draw. C-2080-1 (Q) will be revised to incorporate the changes. no coordination required. J. K. [Signature] 1-26-82 11-11-82 NA > 5 OE-BKK					
26. OG ACCEPTANCE [Signature]		DATE 2-14-82			
OC ENGINEER		DATE			
AUTHORIZED INSPECTOR		DATE			

C
1/7/82
SM

old to disposition 1/6/82 SM



STURT UP SYSTEM 2SBA

NONCONFORMANCE REPORT

1. PROJECT NAME MIDLAND PLANT		JOB NO. 7220		19. NO. 3837	20. PAGE 1 OF 2	
2. UNIT(S) 2	3. DRAWING/PART NO. E37, REV 51; E900, REV 55	REV	4. ITEM DESCRIPTION CABLE 2AY1103A	5. ITEM LOCATION AUX BLDG		
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE CONSTRUCTION	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. 2AY1103A NO. QC NM	12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO	13. SKETCH ATTACHED () YES () NO	14. Discovered During () Rec'g () Const () Test	15. Equip. Furnished By () Client () Eng () FLD
16. NONCONFORMING CONDITION: CONTRARY TO APPD/PSP G-3.2, ARTICLE 3.4 CONSTRUCTION TERMINATED CABLE 2AY1103A AT 2CA1 AFTER NCR 3654 WAS WRITTEN ON THE SAME CABLE WITHOUT OBTAINING A CONDITIONAL RELEASE NCR WAS VALIDATED 9/4/81, CABLE TERMINA- TION RELEASED TO QC ON 12/8/81.				24. DISPOSITION CONCURRENCE rework reject repair use as is BTM/Min/Ind/DC 2102/1/82 PROJECT FIELD ENGINEER DATE PROJECT ENGINEER DATE PROJ CONSTR QC ENGINEER 1-27-82 DATE AUTHORIZED INSPECTOR DATE		
17. REPORTED BY Boris Fagerman		DATE 12-23-81		18. VALIDATED BY RL E. Smith		DATE 12-23-81
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)				25. DISPOSITION RESULTS DISPOSITION ACCEPTED PER BLOCK 24		
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering ALL PERSONNEL INVOLVED WITH THE TERMINATION OF CABLES HAVE BEEN INFORMED THAT A CONDITIONAL RELEASE IS REQUIRED BEFORE CABLES ARE TO BE TERMINATED WITH Q.C. HoldTAGS Applied (JWS) 1-10 1-25 1-25				26. DC ACCEPTANCE Boris Fagerman DC ENGINEER DATE 1-24-82 AUTHORIZED INSPECTOR DATE		
23. PROJECT ENGINEERING DISPOSITION						

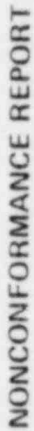


BLOCK 16 , CONT. FROM PAGE 1

HOLD FOR ENG. DISPOSITION

Q LIST #3.007

HOLD TAG APPLIED



NONCONFORMANCE REPORT

3/4 1GJA

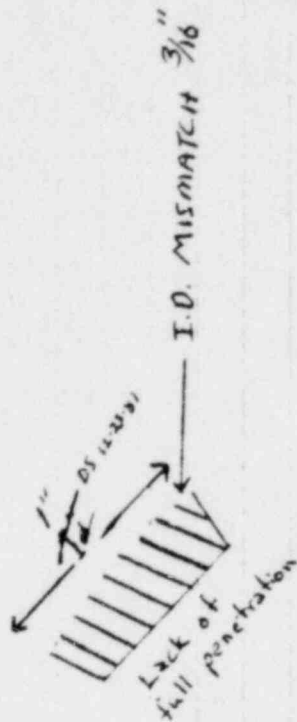
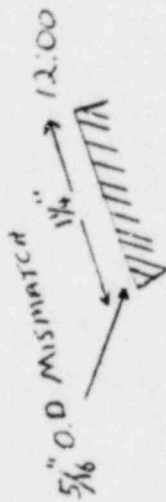


NONCONFORMANCE REPORT START UP CODE: 2BGA

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3834	20. PAGE 1 OF 2																				
2. UNIT(S) 2	3. DRAWING/PART NO. 111604 SH17	REV 10/F1	4. ITEM DESCRIPTION WELD #87, 4"-2HCC-76	5. ITEM LOCATION Ann. EL 615' RM 315																					
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N NA REV NA SER NO. NA	9. SOURCE CONSTRUCTION	10. CONTRACTOR/SUPPLIER N/A																					
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. N/A NO. M204 rev. 15	12. ASME AUTHORIZED INSPECTION REQ'D (X) YES () NO	13. SKETCH ATTACHED (X) YES () NO	14. Discovered During () Rec'g (X) Const () Test																				
15. Equip Furnished By () Client () Eng (X) FLD			16. NONCONFORMING CONDITION:																						
<p>Requirement: ① SPECIFICATION M204 PARA. 5.1.3 4. STATES BUTT WELDS SHALL HAVE FULL PENETRATION: ② ASME SEC. III DIV. I NO 4232. REQUIRES MAX. OFFSET OF COMPLETED WELDS NOT EXCEED $\frac{1}{4}T$ FOR PIPE WALL THICKNESSES UP TO $\frac{1}{2}$". CONDITION: ① FIELD WELD 87, DWG M204 SH17, HAS INCOMPLETE PENETRATION IN TWO LOCATIONS. (SEE SKETCH) ② ALSO THIS WELD HAS TWO LOCATIONS WHERE OFFSET IS IN EXCESS OF $\frac{1}{4}T$ ($4" \text{ SCH. 10 } .120" \times .25" = .03" \text{ OR APPROX. } \frac{1}{32}"$) (SEE SKETCH)</p>																									
17. REPORTED BY D Smith		DATE 12-23-81	18. VALIDATED BY [Signature]	DATE 12-28-81	24. DISPOSITION CONCURRENCE																				
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		<table border="1"> <tr> <td>rework</td> <td>reject</td> <td>repair</td> <td>use as is</td> </tr> <tr> <td colspan="4"> [Signature] PROJECT FIELD ENGINEER DATE </td> </tr> <tr> <td colspan="4">PROJECT ENGINEER DATE</td> </tr> <tr> <td colspan="4">PROJ CONSTR QC ENGINEER DATE</td> </tr> <tr> <td colspan="4">AUTHORIZED INSPECTOR DATE 12-30-81</td> </tr> </table>				rework	reject	repair	use as is	[Signature] PROJECT FIELD ENGINEER DATE				PROJECT ENGINEER DATE				PROJ CONSTR QC ENGINEER DATE				AUTHORIZED INSPECTOR DATE 12-30-81			
rework	reject	repair	use as is																						
[Signature] PROJECT FIELD ENGINEER DATE																									
PROJECT ENGINEER DATE																									
PROJ CONSTR QC ENGINEER DATE																									
AUTHORIZED INSPECTOR DATE 12-30-81																									
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering		25. DISPOSITION RESULTS																							
<p>Joint, mismatch to be ground and rewelded to meet specification M-204 requirements. (see sketch)</p> <p>Re-work joint to be cut and rewelded to meet specification M-204 requirements. (see sketch)</p> <p>Run Weld 1-4-82</p>		<p>ITEM REWORKED PER DISPOSITION AND ACCEPTED ON GCIR M-604-17-87C1, LOG #145877. Robert Lohrke 2/3/82</p>																							
23. PROJECT ENGINEERING DISPOSITION		26. QC ACCEPTANCE																							
		<table border="1"> <tr> <td>QC ENGINEER</td> <td>DATE</td> </tr> <tr> <td>[Signature]</td> <td>1/3/82</td> </tr> <tr> <td>AUTHORIZED INSPECTOR</td> <td>DATE</td> </tr> <tr> <td>[Signature]</td> <td>2/3/82</td> </tr> </table>				QC ENGINEER	DATE	[Signature]	1/3/82	AUTHORIZED INSPECTOR	DATE	[Signature]	2/3/82												
QC ENGINEER	DATE																								
[Signature]	1/3/82																								
AUTHORIZED INSPECTOR	DATE																								
[Signature]	2/3/82																								

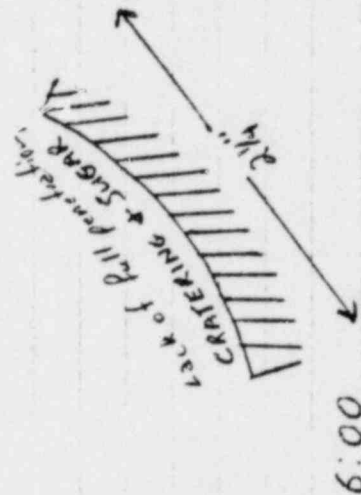
see p 3 for
conformance

BLOCK #16 CONTINUED



9:00

3:00



6:00

FACING WEST

Q-LIST NO. 4.047

1 HOLD TAG APPLIED



NONCONFORMANCE REPORT (CONT'D)

20, PAGE 3 OF 3, 19, NCR NO. 3834

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

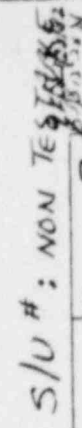
24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	



CONTACTED: B. O'LOHM (F.E.) NONCONFORMANCE REPORT

S/U # : NON TESTED

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3832		20. PAGE 1 of 2	
2. UNIT(S) J & II		3. DRAWING/PART NO. N/A		4. ITEM DESCRIPTION NEW TYPE I CEMENT GRIND		5. ITEM LOCATION BATCH PLANT	
6. P.O. OR SPEC NO. 46194Q		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE SUBCUTANEA	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		12. ASME AUTHORIZED INSPECTION REG'D () YES (X) NO		13. SKETCH ATTACHED () YES (X) NO		14. Discovered During () Rec'd (X) Const (X) Test	
16. NONCONFORMING CONDITION: SECTIONS 7.1 & 12.2.1 STATES IN PART THAT NEW CEMENT GRINDS SHALL BE TESTED PRIOR TO USE IN ACCORDANCE TO ASTM C-150 LATEST REVISION (FOR # C3300). CONTRACTOR TO THE ABOVE, THE NEW CEMENT GRIND ACCEPTANCE TEST IS IN PROGRESS, CONSEQUENTLY PLACING THE SAID CEMENT "IN DETERMINANT." NO Q LIST # . (1) ONE		17. REPORTED BY D. J. Leonard DATE 12-22-81		18. VALIDATED BY [Signature] DATE 12-23-81		19. AUTHORIZED INSPECTOR [Signature] DATE 12-23-81	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering		23. PROJECT ENGINEERING DISPOSITION COMPLETED TESTING REVEALS THE CEMENT IN QUESTION MEETS ASTM STANDARDS AND PROJECT SPECIFICATIONS. REFERENCE ATTACHED REPORT FROM SUPPLIER AND INDEPENDENT LAB REPORT (U.S. TESTING CO.) AMENDED REPORT.		24. DISPOSITION RESULTS	
25. DISPOSITION CONSEQUENCE		26. DISPOSITION RESULTS		27. DISPOSITION RESULTS		28. DISPOSITION RESULTS	
29. DISPOSITION RESULTS		30. DISPOSITION RESULTS		31. DISPOSITION RESULTS		32. DISPOSITION RESULTS	
33. DISPOSITION RESULTS		34. DISPOSITION RESULTS		35. DISPOSITION RESULTS		36. DISPOSITION RESULTS	
37. DISPOSITION RESULTS		38. DISPOSITION RESULTS		39. DISPOSITION RESULTS		40. DISPOSITION RESULTS	
41. DISPOSITION RESULTS		42. DISPOSITION RESULTS		43. DISPOSITION RESULTS		44. DISPOSITION RESULTS	
45. DISPOSITION RESULTS		46. DISPOSITION RESULTS		47. DISPOSITION RESULTS		48. DISPOSITION RESULTS	
49. DISPOSITION RESULTS		50. DISPOSITION RESULTS		51. DISPOSITION RESULTS		52. DISPOSITION RESULTS	
53. DISPOSITION RESULTS		54. DISPOSITION RESULTS		55. DISPOSITION RESULTS		56. DISPOSITION RESULTS	
57. DISPOSITION RESULTS		58. DISPOSITION RESULTS		59. DISPOSITION RESULTS		60. DISPOSITION RESULTS	
61. DISPOSITION RESULTS		62. DISPOSITION RESULTS		63. DISPOSITION RESULTS		64. DISPOSITION RESULTS	
65. DISPOSITION RESULTS		66. DISPOSITION RESULTS		67. DISPOSITION RESULTS		68. DISPOSITION RESULTS	
69. DISPOSITION RESULTS		70. DISPOSITION RESULTS		71. DISPOSITION RESULTS		72. DISPOSITION RESULTS	
73. DISPOSITION RESULTS		74. DISPOSITION RESULTS		75. DISPOSITION RESULTS		76. DISPOSITION RESULTS	
77. DISPOSITION RESULTS		78. DISPOSITION RESULTS		79. DISPOSITION RESULTS		80. DISPOSITION RESULTS	
81. DISPOSITION RESULTS		82. DISPOSITION RESULTS		83. DISPOSITION RESULTS		84. DISPOSITION RESULTS	
85. DISPOSITION RESULTS		86. DISPOSITION RESULTS		87. DISPOSITION RESULTS		88. DISPOSITION RESULTS	
89. DISPOSITION RESULTS		90. DISPOSITION RESULTS		91. DISPOSITION RESULTS		92. DISPOSITION RESULTS	
93. DISPOSITION RESULTS		94. DISPOSITION RESULTS		95. DISPOSITION RESULTS		96. DISPOSITION RESULTS	
97. DISPOSITION RESULTS		98. DISPOSITION RESULTS		99. DISPOSITION RESULTS		100. DISPOSITION RESULTS	



BLOCK 16 CONTINUED: HOLD TAG APPLIED FOR "Q" APPLICATIONS.

NOTE! THE CEMENT GRIND PREVIOUS TO THE NEW GRIND MENTIONED ABOVE (GRIND APRIL 23-29, 1981) HAS BEEN ACCEPTED & IS BEING STORED IN AETNA CEMENTS SILO #12. THE NEW CEMENT GRIND MENTIONED HEREIN, WAS CONVEYED TO SILO #12 WHICH SUBSEQUENTLY CONTAMINATED SILO #12 WITH CEMENT ²⁰⁻²⁻¹⁹⁻⁸¹ NOT HAVING ~~NEW~~ ACCEPTANCE CRITERIA. CONSEQUENTLY, THE ENTIRE (SILO #12) AMOUNT OF STORED CEMENT IS "INDETERMINANT" UNTIL SATISFACTORY RESULTS ARE OBTAINED FROM U.S. TESTINGS HOBOKAN LABORATORIES.

MIDLAND PLANT
BECHTEL POWER CORPORATION
PROJECT NO. 7220

TEST REQUEST

TO: U.S. Testing

DATE: 12-8-81

ATTN: J. Speltz

FROM: B. DeArmond

PROJECT: 7220

CLIENT Bechtel

TYPE OF SAMPLE: COMPOSITE SAMPLE OBTAINED FROM AETNA CEMENT
REPRESENTATIVE WHICH WAS SAMPLED BY A ^{BD} ~~AA~~ CONTINUOUS SAMPLING DEVICE
USERS TESTNO. 12-8-81

REPRESENTING: NEW GR. 1 OF TYPE I CEMENT BEING CONVEYED &
STORED IN SILO #12. SAMPLE WAS GROUND ON DECEMBER 4, 5, & 7, 1981.

SPECIAL INSTRUCTIONS: Send to Hoboken and TESTING IS IN ACCORDANCE
TO 7220/C208 ^{BD} FOR C3300
ASTM C-150 LATEST REV.

TIME AND DATE SAMPLED: * 1600 12-8-81 UST LOG# 12814

SAMPLED BY: * BD, QC ; BO FE

* TO BE FILLED IN BY PERSON OBTAINING THE REQUIRED SAMPLES AND RETURNED
TO BECHTEL Q.C.

J.E. (BECHTEL)

B. DeArmond 12-9-81

S.T. (LAB CHIEF)

MTR-1 Rev. 2

Page 3 of 3

REPRESENTS 1655.5 TONS PRODUCTION
IN ACCORDANCE WITH ASTM C150-81 PER
AETNA CEMENT REPRESENTATIVE

NCR 3832

Page 3 of 3

Aetna Cement Corporation

P.O. Box 80
Essexville, MI 48732
(517) 894-4581

DATE: December 22, 1981

LABORATORY TEST REPORT

CEMENT TYPE: I

CONSIGNED TO: Allied Concrete Products, Inc.

Date of Shipment	Carrier	Amount Shipped	Silo #12
------------------	---------	----------------	----------

PHYSICAL TEST DATA

				AETNA	
Fineness 325, % Passing	-	-		94.8	%
Fineness Blaine	-	-		4360	cm ² /g
Soundness	-	-		0.06	%
Gillmore Setting, Initial	-	-	2	Hr. 50 Min.	
Final	-	-	5	Hr. 00 Min.	
Vicat Setting, Initial	-	-	1	Hr. 30 Min.	
Final	-	-	2	Hr. 45 Min.	
Air Entrainment	-	-		9.4	%
Compressive Strength	-	-		3335	psi/1D
	-	-		4250	psi/3D
	-	-		-	psi/7D
	-	-		-	psi/28D
False Set Mortar Method	-	-		50-50, 44-38	mm

CHEMICAL TEST DATA

SiO ₂	-	20.2%	C ₃ S	-	41.5 %
Al ₂ O ₃	-	6.0 %	C ₂ S	-	26.5 %
Fe ₂ O ₃	-	2.6 %	C ₃ A	-	11.4 %
MgO	-	2.2 %	C ₄ AF	-	7.9 %
SO ₃	-	4.1 %			
L.O.I.	-	2.6 %			

Na₂O Equivalent - 0.92 %

Insoluble Residue- 0.27 %

ASTM C265-64 SO₃ 0.10 g/liter

Manufactured December 4 through 7, 1981 inclusive.

This will certify that the foregoing cement is Portland Cement complying with the current specifications of the ASTM C150-81.

Edmund P. West
Director of Quality Control

Aetna Cement Corporation

P.O. Box 80
Essexville, MI 48732
(517) 894-4581

January 14, 1982



Mr. Brian Oldham
Bechtel Power Corporation
P.O. Box 2167
Midland, MI 48640

Dear Mr. Oldham:

We ran an optimum SO_3 test, ^{ASTM} C-563 on 10/28/81. The sample used had 4.05% SO_3 . Mix No. 1 had 5096 psi, Mix No. 2 had 5080 psi, and Mix No. 3 had 4378 psi.

The optimum value can be calculated according to the following formula.

$$G = \left[\frac{a}{(a-b)} \right] 0.48 + d + 0.24$$

where

G = Optimum % SO_3

a = Strength Mix No. 2 - Mix No. 1 = -16

b = Strength Mix No. 3 - Mix No. 2 = -702

d = % SO_3 in Test Cement

$$\begin{aligned} G &= \left[\frac{-16}{(-16 + 702)} \right] 0.48 + 4.05 + 0.24 \\ &= -0.01 + 4.05 + 0.24 \\ &= 4.28\% \end{aligned}$$

Based on this result, we have been controlling our product at $4.1 \pm 0.1\%$ SO_3 .

You will notice on the mill test that we tested the composite ground into Silo No. 12 according to C-265 and obtained 0.10 g/liter SO_3 . The results from C-265 will indicate if the cement has been over-sulfated when it exceeds 0.50 g/liter.

If you have any questions, please do not hesitate to call.

Sincerely,

Elden P. West
Plant Chemist

EW:sb

cc: K. Neering, A. Walraven

United States Testing Company, Inc.

NCK 5832
Pg 7 of 9

HOBOKEN, N. J. 07030

201-792-2400



REPORT

NUMBER

60328

(Refer to this number)

Report No. 392

December 22, 1981

Amended to include
Chemical Analysis

January 4, 1982

Amended to include
Additional Requested
Results.

January 14, 1982

Amended to include
Remarks " * " ..

January 18, 1982

Client: Bechtel Power Corporation
Post Office Box 2167
Midland, Michigan 48640

Attention: Mr. E. Smith

Subject: Cement Grind Acceptance Test
Aetna Type I Cement
ASTM C-150-81

Project: Midland Project
Units 1 and 2
Subcontract 7220-C-208

Sample Data

Log No.

Sample Identity: Aetna Type I Cement 12814

Sampled At: Allied Concrete Products Batch Plant

Date Sampled: December 8, 1981 @ 1600 Hrs.

Sampled By: B. DeArmond & B. Oldham of
Bechtel Power Corporation

Tested By: C.T.I. and Chemistry Department
United States Testing Company Personnel

Dates Tested: December 11, 1981 thru January 13, 1982
at the Hoboken, New Jersey Laboratories

Shipment No.: 329

DATE REC'D.	1-26-82
RESPONSE REQUIRED	YES <input checked="" type="radio"/> NO
(IF YES) DATE CLEARED	
FILE NO	
X-REF INFO	
REC CONTROLLER	<i>Q</i>
SUPERVISOR	<i>F</i>

Page 1 of 3

United States Testing Company, Inc.

M. Annimo
By: Project Manager

General Power Corporation
Midland, Michigan 48640

60328
Report No. 521
December 22, 19

Physical and Chemical Analysis of Aetna Type II Cement accordance with
ASTM C150-81 and Project Specification 7220-C-230

A. Physical Testing

	<u>Sample Results</u>	<u>Spec. Req'd.</u>
Air Content of Mortar ASTM C185-81	9.6%	12.0% Max.
Fineness Turbidimeter ASTM C115	210 m ² /kg	160 m ² /kg Min.
Soundness, Autoclave Expansion ASTM C151-81	+0.082%	+0.80% Max.
Compressive Strength ASTM C109-81		
3 Day	3840 P.S.I.	1800 psi, Min.
7 Day	4600 P.S.I.	2800 psi, Min.
28 Day	5940 P.S.I.	- - - -
Time of Set, Vicat Needle ASTM C191-81		
Initial Set	85-Min.	45 Minutes, Min.
Final Set	185 Min.	480 Minutes, Min.
Optimum SO ₃ in Portland Cement ASTM C-563-79	4.11% *	
Calcium Sulfate in Hydrated Portland Cement Mortar ASTM C-265-64 (76)	0.05 g/liter *	0.50 g/liter

Cement Tests

B. Chemical Analysis of Cement ASTM C114-81

	<u>Sample Results</u>	<u>Spec. Req'd</u>
SiO ₂	20.6%	-----
Fe ₂ O ₃	2.5%	-----
Al ₂ O ₃	6.0%	-----
HgO	1.7%	6.0%, Max.
SO ₃	3.9% **	3.5%, Max.
Loss on Ignition	1.9%	3.0%, Max.
Insoluble Residue	0.55%	0.75%, Max.
Tricalcium Aluminate	11.5%	-----
Sum of Tricalcium Silicate and Tricalcium Aluminate	86.7%	-----
Alkalies (Na ₂ O + 0.658 K ₂ O)	0.91%	1.0%, Max.

Remarks

* In accordance with ASTM C-150 Note "B" Test Data results obtained from test methods ASTM C-563 and ASTM C-265 indicate the cement sample tested may be acceptable for use.

** Test Failure reported to J. Speltz by H. Stuart on January 4, 1982 via telephone communication.



Corrected Copy

Discussion with: Dave Sanders

PROJECT NAME: Midland JOB NO.: 7220 19. REV. NO. 3829 20. PAGE 1 OF 1

2. UNITS: FSK-MR-2-2020 4. ITEM DESCRIPTION: (See Block 16) 5. ITEM LOCATION: FW 629
6. P.O. OR SPEC NO.: N/A 7. SERIAL NO.: N/A 8. REPLACEMENT PART: N/A 9. SOURCE: Const 10. CONTRACTOR/SUPPLIER: N/A

11. INSPECTION CRITERIA: IR NO. N/A 12. ASME AUTHORIZED INSPECTION REQ'D: () YES () NO 13. SKETCH ATTACHED: () YES () NO 14. Discovered During: () Rec'g () Const () Test 15. Equip Furnished By: () Client () Eng () FLD

16. NONCONFORMING CONDITION: Requirement: m-204 fans, Pano 5.2, starts in park
"are shall be taken in handling and installation of piping to prevent
surface damage." Condition: 3/4" pipe, Line 2 HCB 8-41 on drag. FSK-
MR-2-2020 Rev. 4 is bent approx. 1/2" between FW #3 and
FW #7 (Dug FSK-M-2 HCB-413), distance between welds is approx. 11"
Line is also twisted due to unsupported piping and valves.
Q-List No 4.0.213 (1) Held Tag Applied

17. REPORTED BY: W. J. E. Sanders DATE: 12-22-81 18. VALIDATED BY: W. J. E. Sanders DATE: 12-22-81

21. ROUTING: Field Engineering () Field Engineering Recommended Disposition to Project Engineering
22. Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering

REWORK LINE 3/4" - 2 HCB 41 BETWEEN FW #3 AND FW #7

Run Work 1-16-82
Completed 2-29-82

23. PROJECT ENGINEERING DISPOSITION

FSK-MR-2-2020-9C1

Log # 131966 AND

FSK-M-2 HCB-41-3-7C1

Log # 153581

26. MICHAEL J. SELLER 2-24-82

26. QC ACCEPTANCE: Michael J. Seller DATE: 2-24-82

27. AUTHORIZED INSPECTOR: Michael J. Seller DATE: 2-24-82

28. AUTHORIZED INSPECTOR: Michael J. Seller DATE: 2-24-82

System - 20770

1. PROJECT NAME <i>Middle</i>		JOB NO. 7220		19. NO. 3822		PAGE 1 OF 1
2. UNIT(S) <i>E-37</i>		3. DRAWING/PART NO.		4. ITEM DESCRIPTION <i>Schema Cable</i>		5. ITEM LOCATION <i>Axx. Bldg EL-6/4-C</i>
6. P.O. OR SPEC NO. <i>NA</i>		7. SERIAL NO. <i>NA</i>		8. REPLACEMENT PART P/N <i>NA</i> REV <i>NA</i> SER NO. <i>NA</i>		10. CONTRACTOR/SUPPLIER <i>NA</i>
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. <i>2AB4303E</i> NO. <i>FPE-4.000</i>		12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO		13. SKETCH ATTACHED () YES (X) NO
16. NONCONFORMING CONDITION:		FPE-4.000 paragraph 6.7, states that the minimum bend radius for pulling Electrical Cables shall be per vendors requirements. Contrary to the above, Rackboxes 7/c #14 & 36 Cable Schema No. 2AB4303E, which have a minimum bend radius of 2 1/2 times the O.D., are hanging out of Via 2AJA07, with a bend radius of 1.25, exceeding the bend radius requirement of 1.575.				
17. REPORTED BY <i>Doris Little</i>		DATE <i>12-16-81</i>		18. VALIDATED BY <i>H.E. Dwyer</i> DATE <i>12-17-81</i>		
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING		2. Hol Taylor Applied-Instrumental Hel for Eng. Disp.				
22. <input checked="" type="checkbox"/> Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering		<i>CABLE 2AB4303E IS TO BE PULLED OUT AND SCRAPPED. (JWS)</i> <i>Cable 2AB4303E has been pulled out and scrapped</i> <i>12-12-82 R. J. Davis 2-8-82</i> <i>D.S. Paulson 2-12-82</i>				
23. PROJECT ENGINEERING DISPOSITION						
24. DISPOSITION CONCURRENCE		CABLE 2AB4303E has been pulled out and scrapped. Reviewer 2-8-82				
25. DISPOSITION RESULTS		CABLE 2AB4303E has been pulled out and scrapped. Reviewer 2-8-82				
26. OC ACCEPTANCE		2-8-82				
OC ENGINEER		DATE				
AUTHORIZED INSPECTOR		DATE				



Discussed with Joe Buckley

NONCONFORMANCE REPORT

S/N 4 2EGA A LAB

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3811	20. PAGE 1 OF 1	
2. UNIT(S) 2	3. DRAWING/PART NO. FSK-M-2HBC-138-3	REV 3	4. ITEM DESCRIPTION SEE BLOCK 16	5. ITEM LOCATION RM#-13 AUX BL-3		
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE CONSTRUCTION	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. P-110-1 log NO. 14845	12. ASME AUTHORIZED INSPECTION (X) YES () NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec'g (X) Const () Test	15. Equip Furnished By () Client (X) Eng () FLD
16. NONCONFORMING CONDITION: Requirement: Specification M204, paragraph 6.4, states: Prior to installation all piping shall be visually checked for cleanliness. Condition: FW's 8, 18, 19, 24, 25, 30, on FSK-M-2HBC-138-3, were installed without QC verification or documentation of cleanliness thereby making the quality of the pipe indeterminate. Six hold tags applied. Q-list 4.174				24. DISPOSITION CONCURRENCE rework reject repair use as is Project Engineer: [Signature] DATE 1/15/82 Project Engineer: [Signature] DATE 1/23/82 Project Engineer: [Signature] DATE 1/23/82 Authorized Inspector: [Signature] DATE 1-28-82		
17. REPORTED BY Charles Cross		DATE 12/15/81	18. VALIDATED BY [Signature]	DATE 12-16-81		
21. ROUTING: (X) TO FIELD () TO OTHERS (SPECIFY)		22. Field Engineering Disposition: [X] Field Engineering Recommended Disposition to Project Engineering				
To meet the cleanliness criteria of the above line, as per dwg. M-480, line will be flushed clean to class "C" cleanliness level. This pre operational activity will assure that the line is free from any foreign material. Field Engineering recommends "use as is." (N.O.F.) Run Wash 1.6.82						
23. PROJECT ENGINEERING DISPOSITION Project Engineering concurs with the Field disposition to "use as is" on FW's 8, 18, 19, 24, 25 & 30 on FSK-M-2HBC-138-3. Flushing of the piping prior to preoperational testing of the system will assure the required Class "C" cleanliness level of the line. No drawing or specification change required. M.L. Van Sick 1-15-82 CAPM 1/18/82 REC Q.E. 1-22-82						
26. QC ACCEPTANCE? [Signature] DATE 1-28-82 QC ENGINEER: [Signature] DATE 1-28-82 AUTHORIZED INSPECTOR: [Signature] DATE						

Revised 1/25/82



Discussed with Lyle Burton

NONCONFORMANCE REPORT

Sheet 2 EGA

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3797		20. PAGE 1 OF 1	
2. UNIT(S) FSK-M-24BC-129-1		3. DRAWING/PART NO. N/A		4. ITEM DESCRIPTION 2" x 1 1/4" Reducer between FW 2 & 3		5. ITEM LOCATION EL 20' 11 1/2' 14' 4" N/E RM 28	
6. P.O. OR SPEC. NO. N/A		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE CONSTRUCTION N/A	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. 2110-1 NO. 7056		12. ASME AUTHORIZED INSPECTION REG'D () YES () NO		13. SKETCH ATTACHED () YES () NO	
14. DISCOVERED DURING () Rec'd () Const () Test		15. Equip. Furnished By () Client () Eng () FLD		24. DISPOSITION CONCURRENCE			
16. NONCONFORMING CONDITION: Requirement: ASME section III paragraph NB-2151 states in part, "The identification of pressure-retaining material shall consist of marking the material with the applicable specification and grade of material, heat number or heat code of the material with additional marking required to facilitate traceability..." Condition: The 2" x 1 1/4" reducer between FW 2 & 3 on FSK-M-24BC-129-1 does not have a heat number making the quality of the fitting indeterminate. One hot tag applied Q-list 4.174				25. DISPOSITION RESULTS Removed and reworked per disposition and project specifications. For document taken see PW-1.00 FSK-M-24BC-129-1-2.51 log 152144 and PW-1.00 FSK-M-24BC-129-1-3.51 log 152145			
17. REPORTED BY Charles Cross Jr. 12/17/81				18. VALIDATED BY [Signature] 12/17/81			
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)				26. QC ACCEPTANCE [Signature] 2/11/82			
22. Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering				27. PROJECT ENGINEERING DISPOSITION			
Field Engineering recommends the following: remove the untracable reducer by cutting field welds 2 & 3, replace reducer, and rework per project specifications. 205 [Signature] 12/18/81 Rue Mark 12.7.81				28. AUTHORIZED INSPECTOR [Signature] 2/11/82			



DISCUSSED WITH D. Green NONCONFORMANCE REPORT START UP IECA

1. PROJECT NAME MIDLAND		JOB NO. 7220		18. REV 1 NO. 3795		20. PAGE 1 OF 1	
2. UNIT(S) 1 M616 SH 6		3. DRAWING/PART NO. M616 SH 6		4. ITEM DESCRIPTION NO CLEANLINESS DOCUMENTATION ON FW 60 & 61 ON LINE 1-HBC-123-10' N OF C 46' W OF (6.2)		5. ITEM LOCATION 415% R-220	
6. P.O. OR SPEC NO. NA		7. SERIAL NO. NA		8. REPLACEMENT PART P/N NA REV NA		9. SOURCE QC/CONST	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. P-110-616-6-5 NO. M 204		12. ASME AUTHORIZED INSPECTION REQ'D (X) YES () NO		13. SKETCH ATTACHED () YES (X) NO	
16. NONCONFORMING CONDITION: PARAGRAPH 6.5.1 STATE THAT PRIOR TO INSTALLATION ALL PIPING SHALL BE VISUALLY CHECKED FOR CLEANLINESS. CONDITION CONTRARY TO THE ABOVE ON DRAWING M616 SH 6 FIELD WELDS # 60 & 61 WERE NOT DOCUMENTED FOR CLEANLINESS DURING INSTALLATION.		17. REPORTED BY Edward Valenzuela		DATE 12/7/81		14. DISCOVERED DURING () REC'G (X) CONST () TEST	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		VALIDATED BY E. Valenzuela		DATE 12-15-81		24. DISPOSITION CONCURRENCE REWORK reject repair use as is	
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering		23. PROJECT ENGINEERING DISPOSITION		25. DISPOSITION RESULTS CLEANLINESS OF FIELD WELDS 60 & 61 VISUALLY CHECKED WITH BORESCOPE INSERTED THROUGH DRAIN OPENING ON LOWER 90° ELBOW - CLEANLINESS WAS FOUND TO BE ACCEPTABLE 11/10 TAG REMOVED		26. QC ACCEPTANCE QC ENGINEER AUTHORIZED INSPECTOR	

Person Contacted: B. OLDHAM

RWS C-30208

NONCONFORMANCE REPORT

Su# / Non-Testable

1. Project Name M10LAND		Job No. 7220		19. No. 3785		20. Page 1 of 24	
2. Unit(s) COMMON		3. Drawing/Part No. N/A		4. Item Description CONCRETE SLUMP		5. Item Location LEAN CONC BACKFILL @ DIESEL FUEL OIL STORAGE 8406	
6. P.O. Or Spec No. N/A		7. Serial No. N/A		8. Replacement Part P/N N/A		9. Source SUBCONTRACTOR	
11. Inspection Criteria <input type="checkbox"/> DWG <input checked="" type="checkbox"/> SPEC		12. ASME AUTHORIZED INSPECTION REQ'D <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		13. SKETCH ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		14. Discovered During <input type="checkbox"/> REC-G <input type="checkbox"/> CONST <input checked="" type="checkbox"/> TEST	
16. Nonconforming Condition: SPEC. C-230 REV. 20 SECTION 9.1.3 STATES IN PART THAT... THE WORKING LIMITS, AS SPECIFIED IN TABLE 9.1, WILL BE THE BASIS FOR EVALUATING CONCRETE CONSISTENCY AT THE POINT OF PLACEMENT... CONTRARY TO THE ABOVE, A SLUMP OF 9 1/2" WAS RECORDED ON TICKET #46080 AT THE END OF RUMPLINE TEST, WHERE A SLUMP OF 6" IS MAXIMUM. SEE ATTACHED QCF-15 & DELIVERY TICKET, HOLD FOR ENGINEERING DISPOSITION. NO HOLD TAG APPLIED. Q" LIST No. 1.002.		10. Contractor/Supplier ALLIED CONCRETE		15. Equip Furnished By <input type="checkbox"/> CLIENT <input checked="" type="checkbox"/> ENG		24. Disposition Concurrence	
17. Reported By Paul		Date 11/30/81		18. Validated By E. Edwards		Date 11-30-81	
21. Routing <input type="checkbox"/> TO FIELD ENGINEERING		22. <input checked="" type="checkbox"/> FIELD ENGINEERING RECOMMENDED DISPOSITION TO PROJECT ENGINEERING		23. Project Engineering Disposition		25. Disposition Results	
<p>FIELD ENGINEERING RECOMMEND TO "USE AS IS". THIS CONCRETE WAS USED AS A LEAN CONCRETE BACKFILL WHICH REQUIRES A STRENGTH OF 2000 PSI AT 90 DAYS. THE CONCRETE HAS REACHED AN AVERAGE STRENGTH OF 6115 PSI AT 90 DAYS. REFERENCE ATTACHED CONCRETE CYLINDER REPORTS FOR POUR Y(630.0)Q.</p> <p>THE CONCRETE IN QUESTION WAS PLACED AROUND DIESEL OIL LINES AS A LEAN CONCRETE BACKFILL MATERIAL. TOP OF BACKFILL CONC IS AT EL. 630 ± AND IT DOES NOT SUPPORT ANY STRUCTURE. (Info. from B. OLDHAM @ JOB SITE). THE CONCRETE HAS REACHED WELL OVER 2000 PSI MINIMUM REQUIRED STRENGTH. THEREFORE PROJECT ENGINEERING CONCURS WITH FIELD ENGINEERING TO "USE AS IS" - CIVIL SITE GROUP HAS REVIEWED THE AGENC SPEC CHANGE IS REQ'D. TAG.</p>							
26. QC ENGINEER Paul				27. AUTHORIZED INSPECTOR Paul			
DATE 11/12/82				DATE 11/12/82			

AND TO Inspection 12/11/81

11-19-82

ALLIED CONCRETE PRODUCTS

Sand & Gravel

1928 James Savage Road, Midland, Michigan 48640

Call 631-2350

30 Minute Free Unloading Time. Thereafter \$18.00 Per Hour
Rental Time.

If Delivery Requires Driving Inside Of Curb, Customer
Assumes All Risks Of Damage To Walks, Driveways, Buildings,
Trees, Lawns, Etc.

1½% FINANCE CHARGE WILL BE ADDED TO ALL
ACCOUNTS OVER 30 DAYS. THE FINANCE CHARGE
IS COMPUTED BY A SINGLE PERIODIC RATE OF 1½%
PER MONTH WHICH IS AN ANNUAL PERCENTAGE
RATE OF 18%.

Building No.		Customer Order No.		8/14/81	
Job 2220		Truck No. 15		Driver 90N	
Sold To Bechtel				Cash	
Address					
Deliver To Y (130.0) Q - 1st Chas Bldg.					
CUR. YDS.	DESCRIPTION	UNIT PRICE	AMOUNT		
6	P4-E	BP- 4993 (6) F(6)			
		FIELD- 4924			
2223	8/14/81	** -			
		3000000000			
		1000060000			
		2100000000			
		1000000000			
	Tri 3.4%				
	Sluings 9"	6460077600			
		5400150000			
		2400044540			
		3400000000			
		1400000000			
		2400000000			
		2400000000			
Water Added		Time in		Time out	
11001:00:00		2.24		72.50	
46080		D. T. [Signature]		F. [Signature]	
		CUST. SIGNATURE		DRIVERS SIGNATURE	

GOODWIN PRINTING COMPANY

NCR-3185 Page 3 of 24104

Case 14

File No.

CONCRETE PLACEMENT IDENTIFICATION

10. Concrete Placing Temperature Limits 85° MAX 11. Weather Conditions Applicable
Hot ☒ Cold ☐

NCR 3785

Page 2 of 44

7222-303-15 Rev. 2

NCR 3785
Pa 4 of 4

BECHTEL POWER CORPORATION
MIDLAND NUCLEAR POWER PLANT JOB 7220
REPORT OF CONCRETE CYLINDERS

43 QC Acceptance	Date
Control No.	File No.

1. Placement Identification Y(630.0)Q & * CF(634.5)B		2. Date Placed 8-14-81	
3. Placement Location W. CF CHLOR. BLDG. & * CALIB. LAB.			
4. Mix PG-E		5. Class I	
6. * List <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		7. Required Strength 6,000 PSI At 90 Days	
8. Test Data At: FIELD - E.O.L.		9. Unit Weight ASTM-C-138-74 140.55 Lbs/Ft ³	
10. Yield: 26.77		11. Moisture Sand ASTM-C-566-67(72) 2.5 %	
12. Water/Cement & Pozzolan Ratio .37 Max .37 Act		13. Ticket No. 16080	
14. Truck No. 15		15. Time of Testing 1245 Hrs at 6 Yards	
16. Time of Molding 1250 Hrs		17. Slump ASTM-C-143-74 9 1/2 inches	
18. Air Content ASTM-C-231-75 3.1 %		19. Temp: Concrete 76 °F	
20. Temp: Air 76 °F		21. Initials SAT, JS, RH	
22. Initials SH, GW		23. Stopped ASTM-C-31-69 9-15-81 At 1020 Hrs	

COMPRESSIVE STRENGTH DATA ASTM-C-39-71									
25. Specimen Identification	26. Date Moided	27. Date Tested	28. Age	29. Total Load in Pounds	30. Actual Cyl Diam	31. Actual Cyl Area	32. Type of Break	33. Cure Field Lab	34. Strength PSI
4994F-2073	8-14-81	8-21-81	7	95,000	6.02	28.56	A	1	6 3330
VOID									
2074				8-14-81					
2075		9-11-81	28	123,000	6.02	28.56	A	1	27 4140
2076			28	128,500	6.02	28.46	A	1	27 4520
2077		11-12-81	90	123,000	6.02	28.46	B	1	89 4080
4994F-2078	8-14-81		90	125,000	6.02	28.46	B	1	89 4150

35. Standard Cylinder <input checked="" type="checkbox"/> 8" x 12" <input type="checkbox"/> Cube <input type="checkbox"/> Core <input type="checkbox"/> Other				40. Remarks * NON Q POUR IN CONT. WITH "Q" POUR			
36. Age (Days)	37. Tested By	38. Checked By	39. Checked by QC Rep	41. Laboratory Supervisor Signature			
7	JMS	SAT	GLW	BD 8-26-81			
28	MW	RH		BD 9-15-81			
90	SAT	JB		BD 11-30-81			
42. Date				11-14-81			



Discussed with: L. Harrison

NONCONFORMANCE REPORT

1. Project Name Midland		Job No. 7220		19. 3781 No.	20. Page 1 of 2
2. Unit(s) 1 & 2	3. Drawing/Part No. See Page TWO	4. Item Description Instrumentation Supports	5. Item Location See Page two		
6. P.O. Or Spec No. N/A	7. Serial No. N/A	8. Replacement Part See Page TWO	9. Source Construction	10. Contractor/Supplier N/A	
11. Inspection Criteria <input type="checkbox"/> DWS <input checked="" type="checkbox"/> SPEC	12. ASME AUTHORIZED INSPECTION REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	13. SKETCH ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	14. Discovered During <input type="checkbox"/> REC'G <input checked="" type="checkbox"/> CONST <input type="checkbox"/> TEST	15. Equip Furnished By <input type="checkbox"/> CLIENT <input checked="" type="checkbox"/> ENG <input type="checkbox"/> FLD	
16. Nonconforming Condition: Requirement: ① PACT welder (welding and non-destructive examination of "Q" listed non-ASME items) Act. 3.3 states in part: "Review the log of welder qualification records to verify the Assigned welder is qualified for the procedure being used..." Block 16 cont. on Page 2.					
17. Reported By R. F. Wellington	18. Validated By D. C. Smith	Date 11-24-81	25. Disposition Results Q.C. agrees with use as is disposition. The welder was qualified per Spec C-304. Form 84 Civil has been charged to allow the use of P1-A-LH in lieu of P1-A-LH (struct) Per FCN 1514. R. F. Wellington		
21. Routing <input checked="" type="checkbox"/> FIELD ENGINEERING <input type="checkbox"/> TO OTHERS (SPECIFY)	22. <input checked="" type="checkbox"/> Field Engineering Disposition <input type="checkbox"/> FIELD ENGINEERING RECOMMENDED DISPOSITION TO PROJECT ENGINEERING Spec. C-304, paragraph 6.5 states that welders may be qualified to either ASME section IX or AWS D1.1. This welder was qualified to ASME section IX, as permitted by the specification. Field Engineering recommends use as is. See Appendix 11/30/81				
23. Project Engineering Disposition PROJECT ENGINEERING AND H-QS CONCURS WITH FIELD ENGINEERING'S DISPOSITION. THERE IS NO "NONCONFORMING CONDITION" 12/30/81 JRM. NO. SPECS CHANGE EN'D. 12/30/81 RCL 12/30/81 RCL 12/30/81 RCL 12/30/81 RCL					
24. Disposition Concurrence REWORK REJECT REPAIR USE AS IS REWORK <input checked="" type="checkbox"/> REJECT <input type="checkbox"/> REPAIR <input type="checkbox"/> USE AS IS <input checked="" type="checkbox"/> DATE 11/24/81 DATE 1/5/82 DATE 1-13-82				25. QC Acceptance R. F. Wellington QC ENGINEER DATE 2/25/82 AUTHORIZED INSPECTOR DATE	

Block 16 Cont.

Requirement:

- ② Form 84-Civil (Sheet 6A Δ) requires instrumentation supports to be welded using procedure P1-A-LH (Struct).

Condition: Contrary to the above requirements R.E. Karcher, P0073, welded on the instrumentation supports listed in block 3; R.E. Karcher is not qualified to the procedure P1-A-LH (Struct) thereby rendering the quality of the supports indeterminate.

Block 3 and 5 cont.

Support Number	Data point	Isometric Drawing	Location	"Q" List Am	5/11/20
FSK-JO-0068, Det 1 Δ	A4	FSK-TB1-0113 Δ	Aux Bldg, EL. 584, 17'5/8, 2'E/5.1	5.033	1 EGA
FSK-JO-0068, Det. 4 Δ	A7, B7	FSK-TB1-0060 Δ	Aux Bldg, EL. 645, 15'1/2, 2'E/5.1	5.033	1 EAD
FSK-JO-0067, Det 1 Δ	A4, B4	FSK-TB1-0060 Δ	Aux Bldg, EL. 645, 15'1/2, 2'E/5.1	5.033	1 EAD
FSK-JO-0065, Det 1 Δ	B8	FSK-JC2-0041 Δ	Cont. 3, EL. 640, 25'1/2, 4'1/2	5.033	2 BHA
FSK-JO-0065, Det 1 Δ	A14	FSK-JC2-0041 Δ	Cont. 3, EL. 640, 25'1/2, 4'1/2	5.033	2 BHA

Five Hold tags Applied.



NONCONFORMANCE REPORT

SILL - VARIOUS

1. PROJECT NAME MIDDLEBURY COLLEGE		JOB NO. 7220		19. NO. 3766		20. PAGE 1 OF 3	
2. UNIT(S) AUX		3. DRAWING/PART NO. E643 SH.1		4. ITEM DESCRIPTION CABLE TRAY		5. ITEM LOCATION EL. 214.6; 4' WEST OF 1.8	
6. P.O. OR SPEC NO. N/A		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N N/A		9. SOURCE CONST.	
11. INSPECTION CRITERIA (M) DWG () SPEC () OTHER		IR NO. NO. E47		12. ASME AUTHORIZED INSPECTION-REG'D () YES (M) NO		13. SKETCH ATTACHED (M) YES () NO	
16. NONCONFORMING CONDITION: DUGS E47 REV 2 PARA 5.1.2 STATES IN PART "EXPOSED CLASS IE RACEWAY ARE MARKED IN A DISTINCT AND PERMANENT MANNER." CONTRARY TO THE ABOVE THE BELOW LISTED CABLES HAVE BEEN PULLED THRU AN UNMARKED RACEWAY (CABLETRAY) IN THE UNIT, 2 UPPER SPREADER ROOM. THIS TRAY IS LOCATED AS PULL POINT BETWEEN CONDUIT ENDS RESULTING IN A... (SEE PAGE 2)				10. CONTRACTOR/SUPPLIER N/A			
17. REPORTED BY J.C. Miller				18. VALIDATED BY E. Santa			
DATE 11-9-81				DATE 11-11-81			
21. ROUTING: (A) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)				25. DISPOSITION RESULTS Use as is			
22. () Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering Use as is. Tray is for cable support only as per E-643 SH.1 of 2 (1.1)				26. QC ACCEPTANCE J.C. Miller			
23. PROJECT ENGINEERING DISPOSITION PARA 5.1.2 OF E47(a) SH.6 AND TDW #149 TO E47(a) REQUIRES ALL "SCHEDULED" EXPOSED CLASS IE RACEWAYS TO BE MARKED IN A DISTINCT, PERMANENT MANNER. THE CABLE TRAY AS DESIGNED PER E643(a) SH.1 REV.15 IS FOR CABLE SUPPORT ONLY AND IS UNSCHEDULED. IT THEREFOR REQUIRES NO MARKING AND WILL NOT APPEAR IN E37 CABLE ROUTES. USE AS IS, NO DUG REV. REQ. RWS #E61005 DE 2/24/82 (Kendall) 1/23/82. Adherence to IAC 2/4/82				24. DISPOSITION CONCURRENCE rework reject repair unusable J.C. Miller PROJECT FIELD ENGINEER J.C. Miller PROJECT ENGINEER J.C. Miller PROJECT QC ENGINEER			
15. Equip Furnished By () Client () Eng (M) FLD				14. Discovered During () Rec'g (M) Const () Test			
AUTHORIZED INSPECTOR J.C. Miller				DATE 2-23-82			
AUTHORIZED INSPECTOR J.C. Miller				DATE 2-23-82			



NONCONFORMANCE REPORT (CONT'D)

BLOCK 16 CONT.

... NON-CONTINUOUS SYSTEM OF VIAS IN THAT CABLES PASS ^{OPPOSITE} THEIR CONDUIT, EXIT FROM CONDUIT TO UNMARKED TRAY, AND THEN REENTER CONDUIT AT ~~OPPOSITE~~ SIDE OF TRAY IDENTIFIED SAME AS ORIG CONDUIT. SEE ATTACHED SKETCH.

COND	2BFA001	2BFA003	2BJH031	2BJH033
2BB5411D, 2BB5411H,	2FR2408G, 2BB2411G,	ΔBB4604D, ΔBB4604E,	ΔBB4602N, ΔBB4603N,	
2BB5412D, 2BV099B,	2BB4401B, 2BB4401D,	ΔBB4606D, ΔBB4608D,	ΔBB4606E, ΔBB4608E,	
2BV099H, 2BV100G,	2BB4401E, 2BB4402B,	ΔBB4609E, ΔBB4610J,	ΔBB4607K, ΔBB4609M,	
2BV100H, 2BV106A,	2BB4402D, 2BB4405B,	ΔBB4611C, ΔBB4612D,	ΔBB4610N, ΔBB4610P,	
2BV106C, 2BY3221A,	2BB4405D, 2BB4406B,	ΔBB4613K, ΔBB4620E,	ΔBB4611K, ΔBB4611L,	
2BG1205B, 2EB5412H,	2BB4406D, 2BB4409D,	ΔBV004N, ΔBV008B,	ΔBB4612E, ΔBB4613N,	
2BB5401G, 2BB5411E,	2BB4409B, 2BB4410B,	ΔBV007D, ΔBV010D,	ΔBB4617N, ΔBB4618K,	
2BB5411G, 2BB5412E,	2BB4410D, 2BY201B	ΔBV010E, ΔBV011D,	ΔBB4618N, ΔBB4619K,	
2BB5412K, 2BG1202L,	* 2BB4401E COILED	ΔBY3622A	ΔBB4620H, ΔBV004F,	
2BG1209C, 2BG1213D,	AT UNMARKED		ΔBV004G, ΔBV005A,	
2BV099E, 2BV100E	TRAY		ΔBV005C, ΔBV006A,	
2BB5412G, 2BG1205A,			ΔBV006C, ΔBV007C,	
2BV100F, 2BB5411K,			ΔBV009B, ΔBV010C	
2BV106B, 2BV106G			ΔBV160A, ΔBV161A	

This unscheduled tray is in conflict with the following Dugs:

E-42A Rev. 3; (Sh. 1, Para. 3b) (Sh. 8, Para. 6) (Sh. 60, Para. 3a).
Q-LIST 10.3.005 HOLD FOR ENGINEERING DISPOSITION
1 HOLD TAB APPLIED AT TRAY



2BJH031 — 2BJH033
2BFA003 —
2BFA001 —



← UNMARKED TRAY

2BFA001 —
2BFA003 —
2BJH031 —
2BJH033 —



NONCONFORMANCE REPORT

1. PROJECT NAME <i>Midland</i>		JOB NO. <i>7220</i>		19. NO. <i>3764</i>	20. PAGE <i>1</i> OF <i>1</i>								
2. UNIT(S) <i>II</i>	3. DRAWING/PART NO. <i>E-37</i>	REV <i>50</i>	4. ITEM DESCRIPTION <i>Scheme Cable No 2BRW174E</i>	5. ITEM LOCATION <i>Asst Building EA-61's</i>									
6. P.O. OR SPEC NO. <i>NA</i>	7. SERIAL NO. <i>NA</i>	8. REPLACEMENT PART P/N <i>NA</i> REV <i>NA</i> SER NO. <i>NA</i>		9. SOURCE <i>Const.</i>	10. CONTRACTOR/SUPPLIER <i>VA</i>								
11. INSPECTION CRITERIA (X) DWG () SPEC () OTHER		IR NO. <i>2BRW174E</i> NO. <i>E-37</i>	12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec'g (X) Const () Test								
15. Equip Furnished By () Client () Eng (X) FLD			16. NONCONFORMING CONDITION: <i>Act 24 of the PRCI requires that the verification of the maximum allowable pull tension is not exceeded on critical pulls.</i> <i>Contrary to the above, a B-21 cable with scheme NO 2BRW174E was pulled out of pull box BJ1238 by 4 craftsmen, creating damage to the outer insulation, the pull tension is unknown.</i> <i>R-List 3004 Two Hot tags Applied Hot for Tag Disp.</i>										
17. REPORTED BY <i>Wally Little</i>		DATE <i>11-9-81</i>	18. VALIDATED BY <i>for L. Smith</i>		DATE <i>11-11-81</i>								
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)													
22. () Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering													
<p>There is no apparent damage to cable jacket and to establish conductor integrity, cable integrity is to be meggered and checked for continuity. If acceptable results are obtained cable is acceptable, use as is. If results are not acceptable cable to be pulled out scrapped and repulled. (U.L.N.) <i>12/21/81</i></p> <p>23. PROJECT ENGINEERING DISPOSITION</p> <p><i>MEGGER AND CONTINUITY TESTS ARE NOT ADEQUATE FOR DETERMINING CONDUCTOR INTEGRITY WHEN CABLE HAS BEEN OVERTENSIONED. FIELD IS TO VERIFY THE MAXIMUM PULLING TENSION WAS NOT EXCEEDED FOR SUBJECT CABLE, THEN "USE AS IS", IF UNVERIFIABLE, PULLOUT AND SCRAP EXISTING CABLE AND REPULL A NEW ONE. NO DRAWING REVISIONS REQUIRED</i></p> <p><i>RES 1-21-82</i> <i>1-21-82</i> <i>1/22/82</i></p>													
24. DISPOSITION CONCURRENCE													
<table border="1"> <tr> <td>rework</td> <td>reject</td> <td>repair</td> <td>use as is</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </table> <p><i>26/11/81</i> PROJECT FIELD ENGINEER <i>1/25/82</i> PROJECT ENGINEER <i>2/2/82</i> PROJ CONSTR QC ENGINEER</p> <p>AUTHORIZED INSPECTOR DATE</p>						rework	reject	repair	use as is	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
rework	reject	repair	use as is										
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
25. DISPOSITION RESULTS													
<p><i>Existing cable removed and scrapped. New cable pulled in. See IR 2BRW174E2.</i> <i>C.E. Linn</i></p>													
26. QC ACCEPTANCE													
<p><i>1/26/82</i> QC ENGINEER DATE</p> <p>AUTHORIZED INSPECTOR DATE</p>													

12/22/81
 1/25/82
 1/26/82



NONCONFORMANCE REPORT 2EGA, 2EAD, OECE

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3763	20. PAGE 1 OF 1								
2. UNIT(S) 2	3. DRAWING/PART NO. N/A	REV	4. ITEM DESCRIPTION INSTALLATION OF ELECTRIC CABLES (Q)	5. ITEM LOCATION Aux Bldg.									
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N _____ REV _____ SER NO. _____	9. SOURCE CONSTRUCTION	10. CONTRACTOR/SUPPLIER N/A									
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. SEE BLOCK 16 NO. _____	12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO	13. SKETCH ATTACHED () YES () NO	14. Discovered During () Rec'g () Const () Test								
15. Equip Furnished By () Client () Eng () FLD			15. Equip Furnished By () Client () Eng () FLD										
16. NONCONFORMING CONDITION: THE FOLLOWING ELECTRICAL CABLES WERE INSTALLED WITHOUT QC INSPECTION (PER REFERENCE PSPG-1.1 PARAGRAPH 3.2.3 AND PSPG-3.2 PARAGRAPH 3.1.1 OF THE QUALITY CONTROL NOTICES MANUAL.) THE CABLES ARE AS FOLLOWS 2BB2459 A+B, 2BB2440 A+B, 2BB2443 A+B, 2BB5611 A+B, 2BB5622 A+B			24. DISPOSITION CONCURRENCE <table border="1"> <tr> <td>rework</td> <td>reject</td> <td>repair</td> <td>use as is</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </table> Bluffton JTB 22 Dec 81 PROJECT FIELD ENGINEER DATE PR. E. Smith 12/28/81 PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE			rework	reject	repair	use as is	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
rework	reject	repair	use as is										
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
17. REPORTED BY Harry Wake DATE 11-10-81			18. VALIDATED BY AL E. Smith DATE 11/11/81										
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING () TO OTHERS (SPECIFY)													
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering Field Engineering and Q.C. will conduct a joint walk down and megger test to verify that the above cables were pulled in accordance with quality standards. (U.L.N.) 12/21/81													
23. PROJECT ENGINEERING DISPOSITION													
26. QC ACCEPTANCE J.A. Perry 2/24/82 QC ENGINEER DATE AUTHORIZED INSPECTOR DATE													



L. HARRISON

NONCONFORMANCE REPORT

RWS-C-10670

DISCLOSED WITH: T. J. JAMES

54 # 28A

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3759	20. PAGE 1 OF 1
2. UNIT(S) 2	3. DRAWING/PART NO. 2-614-5-1	REV 4	4. ITEM DESCRIPTION WELDING OF ITEM 15 TO ITEM 13 AND 15 TO 1 (BY ANGLED FIT-UP)	5. ITEM LOCATION Ang. Block Rack No. 5000	
6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART P/N REV SER NO.	9. SOURCE (CONSTRUCTION)	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA () DWG () SPEC (X) OTHER		IR NO. P2-10-614-5-31 (D) NO. PQCIT P2-10-614-5-31 (D)	12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO	13. SKETCH ATTACHED (X) YES () NO	14. Discovered During () Rec'g (X) Const () Test
15. Equip Furnished By () Client () Eng. (X) FLD			16. NONCONFORMING CONDITION: Per PSP 66.1 Rev. 6 Article 3.3.3.4.5 STATES IN PART: Inspect (I), Test (T), Witness (W) and Review (R) are MANDATORY INSPECTION POINTS beyond which work shall NOT PROCEED past the POINT where the DESIGNATED ACTIVITY IS NO LONGER INSPECTABLE WITHOUT THE CONSENT OF THE RESPONSIBLE CQCE. CONTRARY TO THE ABOVE, ACTIVITY 2.2 OF PQCIT P2-10-614-5-31 Full Penetration Groove welds IS AN INSPECT ITEM AND (NOT)		
17. REPORTED BY Robert Campbell 11/9/81		18. VALIDATED BY G. Smith 11-9-81		24. DISPOSITION CONCURRENCE rework reject repair use as is [Signature] 11/13/82 PROJECT FIELD ENGINEER DATE [Signature] 11/13/82 PROJECT ENGINEER DATE [Signature] 1-27-82 PROJ. CONSTR. QC ENGINEER DATE	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		25. DISPOSITION RESULTS		26. QC ACCEPTANCE [Signature] 2-2-82 QC ENGINEER DATE [Signature] 2-2-82 AUTHORIZED INSPECTOR DATE	
23. PROJECT ENGINEERING DISPOSITION The requirements of inspection activity 2.2 mentioned in block 16 of this NCR, have been inspected by a Welding Engineer, and recorded on a Field Engineers report. Also at the time of the fit-up the drawing was signed by the Field Welding Engineer. Attached are the copies of the sign off and Field Engineers report. Therefore Field Engineering recommends "use as is". [Signature] 12/14/81 Civil concurs with the field engineering recommendation to "use as is" Since appropriate inspections were made by a field welding engineer's proof of the same is attached. [Signature] 1/4/82 RWS-C-10670 [Signature] 1/5/82 [Signature] 1/5/82 [Signature] 2-2-82					

NCR to Disposition 12/18/81



(Cont Black 16)

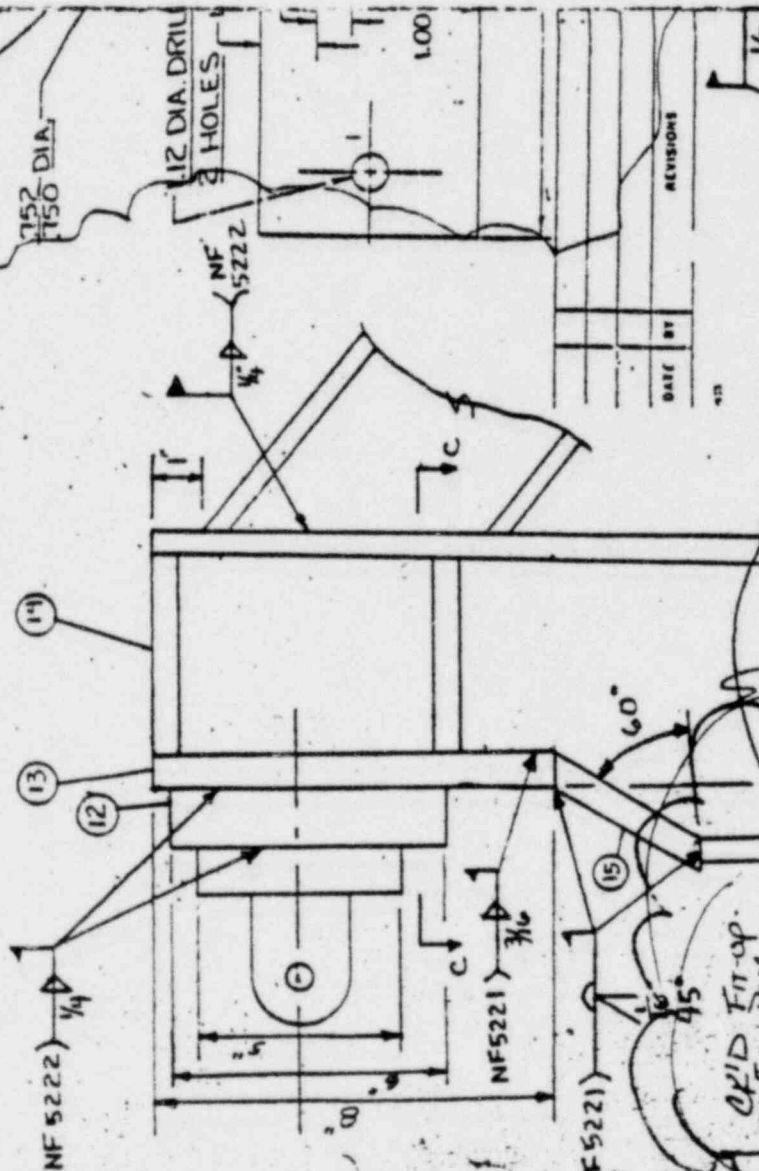
The welds between item 15701 and item 137015 is a full penetration groove weld and was by-passed by BSTRUCTION without the consent of the Responsible CACE.

R LIST # 4.112

1 hold TAG Applied

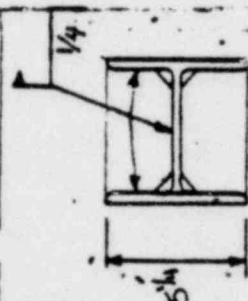
NOTE: INSTALL STIFFENER PLATES (ITEM 14) AFTER PT TEST OF NF5221 WELDS.

1" BUNG BY 8.00IG. STUD w/ 1/4" HEX 1-1/2" L.C. 2
 1-HEX 4 1-HEX JAM NUT
 EACH END THREAD FULL
 LENGTH SA-193 GR-137
 STUDS, SA-307 NUTS



REVISIONS

DATE BY



SECTION C-C

OK'D Fit-up
 ON FACE P/W
 OK'D BACK
 GRIND - OK
 11-6-81



FIELD ENGINEER'S REPORT FORM

MIDLAND UNITS 1 & 2

JOB 7220

DATE 11-6-81

PAGE 2 OF 2

ITEM NO.	INSPECTION DESCRIPTION	ACTION REQUIRED/TAKEN
P268 H772	683-1 / IECB-55 FW 31	SWW / Root Pass WATCHED IN PROCESS HAVING TROUBLE WITH CONCAVITY INSIDE, Adjusted HEAT & TRAVEL SPEED & NO MORE PROBLEMS!
P759 STEADMAN	619-5-24 / OHBC-18-H2	SWW / WELDING FILLETS TECHNIQUE - OK
P733 BLACK	616-14-15 / HBC-514-H15	SWW / WELDING FILLETS
P605 Rohrman	603-18-46 / HCC-49-H3	WELDING FILLETS ADVISED ON US. WELDS -
P442 WATTS	607-16-56 / OHCD-188-H14	SWW / WELDING FILLETS, CK'D HANGER & FINA- OK
P754 EARMAN	611-5-1 / 2GCB-25-H10	CK'D FIT-UP on 2 FULL PEN WELDS IT IS (BOTH ENDS) CK'D BACK-GRIND ALL - OK

REMARKS:

ROUTE

L Harrison
J SAVOIE

SIGNATURE

FILE



NOTIFIED:

Mark Welby 10/28/81

NONCONFORMANCE REPORT

SU# N/A

1. PROJECT NAME HIGHLAND		JOB NO. 7230		19. NO. 3748	20. PAGE 1 OF 1								
2. UNIT(S) 2	3. DRAWING/PART NO. N/A	REV	4. ITEM DESCRIPTION CABLE (2) 2BI061D	5. ITEM LOCATION ELEV 614 CONDUIT # BTB041									
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N# N/A	REV N/A	9. SOURCE CONSTRUCTION	10. CONTRACTOR/SUPPLIER N/A								
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. 2BI061D	12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO	13. SKETCH ATTACHED () YES () NO	14. Discovered During () Rec'g () Const () Test								
15. Equip Furnished By () Client () Eng () FLD		24. DISPOSITION CONCURRENCE (See Block 25)											
16. NONCONFORMING CONDITION: THE ABOVE CABLE SHOWED SIGNS OF BEING PINCHED (THE CABLE HAD TWO DEPRESSIONS BETWEEN THE 3326 FUL MARK AND THE 3328 MARK ON THE CABLE). DAMAGED SECTION IS WITHIN THE ROUTING OF VIA BTB041. CABLE HAD BEEN HUNG NEAR CABLE TRAYS AT ELEVATION 614 FOR SOME TIME PRIOR TO THIS PULL.		<table border="1"> <tr> <td>rework</td> <td>reject</td> <td>repair</td> <td>use as is</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>				rework	reject	repair	use as is	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
rework	reject	repair	use as is										
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
17. REPORTED BY Earl Dumas		DATE 10-27-81		18. VALIDATED BY for E. Dumas									
DATE 10-27-81		DATE 10-29-81											
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)													
22. () Field Engineering Disposition <input checked="" type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering													
Megger cable 2BI061D to verify integrity of cable. Cable jacketing is not cut and conductors are not visible. No jacket repair is necessary. If results of megger test are satisfactory use as is, if not satisfactory - pull out and scrap. (uws) 11/19/81													
23. PROJECT ENGINEERING DISPOSITION MEGGER THE SUBJECT CABLE TO VERIFY ITS ELECTRICAL INTEGRITY. IF THE MEGGER TEST IS SATISFACTORY "USE AS IS". IF IT IS UNSATISFACTORY, SCRAP EXISTING CABLE AND REPUK A NEW ONE. NO DWG. REV REQ'D.													
<div style="text-align: right;"> for E. Dumas 12/7/81 RE 12 12-7-81 </div>													
25. DISPOSITION RESULTS 100% ACCEPTANCE BASED ON MESSAGING TEST RESULTS REFLECTED ON PER 100% 2-18-81													
26. OC ACCEPTANCE OC ENGINEER for E. Dumas DATE 2-18-81 AUTHORIZED INSPECTOR DATE													

P.O. D. reported 12/7/81



discussed with
J.J. Gilman

Corrected Copy

NONCONFORMANCE REPORT

VARIOUS

1/28
1-12-81
12-11-81

1. PROJECT NAME MILANO UNITS 1+2		JOB NO. 7220		19. Rev. 1 NO. 3747	20. PAGE 1 OF 2
2. UNIT(S) 1/2, Common	3. DRAWING/PART NO. SEE BLOCK 16	REV NA	4. ITEM DESCRIPTION 1/2 COUPLINGS SEE BLOCK 16	5. ITEM LOCATION SEE BLOCK 16	
6. P.O. OR SPEC NO. NA	7. SERIAL NO. NA	8. REPLACEMENT PART P/N NA REV NA SER NO. NA		9. SOURCE CONST.	10. CONTRACTOR/SUPPLIER NA
11. INSPECTION CRITERIA <input checked="" type="checkbox"/> DWG <input type="checkbox"/> SPEC <input type="checkbox"/> OTHER		IR NO. NA NO. M-488	12. ASME AUTHORIZED INSPECTION REQ'D <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	13. SKETCH ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	14. Discovered During <input type="checkbox"/> Rec'g <input checked="" type="checkbox"/> Const <input type="checkbox"/> Test
15. Equip Furnished By <input type="checkbox"/> Client <input type="checkbox"/> Eng <input checked="" type="checkbox"/> FLD		16. NONCONFORMING CONDITION:			
<p>REQUIREMENT: DWG 7220-M-488 REV 8 SPECIFIES HALF COUPLING BORE DIAMETERS AFTER WELDING, OR "F" DIMENSIONS, AS SHOWN IN THE CHART ON SHEET 1.</p> <p>CONDITION: ① THE FOLLOWING LISTED INSTALLED HALF COUPLINGS HAVE "F" BORE DIAMETERS IN EXCESS OF THOSE SPECIFIED IN 7220-M-488 REV 8. (CONT. PG 2)</p>					
17. REPORTED BY M.H. Dy		DATE 10/26/81	18. VALIDATED BY E. Smith		
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING <input checked="" type="checkbox"/> TO OTHERS (SPECIFY)		24. DISPOSITION CONCURRENCE			
22. <input type="checkbox"/> Field Engineering Disposition <input checked="" type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering		<p>with the issuance of DCN 4 to DWG M488 the following items are no longer non-conforming: A, D, F, G, H, K, P and Q.</p>			
<p>Items A, D, F, G, H, K, P, and Q are within the tolerance provided by ANSI B16.11 and drawing M-488, DCN 4. These are acceptable as is. Field Engineering recommends that the remaining half couplings be evaluated by Project Engineering, and if found to be acceptable, use as is.</p> <p>Run Mail 11-581 Run Mail 12-1481</p>					
23. PROJECT ENGINEERING DISPOSITION					
<p>PROJECT ENGINEERING DISPOSITION: "USE AS IS". ITEMS A, D, F, G, H, K, P & Q ARE ACCEPTABLE BECAUSE THEY ARE WITHIN THE TOLERANCES IN DCN 4 TO M-488. ITEMS B, C, E, I, J, L, M, N & S HAVE ACCEPTABLE REINFORCEMENT WITH THE BORE DIMENSIONS GIVEN ON PG 2 (REF CALCULATION FM-5000-12(9)).</p>					
RESP. ENGR G. Abel		DATE 12/28/81	MGRN SUPR. H. Nicolais		DATE 12/28/81
PREP RC Allen		DATE 12-28-81	DATE 12-28-81		
25. DISPOSITION RESULTS		26. ACCEPTANCE			
AUTHORIZED INSPECTOR M. Smith		DATE 12/28/81			

See pg. 4 for
confluence

AAO to Disposition 12/16/81 8m
AAO to Disposition 11/13/81 8m

Corrected Copy

Block 16 CONTINUED.

ITEM	Drawg	LINE N°	Q-USE	S/UN°	FIELD WED	HALF Cg SIZE + RATING	AS MEASURED "F" DIMENSION
A	M616-4	1HCC-417	4164	1EGA	168	1" 3000#	1.079
B	M634-1	2EBB-17	4322	2ABA	59	1" 3000#	1.121
C	"	"	"	"	61	1" 3000#	1.082
D	"	"	"	"	62	1" 3000#	1.067
E	FSK-NI-M604-4	2CCB-24	4047	2BQD	6	1" 6000#	.938
F	FSK-NI-M611-4 ^{CONN}	2FCB-19	4114	2BCA	15	1" 3000#	1.073
G	M617-14	2HBB-28	4174	2EGA	77	1" 3000#	1.072
H	M619-9	OHBC-21	4192	2EAD	57	2" 3000#	2.074
I	FSK-DVI-M611-6	2FCB-22	4114	2BCA	7	2" 3000#	2.127
J	M616-14	1HBC-517	4164	1EGA	34	1" 3000#	1.113
K	M616-14	1HBB-29	"	"	208	1" 3000#	1.066
L	"	"	"	"	207	1" 3000#	1.084
M	"	"	"	"	210	1" 3000#	1.096
N	"	1HBB-28	"	"	212	1" 3000#	1.080
O	M616-6	1HBC-312	4164	1EGA	139	1" 3000#	1.170

② THE FOLLOWING LISTED HALF COUPLINGS HAVE "F" BORE DIAMETERS LESS THAN THOSE SPECIFIED IN 7220-M-488 REV 8.

ITEM	Drawg	LINE N°	Q-USE	S/UN°	FIELD WED	HALF Cg SIZE + RATING	AS MEASURED "F" DIMENSION
P	M613-4	2HCB-5	4134	2BKA	27	1" 3000#	1.019
Q	M616-14	1HBC-515	4164	1EGA	194	1" 3000#	1.035

MEASUREMENTS WERE TAKEN WITH TELESCOPING GAUGES AND MICROMETERS BPC 2623 CAL DUE DATE 11/7/81, BPC 2967 CAL DUE DATE 4/24/82, AND BPC 2937 CAL DUE DATE 3/8/82.

17 Hold Tags Applied

**DRAWING CHANGE
NOTICE
(DCN)**

DRAWING NO.	SHEET NO	REV	DCN NO
7220-M-488 (Q)	N/A	8	4

JOB NO. 7220 PAGE 1 OF 1

CHANGE REQUESTED BY: ☐ CLIENT ☐ ENGINEERING ☒ FIELD ☐ SUPPLIER/CONTRACTOR

REASON FOR CHANGE: ESTABLISH TOLERANCES ON HALF COUPLING BORE & CLARIFY OPERATIONS

MATERIAL PROCUREMENT RESPONSIBILITY	AFFECTED PURCHASE ORDERS	PM OR MR PREPARED FOR DCN CHANGE
<input type="checkbox"/> BECHTEL OFFICE <input type="checkbox"/> SUPPLIER/CONTRACTOR <input checked="" type="checkbox"/> BECHTEL FIELD <input type="checkbox"/> NONE REQUIRED <input type="checkbox"/> CLIENT	Field P.O.:	YES NO
		N/A

DESCRIPTION OF CHANGE:

1) ADD THE FOLLOWING TO NOTE 2 ON SHEET 1: "TOLERANCE ON "F" DIMENSION ARE ± 0.030 "

2) UNDER 6000 LB CLASS REVISE AS FOLLOWS ON SHEET 1:

SIZE	"F"
1/2	.464
3/4	.612
2	1.687

3) ON SHEET 2 TO "DRILL THRU DIA. AFTER WELDING" ADD "EXCEPT WHEN HALF COUPLING TYPE MAKES THIS UNNECESSARY."

EFFECTIVITY OF CHANGE:

IMMEDIATELY

INSTRUCTIONS REGARDING USED MATERIAL/EQUIPMENT:

N/A

ORIGINATOR	CHECKED	APPROVAL	DATE
Label 10-13-81	<i>[Signature]</i>	LHC/SA GR SUPVR PE	10/22/81

Corrected Copy

FOR INFORMATION ONLY



NONCONFORMANCE REPORT (CONT'D)

20, PAGE 4 OF 4 1-13 82 19, NCR NO. 3747

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
			<input checked="" type="checkbox"/>
PROJECT FIELD ENGINEER		DATE 1/19/82	
PROJECT ENGINEER		DATE 1/19/82	
PROJECT CONSTR QC ENGINEER		DATE 1-22-82	
AUTHORIZED INSPECTOR		DATE 1/22/82	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	



Block 16 Continued

PAGE-P.210 REV 10 Activity 2.2 STATES ON Full Penetration Groove Welds QC is to inspect Fit-up Prior to Welding.

Condition: Hanger 2-617-7-18 has a Full Penetration groove weld shown at item 11 to item 6. Weld was made without fit-up or documentation of full penetration groove weld by Q.C. There Forc, BY PASSING Q.C. Hold Point.

Q List No. 4.172

1 Hold Tag Applied

Block 22 continued: The hanger sketch has been revised to ²¹⁰⁶⁴ clarify the welding requirements. (LH 8724)
Tom Hamilton
2/2/82



FIELD ENGINEER'S REPORT FORM

MIDLAND UNITS 1 & 2

JOB 7220

DATE 8/26/81

PAGE 1 OF 2

ITEM NO.	INSPECTION DESCRIPTION	ACTION REQUIRED/TAKEN
* P-488 HUGHFIELD	WALK-DOWN 384-1, 389-2, 389-1, 387-1, 399-1, 706-1	Completed these WALKDOWNS today. *
P-923 SERAGUE	617-7-18/2HBC-130-H-2	SURV/FIT-UP OF PARTIAL TENT WELDS OK
D-1062 COOPER	611-5-9/2HCB-1-H1	FITTING
D-897 D'WISS	617-15/2HBC-518 FW44 & 42	FIT-UP & SURV OF ROOT PASS
D-680 BROGEN	604-8-24/2CCB-6 H12 Root Passes	SURV/WELDING TECHNIQUE VISUAL FILL PASS - OK
D-433 CHADWICK	604-5-32/2CCB-9-H12	IN PROCESS/FITTING
D-412 WELCH	656-9/2HBC-351 FW12C1 & 78	SURV/WELDING TECHNIQUE HOT PASS
D-1060 HUIZINGA	617-15/2HBB-29 FW51	IN PROCESS/ROOT PASS
D-507 BRANHAM	617-14/2HBC-514 FW 38	VISUALLY CK'D FW 38 - OK

REMARKS:

ROUTE

2 HARRISON

SIGNATURE

FILE

Page 3 of 4

NCE 3727



NONCONFORMANCE REPORT (CONT'D)

20. PAGE 4 OF 4

19. NCR NO 3721

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
<i>N/A</i>			
<i>[Signature]</i> PROJECT FIELD ENGINEER		DATE <i>11/5/82</i>	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE <i>11/2/82</i>	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
<i>POC</i>			
<i>[Signature]</i> PROJECT FIELD ENGINEER		DATE <i>2/17/82</i>	
PROJECT ENGINEER		DATE	
<i>[Signature]</i> PROJECT CONSTR QC ENGINEER		DATE <i>2/18/82</i>	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
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PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
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PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
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PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	



CONTACT: Jim Kelleher F.E.

NONCONFORMANCE REPORT

S/O - NON TESTABLE

1. Project Name MIDLAND		Job No. 7220		19. No. 3721		20. Page 1 of 1	
2. Unit(s) COMMON		3. Drawing/Part No. N/A		4. Item Description COMPRESSIVE STRENGTH CYLINDERS		5. Item Location Pore # Y(630) N20	
6. P.O. Dr Spec No. N/A		7. Serial No. N/A		8. Replacement Part P/N N/A REV N/A		9. Source N/A ENGINEERING	
11. Inspection Criteria <input type="checkbox"/> DWG <input checked="" type="checkbox"/> SPEC		IN NO. C-140-816 817		12. ASME AUTHORIZED INSPECTION REQ'D <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		13. SKETCH ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
15. Nonconforming Condition: Spec. C-208 REV. 21 SECTION 7.3.2 AND TABLE 1 STATES IN PART THAT... CYLINDERS SHALL BE CAST FROM REPRESENTATIVE SAMPLES TAKEN @ THE TRANSPORT DISCHARGE (PUMP LINE DISCHARGE) & THE FREQUENCY SHALL BE 1 SET FROM EACH 700 CYL. FOR EACH CLASS OF CONCRETE (1, 2)... Contrary to the above, NO CYLINDERS WERE CAST ON Pore # Y(630) N, Ticket # 3926, Ink # 10 & Pore # Y(630), Ticket # 3908, Ink # 18, HOLD FOR ENGINEERING DISPOSITION. NO HOLD TAG APPLIED. Q'INT NO. UNKNOWN		14. Discovered During <input checked="" type="checkbox"/> MECH <input type="checkbox"/> CONST <input type="checkbox"/> TEST		15. Equip Furnished By <input type="checkbox"/> CLIENT <input checked="" type="checkbox"/> ENG		24. Disposition Concurrence	
17. Reported By <i>[Signature]</i>		Date 10/8/81		Validated By <i>[Signature]</i>		Date 10-9-81	
21. Routing <input checked="" type="checkbox"/> TO FIELD ENGINEERING		<input type="checkbox"/> TO OTHERS (SPECIFY)		25. Disposition Results		AUTHORIZED INSPECTOR DATE	
22. <input type="checkbox"/> Field Engineering Disposition		<input checked="" type="checkbox"/> FIELD ENGINEERING RECOMMENDED DISPOSITION TO PROJECT ENGINEERING		26. <i>[Signature]</i>		DATE 2/18/82	
Field Engineering recommends to "USE AS IS". The concrete in question was used for a mudmat. Cylinders were taken for the class II pours on the dates in question that would be representative of the mudmat concrete. The required strength for mudmat concrete is 2000 psi. Attached are the Class II concrete cylinder reports. All tests (slump, air & temp) were witnessed by AC. PP. Return		AS PER "BRIAN" ENGINEER AT JOBSITE: POUR Y(630) N20; AND FOUR Y(615) G & Y(624) S E WERE POURED ON THE SAME DAY. CONCRETE IN QUESTION WAS USED FOR MUD MAT. THE AVERAGE 28 DAYS STRENGTH OF CONCRETE IS MORE THAN 5000 PSI WHICH IS HIGHER THAN THE REQUIRED STRENGTH OF MUD MAT. THEREFORE, PROJECT ENGINEERING'S CONCURS WITH FIELD ENGINEERING'S RECOMMENDATION TO "USE AS IS". NO SPEC. CHANGE IS REQ'D.		AUTHORIZED INSPECTOR DATE		DATE	

APC to Disposition: 10/26/81 P.K.

NCR 3721
Pg. 2 of 3



BECHTEL POWER CORPORATION
MIDLAND NUCLEAR POWER PLANT JOB 07220
REPORT OF CONCRETE CYLINDERS

RE ACCEPTANCE	DATE
CONTRACT NUMBER	FILE NUMBER

1. CEMENT IDENTIFICATION Y (615) G DATE PLACED 8-19-80

2. PLACEMENT LOCATION Smy Paint Shop

PLANT DATA Allied Concrete Products CEMENT BRAND AND TYPE Aetna Type I

3. TEST DATA P-1c CLASS II ☐ YES ☒ NO REQUIRED STRENGTH 4000 PSI AT 28 DAYS

TEST DATA AT BATCH PLANT Yield: 26.72

4. TEST DATA 39662 TRUCK NO. 18 TIME OF DELIVERY 1158 HOURS AT 9 YARDS INITIALS Rm

5. TEST DATA 2.4 INCHES AIR CONTENT 1.1 TEST WEIGHT 149.4 LBS. TEMP. CONCRETE 76 TEMP. AIR 72

6. TEST DATA 2.4 INCHES WATER CEMENT RATIO 1.170 STRENGTH N/A WATER CEMENT RATIO 42 MAX. 40 ACT.

7. TEST DATA N/A INITIALS N/A AT N/A HRS. INITIALS N/A

TEST DATA AT PLACEMENT

8. TEST DATA 39662 TRUCK NO. 18 TIME OF TESTING 1215 HOURS AT 9 YARDS TIME OF HOLDING 1237 HRS.

9. TEST DATA 3314 INCHES AIR CONTENT 3.1 TEMP. CONCRETE 81 TEMP. AIR 76 INITIALS SAT

10. TEST DATA 66 INCHES WATER CEMENT RATIO 79 STRENGTH 8-20-80 AT 0815 HRS. INITIALS RB

COMPRESSION STRENGTH DATA ASTM - C - 31 - 71

17. SPECIMEN IDENTIFICATION	18. DATE WELDED	19. DATE TESTED	20. AGE	21. TOTAL LOAD IN POUNDS	22. ACTUAL CYL. DIAM.	23. ACTUAL CYL. AREA	24. % CURE	25. STRENGTH PSI
H691F-9211	8-19-80	8-26-80	7	119,000	6.00	28.27	B 1 6	4210
9212	"	"	7	121,500	6.00	28.27	B 1 6	4300
9213	9-16-80	28	28	148,500	6.00	28.27	A 1 27	5250
H691F-9214	8-19-80	"	28	148,000	6.00	28.27	A 1 27	5240

11. STANDARD CYLINDER 5" X 15" ☒ CUBE ☐ CORE ☐ OTHER

12. AGE (DAY) 7 TESTED BY GW CHECKED BY BR CHECKED BY BE REP

13. AGE (DAY) 28 TESTED BY RB CHECKED BY BR CHECKED BY BE REP

LABORATORY SUPERVISOR [Signature] DATE 9-17-80

14. TYPE OF BREAKS A = CONE, MORTAR FAILURE B = CONE, AGGREGATE FAILURE C = SHEAR, MORTAR FAILURE D = SHEAR, AGGREGATE FAILURE E = OTHER

NCR 3721
Pg 3 of 3



BECHTEL POWER CORPORATION
MIDLAND NUCLEAR POWER PLANT JOB 07220
REPORT OF CONCRETE CYLINDERS

ON ACCEPTANCE	DATE
CONTROL NUMBER	FILE NUMBER

1. CEMENT IDENTIFICATION

Y (639.5)E

DATE PLACED
8-20-80

2. PLACEMENT LOCATION

Unit #1 MAIN X-FORMER

PLANT DATA	CEMENT	CEMENT BRAND AND TYPE
ALLIED CONCRETE PRODUCTS		Aetna Type I
TYPE	CLASS	TEST
C-10	TL	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
REQUIRED STRENGTH		AT
4000 PSI		28 DAYS

TEST DATA AT BATCH PLANT

Yield: 26.42

TRUCK NO.	TRUCK NO.	TIME OF HOLDING	HOURS AT	YARDS	INITIALS
39687	12	1007	4		RM
ASTM C-150	AIR CONTENT	UNIT WEIGHT	TEMP. CONCRETE	TEMP. AIR	
3/4	3.0	150.77	78	70	
WATER-REDUCING	WATER-REDUCING	WATER-REDUCING	WATER-REDUCING	WATER-REDUCING	
3.9	1.1	N/A	.43	.41	
INITIAL CURING	INITIAL CURING	INITIAL CURING	INITIAL CURING	INITIAL CURING	
N/A	N/A	N/A	N/A	N/A	

TEST DATA AT PLACEMENT

TRUCK NO.	TRUCK NO.	TIME OF TESTING	HOURS AT	YARDS	INITIALS
39687	12	121103	4		GW
ASTM C-150	AIR CONTENT	TEMP. CONCRETE	TEMP. AIR	INITIALS	
1 1/2	3.0	80	70	GW	
INITIAL CURING	INITIAL CURING	INITIAL CURING	INITIAL CURING	INITIAL CURING	
64	70	557	0010	RM	

COMPRESSIVE STRENGTH DATA

ASTM - C - 31 - 71

17. SPECIMEN IDENTIFICATION	18. DATE MOULDED	19. DATE TESTED	20. AGE	21. TOTAL LOAD IN POUNDS	22. ACTUAL CYL. DIAM.	23. ACTUAL CYL. AREA	24. CURE	25. STRENGTH PSI
46935-9219	8-20-80	8-27-80	7	117,500	6.02	28.46	A 1 6	4130
9220		"	7	118,500	6.00	28.27	A 1 6	4190
9221		9-17-80	28	147,500	6.01	28.37	B 1 27	5200
46935-9222	8-20-80	"	28	143,000	6.02	28.46	B 1 27	5020

26. STANDARD CYLINDERS

☒ X 1" ☐ CURE ☐ CORE ☐ OTHER

REMARKS

TESTED BY: CHECKED BY: RECHECKED BY: OR REP

7 SAT BR

28 GW BR

LABORATORY SUPERVISOR

DATE

TYPE OF BREAKS

A = CONE, MORTAR FAILURE S = CONE, AGGREGATE FAILURE C = SHEAR, MORTAR FAILURE
D = SHEAR, AGGREGATE FAILURE E = OTHER

10/1/81 Au-162e7
10382 3-14-79



Engineer: *Contracted: G. Kelleher*

NONCONFORMANCE REPORT

SIU Code: *Indeterminate*

1. Project Name <i>Midland</i>		Job No. <i>7720</i>		20. Page 1 of <i>X</i>	
2. Unit(s) <i>N/A</i>	3. Drawing/Part No. <i>N/A</i>	4. Item Description <i>740 Bags Purchased from 713 Non Shrink Shrink</i>	5. Item Location <i>Warehouse # 2</i>	19. No. <i>3718</i>	20. Page 1 of <i>X</i>
6. P.O. Or Spec No. <i>F-53436</i>	7. Serial No. <i>N/A</i>	8. Replacement Part P/N <i>N/A</i> REV <i>N/A</i> SER NO. <i>N/A</i>	9. Source <i>Supplier</i>	10. Contractor/Supplier <i>Master Builders</i>	
11. Inspection Criteria <input type="checkbox"/> DWG <input checked="" type="checkbox"/> SPEC <input type="checkbox"/> OTHER NO. <i>G-33 Rev. 14</i>	IR NO. <i>R-100-16208</i>	12. ASME AUTHORIZED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	13. SKETCH ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	14. Discovered During <input type="checkbox"/> REC <input type="checkbox"/> CONST <input type="checkbox"/> TEST <input type="checkbox"/> CLIENT <input type="checkbox"/> ENG <input checked="" type="checkbox"/> FLD	15. Equip. Furnished By <input type="checkbox"/> TEST <input type="checkbox"/> CLIENT <input type="checkbox"/> ENG <input checked="" type="checkbox"/> FLD
16. Nonconforming Condition: <i>P.O. F-53436 requires the material to be tested for compressive strengths and for shrinkage. Contrary to this, the required tests have not been completed for the Master Low 713 Non Shrink Shrink received on AEO-16208. Also, no S&C was received for the material, leaving the status of the material indeterminate. Q list # indeterminate</i>					
17. Reported By <i>Mr. Woodward</i> Date <i>10/10/01</i>					
18. Validated by <i>R. E. Smith</i> Date <i>10-9-01</i>					
21. Routing <input checked="" type="checkbox"/> TO FIELD ENGINEERING <input type="checkbox"/> TO OTHERS (SPECIFY)					
22. Field Engineering Disposition <input checked="" type="checkbox"/> FIELD ENGINEERING RECOMMENDED DISPOSITION TO PROJECT ENGINEERING					
23. Project Engineering Disposition					
24. Disposition Concurrence NEW WORK REJECT REPAIR USE AS IS <input checked="" type="checkbox"/> X					
25. Disposition Results <i>Documentation has been received. Compressive strength & shrinkage test reports have been received, reviewed & accepted. Signed 2/12/02</i>					
26. QC Acceptance <i>J. Kelleher, Jr.</i> Date <i>2/12/02</i>					
27. Authorized Inspector <i>J. Kelleher, Jr.</i> Date <i>2/12/02</i>					



NONCONFORMING MATERIAL INSTALLATION CONDITIONAL RELEASE

1. Project No. 7220 2. Date 10/13/81 3. Page 2 of 24. Initiated By J. KELLEHER5. This is to approve the conditional installation or further work of the nonconforming material as shown on NCR 3718
If there are further restrictions on the conditional release they shall be noted in remarks below.6. Location _____ 7. ASME Authorized Inspection
Required. Yes ☐ No ☒8. "Q" No. INDETERMINATE9. Item Description NON-SHRINK EMBELLO 713 GROUT

10. Remarks:

A CONDITIONAL RELEASE IS GRANTED FOR THE REFERENCED MATERIAL. CORRECTIONS OR REMOVAL CAN BE ACCOMPLISHED WITHOUT CAUSING DAMAGE OR CONTAMINATION TO ASSOCIATED PLANT EQUIPMENT OR STRUCTURE.

RECORDS SHALL BE KEPT AS TO WHERE THE GROUT HAS BEEN USED UNTIL TEST REPORTS ARE RECEIVED.

11. PFE [Signature] Date 10/13/8112. PFOCE [Signature] Date 10/13/8113. PQAE (ASME) [Signature] Date 10/13/81

14. Auth Insp (ASME) _____ Date _____

15. MPQAD Donald E. Horn Date 10/13/81

16. Responsible QCE has identified Hold Tag "Conditional Release" and the limitation of the conditional release.

QCE [Signature] Date 10/13/81

10/13/81
NCR 3718 pg. 2 of 2
10/13/81



UPON RECEIPT INSPECTION OF THE 720 BAGS OF GROUT RECEIVED ON AEO-16365, MOISTURE WAS FOUND UNDER THE SHRINK WRAP PACKAGING USED TO COVER THE INDIVIDUAL PALLETS OF MATERIAL. APPROXIMATELY (25) TWENTY FIVE BAGS SHOW DAMPNESS ON OUTER PACKAGING, LEAVING THE STATUS OF THE CONTENTS INDETERMINATE.

COMPRESSIVE AND SHRINKAGE TEST BEING PERFORMED FOR THE GROUT RECEIVED ON AEO-16208 WILL BE USED TO COVER THE GROUT RECEIVED ON AEO 16365, SINCE THE LOT # OF THE MATERIAL IS THE SAME.

J. Kamahala
10/29/81

M. Delaney 10/29/81
E. Smith 10/29/81

~~BLOCK 22 (CON'T):~~

~~FIELD ENGINEERING IS GOING TO REJECT THE 25 BAGS THAT SHOW DAMPNESS ON THE OUTER PACKAGING.~~

~~J. Kelloker
10/29/81~~

BLOCK 22 (CON'T):

A PHYSICAL EXAM WAS MADE OF THE 2 WORST (WET) BAGS OF GROUT. THESE BAGS WERE CUT OPEN AND THE GROUT WAS FOUND TO BE DRY. (BASED) ^{JK} THEREFORE THIS IS NOT A NON CONFORMING CONDITION. THE GROUT IS CONSIDERED ACCEPTABLE

J. Kelloker
10/29/81

E. Smith
10/29/81



NONCONFORMANCE REPORT (CONT'D)

20, PAGE 4 OF 4

19, NCR NO 3718

24. Disposition Concurrence
Item

REWORK REJECT REPAIR USE AS IS

PROJECT FIELD ENGINEER DATE 10/29/81

PROJECT ENGINEER DATE 10/29/81

PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

24. Disposition Concurrence
Item

REWORK REJECT REPAIR USE AS IS

PROJECT FIELD ENGINEER DATE 10/29/81

PROJECT ENGINEER DATE 10/29/81

PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

24. Disposition Concurrence
Item

REWORK REJECT REPAIR USE AS IS

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

24. Disposition Concurrence
Item

REWORK REJECT REPAIR USE AS IS

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

24. Disposition Concurrence
Item

REWORK REJECT REPAIR USE AS IS

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

24. Disposition Concurrence
Item

REWORK REJECT REPAIR USE AS IS

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

24. Disposition Concurrence
Item

REWORK REJECT REPAIR USE AS IS

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

24. Disposition Concurrence
Item

REWORK REJECT REPAIR USE AS IS

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

24. Disposition Concurrence
Item

REWORK REJECT REPAIR USE AS IS

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

24. Disposition Concurrence
Item

REWORK REJECT REPAIR USE AS IS

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

24. Disposition Concurrence
Item

REWORK REJECT REPAIR USE AS IS

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

24. Disposition Concurrence
Item

REWORK REJECT REPAIR USE AS IS

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE



5/U # NON-TESTABLE
SEE PG'S 2 & 3

PERSON NOTIFIED - B. BANE

NONCONFORMANCE REPORT

1. PROJECT NAME MIDLAND PLANT		JOB NO. 7220		19. NO. 3711	20. PAGE 1 OF 3
2. UNIT(S) 1 & 2	3. DRAWING/PART NO. N/A	4. ITEM DESCRIPTION CABLE COILS			
5. P.O. OR SPEC NO. N/A	6. SERIAL NO. N/A	7. REPLACEMENT PART P/N N/A REV N/A	8. SOURCE CONSTRUCTION	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA (M) DWG (M) SPEC (M) OTHER	IR NO. N/A	12. ASME AUTHORIZED INSPECTION REQ'D () YES (M) NO	13. SKETCH ATTACHED () YES (M) NO	14. Discovered During () Rec'd (M) Const () Test	15. Equip. Furnished By () Client (M) Eng () FLD
16. NONCONFORMING CONDITION: <u>REQUIREMENTS:</u> ①. E-42 REV. 51 SH. 7 PARA 4F: CONDUCTOR SHALL BE PROTECTED FOR ANY DAMAGES. ②. E-47 REV. 2 PARA 5.1.2: CABLE INSTALLED... ARE MARKED IN A MANNER OF SUFFICIENT DURABILITY... THIS CABLE MARKING ARE APPLIED TO OR DURING INSTALLATION. (SEE PAGE 2).					
17. REPORTED BY SEMYON REVICH		DATE 9-28-81	18. VALIDATED BY [Signature]	DATE 10-1-81	22. DISPOSITION RESULTS Cables 2002240846, 20023842, 2002171A have been pulled out & scrapped per 402 3336. Jeff Lange 11-11-81 Cables 2002240846, 20023842, 2002171A have been coiled & supported properly. S.C. McLean 12/10/81
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		23. PROJECT ENGINEERING DISPOSITION Reworked complete. S. Revich 2-25-82			
28. QC ACCEPTANCE [Signature]		QC ENGINEER DATE 2-25-82			
AUTHORIZED INSPECTOR		DATE			



③, AIE-4.100 REV.3 PARA 4.3; CABLE ENDS SHALL BE SEALED... EXCEPT WHEN IN PROCESS OF CUTTING OR PULLING.

④, APE-4.000 REV.4:

- PAGE 3 PARA 6.6.1: WHEN COILING ELECTRICAL CABLE, CARE MUST BE TAKEN TO PROVIDE PROPER SUPPORT, AND TO ENSURE THE COILED CONFIGURATION DOES NOT EXCEED THE MINIMUM BEND RADIUS. WHEN UTILIZING TY-RAPS, MINIMUM WIDTH SHALL BE $\frac{3}{8}$ " WHEN USING ROPE...;
- PAGE 4 PARA 7.1: DURING PULLING, CABLES SHALL BE TEMPORARILY IDENTIFIED BY ATTACHING THE TEAR-OFF TAGS FROM THE PULL CARD TO THE CABLE WITH A CLEAR TAPE;
- PAGE 4 PARA 7.3: WHEN IT IS NECESSARY TO REMOVE AN ELECTRICAL CABLE IN ITS ENTIRETY, IT SHALL BE IMMEDIATELY SCRAPPED OR TAGGED/IDENTIFIED....

CONDITION:

CONTRARY TO ①, ②, ③ AND ④ ABOVE DURING THE TIME BETWEEN TWO PARTIAL PULLS OR BETWEEN PULLING AND TERMINATING OF CABLES, SEVERAL CABLES DO NOT MEET THESE REQUIREMENTS. FOR EXAMPLE:

NO'S OF CABLES	LOCATION					DISCRAPANCY CONDITION					RE- MARKS
	BLDG	ELEV.	E-W	N-S	FROM OR NEAR RAILWAY	NO NAME TAG	NOTA- PED ENDS	COIL NOT SUPPORTED OR IMPROPERLY SUPPORTED	WRONG SIZE OF TY-WRAPS	NO COLOR MARKING	
1	2	3	4	5	6	7	8	9	10	11	12
1BKB	1AB5538J	AUX.	568'	6.2 LINE	D LINE	1AC138		+			
1BKB	1AB5538B	↓	↓	↓	↓	1AC159		+			
↓	1AB5538D	↓	5.6-6.2	↓	↓	1AKB017	+	+			
S/U UNKNOWN	NONE	614'	PENETRATION ROOM	355	2Z131	+	+			+	HERE ARE 9 THE SAME CABLE
↓	NONE	↓	↓	↓	2Z135	+	+			+	HERE ARE 12 THE SAME CABLE
25BA	2BQ1756	↓	↓	↓	2BTE02		+				

NONCONFORMANCE REPORT (CONT'D)

[illegible]

Hold For	ENA	Disposition

44	HOLD TAPS APPLIED.
----	--------------------



NOTIFIED
TOM CLEMENTS

NONCONFORMANCE REPORT

SOUTH LEAD

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. Rev NO. 3709	20. PAGE 1 OF 1					
2. UNIT(S) 2	3. DRAWING/PART NO. N/A	REV	4. ITEM DESCRIPTION CABLE (Q) 2BBS609J ANOK	5. ITEM LOCATION (EQUIP) 2B06 TO 2B56 + 2C35						
6. P.O. OR SPEC NO. E-26	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N REV SER NO.	9. SOURCE CONSTRUCTION	10. CONTRACTOR/SUPPLIER N/A						
11. INSPECTION CRITERIA () DWG () SPEC <input checked="" type="checkbox"/> OTHER		IR NO. 2BBS609J NO. 2BBS609K	12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO	13. SKETCH ATTACHED () YES () NO	14. Discovered During () Rec'g () Const () Test					
16. NONCONFORMING CONDITION: THE ABOVE CABLES WERE PULLED IN WITHOUT QC INSPECTION (REFERENCE PSP G-1.1 PARAGRAPH 3.2.3 AND PSP G-6.1 PARAGRAPH 3.1.1 OF THE "QUALITY CONTROL NOTICES MANUAL").			15. Equip. Furnished By () Client () Eng () FLD							
Q LIST 3.007 [3EA (NO TAG ON 2C35 END OF 2BBS609K) FOR 12481 # OF HOLD TAGS 4EA (BOTH ENDS OF EACH CABLE).			24. DISPOSITION CONCURRENCE SEE BLOCK 25							
			<table border="1"> <tr> <td>rework</td> <td>reject</td> <td>repair</td> <td>use as is</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </table>			rework	reject	repair	use as is	<input checked="" type="checkbox"/>
rework	reject	repair	use as is							
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
17. REPORTED BY Carl Miller			18. VALIDATED BY 10/30/81							
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING () TO OTHERS (SPECIFY)			25. DISPOSITION RESULTS QC ACCEPTANCE BASED ON MEGGERING TEST RESULTS AND ROUTING VERIFICATION DOCUMENTED ON F.E.R. #1634 11/30/81							
22. () Field Engineering Disposition <input checked="" type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering Verification of cable routes will be accomplished by cables being rang out during joint walkdown by Q.C. and field engineering. Integrity of cables to be checked with megger test. If cable routes and megger tests check out satisfactory cables are to be used as is. (L.H.)			26. QC ACCEPTANCE 11-30-81							
23. PROJECT ENGINEERING DISPOSITION MEGGER THE SUBJECT CABLES TO VERIFY THEIR ELECTRICAL INTEGRITY. VERIFY THAT THE SUBJECT CABLES ARE PULLED PER APPROVED DESIGN DOCUMENTS. IF BOTH THE CABLE ROUTES AND MEGGER TEST ARE SATISFACTORY 'USE AS IS'. IF THE CABLES ARE PULLED INCORRECTLY, REPULL CORRECTLY. IF THE MEGGER TEST IS UNSATISFACTORY, SCRAP THE EXISTING CABLE AND REPULL A NEW ONE. NO DRAWING REV. REQ'D			<table border="1"> <tr> <td>QC ENGINEER</td> <td>DATE</td> </tr> <tr> <td>11-30-81</td> <td>11-30-81</td> </tr> </table>			QC ENGINEER	DATE	11-30-81	11-30-81	
QC ENGINEER	DATE									
11-30-81	11-30-81									

E
11/2/81
Prt

Rev. 11-30-81 On

11-30-81
11/30/81
11/30/81

PERSON NOTIFIED -
BETH HULSEY

S/A # NONE

Startup System - Inadequate

NONCONFORMANCE REPORT

Q List - Inadequate

1. Project Name MIDLAND		Job No. 7220		19. No. 3684		20. Page 1 of 2	
2. Unit(s) 2		3. Drawing/Part No. N/A		4. Item Description CABLE		5. Item Location AUX. BLDG DLINE, TIE OFF T.Y. NEAR TRAY 2A JB 22	
6. P.O. Or Spec No. N/A		7. Serial No. N/A		8. Replacement Part PIN N/A REV N/A		9. Source N/A	
11. Inspection Criteria <input type="checkbox"/> LOW <input type="checkbox"/> SPEC <input checked="" type="checkbox"/> OTHER NO. 12-4-80 REV. 1		12. ASME AUTHORIZED INSPECTION REQ'D <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		13. SKETCH ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		14. Discovered During <input type="checkbox"/> MECH <input checked="" type="checkbox"/> CONST <input type="checkbox"/> TEST <input type="checkbox"/> CLIENT <input checked="" type="checkbox"/> ENG <input type="checkbox"/> PLD	
16. Nonconforming Condition: ① PER FIE - 4.100 REV. 3 PARA 4.3: CABLES' ENDS SHALL BE SEALED EXCEPT WHEN IN PROCESS OF CUTTING OR PULLING. ② PER E-42A REV. 51 SH. 7 PARA 4.4: CONDUCTORS SHALL BE PROTECTED FOR ANY DAMAGE. ③ PER GPE - 4.000 REV. 4: (SEE PAGE 2)		24. Disposition Concurrence		25. Disposition Results		26. QC Acceptance S. Kovich 2-24-82	
17. Reported By SEMYON REVICH		18. Validated By [Signature]		Date 9/18/81		27. QC Engineer S. Kovich 2-24-82	
21. Routing <input checked="" type="checkbox"/> TO FIELD ENGINEERING		22. Field Engineering Disposition <input type="checkbox"/> FIELD ENGINEERING RECOMMENDED DISPOSITION TO PROJECT ENGINEERING		23. Project Engineering Disposition		28. Authorized Inspector [Signature]	
29. Project Engineering Disposition		30. Project Engineering Disposition		31. Project Engineering Disposition		32. Project Engineering Disposition	
33. Project Engineering Disposition		34. Project Engineering Disposition		35. Project Engineering Disposition		36. Project Engineering Disposition	
37. Project Engineering Disposition		38. Project Engineering Disposition		39. Project Engineering Disposition		40. Project Engineering Disposition	
41. Project Engineering Disposition		42. Project Engineering Disposition		43. Project Engineering Disposition		44. Project Engineering Disposition	
45. Project Engineering Disposition		46. Project Engineering Disposition		47. Project Engineering Disposition		48. Project Engineering Disposition	
49. Project Engineering Disposition		50. Project Engineering Disposition		51. Project Engineering Disposition		52. Project Engineering Disposition	
53. Project Engineering Disposition		54. Project Engineering Disposition		55. Project Engineering Disposition		56. Project Engineering Disposition	
57. Project Engineering Disposition		58. Project Engineering Disposition		59. Project Engineering Disposition		60. Project Engineering Disposition	
61. Project Engineering Disposition		62. Project Engineering Disposition		63. Project Engineering Disposition		64. Project Engineering Disposition	
65. Project Engineering Disposition		66. Project Engineering Disposition		67. Project Engineering Disposition		68. Project Engineering Disposition	
69. Project Engineering Disposition		70. Project Engineering Disposition		71. Project Engineering Disposition		72. Project Engineering Disposition	
73. Project Engineering Disposition		74. Project Engineering Disposition		75. Project Engineering Disposition		76. Project Engineering Disposition	
77. Project Engineering Disposition		78. Project Engineering Disposition		79. Project Engineering Disposition		80. Project Engineering Disposition	
81. Project Engineering Disposition		82. Project Engineering Disposition		83. Project Engineering Disposition		84. Project Engineering Disposition	
85. Project Engineering Disposition		86. Project Engineering Disposition		87. Project Engineering Disposition		88. Project Engineering Disposition	
89. Project Engineering Disposition		90. Project Engineering Disposition		91. Project Engineering Disposition		92. Project Engineering Disposition	
93. Project Engineering Disposition		94. Project Engineering Disposition		95. Project Engineering Disposition		96. Project Engineering Disposition	
97. Project Engineering Disposition		98. Project Engineering Disposition		99. Project Engineering Disposition		100. Project Engineering Disposition	



- PARA 6.6.1: WHEN COILING ELECTRICAL CABLE, CARE MUST BE TAKEN TO PROVIDE PROPER SUPPORT.
- PARA 7.1: DURING PULLING, CABLES SHALL BE TEMPORARILY IDENTIFIED BY ATTACHING THE TEAR-OFF TAGS FROM THE PULL CARD TO THE CABLE WITH A CLEAR TAPE.
- PARA 7.3: WHEN IT IS NECESSARY TO REMOVE AN ELECTRICAL CABLE IN ITS ENTIRETY, IT SHALL BE IMMEDIATELY SCRAPPED OR TAGGED/IDENTIFIED IN SUCH A WAY AS TO CONTROL ITS REUSE/DISPOSAL.

CONDITION:

CONTRARY TO ①, ② AND ③ ABOVE UNNUMBERED CABLE FROM Q-TRAY 2A5B22, LOCATED IN THE AUX. BLDG AT ELEV. 634'-0", NEAR D LINE AND 7'E OF 7.4, HAS CABLE ENDS NOT TAPED, STRIPPED AND LEFT HANGING WITHOUT TERMINATING.

One Hold Tag applied



S.N. RAY
PERSON CONTACTED

NONCONFORMANCE REPORT

235C
5/1 AD-25DA

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3679	20. PAGE 1 OF 1																				
2. UNIT(S) 2	3. DRAWING/PART NO. E-37	REV 48	4. ITEM DESCRIPTION CABLE PULL PACKAGE B-1883	5. ITEM LOCATION EL-678 UPPER SPREADER ROOM TO LOWER SWITCH GEAR ROOM 4W																					
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE CONSTRUCTION	10. CONTRACTOR/SUPPLIER N/A																					
11. INSPECTION CRITERIA <input checked="" type="checkbox"/> DWG <input type="checkbox"/> SPEC <input type="checkbox"/> OTHER		12. ASME AUTHORIZED INSPECTION REQ'D <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	13. SKETCH ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	14. Discovered During <input type="checkbox"/> Rec'g <input checked="" type="checkbox"/> Const <input type="checkbox"/> Test	15. Equip Furnished By <input type="checkbox"/> Client <input type="checkbox"/> Eng <input checked="" type="checkbox"/> FLD																				
16. NONCONFORMING CONDITION: REQUIREMENTS: PER E-37, REV 48 CABLES 2A435C, 436C, 437C, 438C, 439C, 440C SHOULD BE ROUTED THROUGH 2AJF002 (2AJF15-2AJF002 2AJA15) AND SECTION OF TRAY AT 2AJR13 SHOULD BE STENCILED. CONDITION: CONTRARY TO THE ABOVE THESE SIX CABLES WILL NOT FIT INTO 2AJF002, AND TRAY END NOT STENCILED PER DWG E-625, EL-678. HOLD FOR ENGINEERING DISPOSITION, 6 HOLD TAGS APPLIED Q-LIST # 3.003			24. DISPOSITION CONCURRENCE <table border="1"><tr><td>reject</td><td>reject</td><td>repair</td><td>use as is</td></tr><tr><td colspan="3">PROJECT FIELD ENGINEER [Signature] 9/23/81</td><td>DATE</td></tr><tr><td colspan="3">PROJECT ENGINEER</td><td>DATE</td></tr><tr><td colspan="3">PROJ CONSTR QC ENGINEER</td><td>DATE</td></tr><tr><td colspan="3">AUTHORIZED INSPECTOR</td><td>DATE 9/24/81</td></tr></table>			reject	reject	repair	use as is	PROJECT FIELD ENGINEER [Signature] 9/23/81			DATE	PROJECT ENGINEER			DATE	PROJ CONSTR QC ENGINEER			DATE	AUTHORIZED INSPECTOR			DATE 9/24/81
reject	reject	repair	use as is																						
PROJECT FIELD ENGINEER [Signature] 9/23/81			DATE																						
PROJECT ENGINEER			DATE																						
PROJ CONSTR QC ENGINEER			DATE																						
AUTHORIZED INSPECTOR			DATE 9/24/81																						
17. REPORTED BY K.W. ROTH		18. VALIDATED BY [Signature] E. J. [Signature]		25. DISPOSITION RESULTS																					
DATE 9/14/81		DATE 9/16/81																							
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING <input type="checkbox"/> TO OTHERS (SPECIFY)																									
22. <input checked="" type="checkbox"/> Field Engineering Disposition <input type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering CONDUCT 2AJF002 IS LISTED AS ONLY 36% FILL. 2nd CABLE EXTRACTED PULLED IN PER E-37 REV 48. TRAY 2AJR13 WILL BE STENCILED. (P.R.M.) SUBJECT CABLES WILL BE PULLED INTO 2AJF003 PER DCN 777 TO E36. FILL IN 2AJF003 IS 17% [Signature] 9/24/81																									
23. PROJECT ENGINEERING DISPOSITION																									
26. QC ACCEPTANCE [Signature] QC ENGINEER 2-14-82 DATE AUTHORIZED INSPECTOR DATE																									

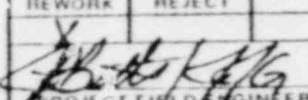
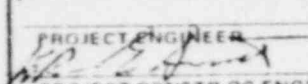


NONCONFORMANCE REPORT (CONT'D)

20. PAGE

OF

19. NCR NO.

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
 9/30/81 PROJECT FIELD ENGINEER DATE			
 10/6/81 PROJECT ENGINEER DATE			
PROJECT CONSTR QC ENGINEER DATE			
AUTHORIZED INSPECTOR DATE			

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER DATE			
PROJECT ENGINEER DATE			
PROJECT CONSTR QC ENGINEER DATE			
AUTHORIZED INSPECTOR DATE			

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER DATE			
PROJECT ENGINEER DATE			
PROJECT CONSTR QC ENGINEER DATE			
AUTHORIZED INSPECTOR DATE			

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER DATE			
PROJECT ENGINEER DATE			
PROJECT CONSTR QC ENGINEER DATE			
AUTHORIZED INSPECTOR DATE			

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER DATE			
PROJECT ENGINEER DATE			
PROJECT CONSTR QC ENGINEER DATE			
AUTHORIZED INSPECTOR DATE			

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER DATE			
PROJECT ENGINEER DATE			
PROJECT CONSTR QC ENGINEER DATE			
AUTHORIZED INSPECTOR DATE			

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER DATE			
PROJECT ENGINEER DATE			
PROJECT CONSTR QC ENGINEER DATE			
AUTHORIZED INSPECTOR DATE			

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER DATE			
PROJECT ENGINEER DATE			
PROJECT CONSTR QC ENGINEER DATE			
AUTHORIZED INSPECTOR DATE			

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER DATE			
PROJECT ENGINEER DATE			
PROJECT CONSTR QC ENGINEER DATE			
AUTHORIZED INSPECTOR DATE			

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER DATE			
PROJECT ENGINEER DATE			
PROJECT CONSTR QC ENGINEER DATE			
AUTHORIZED INSPECTOR DATE			

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER DATE			
PROJECT ENGINEER DATE			
PROJECT CONSTR QC ENGINEER DATE			
AUTHORIZED INSPECTOR DATE			

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER DATE			
PROJECT ENGINEER DATE			
PROJECT CONSTR QC ENGINEER DATE			
AUTHORIZED INSPECTOR DATE			



NONCONFORMANCE REPORT

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3659	20. PAGE 1 OF 2
2. UNIT(S) 1 & 2	3. DRAWING/PART NO.	REV.	4. ITEM DESCRIPTION 2C30 PANEL MODIFICATION	5. ITEM LOCATION AVA. BLDG. / EL. 659 CONTINENTAL TOWER	
6. P.O. OR SPEC NO. U202-RB	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE CONST.	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER	IR NO. EG-1-223	12. ASME AUTHORIZED INSPECTION RECD () YES (X) NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec'g (X) Const () Test	15. Equip Furnished By () Client () Eng () FLD
16. NONCONFORMING CONDITION: REQUIREMENT A: FPE 7.000 REV. 8, PARAGRAPH 6.5, REQUIRES THAT APPROXIMATELY AN EXCESS OF 1/8" OF WIRE SHALL BE EXPOSED BETWEEN THE LUG BODY AND THE WIRE INSULATION. CONDITION A: THE PAPER INSULATION NEXT TO THE WIRE STRANDS IS NOT BEING STRIPPED CLEAN. VISUAL INSPECTION REVEALS PAPER - CONTINUED -					
17. REPORTED BY Chetina	DATE 9-4-81	18. VALIDATED BY ARE [Signature]	DATE 9/4/81	24. DISPOSITION CONCURRENCE rework reject repair use as is [Signature] 9/17/81 PROJECT ENGINEER DATE PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE 25. DISPOSITION RESULTS REWORK COMPLETE PER DISPOSITION Reference 2-23-82	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering Field will rework wiring to conform to section 6.5, FPE 7.000. [Signature] 17 Sept 81					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE [Signature] 2-23-82 QC ENGINEER DATE AUTHORIZED INSPECTOR DATE					



BLOCK 16 CONTINUED-

INSULATION CLEAR UP TO THE LUG BARREL ON MANY TERMINATIONS IN PANELS 1C30 & 2C30 - RENDERING THE QUALITY OF THE TERMINATIONS INDETERMINATE.

REQUIREMENT B: FPE 7.000 REV 8, PARAGRAPH 6.5 REQUIRES THAT SUFFICIENT INSULATION SHALL BE REMOVED FROM INDIVIDUAL CONDUCTORS TO ALLOW "FULL INSERTION INTO THE BARREL OF THE TERMINAL LUG".

CONDITION B: SOME WIRES WERE CRIMPED WITHOUT FULL INSERTION OF THE WIRE STRANDS INTO THE LUG BARREL.

WIRES AFFECTED ARE THOSE REQUIRED BY MODIFICATION PACKAGES FMP 336 REV 0,1 AND FMP 337 REV 0,1.

HOLD FOR ENGINEERING DISPOSITION. 2 HOLD TAGS APPLIED Q LIST-5.031 SU# 1SAC & 2SAC.

DISCUSSED WITH:
JOE MANNO



NONCONFORMANCE REPORT

SU 1EAF 405AA

1. PROJECT NAME MIDLAND NUCLEAR POW.		JOB NO. 7220		19. NO. 3653		20. PAGE 1 OF 1	
2. UNIT(S) M-618-3		3. DRAWING/PART NO. N/A		4. ITEM DESCRIPTION REPLACEMENT PART		5. ITEM LOCATION DG. BLDG. BAY #1	
6. P.O. OR SPEC NO. N/A		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N NA REV NA SER NO. NA		9. SOURCE QC	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. P1000618-3-3012		12. ASME AUTHORIZED INSPECTION REQ'D 8 YES () NO		13. SKETCH ATTACHED () YES () NO	
16. NONCONFORMING CONDITION: REQUIREMENT: PSP G6.1 PARA. 7.0 STATES IN PART THAT THE ASME CODE AUTHORIZED INSPECTOR MAY IDENTIFY REQUIRED WITNESS AND HOLD POINTS FOR CODE ITEMS. CONDITION: ON DWG M-618-3 FW 13C1 OPEN BUTT (EPG) WELD WAS ASSIGNED AN A.I. HOLD POINT ON FIT UP AND MATERIAL REQ'S. INSPECTIONS WERE BY-PASSED AND JOINT WAS COMPLETED WITHOUT A.I. CONCURRENCE. Q.LIST # 4.185		14. DISCOVERED DURING () REC'G () CONST () TEST		15. EQUIP FURNISHED BY () CLIENT () ENG () FIELD		24. DISPOSITION CONCURRENCE rework reject repair use as is	
17. REPORTED BY David J. Pastma		DATE 8/31/81		18. VALIDATED BY [Signature]		DATE 9/4/81	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		25. DISPOSITION RESULTS FOR DOCUMENTATION SEE QC 112 # M-618-3-13C1A LOG # 132605 AND QC 112 # M-618-3-13C1A LOG # 134666. Pending Pastma report					
22. () Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering Quality Control should open an "A" suffix to the PW1.00 QCIR. The joint shall then be radiographed to determine whether or not it meets code requirements. When the radiograph is accepted by the SNT Level II, it shall be reviewed by the ANI. Pending ANI acceptance, use as is. Discussed with A.I. J. Morgan. [Signature] 9/10/81							
23. PROJECT ENGINEERING DISPOSITION PROJECT ENGINEERING CONCURS WITH FIELD ENGINEERING DISPOSITION TO "USE AS IS" PROVIDED IT IS RADIOGRAPHED AS ABOVE AND THE AUTHORIZED INSPECTOR ACCEPTS THE WELD, NO DRAWING OR SPECIFICATION CHANGES REQUIRED.							
26. QC ACCEPTANCE [Signature] 9/15/81 DATE 9/15/81 QC ENGINEER [Signature] 9/15/81 DATE 9/15/81 AUTHORIZED INSPECTOR [Signature] 9/15/81 DATE 9/15/81							

9/10/81
CN

REC Disposition 9/18/81



NONCONFORMANCE REPORT

S/L - NON-TESTABLE

1. PROJECT NAME MILANO		JOB NO. 7220		19. NO. 3651	20. PAGE 1 OF 9
2. UNIT(S) COMMON	3. DRAWING/PART NO. C-2022	REV 2	4. ITEM DESCRIPTION SETTLEMENT MONITORING	5. ITEM LOCATION DIESEL GENERATOR BLOC	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE ENGINEERING	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. NO. C-2022	12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO	13. SKETCH ATTACHED () YES () NO	14. Discovered During () Rec'g () Const () Test
15. Equip Furnished By () Client () Eng () FLD			24. DISPOSITION CONCURRENCE		
16. NONCONFORMING CONDITION: DWG. C-2022 REV. 2 CON #5 STATES THAT BORRUS ANCHORS BA-61 thru BA-64 SHALL BE MONITORED BY ENLBERG-ZOINO-DUNNIELIFF & ASS. (GEO) MONTHLY UNTIL COMMENCEMENT OF THE PERMANENT PLANT AREA DEWATERING. CONTRARY TO THE ABOVE, NO READINGS WERE TAKEN FOR THE MONTHS OF APRIL & MAY OF 1981. SEE ATTACHED GEO REPORTS. HOLD FOR ENGINEERING DISPOSITION, NO HOLD TAGS APPLIED.			25. DISPOSITION RESULTS		
17. REPORTED BY Hall		DATE 9/2/81	18. VALIDATED BY E. Smith	DATE 9-3-81	
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition <input checked="" type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering Project Engineering to resolve. Larry P. ... 10/5/81					
23. PROJECT ENGINEERING DISPOSITION RECOMMENDS "USE AS IS". AN EVALUATION WAS PERFORMED BY GEOTECHNICAL ENGINEERING, TO DETERMINE THE IMPACT OF THE LOSS OF 2 MONTHS DATA, DURING THE LONG-TERM MONITORING PROGRAM. THE RESULTS INDICATE NO DETRIMENT TO THE PROGRAM. THE DEEP BORRUS-ANCHOR PROGRAM WAS INTENDED TO PREVENT LONG-TERM MOVEMENT TRENDS, AND DEPENDS UPON MANY READINGS, TAKEN OVER A LONG PERIOD OF TIME. THE DATA TAKEN BEFORE AND AFTER THE PERIOD OF TIME IN QUESTION INDICATE NO CHANGE IN THE OVERALL OR LONG-TERM TREND. N EVALUATION REQ'D. NO DRUG. CHANGE (CLE IE REVISED) 10/21/81					
26. DATE OF ACCEPTANCE 2/18/82				DATE	
QC ENGINEER				AUTHORIZED INSPECTOR	
DATE				DATE	

A70 to Disposition 10/8/81 P.H.

MIDLAND PLANT - DIESEL GENERATOR BUILDING

DEEP BORROS ANCHOR COMPUTATION SHEET

ANCHOR NUMBER BA 61

ELEVATION OF ANCHOR TIP 535.0

INITIAL READING & DATE 7.372 8/28/79

DATE	COMPUTED BY	CHECKED BY	READING AVERAGE	ABSOLUTE SETTLEMENT NOT CORRECTED FOR TEMPERATURE (INCHES)	8/28/79 NOTES
9/28/79	JVE	WAB	7.360	-0.012	50°F 0715 Hrs.
10/11/79	JVE	WAB	7.324	-0.048	40°F 0910 Hrs.
10/25/79	JVE	WAB	7.318	-0.054	1118 Hrs.
11/28/79	JVE	WAB	7.321	-0.051	1540 Hrs.
1/17/80	JVE	WAB	7.341	-0.031	1615 Hrs.
2/28/80	JVE	WAB	7.346	-0.026	16-18°F 1220 Hrs.
4/8/80	JVE	WAB	7.365	-0.007	46-48°F 0855 Hrs.
5/14/80	JVE	WAB	7.377	0.005	55-57°F 1226 Hrs.
6/25/80	JVE	WAB	7.399	0.027	85-87°F 1217 Hrs.
7/23/80	JVE	WAB	7.398	0.026	73-74°F 1215 Hrs.
9/3/80	JVE	WAB	7.404	0.032	80°F 1443 Hrs.
9/10/80	JVE	WAB	7.390	0.018	54°F 0901 Hrs.
10/13/80	JVE	WAB	7.407	0.035	50°F 1517 Hrs.
11/20/80	JVE	WAB	7.461	0.089	42°F 1612 Hrs.
12/18/80	JVE	WAB	7.464	0.092	30°F 0921 Hrs.
1/22/81	JVE	WAB	7.479	0.107	15°C 1137 Hrs.
2/24/81	JVE	WAB	7.481	0.109	41°F 1317 Hrs.
3/27/81	JVE	WAB	7.487	0.115	25°C 1315 Hrs.
6/3/81 *	JVE	WAB	7.456	0.084	29°C 1212 Hrs.
* Protective box hit - top of riser rod bent					
7/10/81	JVE	WAB	7.505	0.133	93°F 1230 Hrs.

ABSOLUTE SETTLEMENT = ABSOLUTE SETTLEMENT OF BUILDING

ABSOLUTE SETTLEMENT NOT CORRECTED FOR TEMPERATURE = READING AVERAGE - INITIAL READING
(NEGATIVE INDICATES HEAVE)

NOTE: TEMPERATURE READING TAKEN AT TOP OF RISER ROD.



GEOTECHNICAL INSTRUMENTATION ENGINEERS

7220-CB2-9-9

P115

SUB 96

MIDLAND PLANT - DIESEL GENERATOR BUILDING

DEEP BORROS ANCHOR COMPUTATION SHEET

ANCHOR NUMBER BA-61

EL OF ANCHOR TIP 535.0

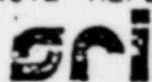
DATE	COMPUTED BY	CHECKED BY	ABSOLUTE SETTLEMENT NOT CORRECTED FOR TEMPERATURE (inches)	TEMPERATURE CORRECTION (inches)	ABSOLUTE SETTLEMENT CORRECTED FOR TEMPERATURE (inches)
2/28/80	JVE	WKB	-0.026	0.012	-0.038
4/8/80	JVE	WKB	-0.007	0.015	-0.022
5/14/80	JVE	WKB	0.005	0.012	-0.007
6/25/80	JVE	WKB	0.027	0.015	0.012
7/23/80	JVE	WKB	0.026	0.007	0.019
9/3/80	JVE	WKB	0.032	0.026	0.006
9/10/80	JVE	WKB	0.018	0.006	0.012
10/13/80	JVE	WKB	0.035	0.004	0.031
11/20/80	JVE	WKB	0.089	0.013	0.076
12/18/80	JVE	WKB	0.092	0.003	0.089
1/22/81	JVE	WKB	0.107	0.003	0.104
2/24/81	JVE	WKB	0.109	0.011	0.098
3/27/81	JVE	WKB	0.115	0.021	0.094
6/3/81 *	JVE	WKB	0.084	0.022	0.062
* Protective box hit - top of riser rod bent					
7/10/81	JVE	WKB	0.133	0.006	0.127

ABSOLUTE SETTLEMENT = ABSOLUTE SETTLEMENT OF BUILDING

ABSOLUTE SETTLEMENT CORRECTED FOR TEMPERATURE = ABSOLUTE SETTLEMENT - TEMPERATURE CORRECTION (NEGATIVE INDICATES HEAVE)

TEMPERATURE CORRECTION = RELATIVE MOVEMENT OF ADJACENT TEMPERATURE ANCHOR

NOTE: REFERENCE TEMPERATURE ON AUGUST 1, 1979 WAS 78° F.



GEOTECHNICAL INSTRUMENTATION ENGINEERS

7220-C92-8-9 P106

SUB 9

DEEP BORROS ANCHOR COMPUTATION SHEET

EL. OF ANCHOR TIP 535.0

ABSOLUTE SETTLEMENT = ABSOLUTE SETTLEMENT OF BUILDING
ABSOLUTE SETTLEMENT CORRECTED FOR TEMPERATURE = ABSOLUTE SETTLEMENT NOT
CORRECTED FOR TEMPERATURE - TEMPERATURE CORRECTION (NEGATIVE INDICATES HEAVE)
TEMPERATURE CORRECTION = RELATIVE MOVEMENT OF ADJACENT TEMPERATURE ANCHOR

NOTE: REFERENCE TEMPERATURE ON AUGUST 1, 1979 WAS 78°F.

MIDLAND PLANT - DIESEL GENERATOR BUILDING

DEEP BORROS ANCHOR COMPUTATION SHEET

ANCHOR NUMBER BA-53

ELEVATION OF ANCHOR TIP 535.0 INITIAL READING & DATE 7.926 / 9/16/79

DATE	COMPUTED BY	CHECKED BY	READING AVERAGE	ABSOLUTE SETTLEMENT NOT CORRECTED FOR TEMPERATURE (inches)	NOTES
1/17/80	DVE	WKB	7.855	-0.071	1625 Hrs.
2/28/80	DVE	WKB	7.868	-0.058	16-18°F 1235 Hrs.
4/8/80	DVE	WKB	7.902	-0.024	46-48°F 0850 Hrs.
5/14/80	DVE	WKB	7.913	-0.013	55-57°F 1223 Hrs.
6/25/80	DVE	WKB	7.918	-0.008	85-87°F 1230 Hrs.
7/23/80	DVE	WKB	7.920	-0.006	73-74°F 1232 Hrs.
9/3/80	DVE	WKB	7.934	0.008	80°F 1428 Hrs.
9/9/80	DVE	WKB	7.926	0.000	72°F 1320 Hrs.
* Adjust initial reading to account for lowering of platform					
	New	initial =	3.903 -	settlement on	9/9/80 (0.000) = 3.903
9/10/80	DVE	WKB	3.903	0.000	71°F 1530 Hrs.
10/13/80	DVE	WKB	3.894	-0.009	55°F 1459 Hrs.
11/20/80	DVE	WKB	3.940	0.037	45°F 1545 Hrs.
12/18/80	DVE	WKB	3.950	0.047	20°F 1228 Hrs.
1/22/81	DVE	WKB	3.962	0.059	15°C 1053 Hrs.
2/24/81	DVE	WKB	3.978	0.075	40°F 1305 Hrs.
3/27/81	DVE	WKB	3.989	0.086	26°C 1325 Hrs.
6/3/81	DVE	WKB	4.010	0.107	29°C 1229 Hrs.
7/10/81	DVE	WKB	4.042	0.139	93°F 1220 Hrs.

ABSOLUTE SETTLEMENT = ABSOLUTE SETTLEMENT OF BUILDING

ABSOLUTE SETTLEMENT NOT CORRECTED FOR TEMPERATURE = READING AVERAGE - INITIAL READING
(NEGATIVE INDICATES HEAVE)

NOTE: TEMPERATURE READING TAKEN AT TOP OF RISER ROD.

SPI

GEOTECHNICAL INSTRUMENTATION ENGINEERS

7220-CB2-9-9 P/25

SUB 9¹⁶

FILE NO. 2220-QA-7

NCR 3651

Page 6 of 9

MIDLAND PLANT - DIESEL GENERATOR BUILDING

DEEP BORROS ANCHOR COMPUTATION SHEET

ANCHOR NUMBER BA-63 EL OF ANCHOR TIP 535

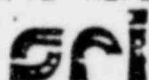
DATE	COMPUTED BY	CHECKED BY	ABSOLUTE SETTLEMENT NOT CORRECTED FOR TEMPERATURE (inches)	TEMPERATURE CORRECTION (inches)	ABSOLUTE SETTLEMENT CORRECTED for TEMPERATURE (inches)
4/8/80	JVE	L.R.B.	-0.024	-0.020	-0.004
5/14/80	JVE	L.R.B.	-0.013	-0.022	0.009
6/25/80	JVE	L.R.B.	-0.008	-0.018	0.010
7/23/80	JVE	L.R.B.	-0.006	-0.019	0.013
9/3/80	JVE	L.R.B.	0.008	-0.016	0.024
9/9/80	JVE	L.R.B.	0.000	-0.023	0.023
9/10/80	JVE	L.R.B.	0.000	-0.023	0.023
10/13/80	JVE	L.R.B.	-0.009	-0.047	0.038
11/20/80	JVE	L.R.B.	0.037	-0.043	0.080
12/18/80	JVE	L.R.B.	0.047	-0.048	0.095
1/22/81	JVE	L.R.B.	0.059	-0.039	0.098
2/24/81	JVE	L.R.B.	0.075	-0.037	0.112
3/27/81	JVE	L.R.B.	0.086	-0.035	0.121
6/3/81	JVE	L.R.B.	0.107	-0.035	0.142
7/10/81	JVE	L.R.B.	0.139	-0.037	0.176

ABSOLUTE SETTLEMENT = ABSOLUTE SETTLEMENT OF BUILDING

ABSOLUTE SETTLEMENT CORRECTED FOR TEMPERATURE = ABSOLUTE SETTLEMENT - TEMPERATURE CORRECTION (NEGATIVE INDICATES HEAVE)

TEMPERATURE CORRECTION = RELATIVE MOVEMENT OF ADJACENT TEMPERATURE ANCHOR

NOTE: REFERENCE TEMPERATURE ON AUGUST 1, 1979 WAS 78° F.



GEOTECHNICAL INSTRUMENTATION ENGINEERS

7220-CB2-8-9

D-15

SUB 9

FILE NO 2220-R

NCR 3651 Page 7 of 9X

ANCHOR NUMBER BA 64

ELEVATION OF ANCHOR TIP 535.0

INITIAL READING & DATE 7.730

* Adjust initial reading, new reference plate installed

New initial = 7.821 - settlement on 11/20/80 (0.091) = 7.730

Page 8 of 9

NOTE: TEMPERATURE READING TAKEN AT TOP OF RISER ROD. INITIAL READING (NEGATIVE INDICATES HEAVE)

GEOTECHNICAL INSTRUMENTATION ENGINEERS

7220-C82-9.9

P130

SUB G²¹

DEEP BORROS ANCHOR COMPUTATION SHEET

EL. OF ANCHOR TIP 535.0

ABSOLUTE SETTLEMENT = ABSOLUTE SETTLEMENT OF BUILDING
ABSOLUTE SETTLEMENT CORRECTED FOR TEMPERATURE = ABSOLUTE SETTLEMENT NOT
CORRECTED FOR TEMPERATURE - TEMPERATURE CORRECTION (NEGATIVE INDICATES HEAVE)
TEMPERATURE CORRECTION = RELATIVE MOVEMENT OF ADJACENT TEMPERATURE ANCHOR

NOTE: REFERENCE TEMPERATURE ON AUGUST 1, 1979 WAS 78°F. P119B



Corrected Copy

Block 16 CONT.

CABLE 2B1025 B WAS SUPPLIED BY VENDOR (FOXBORO) AND NO CRITERIA IS AVAILABLE FOR MAX BEND RADIUS AND MAX PULLING TENSION ALLOWED THEREFORE QUALITY IS INDETERMINATE.

Q-21ST NO, 31004

HOLD FOR ENCL. DISP.

3 HOLD TAGS APPLIED

(1 EACH END OF 2B1025 B, INT 2045 FOR 2BQ155 A.)

Block 16 continued:

Item 2A) Requirement: Bend Radius and maximum tension must be verified.

Item 2A) Condition: AIX. 2, Elev. 674'; Cable CB1046B was pulled through the following vias ... B6B04, B6B05, B6B06, B6B07, B6B08, B6B09, B6B10, B6B11, B6B12, B6B11, and B3059. Cable CB1046B was supplied by vendor (Foxboro). No criteria is available for maximum bend radius and maximum pulling tension allowed, therefore Quality is indeterminate.

2 Hold Tags Applied (1 each end) M/arcia L. Kardly 8/31/01

NONCONFORMANCE REPORT (CONT'D)

20. PAGE 3 OF 3 19. NCR NO. 3633

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	



Discussed with Jean Savoie

NONCONFORMANCE REPORT

s/u # 1348
2 BGD
1 BAC4/28/81
12-14-81

1. Project Name Midland		Job No. 7220		19. No. 3625		20. Page 1 of 2	
2. Unit(s) 1 & 2		3. Drawing/Part No. See Page 2		4. Item Description Bypassed WELD PREHEAT REQUIREMENTS		5. Item Location Aux Bldg	
6. P.O. Or Spec No. N/A		7. Serial No. N/A		8. Replacement Part P/N N/A REV N/A		9. Source CONSTRUCTION	
10. Contractor Supplier N/A		11. Inspection Criteria <input type="checkbox"/> DWG <input type="checkbox"/> SPEC <input checked="" type="checkbox"/> OTHER NO PQCI P-210A		12. ASME AUTHORIZED INSPECTION REQ'D <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		13. SKETCH ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
14. Discovered During <input type="checkbox"/> REC-G <input checked="" type="checkbox"/> CONST <input type="checkbox"/> TEST		15. Equip Furnished By <input type="checkbox"/> CLIENT <input type="checkbox"/> ENG <input type="checkbox"/> FLD		16. Nonconforming Condition: Requirement PQCI-P-2.10 Rev 9 Act No 2.1 states that Quality Control must "Verify that the parts to be joined are properly preheated prior to welding." When welding to structural steel, "GWS-Structural shall be used to govern preheat on welds to structural steel." CONDITION: Quality Control did not verify preheat requirements on hangers FSK-M-1HCB-267-1-H7, FSK-M-2CCB-6-1-H1, FSK-M-1CCB-11-1-H1 which has been welded to a 2" thick beam. GWS-Structural states that material over 1 1/2" in (cont)		24. Disposition: Concurrence REWORK REJECT REPAIR USE AS IS Project Field Engineer DATE 12/4/81 Project Engineer DATE 12/1/81 PROJECT CONSTR QC ENGINEER DATE 03/12/14/81 AUTHORIZED INSPECTOR DATE	
17. Reported By Daryl Kelly 8-24-81		18. Validated By R.K. Siple 8/24/81		25. Disposition Results QC agrees with Project Eng. disposition to "use as is" J. Brownell 2-25-82		26. QC Acceptance J. Brownell 2-25-82 QC ENGINEER DATE AUTHORIZED INSPECTOR DATE	
21. Routing <input checked="" type="checkbox"/> TO FIELD ENGINEERING <input type="checkbox"/> TO OTHERS (SPECIFY)		22. <input type="checkbox"/> Field Engineering Disposition <input checked="" type="checkbox"/> FIELD ENGINEERING RECOMMENDED DISPOSITION TO PROJECT ENGINEERING The referenced hangers were welded to girder G1 while the girder was at ambient temperature (approximately 72°F), rather than the required 225°F. Project Engineering should evaluate the girder to determine if there is any detrimental effect. (Q.N.A.) J. J. [Signature] 8-31-81 J. J. [Signature] 9-2-81		23. Project Engineering Disposition Inspect questioned welds by Liquid Penetrant Test. - PF (SR) - AWS Rev A If welds pass test "Use AS IS" - If not repair welds per memo JEN-101-35 J.E. Northrop to L.H. Curtis dated 10/22/81 (see p. 3 of 4) JEN 10/27/81 JEN 11/2/81			

SEE PG. 4 FOR CONCURRENCE

AHO To Disposition 12/18/81 SW
P. 40 To Disposition 9/3/81 P.A.



11/28/81

(cont.)

thickness must be preheated to 150°F prior to welding.

SKETCH NO.	S/N NO.	Q List No.	Location
FSK-M-11C8-267-1	H7	4.121	ELEV 600'-0" 5'-0" w/ 5.6 6" N/D
FSK-M-20C8-6-1	H1	4.045	ELEV. 598'-3" 6'-3" w/ 7.9 12" S/D
FSK-M-10C8-11-1	H1	4.035	ELEV 599'-4" 7'-5" E/ 5.1 1'-9" N/D

THREE HOLD TAGS INSTALLED

Danny R. Holley 8/24/81

23. PROJECT ENGINEERING DISPOSITION

WELDING PROCEDURE P1-A-L4 HAS BEEN QUALIFIED ON 3" PLATE WITHOUT PREHEAT AND POSTWELD HEAT TREATMENT ON PQR 696. HOWEVER WELDERS ARE NOT RELIEVED OF THEIR RESPONSIBILITY TO PREHEAT IN ACCORDANCE WITH BECHTEL "GENERAL WELDING STANDARDS." THIS IS ONE TIME DEVIATION, NO SPEC. CHANGE REQ'D.

WHL
N.E.L. 11/5/81
A.M. 11-18-81

(See p. 3 of A)



Block 22 revised:

Field Engineering does not agree that PQR #696 is necessarily illustrative of this weld's acceptability since the GTAW process was used on the test sample prior to application of the SMAW.

Field Engineering feels that evaluation of this condition should focus on two considerations; the metallurgical notch and the mechanical notch.

In this carbon range (less than .26%) the metallurgical notch should not be significantly greater than it would be if the weld were preheated. Since the weld was not quenched, but allowed to cool at ambient temperature, the excessive hardness which would result from a martensitic structure (at higher carbon levels) did not occur at this weld.

The mechanical notch created by the weld should be insignificant since the parts being joined were not in restraint when welding took place. Additionally, since a severe notch would most likely be manifested as a weld defect, Field Engineering recommends that a magnetic particle or liquid penetrant examination be performed on the weld.

Pending satisfactory examination results and Project Engineering concurrence, Field Engineering recommends "use as is".

Block 23 revised:

23. The previous M & QS disposition (ref: letter file No. JRN-III-02) was based on code compliance per welding procedure qualification under the rules of ASME III, Subsection NF & ASME IX. Though not directly stated, the disposition was also based on metallurgical considerations. The additional rationale given by the field is correct. However, it is unlikely that the additional MT or PT examinations will be of significance. Civil concurs with M & QS recommendation that the welds be examined per the original fabrication NDE requirements. MT or PT could be used to supplement visual inspection should questionable indications arise. Pending satisfactory examination results, civil recommends to "use as is". SDA 1/4/82

RWS-C-10670

RCL 1/5/82

ED 1/5/82

SS

N.M. 01-08-82



NONCONFORMANCE REPORT (CONT'D)

20, PAGE 4 OF 4 12-11-81 19, NCR NO 3625

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
			✓
PROJECT FIELD ENGINEER		DATE 1/21/82	
PROJECT ENGINEER		DATE 1/19/82	
PROJECT CONSTR QC ENGINEER		DATE 1-27-82	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		OR	DATE

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR			DATE



Discussed with Dave Webb

NONCONFORMANCE REPORT

s/o # 18GB1

4:12-16-81

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 3590	20. PAGE 1 OF 2
2. UNIT(S) 1	3. DRAWING/PART NO. FSK-M-11CC-63-1 H3	REV 2	4. ITEM DESCRIPTION Bypassed Weld Preheat Requirements	5. ITEM LOCATION Aux Bldg El 63711"	
6. P.O. OR SPEC NO. NA	7. SERIAL NO. NA	8. REPLACEMENT PART P/N NA REV NA SER NO. NA	9. SOURCE Const	10. CONTRACTOR/SUPPLIER NA	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. NO. PQCI P210 A	12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO	13. SKETCH ATTACHED () YES () NO	14. Discovered During () Rec'g () Const () Test
15. Equip Furnished By () Client () Eng () FLD			16. NONCONFORMING CONDITION: Requirement PQCI-P210 Rev 8 Act. NO. 2.1 states that Quality Control must "Verify that the parts to be joined are properly preheated prior to welding." When welding to Structural Steel, "GIS-Structural shall be used to govern preheat on welds to structural steel. Condition: Quality Control did not verify preheat requirement = Q list No 4.035 1 Hold Tag Applied		
17. REPORTED BY J. Miller 8/4/81		18. VALIDATED BY R.K. Seple 8/4/81		24. DISPOSITION CONCURRENCE rework reject repair use as is 12/4/81 PROJECT FIELD ENGINEER DATE 12/1/81 PROJECT ENGINEER DATE PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. () Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering		25. DISPOSITION RESULTS Q.C. concurs with "Use as is" disposition per block 23. K. Gustafson 12/1/81	
the referenced hanger was welded to the W14x65 column while the column was at ambient temperature (approx 72°F) rather than the required 225°F. Project engineering should evaluate both the column and the attached cantilever to determine whether the notch created will have a detrimental effect on their performance. continue p.2					
23. PROJECT ENGINEERING DISPOSITION Inspect questioned welds by Liquid Penetrant Test (PT-62) - AWS Rev. 0. If welds pass test "use as is" If not repair welds. Per memo JEN-101-35 J.E. Neithrop to L.H. Curtis on 10/22/81 (see p. 30 of 4) JEN 10/27/81 11/1/81					
26. QC ACCEPTANCE QC ENGINEER AUTHORIZED INSPECTOR				DATE 12/1/81 DATE	

see pg. 16 for concurrence

AFO To Disposition 12/18/81 with
AFO To Disposition 8/10/81 Pdl.

P. 2

on longer FSK M-11EC-63-1 H₂, which was welded to a 4" thick column. GWS-Structural states that material over 2 1/2" in thickness must be preheated to 275°F prior to welding.

B.K. 22 (cont.)

J. Miller 8/1/81

8/1/81

if found to have no detrimental effect, use as is. *Lawson 8/1/81*

23 PROJECT ENGINEERING DISPOSITION:

WELDING PROCEDURE P1-A-LH HAS BEEN QUALIFIED ON 3" PLATE WITHOUT PREHEAT AND POSTWELD HEAT TREATMENT ON PQR 696 (SHOWN UP TO 5 3/4" THICKNESS). HOWEVER WELDERS ARE NOT RELIEVED OF THEIR RESPONSIBILITY TO PREHEAT IN ACCORDANCE WITH BECHTEL "GENERAL WELDING STANDARDS". THIS IS ONE-TIME DEVIATION, NO SPEC. CHANGE REQ'D.

FILE 11/5/81

A.M. 11-18-81

~~22. The previous disposition was based on code compliance per building~~

(see p. 3 of 4)



Block 22 revised:

Field Engineering does not agree that PQR #696 is necessarily illustrative of this weld's acceptability since the GTAW process was used on the test sample prior to application of the SMAW.

Field Engineering feels that evaluation of this condition should focus on two considerations: the metallurgical notch and the mechanical notch.

In this carbon range (less than .26%) the metallurgical notch should not be significantly greater than it would be if the weld were preheated. Since the weld was not quenched, but allowed to cool at ambient temperature, the excessive hardness which would result from a martensitic structure (at higher carbon levels) did not occur at this weld.

The mechanical notch created by the weld should be insignificant since the parts being joined were not in restraint when welding took place. Additionally, since a severe notch would most likely be manifested as a weld defect, Field Engineering recommends that a magnetic particle ~~OR~~ liquid penetrant examination be performed on the weld.

Pending satisfactory examination results and Project Engineering concurrence, Field Engineering recommends "use as is".

Block 23 REVISED:

23. The previous M & QS disposition (ref: letter file No. JRN-III-02) was based on code compliance per welding procedure qualification under the rules of ASME III, subsection of NF & ASME IX. Though not directly stated, the disposition was also based on metallurgical considerations. The additional rationale given by the field is correct. However, it is unlikely that the additional HT or PT examinations will be of significance.

Civil concurs with M & QS recommendation that the welds be examined per the original fabrication NDE requirements. HT or PT could be used to supplement visual inspection should questionable indications arise. ~~SWA/PT/HT~~

Pending satisfactory examination results, Civil recommends to "use as is".

RWS-C-10670

REL 1/5/82

SEP 1/5/82

55
M. 01-08-82



NONCONFORMANCE REPORT (CONT'D)

20. PAGE 4 OF 4 12-16-81 19. NCR NO. 3590

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	



NONCONFORMANCE REPORT

5-15-82

1. PROJECT NAME MILITARY			JOB NO.			19. NO. 3553	20. PAGE 2 OF 2
2. UNIT(S) 142	3. DRAWING/PART NO.		REV	4. ITEM DESCRIPTION REPLACEMENT SEWAGE PUMP/PLUMBING		5. ITEM LOCATION CAMP 51 #1	
6. P.O. OR SPEC NO. 398-AC	7. SERIAL NO. 111	8. REPLACEMENT PART P/N REV		SER NO. 111	9. SOURCE SUPPLIER	10. CONTRACTOR/SUPPLIER TUFLO OIL / ACCORDA CORP.	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. 111 NO. 398-AC		12. ASME AUTHORIZED INSPECTION REQ'D (X) YES () NO		13. SKETCH ATTACHED () YES (X) NO	
14. Discovered During (X) Rec'y () Const () Test						15. Equip Furnished By () Client (X) Eng () FLD	
16. NONCONFORMING CONDITION: 1) 2 motors in this area are identified as PROJECT SUPPLY EQUIPMENT TO BE INDETERMINATE IN RECORDS WITH SATISFACTORY COMPLETION OF THE QUALIFICATION TEST REQUIREMENTS FOR SPEC. M-378. (SEE SDDR-2102) 2) APPL. ITEMS WERE WORKING IN THE WORKING REGION OF THE EQUIPMENT (SEE SDDR 2102) & NUMBER IS INDETERMINATE. HAND FOR ENGINEERING DISPOSITION. HAND 1895 APPLIED TO THE EQUIPMENT FORM. ITEMS.						24. DISPOSITION CONCURRENCE rework reject repair use as is PROJECT FIELD ENGINEER DATE PROJECT ENGINEER DATE PROJECT CONST. ENGINEER DATE AUTHORIZED INSPECTOR DATE	
17. REPORTED BY J. J. Smith		DATE 7/6/81		18. VALIDATED BY C. L. Smith		DATE 7/2/81	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)							
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering Procurement supervisor to obtain proper documentation. Rush Mail 7/17/81							
23. PROJECT ENGINEERING DISPOSITION documentation APPROVED BY RIN RRBW. 10/15/81 11/27/81 24. QC ACCEPTANCE QC ENGINEER DATE AUTHORIZED INSPECTOR DATE							

Supplier Deviation Disposition Request

NOTE

1 COMPLETE INSTRUCTIONS ON BACK OF THIS SHEET

2 Items 1-18 below to be completed by supplier

3 Items Bechtel entries only

4 Attach additional information whenever necessary

5 Bechtel must be notified within 5 days after detection of deviation

6 A copy of the completed SDDR form shall be included by the supplier in the quality verification data package for each item to which this SDDR applies

033130

FOR SUPPLIER USE		PROJECT		Consumers Power/Midland		FOR BECHTEL USE	
Supplier SDDR No.	Date Submitted	JOB NO.		Bechtel SDDR No.	Date Received		
072	6-2-81	7220		2102	6-4-81		
1 Supplier Name <u>Tufline Div./Xomox</u> Address <u>4444 Cooper Rd.</u> City & State <u>Cincinnati, OH</u> Zip <u>45242</u>							
2 Supplier's Order No. <u>E77809</u>	3 Supplier's Part No. <u>89970N</u> <u>89971N</u> <u>89972N</u>	4 Supplier's Part Name <u>HPRV</u>	5 Deviation Detected <u>6-1-81</u> Inspection Date Method	6 All Previous SDDR (No. & Date) <u>055, 9-30-81</u> <u>058, 11-7-80</u>			
7 Bechtel P.O. & Rev. No. <u>7220-M-398-AC</u> Rev. 1	8 Bechtel Part No. Items <u>1.1, 1.2,</u> <u>2.1, 2.2, 3.1, 3.2,</u> <u>3.3</u>	9 Bechtel Part Name <u>HPBV</u>	10 Bechtel SQR Notified <u>6-1-81</u> Inspection Date Method	11 Bechtel Engrg Notified <u>6/1/81</u> Telex Date Method			
12 Deviation Description: Attach extra sheets, photographs, sketches, etc. as necessary and identify quantity and serial No. s as applicable. The code data reports (NPV-1 forms) show the following drawing revisions: NP4593C Rev. E, NP4594C Rev. E, NP4595C Rev. F. These forms were filled out and signed by the ANI prior to May 6, 1981, when we still had our "N" stamp. The above drawings have since been revised and approved showing as-built dimensions. The revisions are now Rev. F, Rev. F, and Rev. G, respectively.							
13 Suppliers Proposed Disposition <input checked="" type="checkbox"/> Use As-Is <input type="checkbox"/> Repair <input type="checkbox"/> Modify Bechtel Requirement							
14 Cost Impact <u>None</u>				15 Schedule Impact <u>None</u>			
16 Proposed Disposition and Technical (plus Cost/Schedule if applicable) Justification: Attach extra sheets, sketches, etc. as necessary. We cannot change the NPV-1 forms and get them signed by the ANI until after our "N" stamp is renewed. Will Bechtel accept shipment now with the current NPV-1 forms and accept revised forms after our "N" stamp renewal?							
17 Associated Supplier Document Change(s): <u>None</u>							
18 Suppliers Authorized Representative Name <u>David J. Bieterman</u> Title <u>Q.C. Manager</u> Signature <u>David J. Bieterman</u> Date <u>6-2-81</u>							
19 Bechtel Engrg Action <input checked="" type="checkbox"/> Accepted <input type="checkbox"/> Rejected		Engrg Follow-up <input type="checkbox"/> Dwg Change (<input type="checkbox"/> Bechtel <input type="checkbox"/> Supplier) <input type="checkbox"/> Spec/Req Change (<input type="checkbox"/> Bechtel <input type="checkbox"/> Supplier) <input type="checkbox"/> Other Suppliers Affected		<input type="checkbox"/> Licensing Doc. Change <input type="checkbox"/> Price Adjustment <input checked="" type="checkbox"/> Other <u>Tufline to submit</u>			
20 Bechtel Disposition Statement (including Justification (Attach extra sheets, sketches, etc. as necessary)) <u>Revised NPV-1 forms</u> <u>ON N-stamp renewal</u> All valves on this order are required to support the construction. Accepting shipment now with the current NPV-1 forms do not compromise in any way with quality or otherwise. Tufline will tag these valves individually in this non-conformance prior to shipment. Construction is also requested to tag these valves by NCR.							
21 Bechtel Acceptance Signature <u>Siggy Shah</u> Date <u>6/1/81</u> 22 Supplier 23 Bechtel Supplier Quality Representative							

SUPPLIER COMPLETED

BECHTEL

Supplier Deviation Disposition Request

NOTE:

1. COMPLETE INSTRUCTIONS ON BACK OF THIS SHEET
2. Items 1-18 below to be completed by supplier
3. * Items, Bechtel entries only
4. Attach additional information whenever necessary

5. Bechtel must be notified within 5 days after detection of deviation
6. A copy of the completed SDDR form shall be included by the supplier in the quality verification data package for each item to which this SDDR applies

FOR SUPPLIER USE		PROJECT <u>Midland Plant Units 1 & 2</u>		FOR BECTHEL USE	
Supplier SDDR No. <u>067</u>	Date Submitted <u>5/7/81</u>	JOB NO. <u>7220</u>		Bechtel SDDR No. <u>2080</u>	Date Received <u>5-11-81</u>
1. Supplier Name <u>Tufline Div./Xomox</u>		Address <u>4444 Cooper Rd.</u>		City & State <u>Cinti., OH</u>	
2. Supplier's Order No. <u>E77809</u>		3. Supplier's Part No. <u>89970N</u> <u>89971N</u> <u>89972N</u>		4. Supplier's Part Name <u>HPBV</u>	
7. Bechtel P.O. & Rev. No. <u>7220-M-398 Rev. 1</u>		8. Bechtel Part No. Items <u>1.1, 1.2,</u> <u>2.1, 2.2, 3.1, 3.2, 3.3</u>		5. Deviation Detected <u>5/7/81</u> Date Method	
		9. Bechtel Part Name <u>HPBV</u>		6. All Previous SDDR (No. & Date) <u>Bechtel #1897</u> <u>10/17/80</u>	
				10. Bechtel SQR Notified <u>5/7/81</u> This SDDR Date Method	
				11. Bechtel Engrg Notified <u>5/7/81</u> Telecon Date Method	
12. Deviation Description (Attach extra sheets, photographs, sketches, etc. as necessary and identify quantity and serial No.'s as applicable)					
<u>G321-D form in conjunction with the appropriate sections of the Material</u>					
<u>Requisition, 7220-M-398, Rev. 2, requires: 1. the environmental test reports for</u>					
<u>limitorques, 2. the seismic and operability test reports for EMO valves, 3. the</u>					
<u>thermal and radiation test data for seals and seats; be submitted prior to shipment</u>					
<u>for approval. These documents will not be complete prior to shipment.</u>					
13. Suppliers Proposed Disposition <input type="checkbox"/> Use-As-Is <input type="checkbox"/> Repair <input checked="" type="checkbox"/> Modify Bechtel Requirement					
14. Cost Impact <u>None</u> 15. Schedule Impact <u>None</u>					
16. Proposed Disposition and Technical (plus Cost/Schedule if applicable) Justification. Attach extra sheets, sketches, etc. as necessary					
<u>Tufline requests permission to ship valves without prior approval of above listed</u>					
<u>documentation.</u>					
17. Associated Supplier Document Change(s):					
<u>- NONE</u>					
18. Suppliers Authorized Representative					
Name <u>Dave J. Bieterman</u>		Title <u>Quality Control Manager</u>			
Signature <u>Dave J. Bieterman</u>		Date <u>5/7/81</u>			
* 19. Bechtel Engrg. Action					
<input checked="" type="checkbox"/> Accepted		Engrg. <input type="checkbox"/> Dwg Change (<input type="checkbox"/> Bechtel <input type="checkbox"/> Supplier)		<input type="checkbox"/> Licensing Doc. Change	
<input type="checkbox"/> Rejected		Follow-up <input type="checkbox"/> Spec/Req. Change (<input type="checkbox"/> Bechtel <input type="checkbox"/> Supplier)		<input type="checkbox"/> Price Adjustment	
		<input type="checkbox"/> Other Suppliers Affected		<input checked="" type="checkbox"/> Other Being one time deviation	
* 20. Bechtel Disposition Statement including Justification (Attach extra sheets, sketches, etc. as necessary)					
<u>All valves on this order (quantity 11) are required immediately</u>					
<u>for the hydrostatic testing of the systems. By allowing</u>					
<u>vendors to ship these valves prior report submittal will not</u>					
<u>compromise in any way with quality or otherwise. Tufline</u>					
<u>will tag these valves ^{individually} prior to shipment for this nonconformance. Construction</u>					
<u>is now required to tag these valves by NCR.</u>					
Construction Action Required <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO					
* 21. Bechtel Acceptance/Signature		Date		Date	
<u>GS [Signature]</u>		<u>5/13/81</u>			
<u>PE [Signature]</u>		<u>5/13/81</u>			
<u>QA [Signature]</u>		<u>5/13/81</u>			
22. Supplier		23. Bechtel Supplier			
		Quality Representative			



NONCONFORMING MATERIAL INSTALLATION CONDITIONAL RELEASE

See 1/5/82 5

1. Project No. 1450 2. Date 8-15-81 3. Page 4 of 4
4. Initiated By William S. Jensen
5. This is to approve the conditional installation or further work of the nonconforming material as shown on NCR 3553. If there are further restrictions on the conditional release they shall be noted in remarks below.
6. Location Area 2 7. ASME Authorized Inspection Required. Yes ☒ No ☐
8. "Q" No. indeterminate
9. Item Description Division 6 piping, 2" x 1/2" x 1/2" x 1/2"

10. Remarks:

A conditional release is granted to install and hydro-test subject valves.

Connections or removal can be accomplished without causing damage or contamination to associated plant equipment or structure. See Mech 8108.

11. PFE J. H. [Signature] Date 8/16/81
12. PFQCE [Signature] Date 8/16/81
13. PQAE (ASME) [Signature] Date 8/16/81
14. Auth Insp (ASME) [Signature] Date 8-16-81
15. MPQAD [Signature] Date 8-16-81

16. Responsible QCE has identified Hold Tag "Conditional Release" and the limitation of the conditional release.

QCE [Signature] Date 8-16-81



NONCONFORMING MATERIAL INSTALLATION CONDITIONAL RELEASE

1. Project No. 7220 2. Date 1-15-82 3. Page 5 of 5
4. Initiated By Angus Bradshaw
5. This is to approve the conditional installation or further work of the nonconforming material as shown on NCR 3553
If there are further restrictions on the conditional release they shall be noted in remarks below.
6. Location ISS # 7. ASME Authorized Inspection
Required. Yes ☒ No ☐
8. "Q" No. Indeterminate
9. Item Description nuclear service butterfly valves
10. Remarks:

Conditional release is granted to put in valve and
term date.

Corrections or removal can be accomplished without
causing damage or contamination to associated
plant equipment or structure.

W. J. S. [Signature] 1-15-82

11. PFE FTL [Signature] Date 15 JAN 82
12. PFQCE [Signature] Date 1-15-82
13. PQAE (ASME) [Signature] Date 1-15-82
14. Auth Insp (ASME) [Signature] Date 1-15-82
15. MPQAD [Signature] Date 1/15/82

16. Responsible GCE has identified Hold Tag "Conditional Release" and the limitation of the conditional release.

GCE [Signature] Date 1/15/82



DISCUSSED WITH: JERRY BLACK
John Low

S/U: ZBGA

NONCONFORMANCE REPORT

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3463	20. 1 OF 2
2. UNIT(S) 2	3. DRAWING/PART NO. M-604 SH3	REV 7/82	4. ITEM DESCRIPTION 2CCB-63 ATTACHMENT 2/1/85 48" DIA 5'	5. ITEM LOCATION CONF 2	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE CONST.	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA () DWG () SPEC <input checked="" type="checkbox"/> OTHER		IR NO. NO PSP-6.1	12. ASME AUTHORIZED INSPECTION REQ'D <input checked="" type="checkbox"/> YES () NO	13. SKETCH ATTACHED () YES <input checked="" type="checkbox"/> NO	14. Discovered During () Rec'g <input checked="" type="checkbox"/> Const () Test
15. Equip Furnished By () Client () Eng () FLD			16. NONCONFORMING CONDITION: REQ: PSP SECTION 6.1 REV 5 ARTICLE 3.3.3.2.5 STATES: INSPECT (I), TEST (T), WITNESS (W), AND REVIEW (R), ARE MANATORY INSPECTION POINTS BEYOND WHICH WORK SHALL NOT PROCEED PAST THE POINT WHERE THE DESIGNATED ACTIVITY IS NO LONGER INSPECTABLE WITHOUT THE CONSENT OF THE RESPONSIBLE CQCE.		
17. REPORTED BY G. J. P. L.			DATE 5/21/81		
18. VALIDATED BY G. J. P. L.			DATE 5/21/81		
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. <input checked="" type="checkbox"/> Field Engineering Disposition Field Engineering Recommended Disposition to Project Engineering					
Field Engineering recommends "use as is". It is not an ASME section III requirement that each tack weld be examined and this examination be documented. Lugs attached to the pipe have a light chamfer marking making these weld configurations as partial penetration with a fillet weld finish. These lugs were welded by a qualified welder, using					
23. PROJECT ENGINEERING DISPOSITION ASME SECTION III DIVISION 1 INTERPRETATION III -80-19 OF MARCH 19, 1980 SAYS IN REFERENCE TO THIS TYPE OF WELD: "SUCH EXAMINATIONS AND THE DEGREE OF DOCUMENTED REPORTING OF THE EXAMINATION SHOULD BE DESCRIBED IN THE IN PROCESS MANUFACTURING PROCEDURES."					
THEREFORE, THERE HAS BEEN NO VIOLATION OF CODE NOR THE G-27 SPECIFICATION. THE ONLY VIOLATION IS AGAINST THE PSP. BECAUSE THE PSP IS PLANNED TO BE REVISED TO INCORPORATE THIS.					
24. DISPOSITION CONCURRENCE					
rework reject repair use as is					
6/12/81					
PROJECT FIELD ENGINEER					
PROJECT ENGINEER					
PROJ CONSTR QC ENGINEER					
AUTHORIZED INSPECTOR					
25. DISPOSITION RESULTS					
ON PN 1.00 M604.3					
2CCB-63 48C1 - 152123					
49C1 - 152124					
50C1 - 152125					
52C1 - 152127					
53C1 - 152128					
51C1 - 152186					
2CCB-70-40C1 - 150533					
41C1 - 150534					
42C1 - 150535					
43C1 - 150536					
44C1 - 150537					
45C1 - 150538					
26. QC ACCEPTANCE Michael A. H. H. 2-16-82					
QC ENGINEER					
11/11/81 2-16-82					
AUTHORIZED INSPECTOR					
DATE					

Req Disposition 4/1/81 p.1

See Page 3 for Concurrence

See pg 4 for Concurrence



NONCONFORMANCE REPORT (CONT'D)

20 PAGE 2 OF 2

19 NCR NO

3463

CONDITION: CONTRARY TO THE ABOVE REQUIREMENT, ACTIVITY 2.3, FIT-UP, ON THE PW-100 REV 1 WAS BYPASSED DURING CONSTRUCTION. ACTIVITY 2.3 IS AN INSPECTION POINT AND WAS BYPASSED WITHOUT THE CONSENT ON THE RESPONSIBLE CQCE.

"Q" List Number: 4.045
S/U Number: 2BGA

2 HOLD TAGS APPLIED.

Blk. 22 cont.)

an approved welding procedure. A visual examination and NOE if required shall be performed and properly documented.

John H. Sorensen 6-2-81

CMA 7/22/81

(BLOCK 23 CONTINUED) (ACTIVITY 2.3 ON PW-100, REV. 1; THEREFORE)

CAA
7/22/81

~~INTERPRETATION OF THE CODE~~ WE RECOMMEND TO "USE AS IS." THIS IS IN CONCURRENCE WITH THE FIELD DISPOSITION

m7k

Sam M. T. [Signature] R.E. 6-8-81

7/22/81 REVISED TO CORRECT VIOLATION! APPLICABLE TO PW-100 NOT THE PSP.

CPA [Signature] 7/22/81 RE 7-24-81
M.R.E.

7/22/81

Blk 22 [Signature] Based on interpretation III 20 189, the by passed inspection point is required by ASME section III. The object welds shall be cut and examined.

John H. Sorensen 10/20/81



NONCONFORMANCE REPORT (CONT'D)

20, PAGE 3 OF 24, 11/24/81, 19, NCR NO. 3463

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
			X
PROJECT FIELD ENGINEER		DATE 1/29/81	
PROJECT ENGINEER		DATE 2/5/81	
PROJECT CONSTR QC ENGINEER		DATE 7/30/81	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE 1/20/82	
PROJECT ENGINEER		DATE 1/26/82	
PROJECT CONSTR QC ENGINEER		DATE 1/26/82	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPE		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	



Block 25 Cont'd.

2008-70 - 4601 - 150539
↓
4701 - 150540

Documents the inspections of the items
that have been cut and Re-worked by
System and Log number.

Michael L. [Signature]
2-16-82



PERSONNEL CONTACTED

JOHN ARMANDO 5/15/81 NONCONFORMANCE REPORT S/N-19NC, 2GNC

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3450		20. PAGE 1 OF 30	
2. DWG(S) 1 E2		3. DRAWING/PART NO. 7220-M-163-59		4. ITEM DESCRIPTION MOTOR TERMINAL BOXES		5. ITEM LOCATION E200 685	
6. P.O. OR SPEC NO. N/A		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N: N/A		9. SOURCE CONSTRUCTION	
11. INSPECTION CRITERIA X DWG () SPEC () OTHER		IR NO. N/A		12. ASME AUTHORIZED INSPECTION REQ'D () YES X NO		13. SKETCH ATTACHED () YES X NO	
16. NONCONFORMING CONDITION IDENTIFIES CHANGES REQUIRED TO INSTALL REVISED MOTOR TERMINAL BOXES FOR 102 VV-57A, B, C, D FANS, INCLUDING PAINTING THE BACK HALF OF THE BOX GRAY TO MATCH THE WHOLE BOX AFTER WELDING.		REQUIREMENT: APPROVED FOR E-2143		14. Discovered During () Rec'g X Const () Test		15. Equip. Furnished By () Client () Eng X FLD	
17. REPORTED BY J. Miller		DATE 5-15-81		18. VALIDATED BY M. J. Dumas		DATE 5/18/81	
21. ROUTING: X TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. () Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering		23. PROJECT ENGINEERING DISPOSITION		24. DISPOSITION CONCURRENCE	
Field Engineering recommends since the carbon zinc paint used is listed for reactor building and matching gray paint was not available, use as is. (1A)		Blallin 26 May 81		AUTHORIZED INSPECTOR		DATE	
PROJECT ENGINEERING DISPOSITION IS "REWORK". TERMINAL BOXES ARE TO BE COATED IN ACCORDANCE WITH SPECIFICATION 7220-3-3 WHICH REQUIRES 1 PAINTING COAT OF CARBON-ZINC (2 TO 4 MIL DFT) AND 1 FINISH COAT OF PHENOLIC 3-5 (3-4 MIL DFT).		AUTHORIZED INSPECTOR		DATE		DATE	

SECRET

ANCE REPORT (CONT'D)

14 NCM NO 3450

1 PAGE 2 OF 2

(BLOCK 16 CONTINUED)

REQUIREMENT, THE BACK HALF OF THE MOTOR
TERMINAL BOXES HAVE BEEN PAINTED CARBO-ZINC
GREEN, AND INSTALLED ON THE FAN MOTORS.

HOW FOR ENGINEERING DISPOSITION

8 QC HOLD TAGS APPLIED

Q LIST # 4.535, 4.625

(BLOCK 23 CONTINUED)

CARBO ZINC II IS ACCEPTABLE FOR USE IN CONTAINMENT WITHOUT A TOPCOAT ON
THE BACK OF THE INSTALLED MOTOR TERMINAL BOXES.
PROJECT ENGINEERING DISPOSITION IS TO USE AS IS.

THIS IS A ONE TIME ONLY DEVIATION TO SPEC G-3, AND IS DOCUMENTED ON DRVC
AND DBA TEST DATED MARCH AND APRIL 1979.

M. Q. Hughes 1-15-82 EPH

1-15-82 1-15-82

100000-2

White Copy - Originator
Canary Copy - Field Engineer
Pink Copy - PQAE
Goldenrod Co, y - QC

QC-633



NONCONFORMANCE REPORT (CONT'D)

20. PAGE 3 OF 3

19. NCR NO 3450

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
			X
PROJECT FIELD ENGINEER		DATE 2 FEB 87	
PROJECT ENGINEER		DATE 1-18-82	
PROJECT CONSTR QC ENGINEER		DATE 2/3/82	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

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REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

MIDLAND PROJECT
DESIGN REQUIREMENTS VERIFICATION CHECKLIST

Q
Non-Q ✓

Document Type SPECIFICATION
Document Title GEN. PAINTING REQ'S FOR MECH. No. G-3
Job 7220 Preparation Date 1-15-82 # ELL EQUIP. Rev. 7

DCN/SCN/IDCN No.
FCR/PCN/NCR/SDDR No. 3450
(For one time deviation only)

Item	Design Requirements Document (Identify Applicable Section(s))	Requirements Reviewed		Conflict (*Yes/No)	Action Req'd* (Yes/No)	Action Completed** Initial/ Date
		(Eng.'s Initials)	Checker's Initials			
1.	PSAR/FSAR <u>NA</u>	<u>MH</u>	<u>KD</u>			
2.	Environmental Report <u>NA</u>	<u>MH</u>	<u>KD</u>			
3.	OSHA Regulations <u>NA</u>	<u>MH</u>	<u>KD</u>			
4.	NRC Regulatory Guides (including BESSAR) <u>NA</u>	<u>MH</u>	<u>KD</u>			
5.	Correspondence (Letters, TWX, Memos) <u>NA</u>	<u>MH</u>	<u>KD</u>			
6.	Bechtel Discipline Standards <u>NA</u>	<u>MH</u>	<u>KD</u>			
7.	Bechtel Topical Reports <u>NA</u>	<u>MH</u>	<u>KD</u>			
8.	Others <u>PROTECTIVE COATINGS</u> <u>REQUALIFICATION TEST PROGRAM</u> <u>DBA TEST FOR CARBOZINC II PLOT II DTD 3EA 1979</u>	<u>MH</u>	<u>KD</u>	<u>NO</u>	<u>NO</u>	

All of the above applicable requirements have been checked and any action required has been initiated to ensure documentation compliance.

Group Supervisor M. A. Hughes Date 1-15-82

Remarks (provide additional sheets if necessary):

Conflict:

Action Required/Taken:

*If conflict is marked "Yes," explain the conflict under "Remarks," including the action required to resolve the conflict or why an action is not required.
If conflict is marked "No," but action required is "Yes," explain action required.
**Reference under "Remarks" all documentation generated to complete the action.



PERSONS CONTACTED
J. ROBERTS
R. MILLER, J. ARMANDO

Corrected Copy

Non-TESTABLE UNIT. 6/6/81

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3446		20. PAGE 1 OF 2	
2. UNIT(S) 2	3. DRAWING/PART NO. SEE BLOCK 16	REV 16	4. ITEM DESCRIPTION DAMAGED TRAY SECTIONS				
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A	SER NO. N/A	9. SOURCE CONSTRUCTION	10. CONTRACTOR/SUPPLIER N/A	5. ITEM LOCATION CONT 2 626'-690' AZ 102	
11. INSPECTION CRITERIA DWG () SPEC () OTHER ()		IR NO. SEE BLOCK 16	12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO	13. SKETCH ATTACHED () YES () NO	14. Discovers During () Rec'g () Const () Test	15. Equip Furnished By () Client () Eng () FLD	
16. NONCONFORMING CONDITION: REQUIREMENT: DRAWING 7220-442 A							
REV. 49 SH 6, NOTE 1 STATES "ALL FINISHED (TRAY) PARTS AND SURFACES SHALL BE CLEAN AND FREE OF BURRS, ICICLES AND OTHER SHARP PROJECTIONS WHICH CAN CAUSE CABLE DAMAGE. ALL TRAY COMPONENTS WHICH DO NOT COMPLY WITH THIS REQUIREMENT SHOULD BE REJECTED"							
17. REPORTED BY Jim Mella		DATE 5-13-81	18. VALIDATED BY A. Z. Russell DATE 6/10/81				
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING () TO OTHERS (SPECIFY)							
22. <input checked="" type="checkbox"/> Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering							
Field Engineering recommends to replace the damaged portion of cable trays as outlined on page 2 of block 16. (U.A.)							
BTGdlia 26 may 81 F. Collins 10/20/81							
23. PROJECT ENGINEERING DISPOSITION							
REPLACED, DOCUMENTED ON DOCIR LOG NUMBERS 22222348 AND 10565, QWMLK 62281							
24. DISPOSITION CONCURRENCE							
rework		reject		repair		use as is	
PROJECT ENGINEER A. Z. Russell DATE 6/3/81		PROJECT FIELD ENGINEER A. Z. Russell DATE 6/3/81		AUTHORIZED INSPECTOR A. Z. Russell DATE 6/3/81		AUTHORIZED INSPECTOR A. Z. Russell DATE 6/3/81	
25. DISPOSITION RESULTS							
All damaged portions of trays 288B17, 288B18 & 288B19 removed and replaced per Engineering disposition. Held tags removed A. Z. Russell 6/10/81							
SECTIONS OF 288A17 & 288A18							
REPLACED, DOCUMENTED ON							
DOCIR LOG NUMBERS 22222348							
AND 10565, QWMLK 62281							
26. REPLACED BY 2.18 82							
QC ENGINEER A. Z. Russell DATE 6/3/81							
AUTHORIZED INSPECTOR A. Z. Russell DATE 6/3/81							



Corrected Copy

NONCONFORMANCE REPORT

20 PAGE 2 OF 2
20 of 3 24.1.81
19 NCR NO 3446

Block 16 CONTINUED

CONTRARY TO THE ABOVE, THE FOLLOWING CONDITIONS EXIST:

TRAY / IR	DWG / REV	DAMAGE
ZBLB17	E651SH1 - 19	MISSING RUNGS
ZBVA17	E651SH1 - 19	DAMAGED RUNGS
ZBLB18	E652SH1 15	DAMAGED RUNGS AND DISCONNECTED SPOT WELDS
ZBVA18	E652SH1 15	MISSING RUNGS, LARGE ARC BURNS, AND DISCONNECTED SPOT WELDS
ZBLB19	E653SH1 - 17	DAMAGED RUNGS
ZBVA20	E654SH1 12	DAMAGED RUNGS

HOLD FOR ENGINEERING DISPOSITION

1/6 2281

1/6 QC HOLD TAGS APPLIED

Q# 3.005.

Block 22 continued.) 2BVA20 has no damaged rungs. One rung that was slightly bent has been straightened. There is no nonconformance for this item. (D.M.H.)

2/8/82

Block 25 CONTINUED. BENT RUNGS ON 2BVA20 HAVE BEEN STRAIGHTENED AND COATED. JOURNAL 2-18-82.



NONCONFORMANCE REPORT (CONT'D)

20. PAGE 3 OF 3

19. NCR NO. 3446

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
X			
Matthew Shum		6/10/81	
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
J. B. [Signature]		2/13/82	
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

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PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

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PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
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PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
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PROJECT ENGINEER		DATE	
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AUTHORIZED INSPECTOR		DATE	

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PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

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PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	



Welding

MK Boone

NONCONFORMANCE REPORT

Corrected Copy

Start-up Page 2

1. PROJECT NAME Midland Units 1&2		JOB NO.		19. NO. 3355	20. PAGE 1 OF 2
2. UNIT(S) 1 & 2	3. DRAWING/PART NO. See Block 16	REV	4. ITEM DESCRIPTION "O-let" Fittings (See block 16, Page 2)	5. ITEM LOCATION See Block 16	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N/D/A REV D/A SER NO. n/a	9. SOURCE ENGRS.	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA <input checked="" type="checkbox"/> DWG <input type="checkbox"/> SPEC <input type="checkbox"/> OTHER		IR NO. NO. M-488	12. NAME AUTHORIZED INSPECTION REQ'D <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	13. SKETCH ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	14. Discovered During <input type="checkbox"/> Rec'g <input checked="" type="checkbox"/> Const <input type="checkbox"/> Test
15. Equip Furnished By <input type="checkbox"/> Client <input checked="" type="checkbox"/> Eng <input type="checkbox"/> FLD					
16. NONCONFORMING CONDITION: Based on a re-inspection of field installed "O-let" fittings, the "O-let" listed on page 2 were found not to meet the requirements of drawing 7220-M-488 Revision 7. The welds were under the the required size as shown in M-488. Hold for engineering disposition. 4 "Hold" tags applied.			24. DISPOSITION CONCURRENCE rework <input checked="" type="checkbox"/> reject <input type="checkbox"/> repair <input type="checkbox"/> use as is <input type="checkbox"/> PROJECT FIELD ENGINEER <i>[Signature]</i> 4/3/81 DATE PROJECT ENGINEER <i>[Signature]</i> 4/3/81 DATE PROJ CONSTR QC ENGINEER <i>[Signature]</i> 4-3-81 DATE AUTHORIZED INSPECTOR <i>[Signature]</i> 4-3-81 DATE		
17. REPORTED BY <i>[Signature]</i>		DATE 3/22/81		18. VALIDATED BY <i>[Signature]</i> DATE 4/3/81 3-26-81	
21. ROUTING: <input type="checkbox"/> TO FIELD ENGINEERING <input type="checkbox"/> TO OTHERS (SPECIFY)					
22. <input checked="" type="checkbox"/> Field Engineering Disposition <input type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering Rework the listed O-lets from page 2 of this NCR to meet the requirements of dwg. M-488 Rev. 7. The original Bechtel welding procedure is to be used. QCIR PW1.00 to be initiated for documentation of this rework. <i>[Signature]</i> 4-3-81					
23. PROJECT ENGINEERING DISPOSITION M-614-8 WELD # 118 R1 WAS DONE. INSPECTIONS ON QCIR PW 1.00 LOG # 99928 <i>[Signature]</i> 4-3-81 M-613-2 WELD NUMBER 73 HAS BEEN REPAIRED TO MEET THE REQUIREMENTS OF DRAWING M-488 SEE PW 100 QCIR Log # 99927 WELD 73 R1 <i>[Signature]</i> 2-13-82					
26. QC ACCEPTANCE <i>[Signature]</i> 2-13-82 QC ENGINEER <i>[Signature]</i> 2-13-82 AUTHORIZED INSPECTOR DATE					

SW
7-24-81



Drawing	Weld No.	Location	Start-Up	System	Q-list
M-610-5	53	Aux. 578'	1BCA	10CB-33	4.104
M-611-6	139	Aux. 576'	2BCA	2PEB-35	4.114
M-613-2	73	Cont. 2 659'	2BKA	2GCB-20	4.134
M-614-8	118	Aux. 604'	OECC	2HCC-157	4.134

SU#
IAPBCONTRACT
P MEHRA

NONCONFORMANCE REPORT

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3353	20. PAGE 1 OF 2																																								
2. UNIT(S) 1#2	3. DRAWING/PART NO. N/A	REV	4. ITEM DESCRIPTION CONTROL PANELS OC20, 1C11, 1C13	5. ITEM LOCATION EL. 614 AUX. BLDG. CONTROL ROOM																																									
6. P.O. OR SPEC NO. J201(Q) REV 8	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE VENDOR	10. CONTRACTOR/SUPPLIER MAGNETICS																																									
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. PAGE 2 NO. G3	12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec'g (X) Const () Test																																								
15. Equip. Furnished By () Client (X) Eng () FLD			15. Equip. Furnished By () Client (X) Eng () FLD																																										
16. NONCONFORMING CONDITION: REQUIREMENTS: J201 (Q) SECTION 10.2, "THE CONTROL BOARDS SHALL RECEIVE ENAMEL FINISH, SYSTEM D AS SPECIFIED IN SECTION 6.4 OF SPECIFICATION 7220- G-3. THE SURFACE PREPARATION AND COATING SHALL BE IN ACCORDANCE WITH COATING MANUFACTURER'S RECOM- ENDATIONS. TOTAL DRY FILM THICKNESS, HOWEVER, MAY RANGE FROM 2.5 TO 8.0 MILS. CONTINUED PAGE 2			24. DISPOSITION CONCURRENCE <table border="1"><tr><td>rework</td><td>reject</td><td>repair</td><td>use as is</td></tr><tr><td></td><td></td><td>510</td><td></td></tr><tr><td colspan="3">J. B. [Signature]</td><td>4/16/81</td></tr><tr><td colspan="3">PROJECT FIELD ENGINEER</td><td>DATE</td></tr><tr><td colspan="3">E. [Signature]</td><td>4/16/81</td></tr><tr><td colspan="3">PROJECT ENGINEER</td><td>DATE</td></tr><tr><td colspan="3">E. [Signature]</td><td>4/16/81</td></tr><tr><td colspan="3">PROJ CONSTR QC ENGINEER</td><td>DATE</td></tr><tr><td colspan="3">[Signature]</td><td>4/16/81</td></tr><tr><td colspan="3">AUTHORIZED INSPECTOR</td><td>DATE</td></tr></table>			rework	reject	repair	use as is			510		J. B. [Signature]			4/16/81	PROJECT FIELD ENGINEER			DATE	E. [Signature]			4/16/81	PROJECT ENGINEER			DATE	E. [Signature]			4/16/81	PROJ CONSTR QC ENGINEER			DATE	[Signature]			4/16/81	AUTHORIZED INSPECTOR			DATE
rework	reject	repair	use as is																																										
		510																																											
J. B. [Signature]			4/16/81																																										
PROJECT FIELD ENGINEER			DATE																																										
E. [Signature]			4/16/81																																										
PROJECT ENGINEER			DATE																																										
E. [Signature]			4/16/81																																										
PROJ CONSTR QC ENGINEER			DATE																																										
[Signature]			4/16/81																																										
AUTHORIZED INSPECTOR			DATE																																										
17. REPORTED BY C. [Signature]		DATE 3/14/81	18. VALIDATED BY [Signature]																																										
DATE 3/14/81		DATE 3/25/81																																											
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)																																													
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering Field Engineering will correct discrepancy in accordance with Spec. 7220-G-3* sec. 6.4 prior to turnover to Consumers Power Company. [Signature] 13 APRIL 81 * 7220-A41Q [Signature] 15 APRIL 81																																													
23. PROJECT ENGINEERING DISPOSITION																																													
26. QC ACCEPTANCE [Signature] 2-18-82 QC ENGINEER DATE AUTHORIZED INSPECTOR DATE																																													



BLOCK 16 CONTINUED

CONDITIONS: LOCATIONS IN PANELS, AS DEFINED BELOW, HAVE NO COATING AND BARE METAL IS EXPOSED. PEELING PAINT.

CC20 - AREA AROUND CONTROL SWITCH - CS/0AV005,
OTHER PEELING ON INTERIOR ON ANGLES AT SHIPPING SPILT
BETWEEN 1C11/1C13

0C20 QC1R - E6.0-346

1C11 QC1R - E6.0-79

1C13 QC1R - E6.0-80

Q415T 5.031

NO HOLD TAGS APPLIED

HOLD FOR ENGINEERING DISPOSITION

THIS COPY REPLACES LOST ORIGINAL



Discussed with *Reviewed with J. Allen & J. K. Martin*
L. Morris 1/29/81 2-5-81 1245 *Mid District*

1/30/81

NONCONFORMANCE REPORT

5/0 NON-TESTABLE

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3284	20. PAGE 1 OF 2								
2. UNIT(S) 1#2	3. DRAWING/PART NO. C-338 / C-334	3. REV. 15/B	4. ITEM DESCRIPTION PENETRATION CIRCUMFERENTIAL WELDS	5. ITEM LOCATION CONTAINMENT									
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE ENRG	10. CONTRACTOR/SUPPLIER NA									
11. INSPECTION CRITERIA <input type="checkbox"/> DWG <input checked="" type="checkbox"/> SPEC <input type="checkbox"/> OTHER		IR NO. NA NO. C-111	12. ASME AUTHORIZED INSPECTION <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	13. SKETCH ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	14. Discovered During <input type="checkbox"/> Rec'g <input checked="" type="checkbox"/> Const <input type="checkbox"/> Test								
15. Equip Furnished By <input type="checkbox"/> Client <input type="checkbox"/> Eng <input checked="" type="checkbox"/> FLD			16. NONCONFORMING CONDITION: [REF QAR'S 3D-336 & 3D-345]										
SPEC. 7220 - CIII (Q) REV 12, PARA. 7.1.2 REQUIRES PENETRATION ASSEMBLIES TO BE WELDED IN ACCORDANCE WITH SUB-SECTION ASME SEC III 1971 EDITION. ADDITIONALLY, NOTE # 12 DWG 7220 C-334 (Q) REV. 8 REQUIRES 100% X-RAY OF BUTT WELDS IN PENETRATION PIPING. DETAIL 7 DWG C-338 IS REFERENCED FOR ATTACHMENT OF WELD NECK FLANGES (CONT)			24. DISPOSITION CONCURRENCE										
			<table border="1"> <tr> <td>rework</td> <td>reject</td> <td>repair</td> <td>use as is</td> </tr> <tr> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> </table>			rework	reject	repair	use as is				<input checked="" type="checkbox"/>
rework	reject	repair	use as is										
			<input checked="" type="checkbox"/>										
17. REPORTED BY <i>[Signature]</i> DATE 1-30-81			18. VALIDATED BY <i>[Signature]</i> DATE 2-5-81										
21. ROUTING: <input type="checkbox"/> TO FIELD ENGINEERING <input type="checkbox"/> TO OTHERS (SPECIFY)			25. DISPOSITION RESULTS										
22. <input type="checkbox"/> Field Engineering Disposition <input checked="" type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering													
THE ATTACHED QAR # SD-345 IDENTIFIES THE TYPE AND FREQUENCY OF NDE USED AND THE JUSTIFICATION FOR ITS USE IN LIEU OF 100% X-RAY. FIELD ENGINEERING RECOMMENDS TO "USE AS IS". <i>J. C. Morris 2/23/81</i> <i>Paul Soguen 2/23/81</i>													
23. PROJECT ENGINEERING DISPOSITION SEE page 7													
			26. QC ACCEPTANCE <i>[Signature]</i> 2/10/81 QC ENGINEER DATE										
			AUTHORIZED INSPECTOR DATE										

C-23-81 P.H.

QA to Disposition 2/4/81 P.H.

7220 8131121



CONTD BLOCK 16

FOR TYPE VIII ELECTRICAL PENETRATIONS. THIS DWG REQUIRES WELDING IN ACCORDANCE WITH SPEC. T220-G-27 AND NOE IN ACCORDANCE WITH SPEC. C-III. A REVIEW OF RECORDS SHOWS THAT THE NOE WAS PERFORMED IN ACCORDANCE WITH SPEC. G-27 AND C-III PROCEDURES FOR TESTING, BUT THE TESTING PERFORMED DOES NOT MEET THE REQUIREMENTS (100% X-RAY) OF ASME SUB-SEC. NE SEC. III.

HOLD FOR ENGINEERING DISPOSITION

NO HOLD TAGS APPLIED.

*Q LIST N^o 3.002

QAR SD-345 A.I. P-020

The section referenced above which "states in part" has essentially been taken out of context and applied to items it was not intended to cover. Note #12 on drawing C-334, Rev. 12, in its entirety is speaking of requirements for penetration piping materials and butt welds involved in penetration piping systems. It cannot be assumed that 100% RT is required for all butt welds in the containments or on the liner plate. Therefore, the field went to the appropriate documents referenced on the detail drawing (C-338) to determine the welding and examination requirements.

The following steps show the sequence of logic which determined the welding procedures used and the type and frequency of examination that was required:

- 1) Civil Drawing C-338, Detail 7 shows the type VIII penetration assembly and its field welded attachments. Detail 2 on C-338 shows the weld configuration for the attachment of the weld neck flange to the penetration sleeve.
- 2) The note in Detail 2 of C-338 states "welding and prep. per Spec. 7220-G-27 procedure Spec. P1-AT-LH and NDE in accordance with C-111". The procedures in Spec. G-27 give the parameters for making the weld only, they do not recommend or specify any NDE. Since the weld is shown on a civil detail drawing, Form 84-Civil in the G-27 spec. would be referenced to find the welding procedure (if not specified in the detail), and the NDE requirements. Revision 5 of G-27, form 84-Civil under Spec. C-111, does not show a specific item number for the weld neck flange to penetration sleeve weld. Item 8.0 covers welding of flued heads to penetration sleeves and the column for NDE states "see item 1.1". The examinations listed under item 1.1 are VT, RT, MT, PT, and LT-UB as "approved for use for C-111 items".
- 3) Revision 6 of Spec. G-27 added item 10.0 under Spec. C-111 work. This gave welding procedures and NDE requirements for "electrical penetration sleeve to weld neck flange" welding. The column for NDE under item 10.0 says, "see item 1.1", but does not specifically reference which of the five procedures to use. Also in Rev. 6, under item 8.0 (for flued heads) the reference to item 1.1 was deleted and replaced with "see mechanical form 84 for appropriate piping class, welding procedure and NDE". Form 84 mechanical uses the class of the penetration piping (the line going through the sleeve) to determine the NDE required for the weld connection the flued head to the sleeve since the flued head is part of that piping system. Note that there is no piping through an electrical penetration. Consequently, no piping classification can be made.

NCR-3284 P5 4/16
8/3/01

4) Section 9.0 of Spec. C-111 outlines NDE and testing procedures for work performed under this specification as follows:

- A) Sect. 9.2.1 - visual examination is required for all welds in accordance with AWS D.1.1 with exceptions as stated.
- B) Sect. 9.2.2 - vacuum box testing is required for all pressure retaining liner plate welds that are accessible. Also, where vac-box examination is not possible, either because of accessibility or weld joint design, 100% M.T. or P.T. shall be performed.
- C) Sect. 9.2.3 - radiographic examination is required by Appendix C, Section CC-5521.1. "Spot" R.T. for qualification of welders shall be performed in all positions at regular intervals. There is no requirement for 100% R.T. Also, Section CC-5521.2.1 states that M.T. or P.T. may be performed in lieu of the R.T. specified in CC-5521.1.
- D) Sect. 9.2.4 - magnetic particle testing may be performed in lieu of R.T. or Vac-box testing when those are not possible.
- E) Sect. 9.2.5 - liquid penetrant examination shall be used if welds appear questionable after visual inspection, or P.T. may ultimately be used in lieu of R.T. and M.T. if those cannot be performed.

In direct response to the show cause request of this QAR, the field has acted in accordance with the drawings and specs. issued for use. Revision 5 of Spec. G-27 was in effect when installation for the weld neck flanges started. No specific item number existed for this work which indicated the required NDE. Item 8.0 referenced item 1.1 which listed 5 types of NDE approved for use under Spec. C-111, but doesn't identify which one to use. Spec. C-111 and its appendices required all pressure retaining welds to be vac-box examined. As this was not possible, 100% mag particle testing in lieu of vac-box was employed. This substitution is acceptable according to Spec. C-111 and is not contrary to Spec. G-27.

Revision 6 of G-27 was issued changing the NDE requirements for item 8.0 and added item 10.0, which referenced item 1.1 of form 84-Civil. Still, the only clear cut requirement is that the weld is pressure retaining and requires vac-box testing. The new requirements of item 8.0 use form 84-mechanical to determine the piping class, then the NDE requirements as per the class of the penetration piping. No additional information on the electrical penetration attachments is gained as they do not have any penetration piping through them.

NCR-5687 P9 5/47
8/31/81

At present the requirements for the electrical penetration attachment welding and NDE are the same as when the work was done. The field believes there are no deficiencies in the work that was performed. All NDE test reports in the documentation packages state that 100% M.T. was performed in lieu of vac-box. Also, the required R.T. examinations were performed in accordance with Spec. C-111 to meet the requirements for welder qualification. And finally, note #12 on drawing C-334 applies only to butt welds in, or attaching to penetration piping.

NCR-3284

PJ 6/14

Ra 4/14



BLOCK 23. Cont.

SAR CHANGE NOTICE 2343, APPROVED 8/14/81, ^{INCORPORATED INTO REG. 37 OF FSAR 8/14/81} ~~AND INCORPORATED~~ ^{CL. 12M} TAKE EXCEPTION
TO REGULATORY GUIDE 1.19 AND ALLOW 100% MAGNETIC PARTIAL
TESTING IN LIEU OF 100% RT. THEREFORE PROJECT ENGINEERING
CONCURS TO "USE AS IS"

^{WMM}
R.C. Lightago 8/31/81
DT Squires L-55 9/1/81
J.M. 09-09-81



NONCONFORMANCE REPORT

Non Testable

2
9/14/81

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3268	20. PAGE 1 OF 1
2. UNIT(S) 2	3. DRAWING/PART NO. E-643	REV	4. ITEM DESCRIPTION CONDUITS per Block 16	5. ITEM LOCATION Aux Bldg EL 659 2' 5/4"	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE CONSTRUCTION	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA <input checked="" type="checkbox"/> DWG () SPEC () OTHER		12. ASME AUTHORIZED INSPECTION REQ'D () YES <input checked="" type="checkbox"/> NO	13. SKETCH ATTACHED () YES <input checked="" type="checkbox"/> NO	14. Discovered During () Rec'g <input checked="" type="checkbox"/> Const () Test	15. Equip. Furnished By () Client () Eng <input checked="" type="checkbox"/> FLD
16. NONCONFORMING CONDITION: E-42A sh 9 paragraph 8. states a maximum of the equivalent of 4-90° bends are allowed in a conduit run between pull points. Contrary to E-42A conduits 2BH048, 2BH049, 2BH050 & 2BH051 have 4-90° bends and an offset of 2-33° bends				24. DISPOSITION CONCURRENCE SEE BLOCK 23	
17. REPORTED BY H. Lange				25. DISPOSITION RESULTS See sheet 2 W. Smith 2-4-82	
18. VALIDATED BY H. Lange				26. QC ACCEPTANCE W. Smith	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)				27. DATE 4-16-81	
22. () Field Engineering Disposition <input checked="" type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering Total degree of bends is 370° maximum. 3-90° bends, 1-65° bend, 1-25° bend and 1-8°-10° bend for each of the above conduits. Cables have been installed. Recommend use as is.				28. DATE 4-16-81	
23. PROJECT ENGINEERING DISPOSITION REJECTED-REWORK. TOTAL DEGREE OF BENDS IS 426°. THE INTEGRITY OF INCLUDED CABLES IS UNDETERMINABLE. CONDUITS ARE TO BE REWORKED TO ELIMINATE EXCESSIVE BENDS AND CABLES ARE TO BE SCRAPPED AND NEW CABLES INSTALLED.				29. DATE 4-16-81	
24. REFER TO PAGE 2				30. DATE 4-16-81	



BLOCK 23 CONT.

CONSTRUCTION TO VERIFY THAT MAXIMUM ALLOWABLE PULLING TENSION⁵ (FOR CABLES IN CONDUITS 2BH048, 2BH049, 2BH050, AND 2BH051) WAS NOT EXCEEDED. IF MAXIMUM ALLOWABLE PULLING TENSION WAS NOT EXCEEDED, USE AS IS. IF MAXIMUM ALLOWABLE PULLING TENSION WAS EXCEEDED CABLES ARE TO BE REMOVED AND SCRAPPED. NEW CABLES ARE TO BE PULLED TO REPLACE SCRAPPED CABLES. ²⁻¹⁶⁻⁸¹ **NOTE:** IF NEW CABLES WILL BE PULLED TO REPLACE ANY SCRAPPED CABLES THEN, CONDUITS ARE TO FIRST BE REWORKED TO ELIMINATE EXCESSIVE BENDS. ⁹⁻¹⁶⁻⁸¹

RE L. Singels 4-16-81
CONTINUATION OF Block 25

Adams 4-16-81

An approved cable pulling lubricant was inserted into above conduits. Cables in above conduits were rigged for pull and a dynamometer was utilized to measure tension required to pull cables in above conduits.

2BH048	pulled two cables present by hand	W. J. Smith P.C.
2BH049	750 \pm lbs.	W. J. Smith P.C.
2BH050	300 \pm lbs.	W. J. Smith P.C.
2BH051	400 \pm lbs.	W. J. Smith P.C.

Dan Leiter Cable Pulling Forman

DYNAMOMETER DATA: CALIBRATED 4-14-81
EXPIRATION 4-14-82
ID NO. GPC 495
W. J. Smith P.C. 12-23-81



NONCONFORMANCE REPORT

S/V # 2ALA

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 3149		20. PAGE 1 OF 1	
2. UNIT(S) 2		3. DRAWING/PART NO. M1.16-23 (Manual)		4. ITEM DESCRIPTION tube oil cooler for 2P-58A		5. ITEM LOCATION Room 217	
6. P.O. OR SPEC NO. 7220-M1.16		7. SERIAL NO. 740186-012		8. REPLACEMENT PART P/N 418 REV 1/18		9. SOURCE Supplier	
11. INSPECTION CRITERIA () DWG () SPEC (X) OTHER		IR NO. NO. F-12-12		12. ASME AUTHORIZED INSPECTION REQ'D (X) YES () NO		13. SKETCH ATTACHED () YES (X) NO	
16. NONCONFORMING CONDITION: During the performance of an inspection (F-20-3113) tube oil was noted in the C.C.W. side of the 2P-58A tube oil cooler. Upon further testing it was found that the fourth tube from the left in the upper diagonal row, parallel to the C.C.W. inlet outlet divider, as seen from the divider end is leaking from a source other than the rolled ends. Q-list No. 4, 592 1 HOLD TAG APPLIED							
17. REPORTED BY Larry W. Locke		DATE 10/3/80		18. VALIDATED BY (P) E. Smith		DATE 10/9/80	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY) 22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering							
Remove the 2P-58A tube oil cooler from the pump assembly and ship off site for rework. Reference attached letter from D.B. Miller to L.E. Davis dated 2-18-80. Re-inspection 2-23-80 of 2P-58A Revised disp.) Field Engineering investigation reveals that the subject tube oil cooler is a nonquality item. Therefore, this NCR may be closed. 4-27-81							
23. PROJECT ENGINEERING DISPOSITION							
We concur with the field engineering disposition for the following reasons: (1) All pump specifications (B34) D8-113, 1000000-05 (Baldwin P. 7720-M1.16-23-3) Appendix A, page 1, identifies that the applicable code for the pump tube oil cooler is ASME Section VIII, 1971 (2) The heat exchanger data sheet (in M1.16-23-1) identifies the cooler tubes as "Admiralty-Latin number 36 bar aluminum-bronze construction" and the shell as carbon steel, i.e., not ASME Section III. Ja Clements							
26. QC ACCEPTANCE QC ENGINEER AUTHORIZED INSPECTOR				DATE 2/15/82 DATE			

see pg. 3 for concurrence

APO to Disposition 5/15/81 P.H.



NONCONFORMANCE REPORT (CONT'D)

20 PAGE 2 OF 4²⁸₅₋₁₃₋₈₁ NCR NO 3149

B/K 22 cont.)

The above was the result of verbal communication with Project Engineering. Route this NCR to Project Engineering for their concurrence that the subject lube oil cooler is non-quality related. *Dr. Hendrich* 5-13-81

1034-27-81
8 285-23-81
4 285-23-81
3
NCR 3149 pg 2

Midland Project: P.O. Box 1963, Midland, Michigan 48640 • (517) 631-0951

February 18, 1981

Mr. L. E. Davis
Bechtel Power Corporation
P.O. Box 2167
Midland, MI 48640
File: M-1.38 UFI: 02360(S) Serial: CSC-5456

Reference: Bechtel Nonconformance Report #3149
SPR #13-12-176, Revision 1

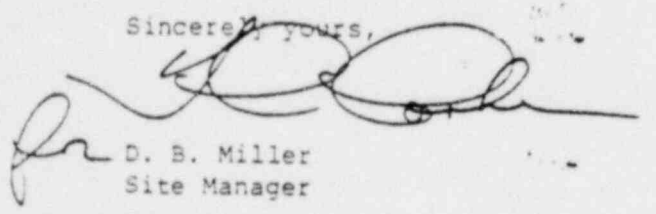
Please return the Makeup Pump 2P58A Lube Oil Cooler to the vendor for rework. Both above noted references are attached and explain the initial discrepancy and suggested resolution.

Please remove the cooler from the pump assembly; then pack or crate in a protected container and ship the best way to the cooler manufacturer. The manufacturer will complete the required repairs as described in the above referenced NCR. The cooler is to be shipped to:

American Precision Industries, Inc.
BASCO Division
2777 Walden Avenue
Buffalo, NY 14225
Attention Mr. Glen Crikshark

The Babcock and Wilcox Company will accept a backcharge for the labor to remove the cooler, to prepare it for shipment, shipping costs, and for reinstallation. Be advised that the vendor will not accept shipping charges, therefore ship prepaid.

Sincerely yours,


D. B. Miller
Site Manager

DBM/JTW/maf

Attachments



NONCONFORMANCE REPORT (CONT'D)

20. PAGE 3 OF 3

19. NCR NO.

3149

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
N/A			
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
N/A - AS NCR IS NOT REQUIRED			
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	



ENG. R. KOWALSKI

NONCONFORMANCE REPORT

3/0 - NON TESTABLE

1. PROJECT NAME
Midland

JOB NO.
7220

2. UNIT(S)
1E2

3. DRAWING/PART NO.
N/A

REV
N/A

4. ITEM DESCRIPTION
Shop Fabricated Carbon Steel Piping

5. ITEM LOCATION
Containments 1E2

6. P.O. ORDER NO.
7220-M-104A-AQ

7. SERIAL NO.
N/A

REV
N/A

8. REPLACEMENT PART
P/N N/A

9. SOURCE
Supplier

10. CONTRACTOR/SUPPLIER
ITT Grinnell Industrial Piping, Inc.

11. INSPECTION CRITERIA
() DWG () SPEC () OTHER

IR NO.
N/A

12. ASME AUTHORIZED INSPECTION REQ'D
() YES () NO

13. SKETCH ATTACHED
() YES () NO

14. Discovered During
() Rec'g () Const () Test

15. Equip Furnished By
() Client () Eng () FLD

16. NONCONFORMING CONDITION:

Purchase Order 7220-M-104A-AQ specifies that carbon steel piping that is to be installed within the containments shall be coated in accordance with Specification 7220-G-3, system A, which requires a one coat application of an approved inorganic zinc rich shop primer. Contrary to the above the piping indicated on the attached mechanical drawings has been coated with an unidentified lead

REPORTED BY

DATE

18. VALIDATED BY

DATE

21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)

22. () Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

25. DISPOSITION RESULTS

26. OC ACCEPTANCE

27. AUTHORIZED INSPECTOR

28. AUTHORIZED INSPECTOR

29. AUTHORIZED INSPECTOR

30. AUTHORIZED INSPECTOR

1) Field Engineering recommends that the pipe lines listed below which contain the non conforming coating as identified per block 16, and which will be insulated be "used as is."

23. PROJECT ENGINEERING DISPOSITION BASED ON RBA cont. on pg. 2
QUESTIONABLE COATING ALREADY APPLIED TO EXISTING PIPING INSIDE CONTAINMENT AS IDENTIFIED IN THIS MCR, PROJECT ENGINEERING AND DISPOSITION IS TO NOT REMOVE THAT THE COATING BE REMOVED AND REPLACED. LINES TO BE INSULATED MAY BE USED AS IS. FUTURE UNINSULATED LINES ARE TO HAVE THE EXISTING COATING REPAIRED IN ACCORDANCE WITH SPECIFICATION 7220-M-4100. CONT. ON PG. 2

DATE 12/8/81
JOB 12-5-B1

see pg 15 for concurrence

2/18/82
DATE

2/18/82
DATE

2/18/82
DATE

2/18/82
DATE

2/18/82
DATE

2/18/82
DATE

Block 16 continued:

Inse Shop coating. Hold for Engineering Disposition. Q-number is indeterminate.
No hold tags applied.

Blk. 22 cont.)

2HBD - 447

2ELB - 1

2HBC - 110

2ELB - 2

2HBC - 103

2ELB - 3

2EBC - 5

2ELB - 4

2EBC - 4

- ② Field Engineering further recommends that the referenced piping not requiring insulation be "reworked" by either application of an additional coating or protective covering over the in-place nonconforming coating. Project Engineering to specify suitable products and requirements for the aforementioned. Removal of the in-place coating and repainting is not practical at this stage of construction.

JBett 8/19/80

BLOCK 22 CONTINUED:

RETURN TO A2 FOR ADDITIONAL DISPOSITION. FIELD ENGINEERING REQUIRE PROJECT ENGINEERING TO ADDITIONALLY DISPOSITION BLOCK 23 FOR INSTALLED PIPING WHICH IS UNINSULATED. FIELD ENGINEERING RECOMMENDS TO "USE AS IS". *RD Kowalski 1/8/82*

BLOCK 23 CONT'D.

EXISTING UNINSULATED LINES MAY BE "USED AS IS." NO DWG OR SPEC REVISION REQ'D.

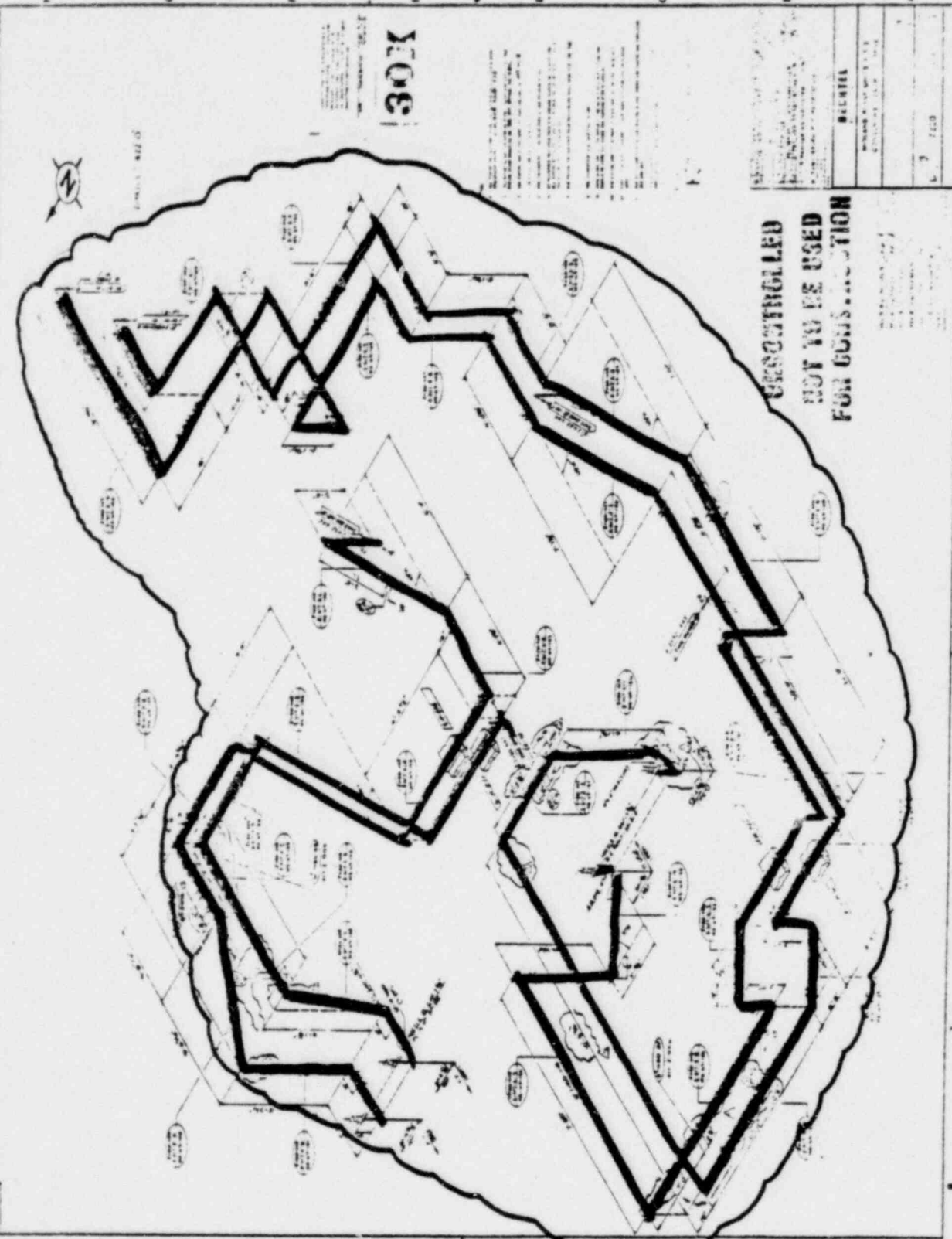
1-13-82

JKH

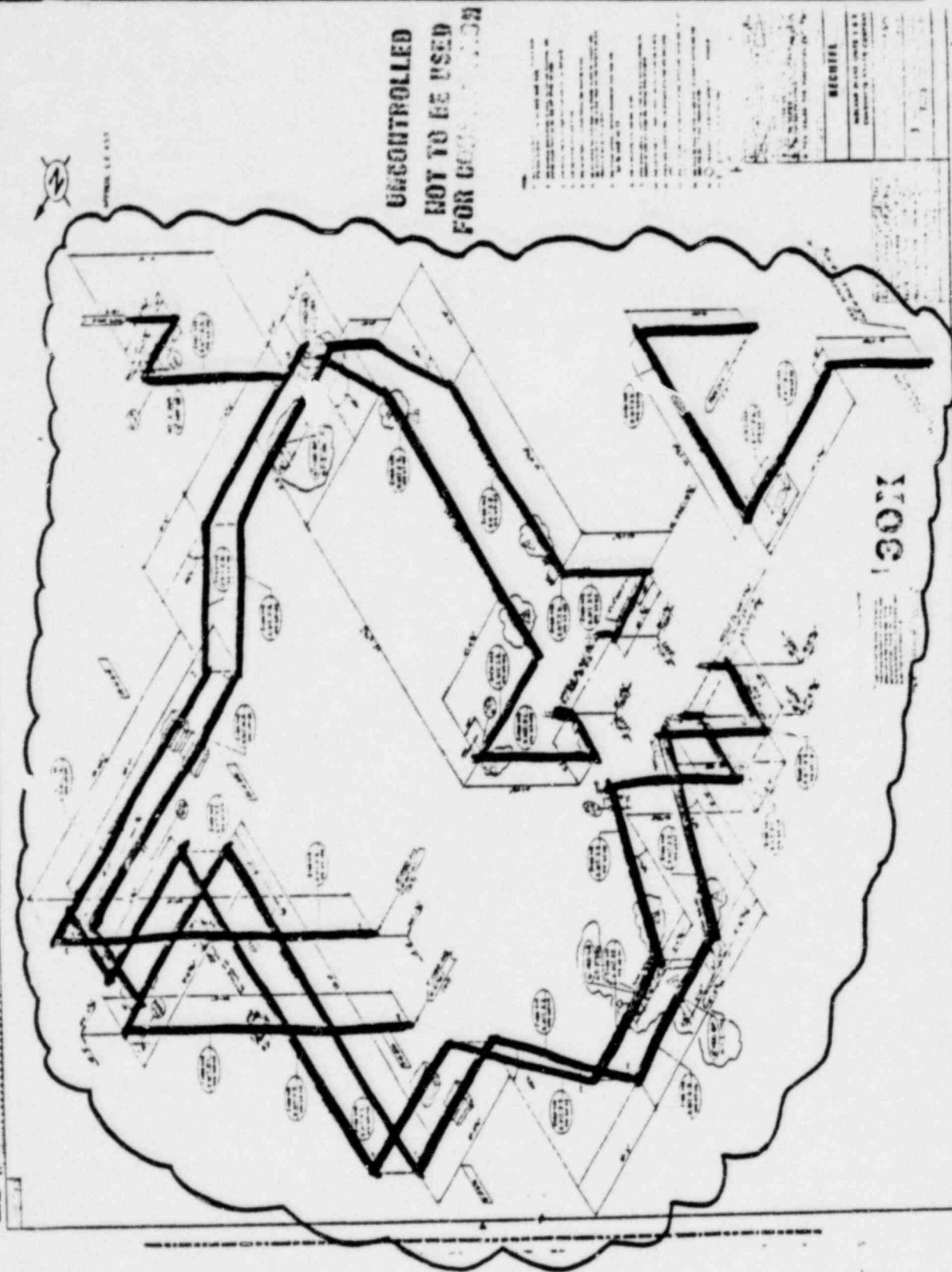
QE 1-13-81

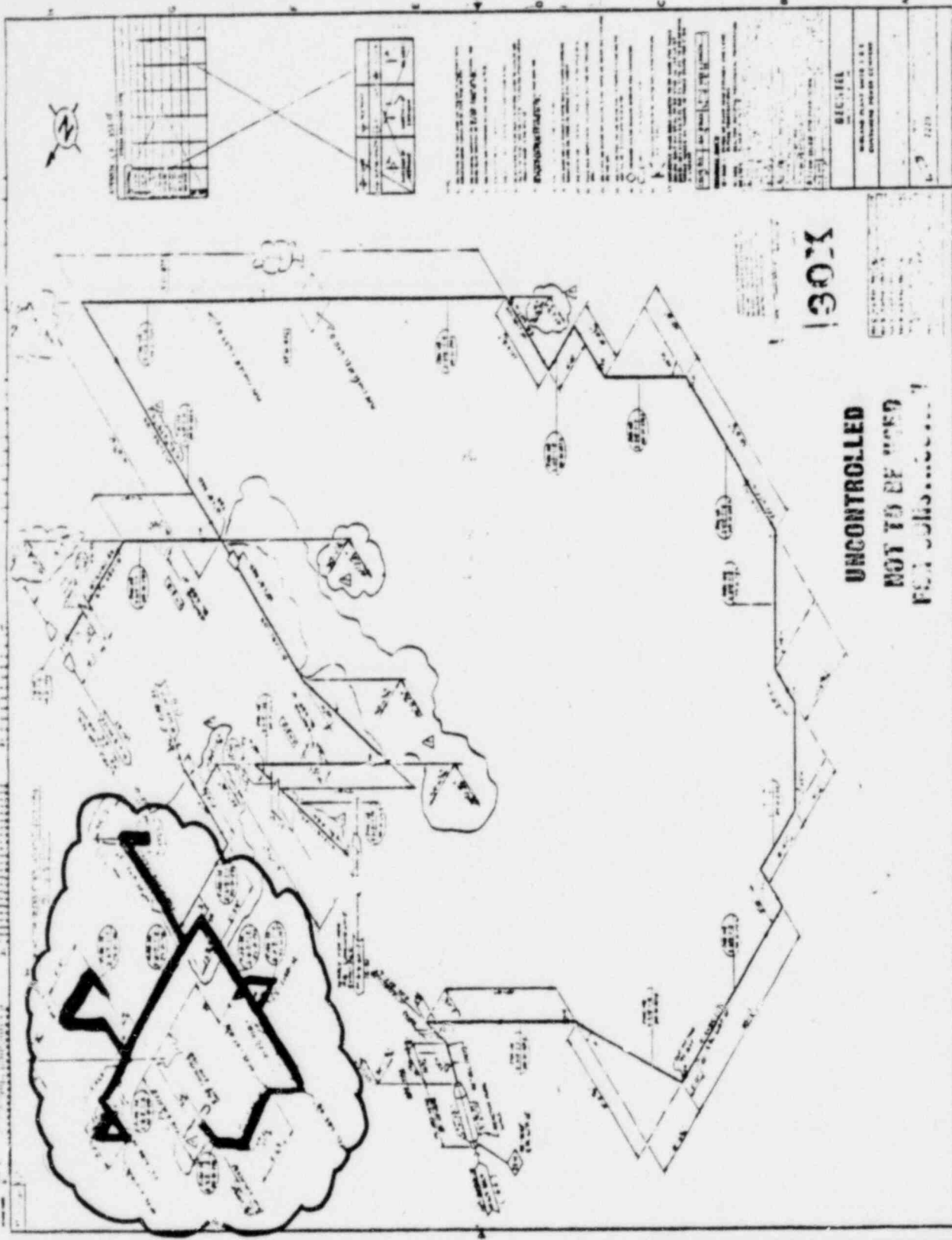
NCR 3046 176-1196/82

PAGE 3 of 1431

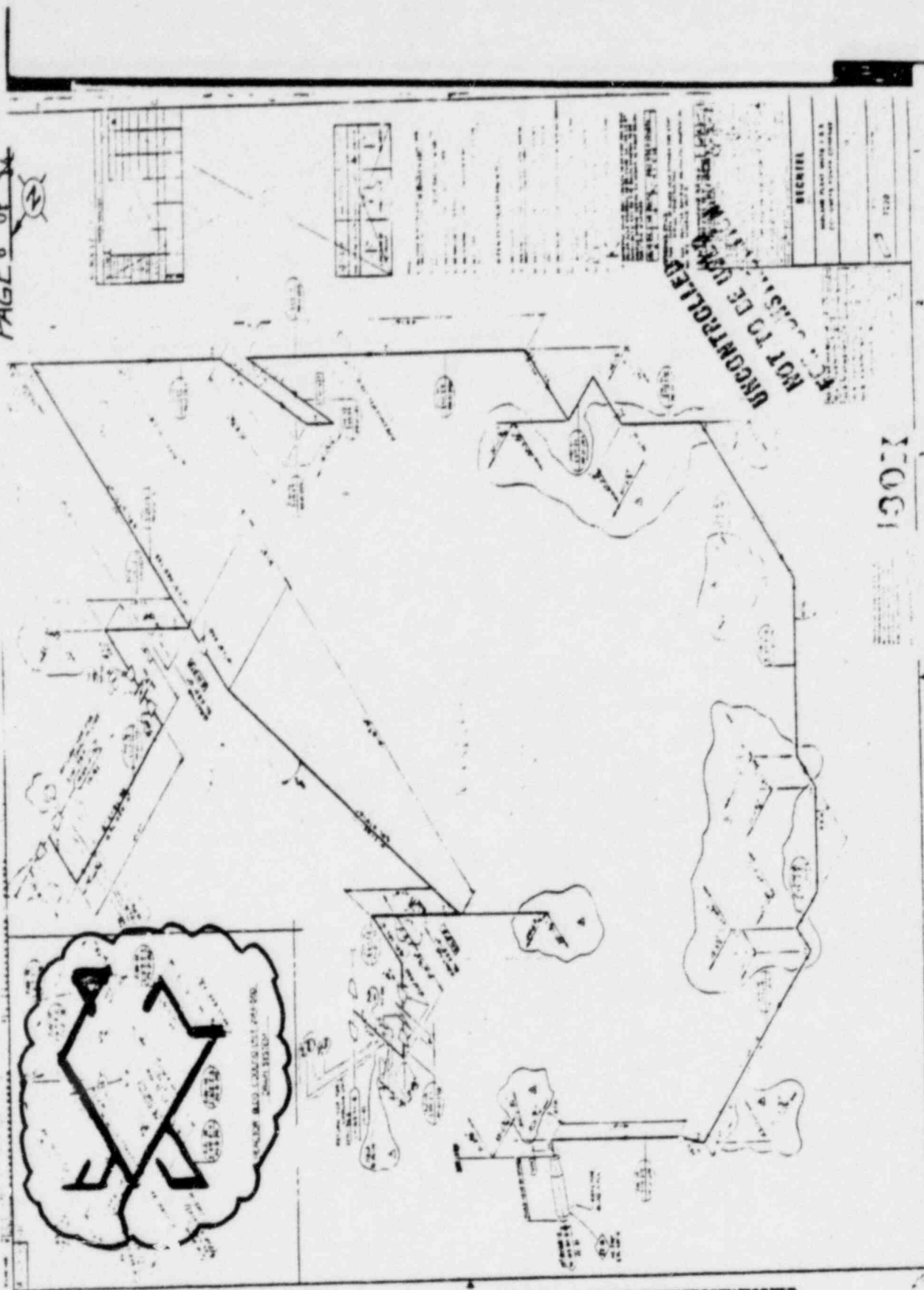


DWG. M-617 SH.2 (Q) REV. 4
REACTOR BLDG UNIT 2





DWG. M-619 SH. 1 (Q) REV. 6
 REACTOR BLDG. UNIT 2



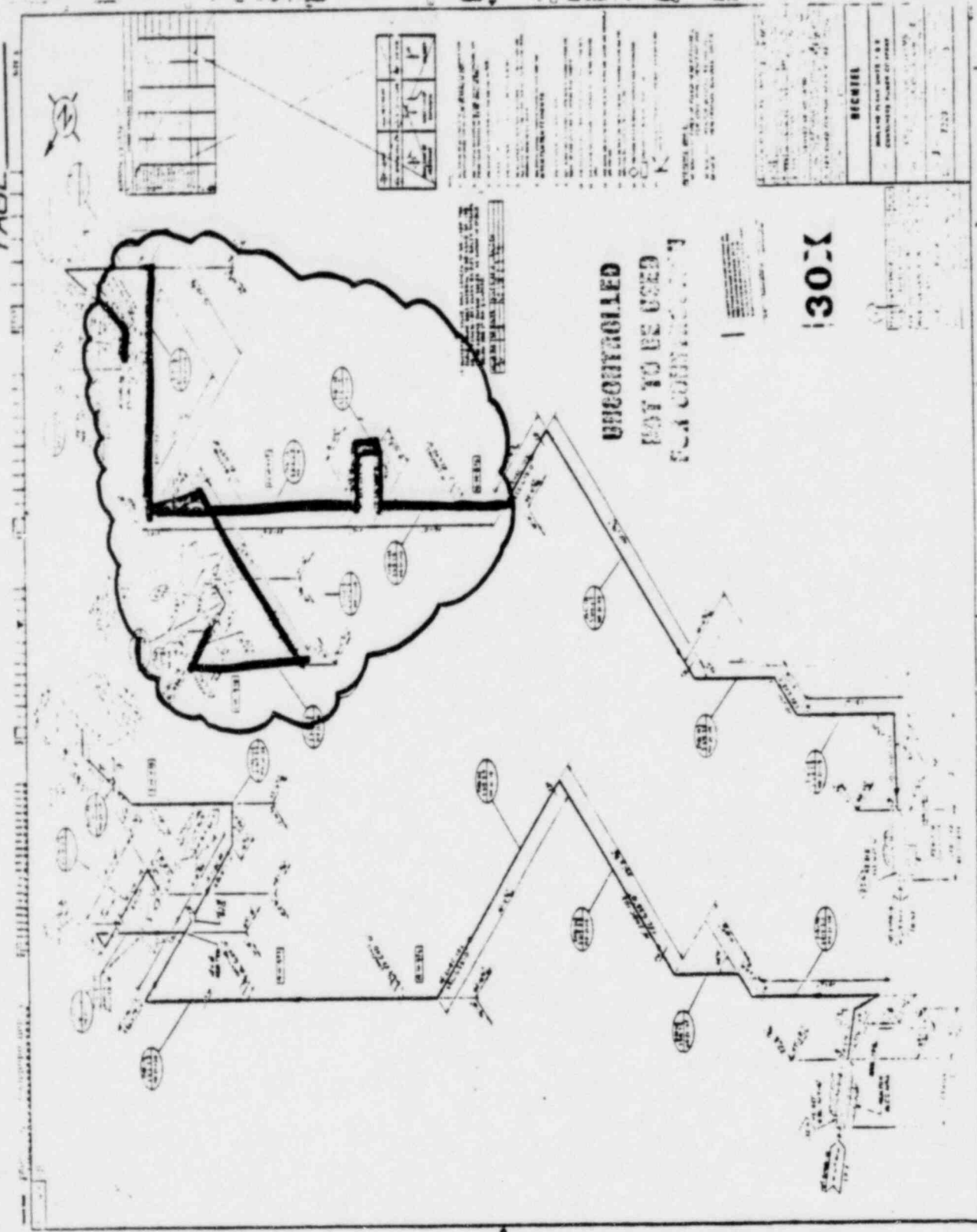
NOT TO BE USED
UNCONTROLLED

SECRET

1307

DWG M-619 SH. 2 (Q) REV. 7

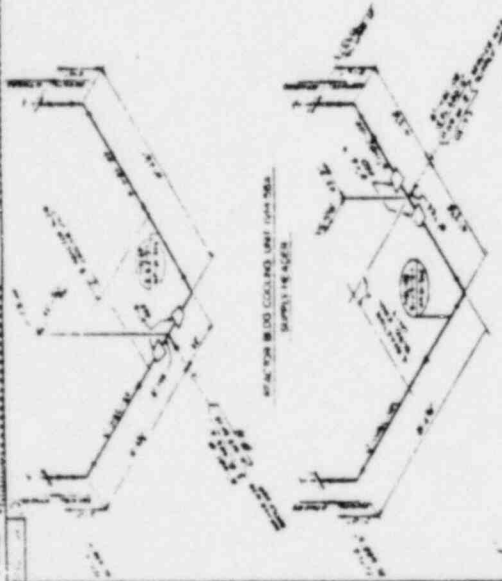
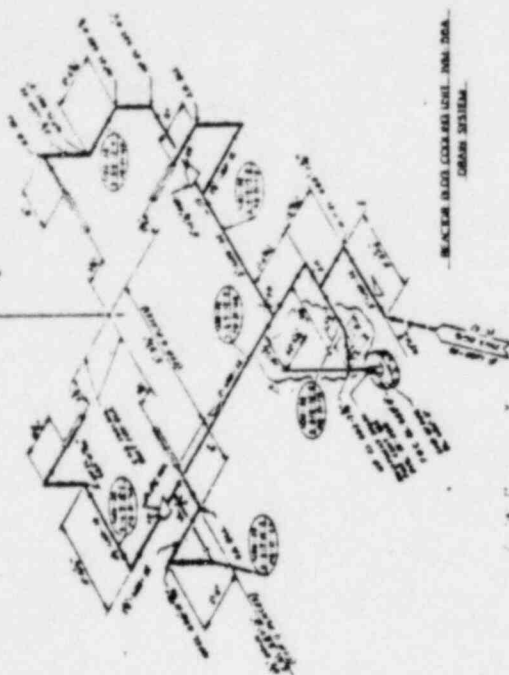
REACTOR BLDG. UNIT 2



UNCONTROLLED
NOT TO BE USED
FOR CONTAINMENT

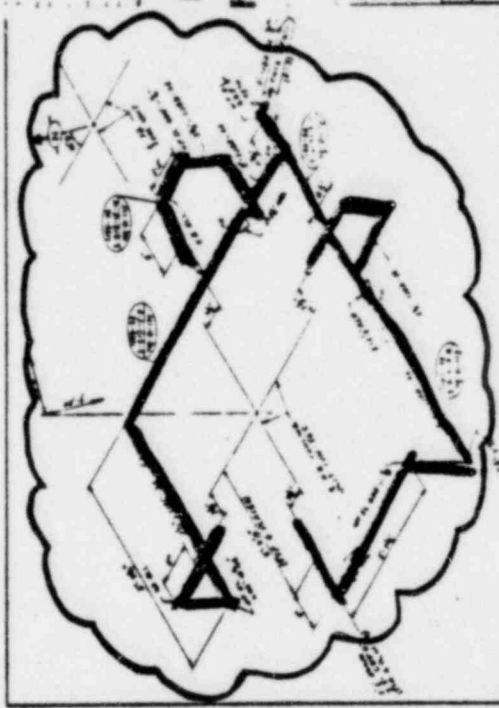
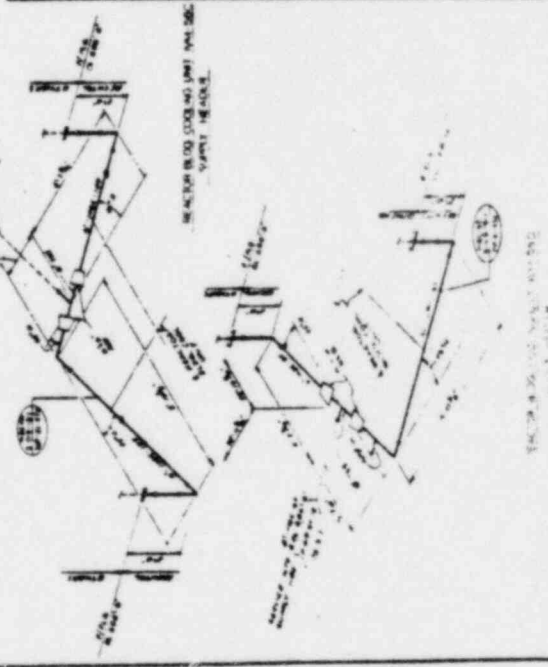
30X

DWG M-619 SH.3 (Q) REV. 7
REACTOR BLDG. UNIT 2



REACTOR BUILDING COOLING UNIT (RBU) DATA

REACTOR BUILDING COOLING UNIT (RBU) DATA



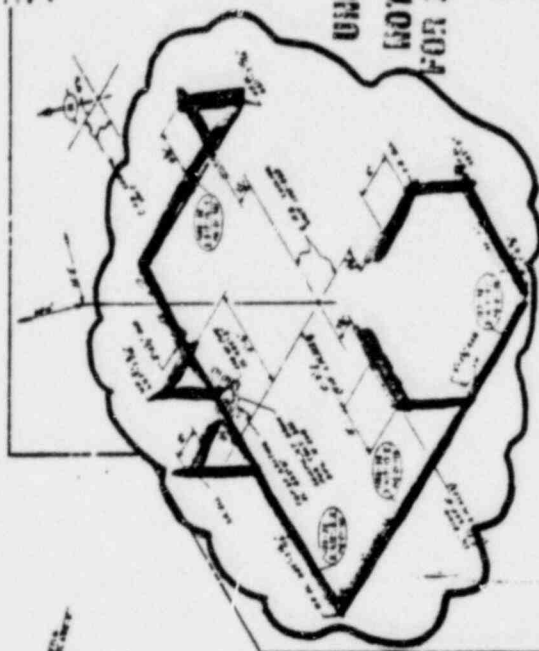
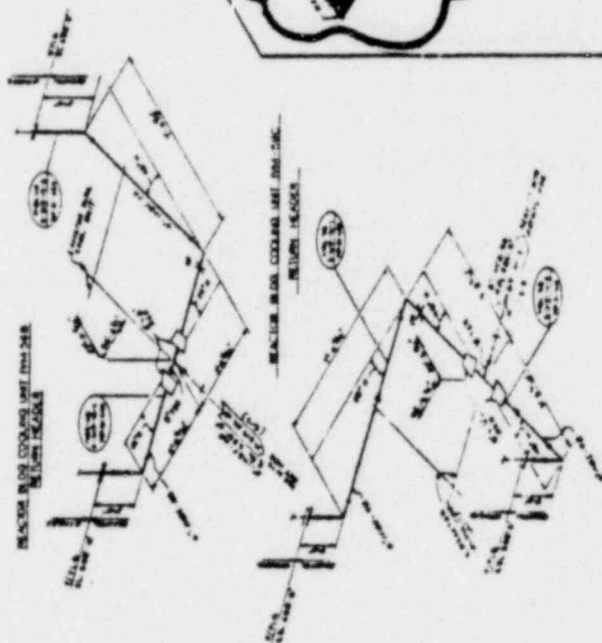
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REACTOR BUILDING UNIT 1.1.1

1. DWG. M-619 SH. 15 (A) REV. 5
REACTOR BLDG. UNIT 1

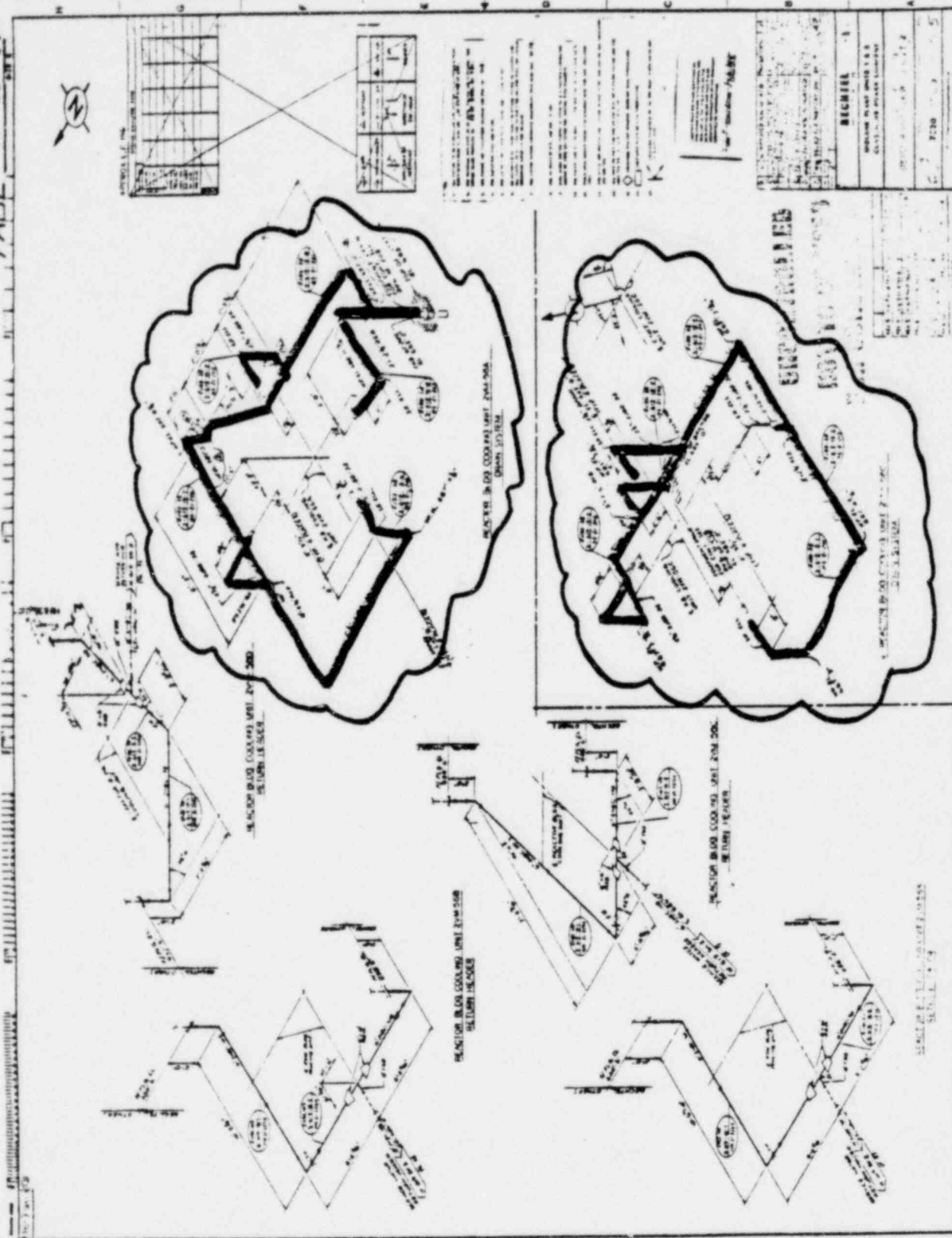


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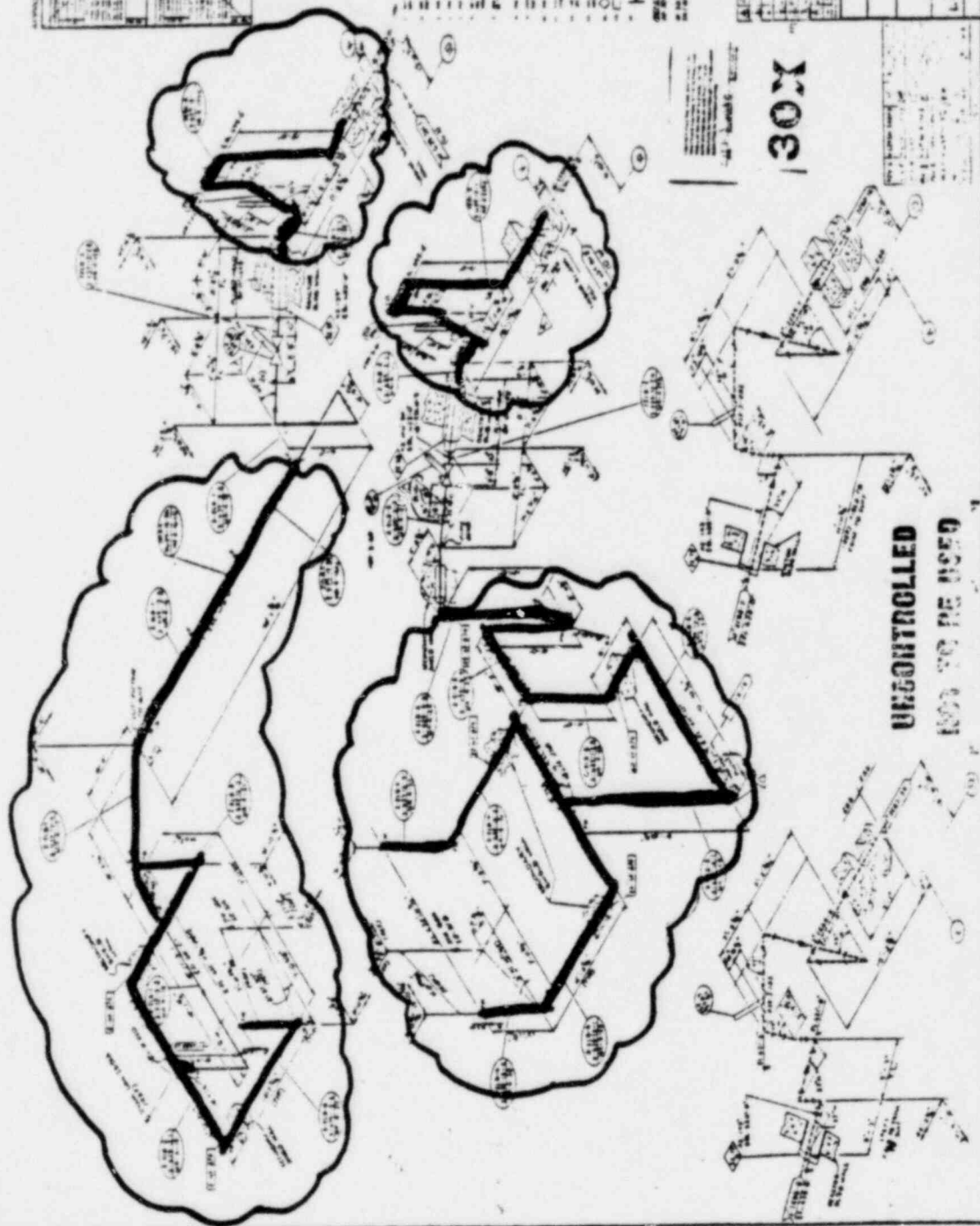
25

DWG. M-619 SH. 16 (Q) REV. 4
REACTOR BLDG. UNIT 1



DLG, M-619 SH. 18 (G) REV. 5

REACTOR BLDG UNIT 2



DWG. M-1639 SH. 13 (Q) REV. 6
 REACTOR BLDG. UNIT 2

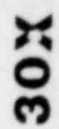
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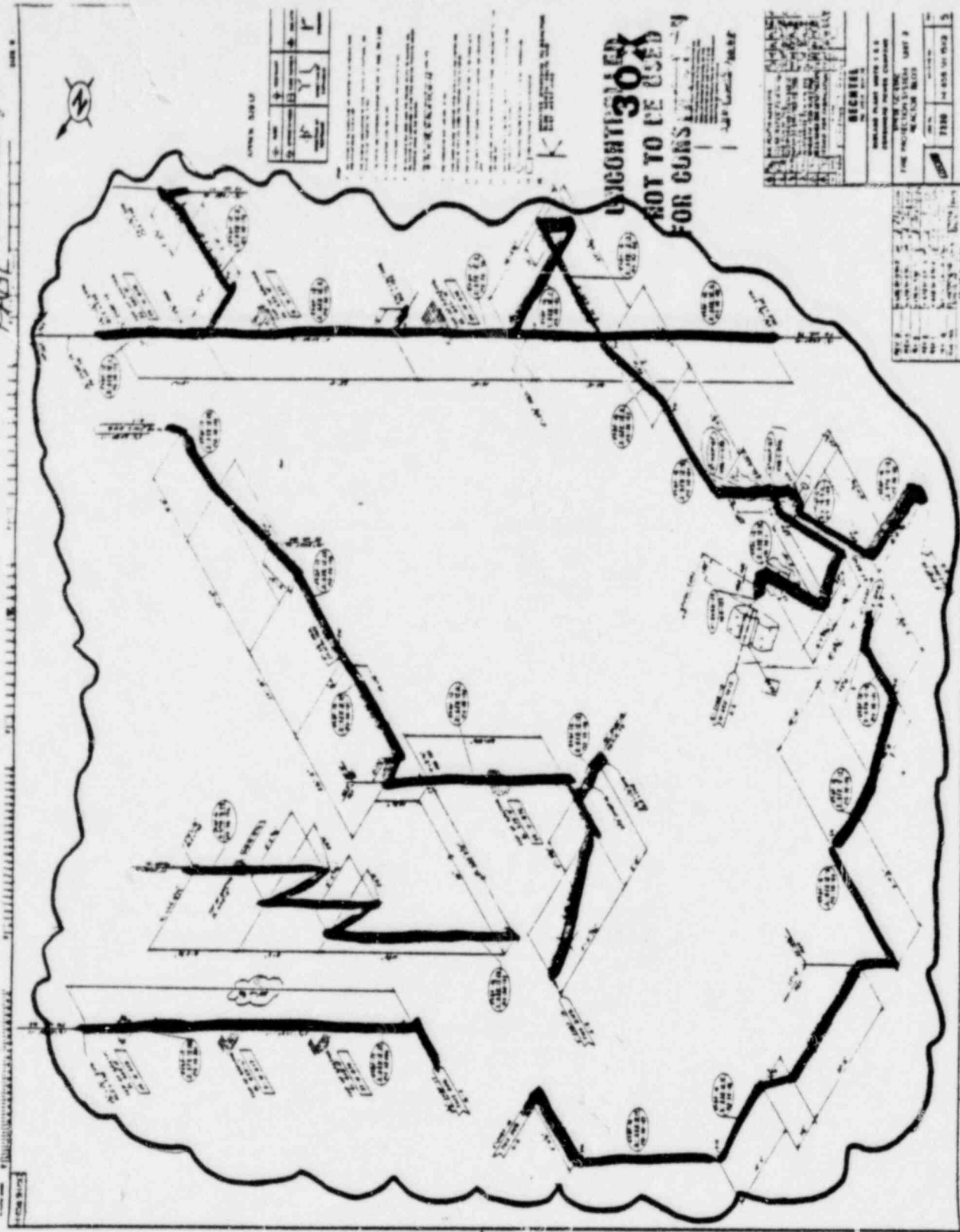
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DWG. M-656 SH. 1 (Q) REV. 7

REACTOR BLDG UNIT 2



DWG M-65B SH. 14 (Q) REV. 3
REACTOR BLDG UNIT 1



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1	10/15/58
REVISION	
NO.	DATE
1	10/15/58
REVISION	
NO.	DATE
1	10/15/58

DWG. M-658 SH. 15(Q) REV. 4
 REACTOR BLDG. UNIT 2



NONCONFORMANCE REPORT (CONT'D)

20. PAGE 15 OF 15 ¹⁵⁻⁸ 19. NCR NO. 3046

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
			X
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
			X
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
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PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
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AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
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PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

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PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
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PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
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24. Disposition Concurrence Item			
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24. Disposition Concurrence Item			
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AUTHORIZED INSPECTOR		DATE	

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AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	



NONCONFORMANCE REPORT

0-EAB

0-DCA

SHOULD BE
SERVICE WATER
BLDG + Proj Eng.
Comment: 2-15-82
OSK

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 2328		20. PAGE 1 OF 3	
2. UNIT(S) COMMON		3. DRAWING/PART NO. 7220-C-46		4. ITEM DESCRIPTION 7 SLUICE GATES W/LIFTING OPERATORS		5. ITEM LOCATION CIRCULATING WATER BLDG	
6. P.O. OR SPEC NO. 7220-C 24 REV 3 SEE BLK 1C		7. SERIAL NO. SEE BLK 1C		8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE SUPPLIER	
10. CONTRACTOR/SUPPLIER ARMCO STEEL CO.		11. INSPECTION CRITERIA () DWG () SPEC (X) OTHER		12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO		13. SKETCH ATTACHED () YES (X) NO	
14. Discovered During () Rec'g (X) Const () Test		15. Equip. Furnished By () Manufacturer (X) Eng () FLD		16. NONCONFORMING CONDITION: SF/PSP 65.1 REV 4 para 4, SURVEILLANCE		24. DISPOSITION CONCURRENCE	
INSPECTION OF MAINTENANCE ACTIVITIES STATES IN PART para 4.1.1; ... ALL "Q" LISTED PERMANENT PLANT EQUIPMENT AND MATERIAL IS MAINTAINED IN ACCORDANCE WITH THE REQUIREMENTS OF FPG 4.000 AND FPG 5.000. CONTRARY TO THE (CONT PG 2) "Q" NUMBER 1.506		6 HOLD TAGS APPLIED		25. DISPOSITION RESULTS		26. QC ACCEPTANCE	
17. REPORTED BY K. Ault		DATE 7/5/79		18. VALIDATED BY W. Barclay		DATE 7-9-79	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. () Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering		23. PROJECT ENGINEERING DISPOSITION (block 22 continued on Pg. 3)		27. QC ENGINEER John W. Dancy	
Equipment and operators have been protected from adverse conditions during installation. See NCR 1584. During installation of the Sluice Gates. The seating faces and components were cleaned and greased. Gates OM96A, OM96B, OM96C and OM96D have been opened and closed frequently to allow installation of the gate slide extensions. The threaded portion of the gate stems have been greased as the gates		23. PROJECT ENGINEERING DISPOSITION (block 22 continued on Pg. 3)		24. DISPOSITION CONCURRENCE QC Occurs with Projects disposition of USE-AS-IS. SP-7-79 2-15-82		25. DISPOSITION RESULTS	
Project Engineering recommends that the sluice gates be inspx inspected by and authorized xxxx representative of the gate manufacturer to determine the operational condition. A written report from the gate manufacturer indicating the condition and operability of the gates shall be or obtained. If this report is satisfactory, the gates shall can be accepted "AS IS".		26. QC ACCEPTANCE John W. Dancy		27. QC ENGINEER John W. Dancy		28. AUTHORIZED INSPECTOR	
Note: See Proj. Eng. Redisposition on Page 3.		29. DATE 12-1-79		30. DATE 2-15-82		31. DATE	

see pg 5 for
new concurrence



(BLOCK 16 CONT)

ABOVE, THE FOLLOWING EQUIPMENT WAS RELEASED TO CONSTRUCTION WITHOUT COMPLIANCE TO PAR 4.7.0 OF FPL 5.000:

EQUIPMENT	LIFTING OPERATOR S/N	DATE RECEIVED	EQUIPMENT OPERATOR	DATE RELEASED	EQUIPMENT OPERATOR
OM 96A	274935	12/19/77	6/21/78	7/7/78	7/26/78
OM 96B	274936	12/21/77			
OM 96C	274937	1/9/78			
OM 96D	274938	1/9/78			
OM 91A	274933	4/28/78			
OM 91B	274934	6/29/78			

ITEM 2 : (A) INSTALLATION, OPERATION & MAINTENANCE MANUAL G1000, ARMCO STEEL CORP, MAINTENANCE AND LUBRICATION SECTION, (F922); para 2 REQUIRES SEATING, FACES AND WEDGING SURFACES TO BE CLEANED & GREASED WHEN THE GATE HAS BEEN IN THE CLOSED OR OPENED POSITION FOR LONG PERIODS OF TIME WITHOUT MOVEMENT.

(B) MAINTENANCE OF THE THREADED PORTION OF THE GATE STEM IS CRITICAL

K. Dietz, 7/5/79

NONCONFORMANCE REPORT (CONT'D)

20 PAGE

3 OF 3

OF 3

12-14-77

19

NCR NO

2328

A conditional release is granted to release operators for operation to allow completion of gate installation, corrections or removal can be ~~XXXXX~~ accomplished without causing ~~XXXXXX~~ damage or contamination to ~~XXXXXXXXXXXXXXXXXXXX~~ associated plant equipment or structure.

C. T. Davis 7-18-79
PFE DATE

P. J. Barclay 7-18-79
PFOCE DATE

'AD' D. L. H. 7-18-79
PQAE DATE

block 22 continued

are opened for testing. The Sluice gates are designed for being submerged for long periods of time and at present the gates have been protected and there is no physical ~~ring~~ sign of deterioration. Field Engineering recommends to accept as is.

J. Betts 8/8/79

Blk. 22 cont.) A storage and maintenance form (F10-242 attached), which has now been approved, does not require any maintenance from the time of gate installation until pre operational maintenance.

Based on the above, the field believes that the work and protection provided by the field is over and above that required by the manufacturer and that an inspection by an authorized representative of the gate manufacturer, at this time, is not warranted. Route to Project Engineering for concurrence.

Block 23 Contd.

J. Betts 12/17/79

Project Engineering has reviewed field engineering's disposition and does not concur with the disposition. Project Engineering recommends the disposition indicated on page 1 of this NCR.

P. J. Barclay
3/24/80

Rae 3/20/80

P. Shum 3/26/80

Item(s): Sluice Gates and Accessories

Equip. No. (s): OM 91A OM 91B OM 96A OM 96B
OM 96C OM 96D

Quality Classification:

Page 10 of 10

P.O. No. or Spec. No.
7220-C-24

— — — — —

- 1.0 Maintenance is not required between the time of installation and the pre-operational maintenance.
- 1.0 Pre-operational maintenance shall be performed just prior to testing of the surge gates. Maintenance shall be per ARMC manual; installation, operation and maintenance G-1000, and Limitorque manual SMBI-170. (7220-C24-28)

Check List Code:

Y Requirement(s) Accomplished

See Comments

Discussion Required

Document is verified by _____

11

11

Page 20 Sheet of

F-10 Approvals

11/126170

PFQCE ~~104~~ 1213 179

115899



NONCONFORMANCE REPORT (CONT'D)

1 PAGE 5 OF 5

NCR NO.

2328

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
			X
INSPECT			
IF ACCEPTABLE			
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
			X
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

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AUTHORIZED INSPECTOR		DATE	



ARMCO INC.
METAL PRODUCTS DIVISION

ADDRESS REPLY TO
6101 DEXTER STREET
COMMERCE CITY, CO 80022

April 14, 1980

Bechtel Power Corporation
P. O. Box 2167
Midland, Michigan 48640
Attention: Mr. Jim Wasylewski, Jobsite

SUBJECT: Bechtel Power Corporation
Agents for Consumers Power Company
Midland, Michigan
Denver Order No. 71-C0796
District Order No. 24-0633

Gentlemen:

In response to your request for a visual inspection of four gates identified as OM96A, OM96B, OM96C, and OM96D. This inspection consisted of verifying the exposed seating surfaces, wedges, and wedge blocks were cleaned and lubricated in a satisfactory manner. We noted the top wedge hooks were cleaned but required lubrication.

This visual inspection required approximately one hour and was completed at approximately 2:00 on March 20, 1980.

If you need additional information on this matter, please advise.

Very truly yours,

F. P. Lyons
Supervisor - Quality Assurance

FPL/lek

cc: R. L. Cowles - Armco MPD, Denver, Colorado
F. Bach - Armco MPD, Lansing, Michigan
Order File - 71-C0796

ACK 2308 29 50/1/1
4-15-80

(Report)

20

18/12/181

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Em. 10-26-81

44

Corrected Copy

2E-7/18/77 Debbie

NONCONFORMANCE REPORT

See Non testable Unit

PROJECT NAME

MIDLAND

JOB NO.

07220

2. UNIT/1

3. DRAWING/PART NO.

See Block 16 by Item 4

REV

4. ITEM DESCRIPTION

Stud Expansion Anchors

9. SOURCE

CONST.

10. CONTRACTOR/SUPPLIER

NA

11. INSPECTION CRITERIA

IR NO. C-150

NO. C-305/E42

12. ASME AUTHORIZED INSPECTION RECD

() YES () NO

13. SKETCH ATTACHED

() YES () NO

14. Discovered During

() New () Const () Test

15. Equip Furnished By

() Client () Eng () FLD

16. NONCONFORMING CONDITION:

Contrary to Table 4.1, C-305, The below listed Expansion Anchors, shown on attached sketches, are not installed with the required minimum embedded length.

Item 1. Support # 87 FSK EC 1 11, Top Two anchors have 2" embedment. Min Embed for 1/2" Anchors is 2.25"

Held for Engineering Disposition

Q List # 1.102, 1.202, 1.302, 1.502

17. REPORTED BY

DATE

6/19/79

21. ROUTING: () TO FIELD ENGINEER () TO OTHERS (SPECIFY)

22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering

(See page 4 of 13)

W.B. Rhyer 7/18/79

See pages 17 & 20 of 1-26-81

1-31-79 SEE PAGE 20 of 20 of 1-3-81

BLOCK 23 OF NCR 2283:

Project Engineering has reviewed the above Nonconformance Report and notes the following:

1) After NCR 2283 was generated, 3 additional ultrasonic tests were performed on the noted anchor bolts to ascertain the anchor's true length. Using the results from the three tests, the actual nonconforming condition has been restated in IOM QCFM 7672 dated 3/18/80 (attached).

2) Specification 7220 C-305 has been revised to include embedment depth of the anchor after torquing, since torquing reduces the original embedment depth of the anchor, as identified in the specification.

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

25. DISPOSITION RESULTS

26. DC ACCEPTANCE

27. AUTHORIZED INSPECTOR

28. DATE

29. DATE

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Item 2: UB 2AJ1016, 1st Support right, ~~2.25" embedment~~ 2.25 is required. Top anchor has 2.125"

Item 3 Supports for 2BKNO1 E 617 Sh1 \approx 2' S of H & 1' E of 7.4 Outside anchors
Top right has 2" and bottom right has 1.75" embedded. $\frac{1}{2}$ " requires 2.25" for $\frac{1}{2}$ " anchors

Item 4 Support for 2DTAO3 E-617 Sh1 \approx 10' S of K @ 7.4 Bottom right anchors
has 2.0" embedment Should be 2.25" for $\frac{1}{2}$ " anchors

Item 5 Support # 799-15 Service H₂O Bldg \approx EL 646' Present embedments
Bottom left 2.25", Top right 2.5", Bottom right 2.5", Required 5.0" for $\frac{3}{4}$ " anchors

Item 6 Support 799-2 Service H₂O Bldg \approx EL 641' Present embeds -
Left 2.0', right 1.875 2.75" required for $\frac{5}{8}$ " anchors

Item 7 Support 799-4 Service H₂O Bldg. \approx EL 641' Present embeds -
Both anchors 2.25" $\frac{5}{8}$ " anchors should be 2.75"

Item 8 Support # 426 FSK 116 Service H₂O Bldg \approx EL 640' Present embeds -
Bottom left 3.0", Bottom right 3.0" 5.0" required - $\frac{3}{4}$ "

Item 9 Support # 425 FSK 116 Service H₂O Bldg \approx EL 640' Present embeds -
Bottom left 3.0", Bottom right 2.875 $\frac{3}{4}$ " anchors require 5.0" embed.

Item 10 Support 743-73 E 743 (Wall Plate) Present embeds - Top 1.5,
Bottom 1.75 should be 2.25 for $\frac{1}{2}$ "

Item 11 Support 625-2-51 Aux Bldg. DWG E-625 Present embeds -
Top left 2.75", Top right 2.25", Bottom left 3.25", Bottom right 2.50" $\frac{5}{8}$ " anchors
embed required



21 JAN 1961 1438 18-22-50
5-12-80 5-30-14-81
3 DE 13 19 19 NCR NO 2283

CONFIDENTIAL

NONCON

Item 12 Support 625-2-52 E 625 Present embedded 2.5" 5/8" anchors, embedded should be 4" right 2.375" Bottom right 2.5" 5/8" anchors, embedded should be 4" Bottom left 2.5" Top

Item 13 Support 624-2-29 E-624 (Ceiling) Present embedded lgths. - NE 1.125" NW 3.0" Embedded lgth should be 3.25" 3/4 anchors

ITEM 14 Support 636-44 QC Rollout E 636 Present embedded lgths. - Top 2.875" Bottom 2.75" Should be 5" 3/4 anchors

ITEM 15 Support 636-42 QC Rollout E 636 Present embedded lgths. - Top left 3.0 Bottom left 3.0" Should be 5" 3/4 anchors

ITEM 16 Support 639-14 QC Rollout E 639 Present embedded lgths. - All 4 anchors 3.5" should be 5.5" This support requires 7/8" anchors and 3/4" are installed

ITEM 17 Aux Bldg 638' Support for 1AJD022, 023 E - Present embedded lgth. - Top left 2.0" Top right 1.5" Should be 2.25" for 1/2" anchors

ITEM 18 2AJ304 E-536 EL 599' Present embedded 1.265" Should be 1.625" for 3/8" anchors

28J1470
9/1/61

18 Hold Tags applied to supports

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NONCONFORMANCE REPORT (CONT'D)

20 PAGE

8

OF

13

19 NCR NO

2283

- ITEM (1) Retested 6-23-79 Acceptable ✓
- ITEM (2) Left anchor embedment 2.125" Required 2.25" "USE AS IS"
- ITEM (3) Retested 6-23-79 Acceptable. ✓
- ITEM (4) Retested 6-23-79. Acceptable. ✓
- ITEM (5) Upper & Lower bolts on RT. side were drilled out for verification. project to design new support, as bolts on left side will not be reused. They are off square more than 3 degrees
- ITEM (6) Retested 6-23-79 Acceptable Right anchor had been core drilled for verification. Field to grout in new anchor bolt.
- ITEM (7) Retested 6-23-79 Acceptable ✓
- ITEM X (8&9) Retested 7-3-79 4" embedment Acceptable per DCN-80 sh.1 E-42(Q) sh 314A. ✓
- ITEM (10) Retested 7-3-79 Embedments top 1.625" Bottom 1.65" Required 2.25" Project to disposition
- ITEM (11) Retested 7-3-79 Embedments are TL-3.5", BL-3.25" TR-3.0, BR-Core drilled. Minimum embedment required -3.25" Per DCN-80 sh 1 E-42(Q) PROJECT TO DISPOSITION.
- ITEM (12) Retested 7-3-79 Embedments are TL-3.25", TR-3.125", BL3.25", BR-3.25". Minimum embedment required is 3.25". PROJECT TO DISPOSITION. *Retest to original*
- ITEM (13) In (Q) DECK. Retested 7-9-79. Embedments are NE-2.815, NW-3.0. PROJECT TO DISPOSITION.
- ITEM (14) (Should be 639-44) Retested 7-3-79 Embedments are Top-3.88", Bottom-3.75". PROJECT TO DISPOSITION.
- ITEM (15) (Should be 639-42) Retested 7-9-79. Embedments are TL-3.775, BL-3.0" PROJECT DISPOSITION.
- ITEM (16) (Should be 636-14) All embed lengths are 3.5" PROJECT TO DISPOSITION.
- Item (17) Retested 6-23-79. TL embed- 2.0" PROJECT TO DISPOSITION.
- ITEM (18) Retested 6-23-79 Acceptable.

[Signature]
7-3-79



Corrected Copy

NONCONFORMANCE REPORT (CONT'D)

20 PAGE 4 OF 13 19 NCH NO 2283

- ITEM (1) Retested 6-23-79 Acceptable
- ITEM (2) Left anchor embedment 2.125" Required 2.25" "USE AS IS"
- ITEM (3) Retested 6-23-79 Acceptable.
- ITEM (4) Retested 6-23-79. Acceptable.
- ITEM (5) Upper & Lower bolts on RT. side were drilled out for verification. project to design new support, as bolts on left side will not be reused. They are off square more than 3 degrees
- ITEM (6) Retested 6-23-79 Acceptable Right anchor had been core drilled for verification. Field to grout in new anchor bolt.
- ITEM (7) Retested 6-23-79 Acceptable
- ITEM * (8&9) Retested 7-3-79 4" embedment Acceptable per DCN-80 sh.1 E-42(Q) sh 314A.
- ITEM (10) Retested 7-3-79 Embedments top 1.625" Bottom 1.65" Required 2.25" (Project to disposition)
- ITEM (11) Retested 7-3-79 Embedments are TL-3.5", BL-3.25" TR-3.0, BR-Core drilled. Minimum embedment required -3.25" Per DCN-80 sh 1 E-42(Q) (PROJECT TO DISPOSITION.
- ITEM (12) Retested 7-3-79 Embedments are TL-3.25" , TR-3.125", BL3.25", BR-3.25". Minimum embedment required is 3.25". PROJECT TO DISPOSITION.
- ITEM (13) In (Q) DECK. Retested 7-9-79. Embedments are NE-2.815, NW-3.0. PROJECT TO DISPOSITION.
- ITEM (14) (Should be 639-44) Retested 7-3-79 Embedments are Top-3.88", Bottom-3.75". PROJECT TO DISPOSITION.
- ITEM (15) (Should be 639-42) Retested 7-9-79. Embedments are TL-3.775, BL-3.0" PROJECT DISPOSITION.
- ITEM (16) (Should be 636-14) All embed lengths are 3.5" PROJECT TO DISPOSITION.)
- Item (17) Retested 6-23-79. TL embed- 2.0" (PROJECT TO DISPOSITION.
- ITEM (18) Retested 6-23-79 Acceptable.

Corrected Copy

E 617 Sh 1
09/08
2BTB07
EL 626-8 ON.

2BJR07
EL 627-8 ON.

FIRE BR 2122
EL 626-8

2BKA07
EL 628-4 ON.



2BKA01
EL 622-7

2BTA ENDS
EL 622-6

2BJA EL 623-1
2BTA EL 622-6

2BJA01 EL 623-10
2BJA02

2BTA EL 624-4
ON TO EL 622-6
CARRIER EL 626-8

2BKA ENDS
2BJA ENDS

2BNY05
2BJA01 EL 623-10

2BNY EL 623-3
2BNY EL 623-3

2BKA EL 625-6
2BJA EL 624-6
2BKA EL 623-6
2BJA EL 622-6

2BKA01 EL 623-10
2BJA01 EL 623-10
2B56

2BKA EL 625-6
2BJA EL 624-6
2BKA EL 623-6
2BJA EL 622-6

2BKA ENDS

2BJA

45

5-22-80
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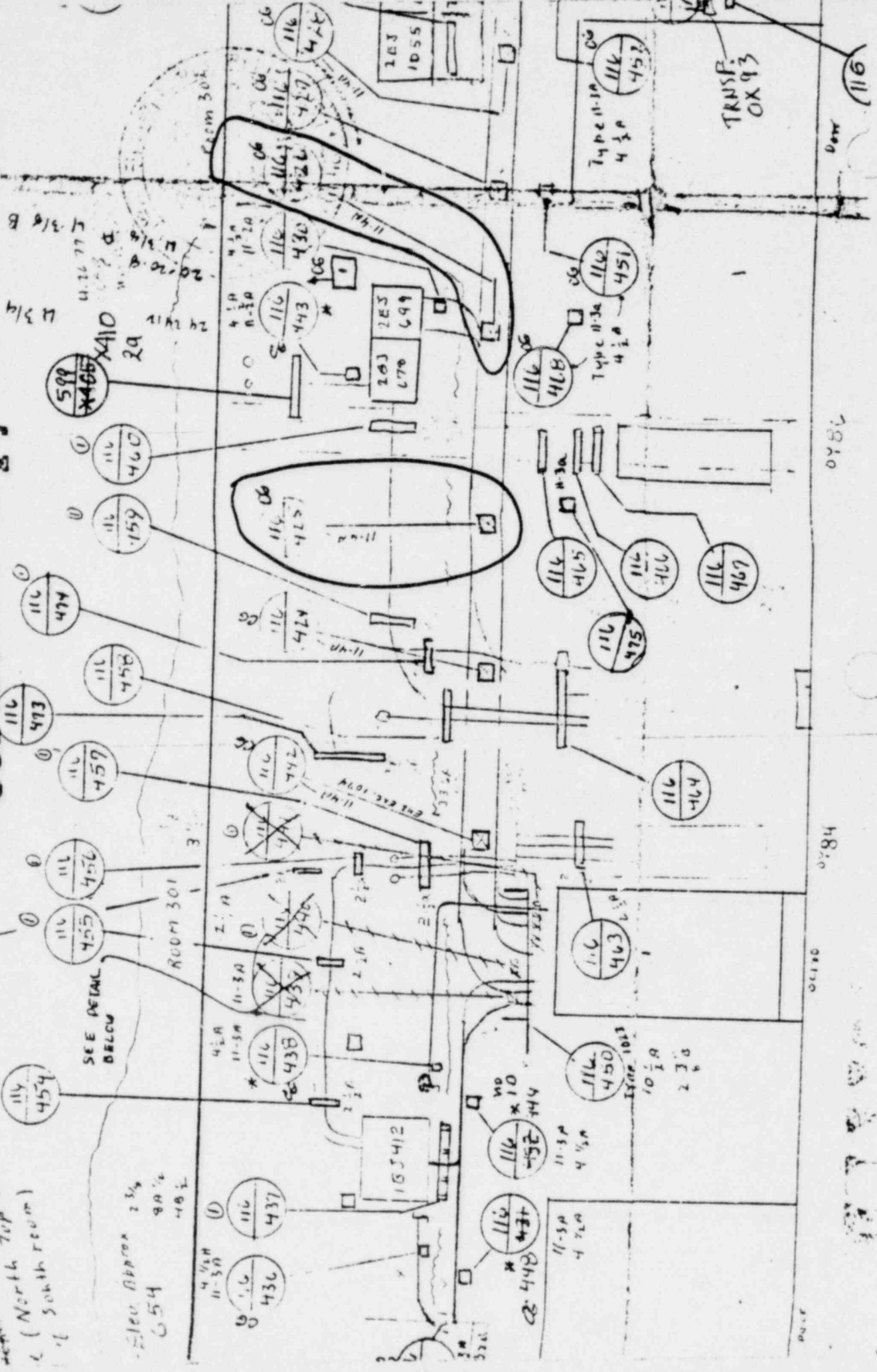
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 (North room)
 (South room)

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234
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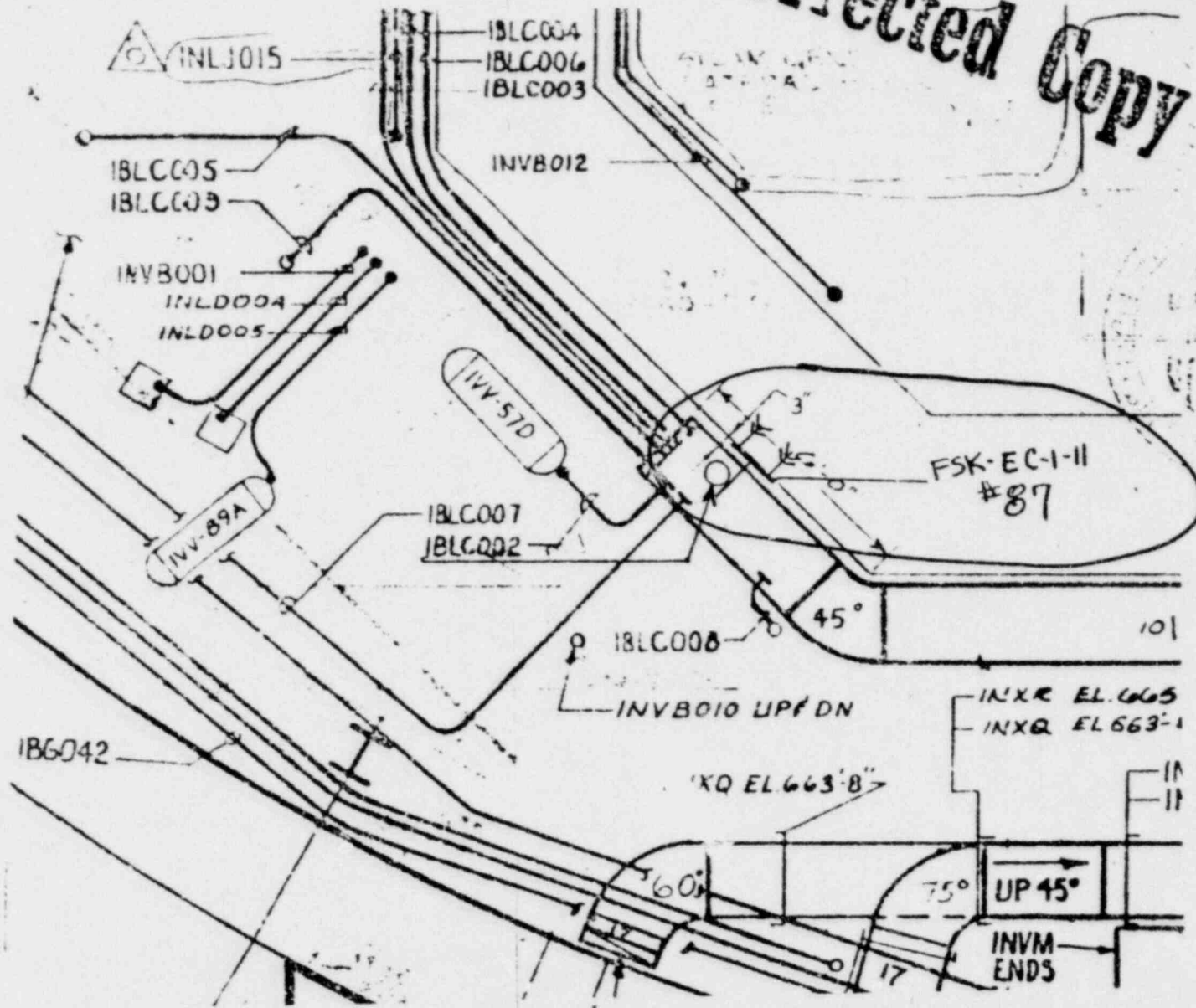
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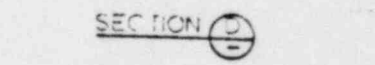


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FSK EC 1-11-Spt #87

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JST
1-14-81
6-22-80

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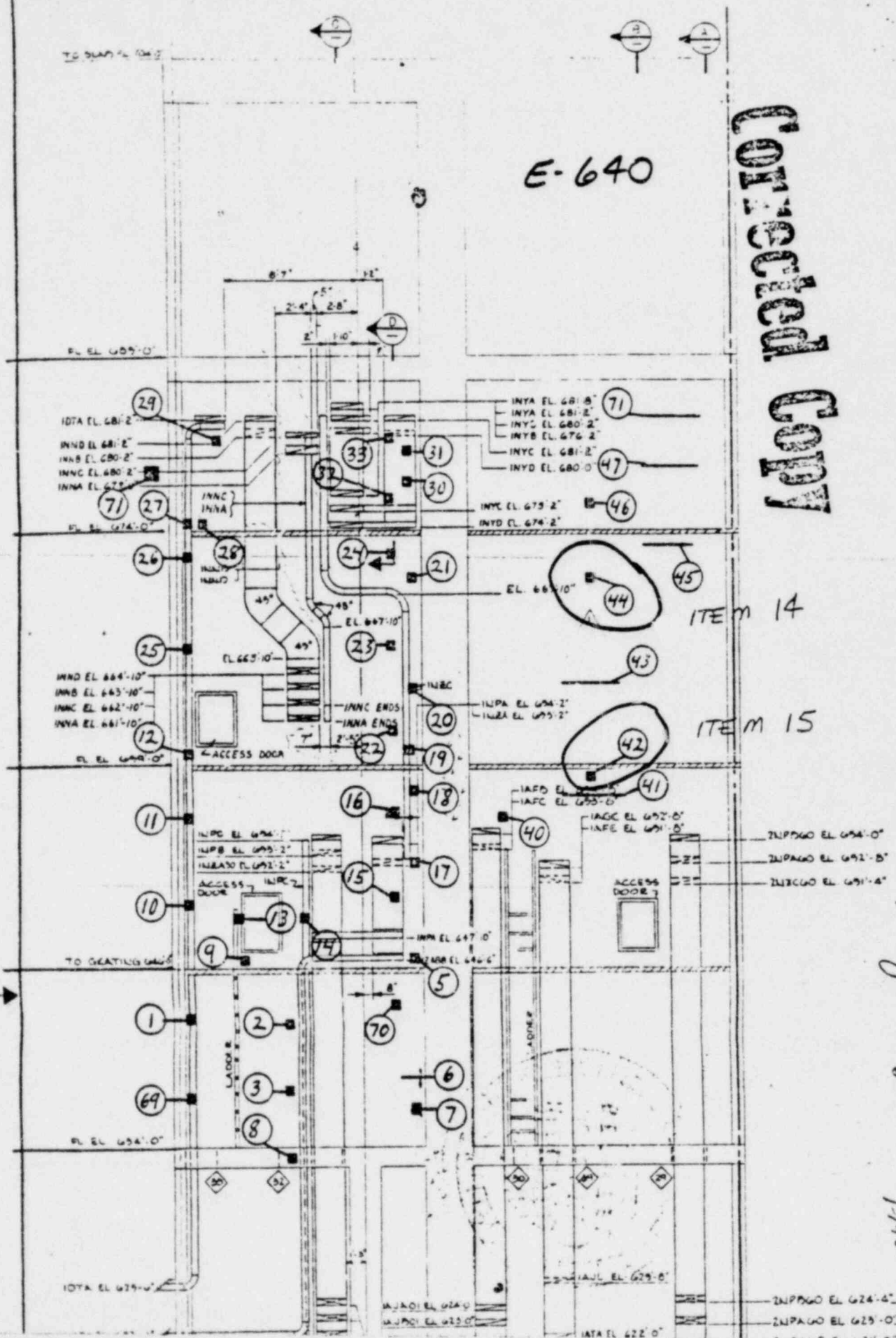


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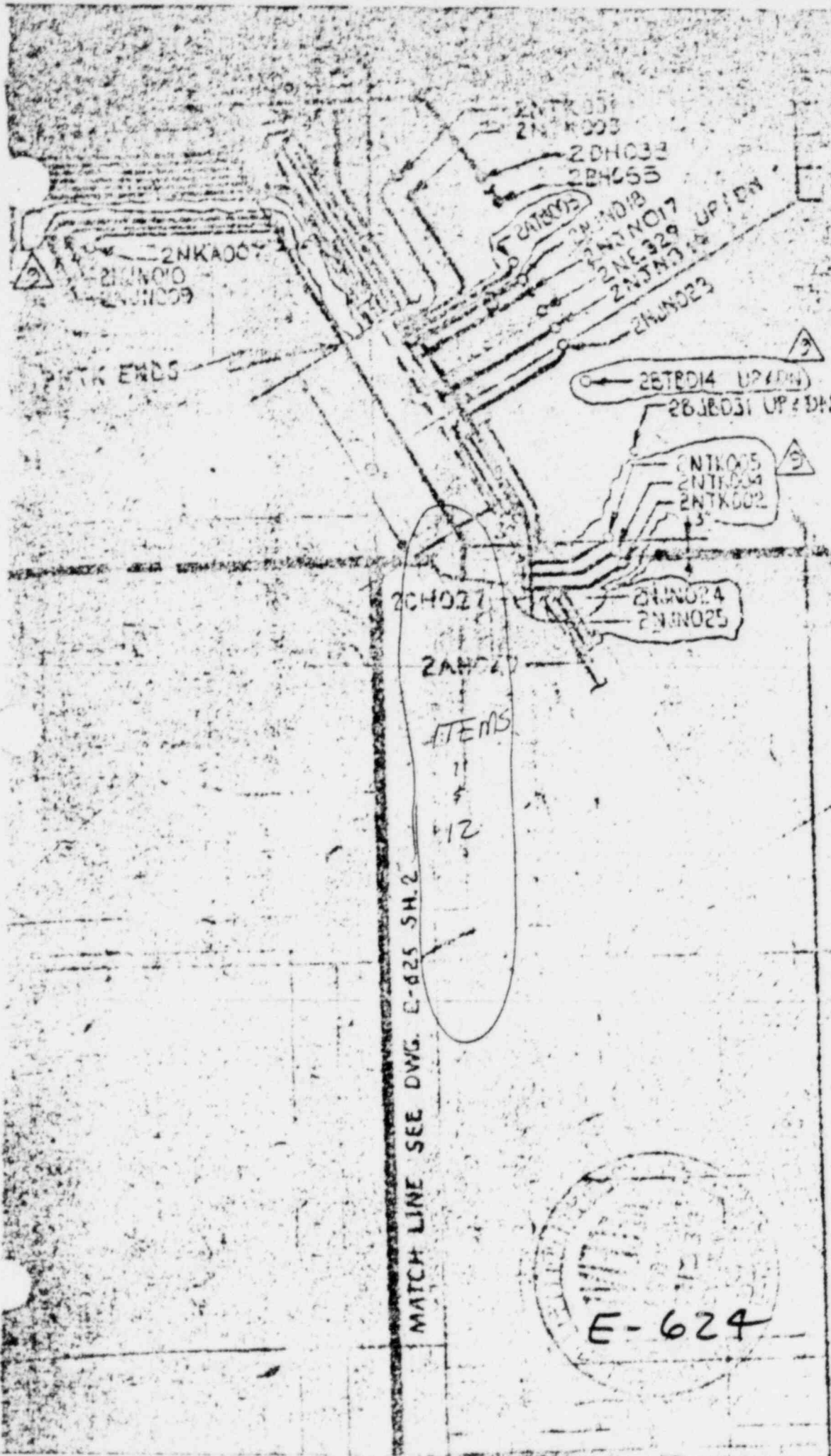
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ITEM 14

ITEM 15

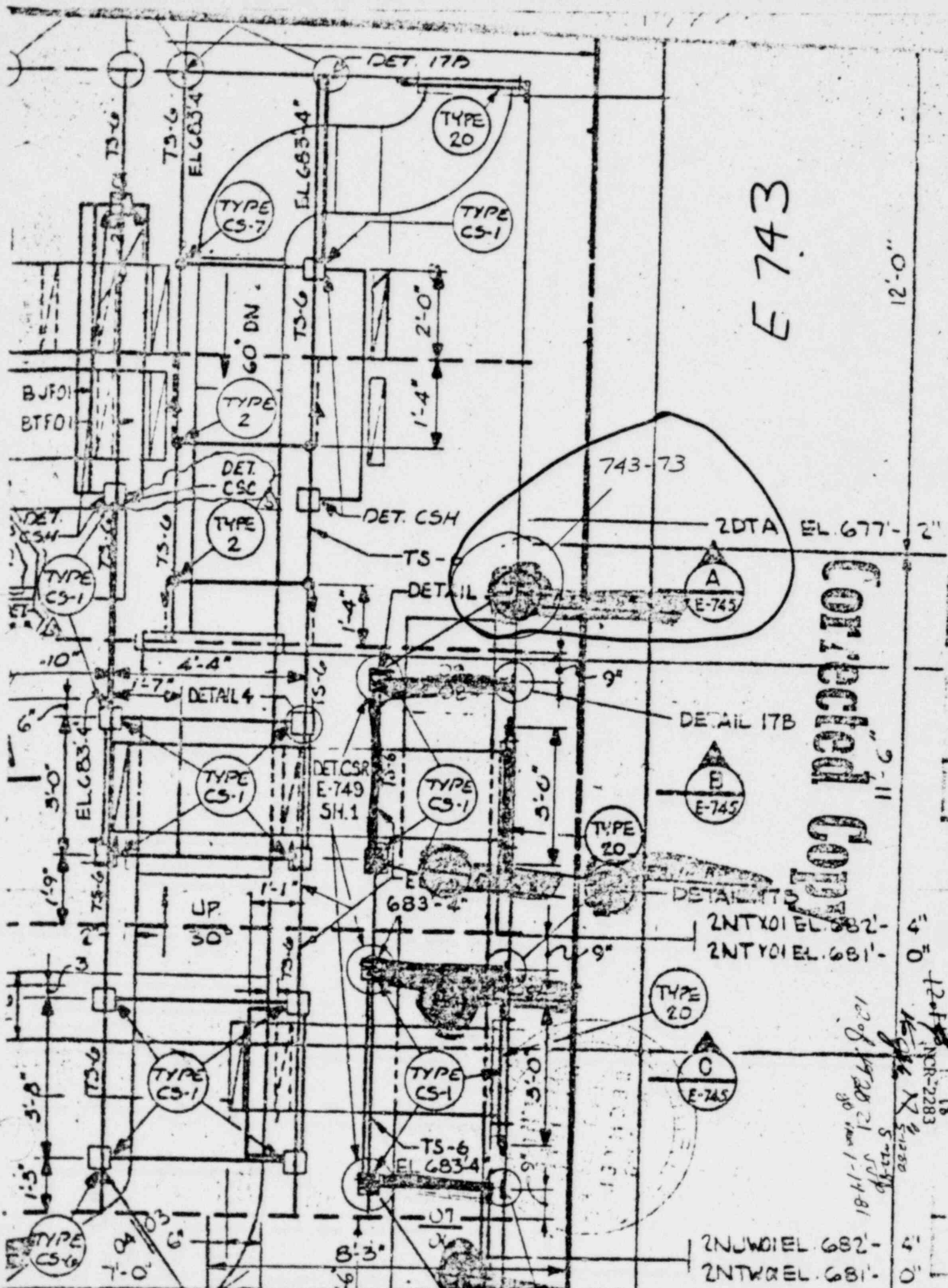
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E-624

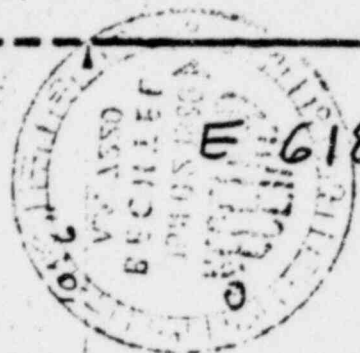
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Koppe 17/12/88
1/10/1920
5-22-88
1/1/88



130F-15 15-84 12051200
NCR-2283 48 5-22-80
3 of 1420 21 1-14-81
88 Jans

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MATCH LINE FOR CONT.



E 618 sh1

3'x3'-4" PULLBOX
IN CONCRETE



AJ122

4'-6"

IAKBO1 ENDS @ EL 634'-2"

TRENCH DUCT

SEE DNG 1-5-81

IAJDE EL 643'-6"

SEE DNG E-634
FOR CON. INJECTION

7'-6"

IAJD EL 642'-0"

1POT
0322



INE478
IAJDO34
2AE088
2NE484
2BE043

IAJDE EL 642'-3"



INJ002

INJ007

INJ003

IAJBO1

2'-8"

1BE043

IAJDO8

3'-0"

IN 12-80
SEE LET 9



IAJD08

TO TRENCH DUCT

IAJDO2 & IAJDO3

INTD023

INE495
INJF021
INJF025
INJF016
INJF017
INJF018
INJF023
2NE581

2NE

IAJDO16

IAJDO32

INJF030

INTD017

2BJ018

2NJ017

2BE

2NJ

INJF EL 641'-3"

1277



Corrected Copy

16 gpm 1X 0/3 12 80
 44 03 18 5-22-81
 19 22 19 NCR NO 2283
 20 21 JAVS 197481

Blk. 16 cont.)

A conditional release is granted to rework anchors on item #17. Corrections or removal can be accomplished without causing damage or contamination to associated plant equipment or structure.

W. T. [Signature]
 PFE

2-14-80
 Date

[Signature]
 PFQCE

2-14-80
 Date

R. C. Holler
 LQAE

2-14-80
 Date

BLOCK 23 (Cont.)

- 3) Items 1, 2, 3, 4, 6, 7, 17 and 18: These anchors meet the minimum embedment depth after torquing as defined in Specification 7220 C-305. Therefore, Project Engineering recommends use-as-is.
- 4) Items 5, 8, 9, 10, 11, 13 (North West Anchor), 14, 15 and 16: The actual loads on these anchors are less than the allowable design loads for similar diameter anchors with embedment depth less than those anchors identified. Therefore, Project Engineering recommends use-as-is.
- 5) The N.E. Anchor identified in item 13 is to be reworked to the original criteria in accordance with Spec: C-305
- 6) Items 5, 6, and 11: Anchors in which coredrilled samples were taken to verify embedment depth shall be reworked in accordance with specification 7220 C-305.

REF. TO CALCULATION NO. 20-47

[Signature]
 4/30/80

[Signature]
 5/5/80



QCFM-7672/AI-875

Bechtel Power Corporation
Inter-office Memorandum

JOB 7220	
PROJECTOR	WLB-20-8
ASST. PR.	
ASST. PR.	
ASST. PR.	
MECH.	
CS	
PC	2
OS	1
FIELD	
CONST. COORD.	
FSAR	
FILE NO.	0434

To L. H. Curtis
Subject Midland Project, Unist 1&2
Hilti Stud UT Tests

Date March 18, 1980
From W. L. Barclay
Of Quality Control
At Midland, Michigan
Job No. 07220

Copies to R. A. Simanek
L. E. Davis

Reference: a) IOM No. 2/21/71 from LHCurtis dated 3/5/80

This is considered Quality Control's complete response to reference a) above.

Below is listed the actual embedment depths for the anchors identified on NCR 2283. In accordance with the information from M&QS that the UT provides readings of less than or equal to the actual length, embedments were calculated from the longest recorded lengths on the test reports attached with correspondence referenced in reference a) above.

Item No.	Anchor Size	Embedment Depth
1	1/2"	top L. 2.82", top R. 2.86"
2	1/2"	2.125"
3	1/2"	top R. 2.75", bottom R. 2.60"
4	1/2"	2.75"
5	-	anchors coredrilled, support to be reworked
6	5/8"	L. 2.75", R. coredrilled, grouted anchor installed
7	5/8"	L. 2.97", R. 3.0"
8	3/4"	L. 4.03", R. 4.68"
9	3/4"	L. 4.1", R. 3.915"
10	1/2"	top 1.675", bottom 1.8"
11	5/8"	top L. 3.5", bottom L. 3.25", top R. 3.0", bottom R. coredrilled
12	5/8"	top L. 3.25", bottom L. 3.25", top R. 3.125", bottom R. 3.25"
13	3/4"	N.E. 2.34", N.W. 3.18"

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NCR 2283
PAGE 15 OF 18

3/26/80

Signature

NCR 2283 10917 08 215 11/12/80

Mr. L. H. Curtis
March 18, 1980
Page No. 2

Bechtel Power Corporation

14	3/4"	top 3.875", bottom 3.75"
15	3/4"	top L. 3.85", bottom L. 3.1"
16	3/4"	all lengths 3.5"
17	1/2"	top L. 2.0", top R. 2.29"
18	3/8"	top R. 1.875"

If you have any further questions concerning the above, please refer to the correspondence listed in reference a) above.

W. L. Barclay
W. L. BARCLAY
PROJECT FIELD QUALITY CONTROL
ENGINEER

^{WLB}
WLB/DCT/AML/jmk

Response Required: NO

Corrected Copy

NCR 2283
PAGE 16 OF 18
14481





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NONCONFORMANCE REPORT (CONT'D)

20. PAGE 17 OF 18 5-12-80 19. NCR NO. 2283

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
X	X		X
as noted in block 23			
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
			X
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
X			
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
X			X
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
X			X
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

Sign off block
For added disposition for added disp
of page 19. JTP
of pg. 18
1-14-81
lined out because
need project engineer
signature in block 24.



Corrected Copy

BLOCK 22 (CONT'D)

REF. BLOCK 23 ITEM #6 (PAGE 14) ITEM 11, THE ANCHOR AT THE BOTTOM RIGHT CORNER WAS NOT COREDRILLED AND THEREFOR FIELD RECOMMENDS "USE AS IS" LETTER CFCFM-7672/AI-075 ITEM 11 INDICATES BOTTOM R. COREDRILLED. THIS IS INCORRECT INFO.

Riffack 4/24/80
BOM 5/22/80

BLOCK # 23 (CONT.)

Per clac #20-47(Q), page 33: "The design capacity of a 5/8" (DIAMETER) anchor with embedment of 2 1/2 inches in 4000 psi concrete is 1.8k. (ref spec C-305). The max. load on the above anchors is 1.4k. "

Therefore project engineering concurs with the recommended field engineering disposition of "use as is."

MAF
6/10/80

Dennis A. Zane
6-10-80

PAH
6/11/80

No co-ordination required.

(Block 16 continued)

Collected Copy

Item #18, page 3, was retested as per page 15 and 16. IT was determined that the actual embedment was 1.875 (1 7/8"), which is conforming as per C-305.

Page 14, Block 23 Cont, Item #3, recommends a use as is disposition, for Item #18, page 3.

Contrary to the project disposition, C-305 Spec., Field pulled out 3/8" Q Anchor, for Item #18, redrilled hole to 1/2" Q & installed a 1/2" Q anchor inside of unit. E-42, sheets 601 & 343 Detail C-1 Alt. 2. Require 3/8" Q

Anchors for use inside of unit.

Therefore, Item #18, which was conforming as per C-305 Spec. & project disposition is now a nonconforming condition.

Hold for engineering disposition

Q List # 1.102, 1.202, 1.302 & 1.502

Hold Tags previously installed, 1 new Hold Tag, applied to Item #18

Project # 1-14-81

1-14-81

1-14-81



(Block 22 CONTINUED)

~~Corrected Copy~~

Item #18 Page 19

Anchor will be pulled / Grouted / Replaced @ $\frac{3}{8}$ PER
E-42Q sht 343

~~Robert B. Infield 1-22-81
N. J. 1-23-81
E. J. 1-25-81~~

(Block 22 Continued)

Item #18 Page 19

Field Engineering recommends "use as is" since the substitution
of a $\frac{1}{2}$ " expansion anchor in lieu of a $\frac{3}{8}$ " represents a greater than
substitution. (Ref. FEA-3452 which was written to establish the
acceptability of this substitution)

~~Ed Baker 5-8-81~~

~~BLOCK 22 (CONT)~~

~~RECOMMENDS TO SPINNER SUPPORT READING WITH EXPANSION
ANCHOR HELD AND FIELD PER LONG (4250). DUE TO POSSIBILITY OF DISTORTION OF
FIELD MIN/IN INACCURATE TOOTHE READING .72" & EXPANSION ANCHOR NOT
IS UNACCEPTABLE. (NO LONG/511C (CHANCE REQUIRED))~~

~~James P. Baker (1E115) (C-3080)~~

~~1-23-81~~



BLOCK 23 (CONST.)

PROJECT ENGINEERING RECOMMENDS THAT THE ANCHOR BOLT INSTALLATION TORQUE VALUE BE CHECKED IN ACCORDANCE WITH SPEC 7200 C-305(Q) AND IF FOUND ACCEPTABLE, USE AS IS. THE SUPPORT IS INCORPORATED INTO DWG E-42B(Q) BY DCN AS EXCEPTION SUPPORT NO. 1737. IF THE TORQUE VALUE IS NOT FOUND TO BE ACCEPTABLE REWDICK THE SUPPORT REPLACING BOTH THE EXPANSION ANCHOR BOLT AND THE P1000 UNISTRUT AS PER DWG E-42B(Q) NOTE: IN EVENT THAT THE SUPPORT IS REWORKED A FCN MUST BE ISSUED TO DELETE THE EXCEPTION SUPPORT NO. (DWG E-42B(Q) REVISED) James A. Vander Bee
(REM NO C-3080) REF DCN #29 E-42B(Q) *Taylors*

JCH-11-16-81

Jay D. Waine for BPK
QE & Smyth 12-9-81*M. L. Brown for L. H. Curtis 12-9-81*



NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1366		20. PAGE 1 OF 2																																									
2. UNIT(S) #2	3. DRAWING/PART NO. M-604-7	REV 5/F2	4. ITEM DESCRIPTION 2 1/2"-CCB-CK-1 Valves		5. ITEM LOCATION Aux. Bldg. East Area 3, Elv. 605'																																										
6. P.O. OR SPEC NO. M-123C	7. SERIAL NO. See Block #16	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE Construction	10. CONTRACTOR/SUPPLIER Anchor/Darling Valve Company																																										
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. P-1.30-604-7-8 NOM-204, Rev. 8	12. ASME AUTHORIZED INSPECTION REQ'D (X) YES () NO		13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec'g (X) Const () Test	15. Equip Furnished By () Client (X) Eng () FLD																																								
16. NONCONFORMING CONDITION: Check valves 2 1/2"-CCB-CK-L (404-2-075) S/N 2N-799 and 2 1/2"-CCB-CK-1 (404-2-061) S/N 2N-789. The above valves are missing the Hinge Pin Covers. Since these covers are part of the pressure retaining boundary of the valve, the integrity of the valves are indeterminate and therefore non-conforming. *Q" List Material #4.0410. 2 QC Hold Tags Applied around bonnets. Hold For Engineering Disposition.					24. DISPOSITION CONCURRENCE <table border="1"><tr><td>rework</td><td>reject</td><td>repair</td><td>use as is</td></tr><tr><td><i>[Signature]</i></td><td></td><td></td><td></td></tr><tr><td>PROJECT FIELD ENGINEER</td><td></td><td></td><td></td></tr><tr><td>DATE 7/5/78</td><td></td><td></td><td></td></tr><tr><td>PROJECT ENGINEER</td><td></td><td></td><td></td></tr><tr><td>DATE 7/5/78</td><td></td><td></td><td></td></tr><tr><td>PROJECT CONSTRUCTION ENGINEER</td><td></td><td></td><td></td></tr><tr><td>DATE 7/7/78</td><td></td><td></td><td></td></tr><tr><td>AUTHORIZED INSPECTOR</td><td></td><td></td><td></td></tr><tr><td>DATE 7/7/78</td><td></td><td></td><td></td></tr></table>			rework	reject	repair	use as is	<i>[Signature]</i>				PROJECT FIELD ENGINEER				DATE 7/5/78				PROJECT ENGINEER				DATE 7/5/78				PROJECT CONSTRUCTION ENGINEER				DATE 7/7/78				AUTHORIZED INSPECTOR				DATE 7/7/78			
rework	reject	repair	use as is																																												
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PROJECT CONSTRUCTION ENGINEER																																															
DATE 7/7/78																																															
AUTHORIZED INSPECTOR																																															
DATE 7/7/78																																															
17. REPORTED BY <i>L. Brown</i>		DATE 5-26-78		18. VALIDATED BY <i>KAN</i>		DATE 5-26-78																																									
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)																																															
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering																																															
Field to order replacement parts, <i>7/3/78</i>																																															
Valve will be reassembled in <i>7/5/78</i>																																															
accordance with manufacturers instructions. <i>7/14/78</i>																																															
23. PROJECT ENGINEERING DISPOSITION																																															
25. DISPOSITION RESULTS Replacement parts ordered on FMR-001-2511 dated 6-2-78 Shunt 7-5-78 Valve (404-2-061) S/N 2N-789 was disassembled and reassembled per vendors maintenance manual M123c-46-3. See copy of Field Inspection Report (attached) One Hold Tag Removed. A.I. W. Mc Dougall not. find of work L. Omer 7/29/81 CONTINUED ON Pg. 2 26. QC ACCEPTANCE <i>Ed Kalemira</i> QC ENGINEER <i>Ed Kalemira</i> AUTHORIZED INSPECTOR DATE 7/22/82 DATE 7/22/82																																															

BLOCK 16 (CONT)

A conditional release is granted to weld up valve S/N 404-2-075. This valve is retrievable at any time during construction.

PFC

7/17/78
DATE

PFC

7/17/78
DATE

LQRE

7/17/78
DATE

A.I.

7-17-78
DATE

BLOCK 25 (CONTINUED)

CHECK VALVE (404-2-075) S/N 2N-799 WAS REASSEMBLED PER VENDOR'S INSTRUCTIONS 7220-M123-46-3. SEE COPY OF FIELD INSPECTION REPORT, PAGE 5 AND 6 OF THIS REPORT. ONE HOLD TAG REMOVED.

Ed Kalembo 2/22/82



FIELD INSPECTION REPORT

3. RECORD CONTROL

CONTROL NO. 11/1/80FILE NO. 661. PROJECT NO. 07220 2. DATE 1/28/81 PAGE 1 OF 24. ITEM INSPECTED Work to close NCR 1366, Valves missing hinge pin
cover. Valve (404-2-061) S/N: 2N-789 PI-30-604-7-2 (rev 1)
log # 9148

(Continued on page 2)

5. LOCATION Aux Bldg. Elev. 606' 3'-3" East of 7.4 at E line6. TYPE OF INSPECTION Visual7. STANDARD / CODE / PROCEDURE / DRAWING / SPECIFICATION M204 rev 14, Vendor Dwg (Mfr. Inst.)
M123C-46-38. INSPECTION EQUIPMENT USED Flash light, torque wrench9. RESULTS OF INSPECTION: SATISFACTORY ☒ UNSATISFACTORY ☐

10. ACTION TAKEN IF UNSATISFACTORY

INSPECTION ASSIGNED TO

R. Amos

ASSIGNED BY

C. L. L. L.QCE LEVEL II 1-25-81

IN ACCORDANCE WITH PSP-G-2.1 PARA 7.2

COMPLETED FORM REVIEWED BY

W. L. L.
QCE FORM # 1125/81Distribution:
White - QC Files
Canary - Originator

11. FIELD ENGINEER

R. Amos

QC-G1



CONTINUATION SHEET

3. RECORD CONTROL

CONTROL NO. N/A RDFILE NO. ↓ ↓1. PROJECT NO. 072202. DATE 1/28/814. PAGE 2 OF 2

5. BLOCK CONT'D

N/A

6. FORM NO.

QC-G1-1

7. REPORT NAME

Field Inspection Report - Reassembly of Valve 404261

8.

Block 4 continued

Valve (404-2-61) SN: 2N785 NCR 1366 P1-30-604-7-2
789 RD 1/29/81

The disassembly and reassembly of the valve was performed
under Q.C. surveillance

Valve internals were inspected and found to be clean and
free of damage

Materials which were replaced, were purchased on P.O.:
F28934 (AEO 7287) and F45518 (AEO 13653). The items which
were replaced are:

- 1.) hinge pin covers and gaskets (2 of each)
- 2.) hinge pin
- 3.) Pressure retaining gasket
- 4.) Four (4) studs and nuts for hinge pin cover

The 4 cast studs for hinge pin cover were torqued per
manufacturer's instructions with torque wrench BPC C306
CAL EXP DATE 6/9/81

Torqued 4 west studs for hinge pin cover and bonnet
studs per manufac. instruc. with torque wrench BPC C306
CAL EXP DATE 6/9/81

Distribution
White - QC Files
Canary - Originator

9. ENGINEER



FIELD INSPECTION REPORT

ISO: M604-7

3. RECORD CONTROL

CONTROL NO. NA

FILE NO. NA

1. PROJECT NO.

7220

2. DATE

2/19/82

PAGE

1

OF 2

4. ITEM INSPECTED WORK TO CLOSE NCR 1366, MISSING HINGE PIN
COVER ON CHECK VALVE 2 1/2" - CCB-CK-L (404-2-075)
S/N 2N-799, FOR ORIGINAL INSPECTION OF CHECK VALVE
REFER TO P-130-604-7-2 Log#9148. CHECK VALVE IS
ON 2 1/2" - 2CCB-8 ON DWG. M604 547 REV 14/FI

(CONTINUED ON PAGE 2)

5. LOCATION AUX BUILDING, el. 605', EAST WING WALL,
4'-3" EAST OF (74) & 20'-5" SOUTH
OF (E)

6. TYPE OF INSPECTION VISUAL

7. STANDARD / CODE (PROCEDURE) DRAWING (SPECIFICATION) M204 REV. 15 SCN. 27

VENDOR PROCEDURE (MFR. INST.) 8

7220-M123-46-3 (ANCHOR DARNING)

8. INSPECTION EQUIPMENT USED TORQUE WRENCH

ID. # BPC-6306

EXPIRATION DATE 6-18-82

INSPECTED BY

Ed Kalemba

-50-11

John Korman

IN ACCORDANCE WITH

MIL-STD-883C, 2.0

COMPLETED WORK

BY R. Korman

QC LEVEL 4

9. RESULTS OF INSPECTION:

SATISFACTORY ☒UNSATISFACTORY ☐

10. ACTION TAKEN IF UNSATISFACTORY

Distribution:
White - QC Files
Canary - Originator

11. FIELD ENGINEER

Edward Kalemba



CONTINUATION SHEET

ISO: M604-7

3. RECORD CONTROL

CONTROL NO. NA

FILE NO. NA

1. PROJECT NO. 7220

2. DATE 2/19/82

4. PAGE 2 OF 2

5. BLOCK
CONT'D
NA6. FORM NO.
QC-G1-1

7. REPORT NAME

FIELD INSPECTION REPORT

8.

BLOCK 4 CONTINUED:

CHECK VALVE (404-2-075) S/N 2N-799

THE REASSEMBLY OF THE VALVE'S HINGE PIN COVERS
WAS PERFORMED UNDER Q.C. SURVEILLANCE.PRIOR TO REASSEMBLY, HINGE PIN WAS INSPECTED AND
FOUND TO BE CLEAN AND FREE OF DAMAGE.

EX 2/19/82

MATERIALS WHICH WERE ~~INSPE~~ REPLACED WERE PURCHASED
ON P.O.'S F53281 (AEO-17085), F28934 (AEO-7287) AND
F45518 (AEO-13053) ITEMS REPLACED ARE:

- 1) HINGE PIN COVERS & GASKETS (2 OF EACH)
- 2) HINGE PIN
- 3) 4 STUDS AND NUTS FOR EACH HINGE PIN COVER.
(TOTAL 8 OF EACH)

STUDS FOR HINGE PIN COVERS WERE TORQUED PER
MANUFACTURERS INSTRUCTIONS WITH TORQUE WRENCH
BPC - C306 CALIBRATION EXPIRATION DATE: 6-18-82Distribution:
White - QC Files
Canary - Originator

9. FIELD ENGINEER

Edward K. Klement

B&W

Open NCR's

REPORT OF NONCONFORMITY

SEQUENTIAL NUMBER № 2159

REPORT OF NONCONFORMITY

1. JOB NUMBER CL-238	2. UNIT NUMBER #1	3. DATE 2-11-82	4. ITEM NAME Closure Head Stud	5. ITEM NUMBER Stud #21
6. VENDOR/MANUFACTURER Babcock & Wilcox	7. DISCOVERED DURING <input type="checkbox"/> RECEIVING <input type="checkbox"/> TEST <input checked="" type="checkbox"/> CONST.	8. REJECT TAG NUMBER 726	9. PROCEDURE NUMBER FCP #370	
10. SPECIFICATION NUMBER BPCo letter M-1A-B-1179 & B&W Manual #01-0280-02		11. DRAWING NUMBER 14213SE, Rev. 9	12. PRIOR REPORT OF NONCONFORMITY# N/A	
13. DESCRIPTION OF NONCONFORMITY Stud #21 was not detensioned simultaneously with Studs #1 and #41, as per B&W Instruction Manual #01-0280-02. Said Manual is referenced in BPCo letter #M-1A-B-1179, dated 10/10/81. The failure to simultaneously detensioning was due to a failure (equipment breakdown) of detensioning machine, serial number 1-75.				
14. REPORTED BY <u>J. J. [Signature]</u> <u>2-11-82</u> NAME DATE		15. VERIFIED BY <u>[Signature]</u> <u>2/11/82</u> NAME DATE		16. CORRECTIVE ACTION REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <div style="text-align: right;"><u>[Signature]</u> <u>2/11/82</u> FIELD PROJECT ENGINEER DATE</div>				
18. RECOMMENDED DISPOSITION: <input type="checkbox"/> N/A <input type="checkbox"/> REWORK <input type="checkbox"/> REPAIR <input type="checkbox"/> REPLACE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> ACCEPT AS IS				
19. TECHNICAL JUSTIFICATION/OR RECOMMENDED DISPOSITION INSTRUCTIONS B&WCC recommends "accept as is" of the discrepant condition. <div style="text-align: right;"><u>[Signature]</u> <u>2/12/82</u> FIELD PROJECT ENGINEER DATE</div>				
20. ACTUAL DISPOSITION: <input type="checkbox"/> REWORK <input type="checkbox"/> REPAIR <input type="checkbox"/> REPLACE <input type="checkbox"/> RETURN <input type="checkbox"/> ACCEPT AS IS				
21. DISPOSITION INSTRUCTIONS <div style="text-align: right;">_____ FIELD PROJECT ENGINEER DATE</div>				
22. APPROVALS B&W FCC _____ OTHER _____ SIGNATURE DATE SIGNATURE DATE OWNER/AGENT _____ OTHER _____ SIGNATURE DATE SIGNATURE DATE			23. ANI REVIEW _____ SIGNATURE DATE	
24. DISPOSITION COMPLETED _____ NAME DATE		25. DISPOSITION VERIFICATION <input type="checkbox"/> ACCEPTABLE <input type="checkbox"/> UNACCEPTABLE _____ NAME DATE REPORT OF NONCONFORMITY #		
26. CORRECTIVE ACTION <div style="text-align: right;">_____ FIELD PROJECT MANAGER DATE</div>				
27. NONCONFORMITY CLOSED _____ FIELD QUALITY CONTROL SUPV. DATE				

REPORT OF NONCONFORMITY

1. JOB NUMBER CL-238	2. UNIT NUMBER One	3. DATE 2-12-82	4. ITEM NAME Closure Head & Seal Plate	5. ITEM NUMBER N/A
6. VENDOR/MANUFACTURER B&W	7. DISCOVERED DURING <input type="checkbox"/> RECEIVING <input type="checkbox"/> TEST <input checked="" type="checkbox"/> CONST.	8. REJECT TAG NUMBER 730	9. PROCEDURE NUMBER FCP #369	
10. SPECIFICATION NUMBER 9-CP-101	11. DRAWING NUMBER N/A	12. PRIOR REPORT OF NONCONFORMITY# N/A		
13. DESCRIPTION OF NONCONFORMITY Unknown substance found splattered on seal plate and closure head. Substance has physical properties of glue or caulking. Chemical properties unknown at this time. or Feb 2-82				
14. REPORTED BY <u>[Signature]</u> 2-12-82 NAME DATE		15. VERIFIED BY <u>[Signature]</u> 2/12/82 NAME DATE		16. CORRECTIVE ACTION REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <u>[Signature]</u> 2-12-82 FIELD PROJECT ENGINEER DATE				
18. RECOMMENDED DISPOSITION: <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Rework <input type="checkbox"/> Repair <input type="checkbox"/> Replace <input type="checkbox"/> Return <input type="checkbox"/> Accept As Is				
19. TECHNICAL JUSTIFICATION/OR RECOMMENDED DISPOSITION INSTRUCTIONS Clean to remove the foreign substance from both the closure head & seal plate as outlined on Page 2. <u>[Signature]</u> 2/15/82 FIELD PROJECT ENGINEER DATE				
20. ACTUAL DISPOSITION: <input type="checkbox"/> Rework <input type="checkbox"/> Repair <input type="checkbox"/> Replace <input type="checkbox"/> Return <input type="checkbox"/> Accept As Is				
21. DISPOSITION INSTRUCTIONS _____ FIELD PROJECT ENGINEER _____ DATE				
22. APPROVALS B&W FOC _____ OTHER _____ SIGNATURE DATE SIGNATURE DATE OWNER / AGENT _____ OTHER _____ SIGNATURE DATE SIGNATURE DATE			23. ANI REVIEW _____ DATE _____ SIGNATURE DATE	
24. DISPOSITION COMPLETED _____ NAME DATE		25. DISPOSITION VERIFICATION <input type="checkbox"/> ACCEPTABLE <input type="checkbox"/> UNACCEPTABLE _____ NAME DATE REPORT OF NONCONFORMITY #		
26. CORRECTIVE ACTION _____ FIELD PROJECT MANAGER _____ DATE				
27. NONCONFORMANCE CLOSED _____ DATE				

REPORT OF NONCONFORMITY

JOB NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL-238	#1	2-15-82	2162

- * 1. Q.C. to obtain samples of the foreign substance and place into a clean plastic container. Forward to Engineering.

2. Clean to remove the foreign substance from both the seal plate and closure head by using spotcheck and demineralized water.

NOTE: If spotcheck and demineralized water is not sufficient, handwork using scotchbrite to aide in cleaning. Do not use a mechanical grinder. Wash all handworked areas with ~~scotchbrite~~ and demineralized water.

SPOTCHECK
WHH
2-15-82

3. Perform a leach test on the area of the seal plate only where the foreign substance was removed, PER Q-CP-100 - ~~WHH~~ 2-15-82

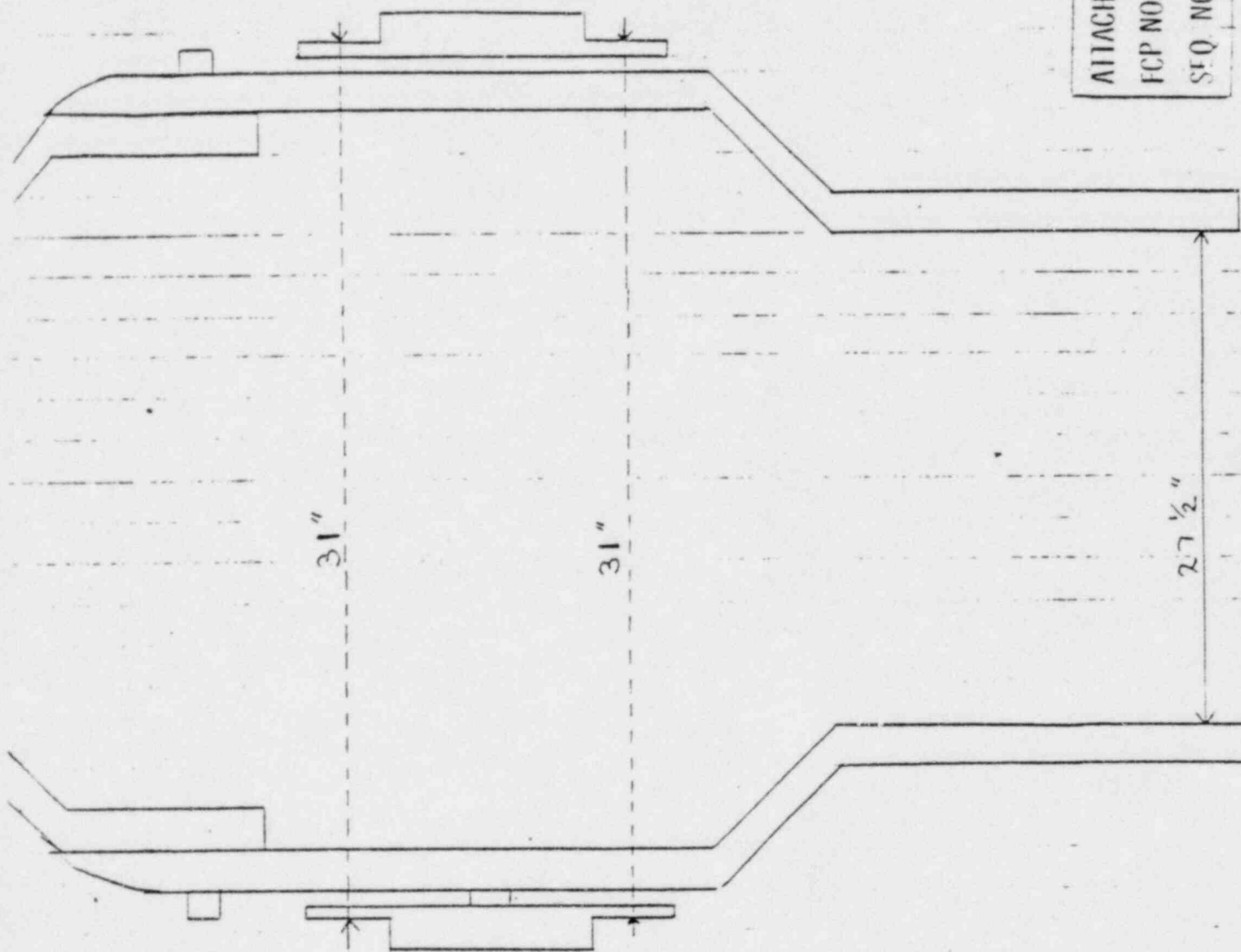
+++ NOTE: 1. If leach test results are unacceptable, contact Engineering for ~~futher~~ further determination.

2. If leach test is acceptable, this N.C.R. may be closed.

REPORT OF NONCONFORMITY

1. JOB NUMBER CL-238	2. UNIT NUMBER #1	3. DATE 2-17-82	4. ITEM NAME Fuel Trans. Carriage	5. ITEM NUMBER MK 1870
6. VENDOR/MANUFACTURER Stearns & Rogers		7. DISCOVERED DURING <input type="checkbox"/> RECEIVING <input type="checkbox"/> TEST <input checked="" type="checkbox"/> CONST.		8. REJECT TAG NUMBER 731
				9. PROCEDURE NUMBER FCP #406
10. SPECIFICATION NUMBER N/A		11. DRAWING NUMBER 22595-33, Rev. E		12. PRIOR REPORT OF NONCONFORMITY N/A
13. DESCRIPTION OF NONCONFORMITY During placement of the carriage on the fuel transfer rails, it was noted that the 5th set of wheels (counting east to west) would not fit on the rails. Subsequent investigation revealed revealed that the dimension, wheel flange to wheel flange is 32 1/4", the required dimension, per referenced dwg. is 31". A frame dimension was also noted to be incorrect, relative to the referenced dwg. The dwg. requires a dimension of 27 1/4" frame to frame, the dimension measured on the frame was 28 3/4". This measurement was taken at the 5th set of wheels, referred to above. See attached attached dwg., not to scale.				
14. REPORTED BY <u>James W. [Signature]</u> NAME DATE 2-17-82		15. VERIFIED BY <u>SL Tauber</u> NAME DATE 2/17/82		16. CORRECTIVE ACTION REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <div style="text-align: right;"><u>W.H. [Signature]</u> 2-17-82 FIELD PROJECT ENGINEER DATE</div>				
18. RECOMMENDED DISPOSITION: <input type="checkbox"/> N/A <input type="checkbox"/> REWORK <input type="checkbox"/> REPAIR <input type="checkbox"/> REPLACE <input type="checkbox"/> RETURN <input type="checkbox"/> ACCEPT AS IS				
19. TECHNICAL JUSTIFICATION/OF RECOMMENDED DISPOSITION INSTRUCTIONS <div style="text-align: right;">_____ FIELD PROJECT ENGINEER DATE</div>				
20. ACTUAL DISPOSITION: <input type="checkbox"/> REWORK <input type="checkbox"/> REPAIR <input type="checkbox"/> REPLACE <input type="checkbox"/> RETURN <input type="checkbox"/> ACCEPT AS IS				
21. DISPOSITION INSTRUCTIONS <div style="text-align: right;">_____ FIELD PROJECT ENGINEER DATE</div>				
22. APPROVALS B&W FOC _____ SIGNATURE DATE OWNER AGENT _____ SIGNATURE DATE			23. ANI REVIEW OTHER _____ SIGNATURE DATE OTHER _____ SIGNATURE DATE	
24. DISPOSITION COMPLETED _____ NAME DATE		25. DISPOSITION VERIFICATION <input type="checkbox"/> ACCEPTABLE <input type="checkbox"/> UNACCEPTABLE _____ NAME DATE REPORT OF NONCONFORMITY #		
26. CORRECTIVE ACTION <div style="text-align: right;">_____ FIELD PROJECT MANAGER DATE</div>				
27. NONCONFORMITY CLOSED <div style="text-align: right;">_____ FIELD QUALITY CONTROL SUPV. DATE</div>				

Note
DIMENSIONS
PER DRAWING
22595-33 REV E
(TYPICAL FOR ALL (6)
LOCATIONS)



ATTACHMENT/SKETCH NO. 1

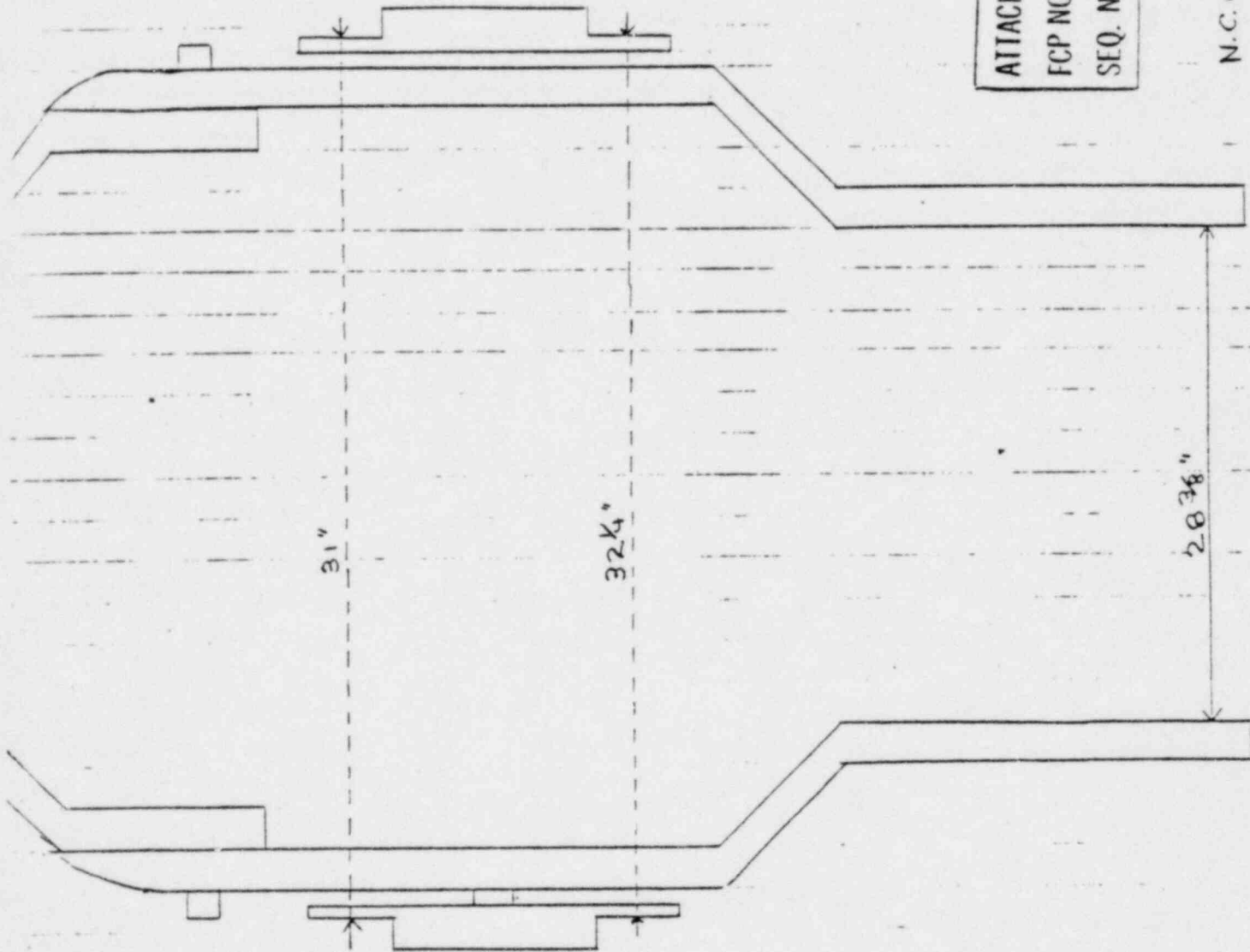
FCP NO. 406 UNIT NO. 1

SEQ NO. 070

N.C.R. # 2163

2/17/62

Job - CL-238



Note:
Actual Dimensions
Taken From Carriage
(Dimensions were
taken at the 5th
set of rollers from
the east end of
carriage)
2-16-82

ATTACHMENT/SKETCH NO. <u>2</u>	
FCP NO. <u>406</u>	UNIT NO. <u>1</u>
SEQ. NO. <u>070</u>	

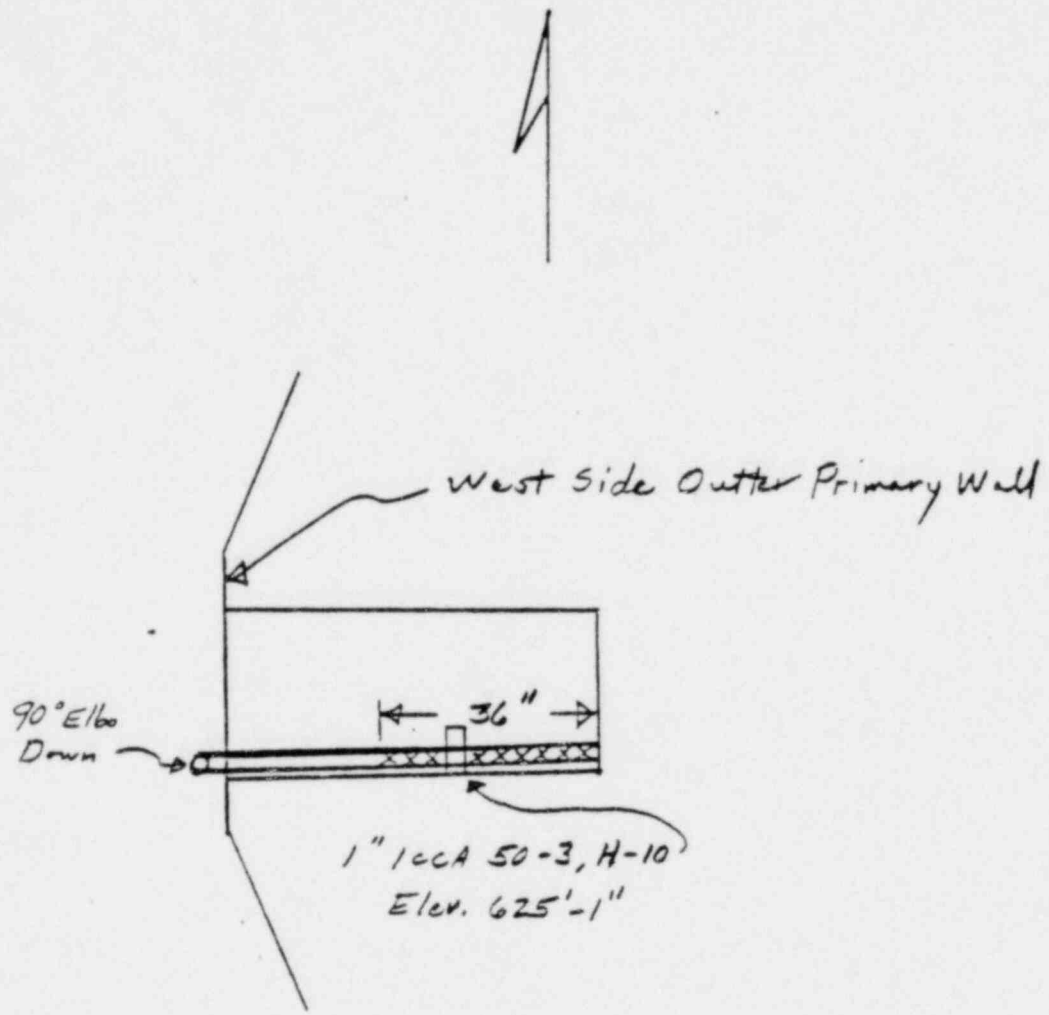
N.C.R. # 2163 / Job CL-238
2/10/82

REPORT OF NONCONFORMITY

1. JOB NUMBER CL-238	2. UNIT NUMBER #1	3. DATE 2-17-82	4. ITEM NAME 1" Pipe	5. ITEM NUMBER LCCA-50-3
6. VENDOR MANUFACTURER Sumitomo Corp.	7. DISCOVERED DURING <input type="checkbox"/> RECEIVING <input type="checkbox"/> TEST <input checked="" type="checkbox"/> CONST.	8. REJECT TAG NUMBER 732	9. PROCEDURE NUMBER FCP #357	
10. SPECIFICATION NUMBER ASME SA312 TP316	11. DRAWING NUMBER LCCA-50-3	12. PRIOR REPORT OF NONCONFORMITY: None		
13. DESCRIPTION OF NONCONFORMITY Hammered indentations noted in approximately a 36" section of 1" dia. pipe. These indentations were noted to be approximately 1/32" deep, raised metal was also noted around the indentations. These indentations were too numerous to chart. See Page 2 of 2.				
14. REPORTED BY <u>[Signature]</u> <u>2/17/82</u> NAME DATE	15. VERIFIED BY <u>[Signature]</u> <u>2/18/82</u> NAME DATE		16. CORRECTIVE ACTION REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <div style="text-align: right;"><u>[Signature]</u> <u>2/18/82</u> FIELD PROJECT ENGINEER DATE</div>				
18. RECOMMENDED DISPOSITION: <input type="checkbox"/> N/A <input type="checkbox"/> REWORK <input type="checkbox"/> REPAIR <input type="checkbox"/> REPLACE <input type="checkbox"/> RETURN <input type="checkbox"/> ACCEPT AS IS				
19. TECHNICAL JUSTIFICATION/OR RECOMMENDED DISPOSITION INSTRUCTIONS <div style="text-align: right;">_____ FIELD PROJECT ENGINEER DATE</div>				
20. ACTUAL DISPOSITION: <input type="checkbox"/> REWORK <input type="checkbox"/> REPAIR <input type="checkbox"/> REPLACE <input type="checkbox"/> RETURN <input type="checkbox"/> ACCEPT AS IS				
21. DISPOSITION INSTRUCTIONS <div style="text-align: right;">_____ FIELD PROJECT ENGINEER DATE</div>				
22. APPROVALS B&W FQC _____ SIGNATURE DATE OWNER AGENT _____ SIGNATURE DATE			23. ANI REVIEW _____ SIGNATURE DATE	
24. DISPOSITION COMPLETED _____ NAME DATE		25. DISPOSITION VERIFICATION <input type="checkbox"/> ACCEPTABLE <input type="checkbox"/> UNACCEPTABLE _____ NAME DATE REPORT OF NONCONFORMITY #		
26. CORRECTIVE ACTION <div style="text-align: right;">_____ FIELD PROJECT MANAGER DATE</div>				
27. NONCONFORMITY CLOSED <div style="text-align: center;">_____ FIELD QUALITY CONTROL SUPV. DATE</div>				

REPORT OF NONCONFORMITY

JOB NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL-238	1	02/17/82	No. 2164



Plan View, N.T.S.

Area of Hammered Indentations

REPORT OF NONCONFORMITY

1. JOB NUMBER CL-238		2. UNIT NUMBER #1		3. DATE 2-22-82		4. ITEM NAME Seal Plate		5. ITEM NUMBER N/A	
6. VENDOR MANUFACTURER Babcock & Wilcox		7. DISCOVERED DURING <input type="checkbox"/> RECEIVING <input type="checkbox"/> TEST <input checked="" type="checkbox"/> CONST.		8. REJECT TAG NUMBER 733		9. PROCEDURE NUMBER 371			
10. SPECIFICATION NUMBER 64-1002535-00 9-GPP-104, Rev. 2 2/22/82				11. DRAWING NUMBER 196900E, Rev. 1		12. PRIOR REPORT OF NONCONFORMITY: N/A			
13. DESCRIPTION OF NONCONFORMITY During Seq. 300, 125 ft.-lbs. cannot be obtained due to either: 1. Swivel Pad Bolts bottom out. 2. Seal clamps are deflecting due to the torque being applied.									
14. REPORTED BY <u>J. F. Williams</u> 2-22-82 NAME DATE			15. VERIFIED BY <u>S. L. Taulbee</u> 2/22/82 NAME DATE			16. CORRECTIVE ACTION REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (*) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <u>W. M. Hall</u> 2/22/82 FIELD PROJECT ENGINEER DATE									
18. RECOMMENDED DISPOSITION: <input type="checkbox"/> N/A <input type="checkbox"/> REWORK <input type="checkbox"/> REPAIR <input type="checkbox"/> REPLACE <input type="checkbox"/> RETURN <input type="checkbox"/> ACCEPT AS IS									
19. TECHNICAL JUSTIFICATION OR RECOMMENDED DISPOSITION INSTRUCTIONS FIELD PROJECT ENGINEER DATE									
20. ACTUAL DISPOSITION: <input type="checkbox"/> REWORK <input type="checkbox"/> REPAIR <input type="checkbox"/> REPLACE <input type="checkbox"/> RETURN <input type="checkbox"/> ACCEPT AS IS									
21. DISPOSITION INSTRUCTIONS FIELD PROJECT ENGINEER DATE									
22. APPROVALS B&W FCC OTHER SIGNATURE DATE OWNER AGENT OTHER SIGNATURE DATE						23. ANI REVIEW SIGNATURE DATE			
24. DISPOSITION COMPLETED NAME DATE			25. DISPOSITION VERIFICATION <input type="checkbox"/> ACCEPTABLE <input type="checkbox"/> UNACCEPTABLE NAME DATE REPORT OF NONCONFORMITY #						
26. CORRECTIVE ACTION FIELD PROJECT MANAGER DATE									
27. NONCONFORMITY CLOSED FIELD QUALITY CONTROL SUPV. DATE									

1. JOB NUMBER CL-238	2. UNIT NUMBER #2	3. DATE 2-23-82	4. ITEM NAME Inner Mast Assy.	5. ITEM NUMBER MK 2000
6. VENDOR MANUFACTURER Stearns & Rogers	7. DISCOVERED DURING <input type="checkbox"/> RECEIVING <input type="checkbox"/> TEST <input checked="" type="checkbox"/> CONST.		8. REJECT TAG NUMBER 734	9. PROCEDURE NUMBER FCP #77
10. SPECIFICATION NUMBER B&W 08-1071000003-05		11. DRAWING NUMBER 22355-75		12. PRIOR REPORT OF NONCONFORMITY # 2136
13. DESCRIPTION OF NONCONFORMITY The 4" schedule 40 pneumatic pipes which engage and disengage the fuel grapppling assembly are damaged. The pipe used for engagement is broken at the modulation valve. The disengagement line is bent, approximately 3° at the modulation valve. The broken engagement pipe was bent prior to this date, and was so noted on NCR #2136.				
14. REPORTED BY <u>J. W. ...</u> NAME DATE 2-23-82		15. VERIFIED BY <u>S. Tauter</u> NAME DATE 2/23/82		16. CORRECTIVE ACTION REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <u>W.H. Hall</u> FIELD PROJECT ENGINEER DATE 2/23/82				
18. RECOMMENDED DISPOSITION: <input type="checkbox"/> N/A <input type="checkbox"/> REWORK <input type="checkbox"/> REPAIR <input type="checkbox"/> REPLACE <input type="checkbox"/> RETURN <input type="checkbox"/> ACCEPT AS IS				
19. TECHNICAL JUSTIFICATION OR RECOMMENDED DISPOSITION INSTRUCTIONS _____ FIELD PROJECT ENGINEER DATE				
20. ACTUAL DISPOSITION: <input type="checkbox"/> REWORK <input type="checkbox"/> REPAIR <input type="checkbox"/> REPLACE <input type="checkbox"/> RETURN <input type="checkbox"/> ACCEPT AS IS				
21. DISPOSITION INSTRUCTIONS _____ FIELD PROJECT ENGINEER DATE				
22. APPROVALS BY: _____ OTHER: _____ SIGNATURE DATE SIGNATURE DATE OTHER: _____ SIGNATURE DATE SIGNATURE DATE			23. ANY REVIEW SIGNATURE DATE	
24. DISPOSITION COMPLETED NAME DATE		25. DISPOSITION VERIFICATION <input type="checkbox"/> ACCEPTABLE <input type="checkbox"/> UNACCEPTABLE NAME DATE REPORT OF NONCONFORMITY #		
26. CORRECTIVE ACTION _____ FIELD PROJECT MANAGER DATE				
27. NONCONFORMITY CLOSED _____ FIELD QUALITY CONTROL SURV DATE				

W.H. Hall
2-24-

1. JOB NUMBER CL-238		2. UNIT NUMBER #1		3. DATE 2-23-82		4. ITEM NAME Fuel Handling System		5. ITEM NUMBER MK 1515	
6. VENDOR MANUFACTURER Stearns & Rogers		7. DISCOVERED DURING <input type="checkbox"/> RECEIVING <input type="checkbox"/> TEST <input checked="" type="checkbox"/> CONST.		8. REJECT TAG NUMBER 735		9. PROCEDURE NUMBER FCP #409			
10. SPECIFICATION NUMBER N/A			11. DRAWING NUMBER 22574-10			12. PRIOR REPORT OF NONCONFORMITY# N/A			
13. DESCRIPTION OF NONCONFORMITY Stud/Nut Installation Record No. 000224 required torque of the two sheave assemblies to 100 + 10 - 0 ft.-lbs. Sheave Assemblies were torqued to 250 ft.-lbs. <div style="text-align: center;">STUDS from 2/21/82</div>									
14. REPORTED BY <div>Signature: [Signature] NAME: [Blank] DATE: 2/23/82</div>			15. VERIFIED BY <div>Signature: [Signature] NAME: [Blank] DATE: 2/23/82</div>			16. CORRECTIVE ACTION REQUIRED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <div style="text-align: center;">[Signature] FIELD PROJECT ENGINEER DATE: 2/23/82</div>									
18. RECOMMENDED DISPOSITION: <input checked="" type="checkbox"/> N/A <input type="checkbox"/> REWORK <input type="checkbox"/> REPAIR <input type="checkbox"/> REPLACE <input type="checkbox"/> RETURN <input type="checkbox"/> ACCEPT AS IS									
19. TECHNICAL JUSTIFICATION/OR RECOMMENDED DISPOSITION INSTRUCTIONS <div style="text-align: center;">[Signature] FIELD PROJECT ENGINEER DATE: [Blank]</div>									
20. ACTUAL DISPOSITION: <input checked="" type="checkbox"/> REWORK <input type="checkbox"/> REPAIR <input type="checkbox"/> REPLACE <input type="checkbox"/> RETURN <input type="checkbox"/> ACCEPT AS IS									
21. DISPOSITION INSTRUCTIONS Break the torque on the MK 0184 flex loc nut and re-torque to the required 100 + 10 - 0 ft.-lbs. per Page 2. <div style="text-align: center;">[Signature] FIELD PROJECT ENGINEER DATE: 2/25/82</div>									
22. APPROVALS B&W FQC [Signature] DATE: 2/25/82 OWNER AGENT [Signature] DATE: 2/25/82 [Signature] DATE: [Blank] [Signature] DATE: [Blank]						23. ANI REVIEW [Signature] DATE: 3-2-82			
24. DISPOSITION COMPLETED <div>Signature: [Signature] NAME: [Blank] DATE: 2/4/82</div>			25. DISPOSITION VERIFICATION <div>Signature: [Signature] NAME: [Blank] DATE: 3/4/82</div> <input checked="" type="checkbox"/> ACCEPTABLE <input type="checkbox"/> UNACCEPTABLE REPORT OF NONCONFORMITY #						
25. CORRECTIVE ACTION For the torquing operations that are contrary to the given standard values on the cover page, the torque values will be at the required sequence and on the Stud/Nut Installation Record Sheet. <div style="text-align: center;">[Signature] FIELD PROJECT MANAGER DATE: 3/4/82</div>									
27. NONCONFORMITY CLOSED <div style="text-align: center;">[Signature] FIELD QUALITY CONTROL SUPV. DATE: 3/4/82</div> <div style="text-align: right;">2167</div>									

REPORT OF NONCONFORMITY

SB NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CI-238	#1	2-25-82	2167

1. Break the torque on the MK 0184 flex loc nut, and remove the MK 0184 flex loc nut and MK 0606 bolts.

End of rail sheave - J. Boyce 3-3-82
Upper Wall Bracket Sheave J. Boyce 3-4-82

- * 2. Visually inspect the lubrite bushing (for which the MK 0606 bolt removed in Step #1 goes thru) for possible damage as a result of the exceeded torque value applied. Notify Engineering if the bushing is damaged.

End of Rail Sheave - VEBrooker 3-3-82
Upper Wall Bracket Sheave - 3-4-82 VEBrooker

3. Re-install the MK 0606 bolt and MK 0184 flex loc nut, and torque the (1) MK 0184 flex loc nut to 100 + 10 - 0 ft.-lbs.

NOTE: Q.C. to be present at time of torquing. CG 22-162 Due 4-30-82

End of Rail Sheave J. Boyce 3-3-82
Upper Wall Bracket Sheave J. Boyce 3-4-82

- * 4. Q.C. to verify torquing of the (1) MK 0184 flex loc nut to 100 + 10 - 0 ft.-lbs. Record on attached Stud/Nut Installation Record No. 000282.

End of Rail Sheave - VEBrooker 3-3-82 CG 22-162 Due 4-30-82
Upper Wall Bracket Sheave - VEBrooker 3-4-82

FIELD COPY

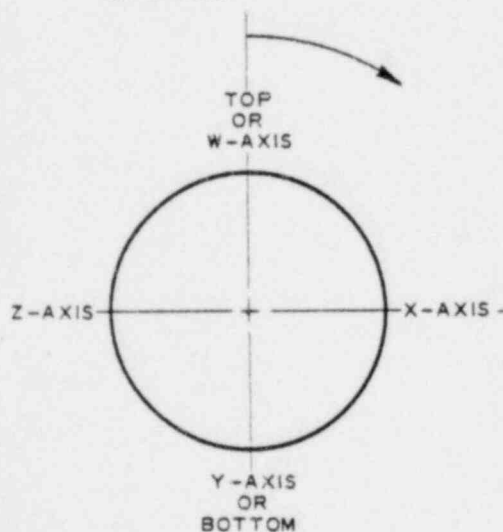
STUD NUT INSTALLATION RECORD

Unit #1

CUSTOMER Consumers Power Co. CONTRACT NUMBER 620-0013 DATE 3-3-82SYSTEM Fuel Transfer COMPONENT N/A ASSEMBLY SheaveAPPLICABLE SPECIFICATION/PROCEDURE NCR #2167 Step #3 DRAWING NO. 22574-10STUD MK. NO. 0606 NUT MK. NO. 0184 WASHER/LOCKING CLIP MK. NO. N/ATORQUE DEVICE USED CG 22-162 CALIBRATION DUE DATE 4-30-82REQUIRED TORQUE VALUE 100 + 10 - 0 ft.-lbs. LUBRICANT APPLIED Never Seez

ACTUAL TORQUE VALUES

HOLE NO.	ACTUAL TORQUE	HOLE NO.	ACTUAL TORQUE	HOLE NO.	ACTUAL TORQUE	HOLE NO.	ACTUAL TORQUE
1	105 ft-lb	16	3-3-82	31		46	
2	105 ft-lb	17	3-4-82	32		47	
3		18		33		48	
4		19		34		49	
5		20		35		50	
6		21		36		51	
7		22		37		52	
8		23		38		53	
9		24		39		54	
10		25		40		55	
11		26		41		56	
12		27		42		57	
13		28		43		58	
14		29		44		59	
15		30		45		60	

NUMBER SEQUENTIALLY
CLOCKWISE FROM TOP
OR W-AXIS

REMARKS:

#1 Hole End of Rail Sheave

#2 Hole Upper Wall Bracket Sheave

B&W INSPECTOR

V E Booker

DATE

3-4-82

OTHER

DATE

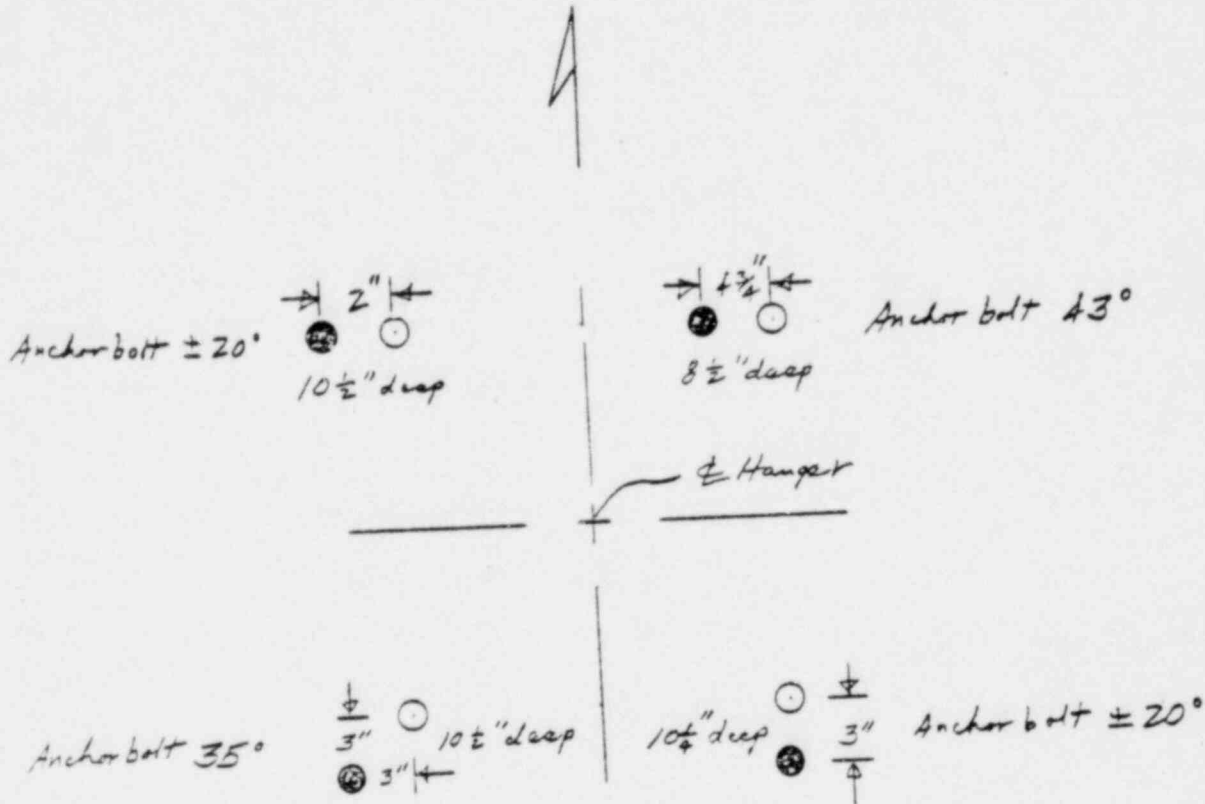
REPORT OF NONCONFORMITY

SEQUENTIAL NUMBER N^o 2168

REPORT OF NONCONFORMITY

FCP74B

JOB NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL-238	Two	02/25/82	2168



Top View - N.T.S.

○ Surface

● Bottom

Drilled anchor bolt holes - offset to miss re-rod.

L. Carroll 02/25/82

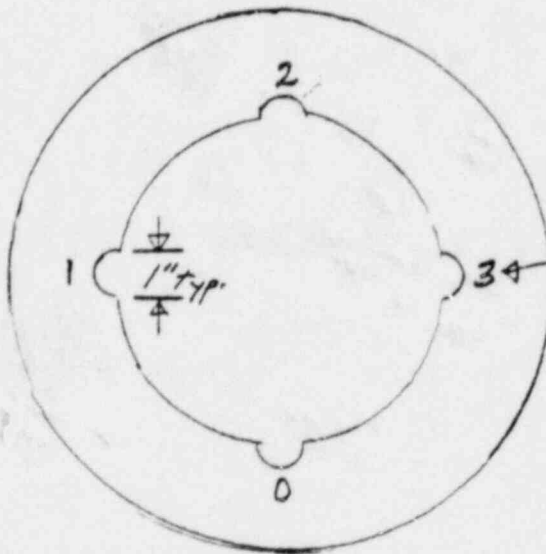
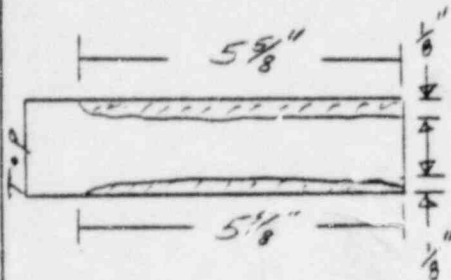
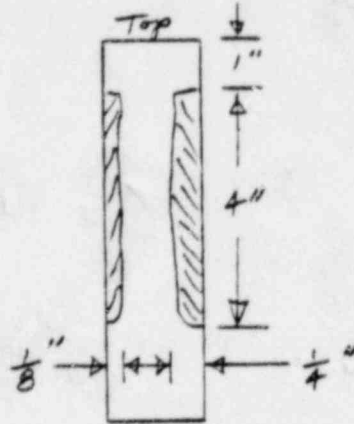
REPORT OF NONCONFORMITY

1. JOB NUMBER CL-238		2. UNIT NUMBER #1		3. DATE 2-27-82		4. ITEM NAME A.R.D. Coupling		5. ITEM NUMBER "D" Pump	
6. VENDOR/MANUFACTURER Form Spray, Inc.			7. DISCOVERED DURING <input type="checkbox"/> RECEIVING <input type="checkbox"/> TEST <input checked="" type="checkbox"/> CONST.			8. REJECT TAG NUMBER 737		9. PROCEDURE NUMBER FCP #385	
10. SPECIFICATION NUMBER GEK-27642			11. DRAWING NUMBER N/A			12. PRIOR REPORT OF NONCONFORMITY# N/A			
13. DESCRIPTION OF NONCONFORMITY The Anti-Reverse Device coupling dowel pins were damaged during installation. Three of the four dowels were gauged and raised metal was noted where rubbing occurred on shaft. Gauging and raised metal damage was also noted on the shaft, where the dowels fit between the shaft and the A.R.D. coupling, and also on the A.R.D. coupling itself.									
14. REPORTED BY <u>Russell Carroll</u> 02/27/82 NAME DATE			15. VERIFIED BY <u>SL Tauber</u> 3/1/82 NAME DATE			16. CORRECTIVE ACTION REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <div style="text-align: right;"><u>W. H. East</u> 3-1-82 FIELD PROJECT ENGINEER DATE</div>									
18. RECOMMENDED DISPOSITION: <input type="checkbox"/> N/A <input type="checkbox"/> REWORK <input type="checkbox"/> REPAIR <input type="checkbox"/> REPLACE <input type="checkbox"/> RETURN <input type="checkbox"/> ACCEPT AS IS									
19. TECHNICAL JUSTIFICATION/OR RECOMMENDED DISPOSITION INSTRUCTIONS <div style="text-align: right;">_____ FIELD PROJECT ENGINEER DATE</div>									
20. ACTUAL DISPOSITION: <input type="checkbox"/> REWORK <input type="checkbox"/> REPAIR <input type="checkbox"/> REPLACE <input type="checkbox"/> RETURN <input type="checkbox"/> ACCEPT AS IS									
21. DISPOSITION INSTRUCTIONS <div style="text-align: right;">_____ FIELD PROJECT ENGINEER DATE</div>									
22. APPROVALS B&W FQC _____ OTHER _____ SIGNATURE DATE SIGNATURE DATE OWNER/AGENT _____ OTHER _____ SIGNATURE DATE SIGNATURE DATE						23. ANI REVIEW _____ SIGNATURE DATE			
24. DISPOSITION COMPLETED _____ NAME DATE			25. DISPOSITION VERIFICATION <input type="checkbox"/> ACCEPTABLE <input type="checkbox"/> UNACCEPTABLE _____ NAME DATE REPORT OF NONCONFORMITY #						
25. CORRECTIVE ACTION <div style="text-align: right;">_____ FIELD PROJECT MANAGER DATE</div>									
27. NONCONFORMITY CLOSED <div style="text-align: right;">_____ FIELD QUALITY CONTROL SUPV. DATE</div>									

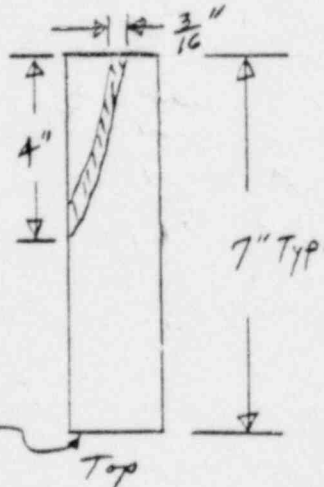
REPORT OF NONCONFORMITY

FLP 385-D Pump

JOB NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL-238	1	02/27/02	2169



Galled & Raised
Metal Areas



Grinding & Raised Metal

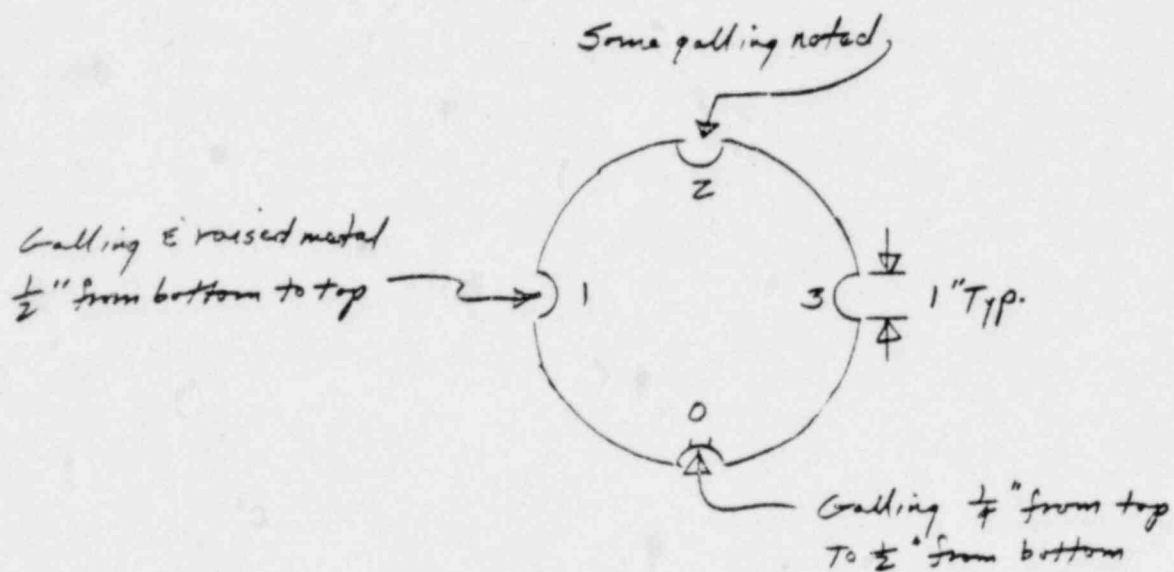
Top View - ARD Coupling, N.T.S.

H. Carroll 02/27/02

REPORT OF NONCONFORMITY

FCP 385 - D-Pump

JOB NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL-238	1	2-27-82	2169



Top View - Shaft, N.T.S.

Shaft dowel slots 9" Long

Light to heavy galling & raised metal observed on 3 dowels.

C. P. Co. Rep. took one to check for replacement parts

K. Larrall 02/27/82

B&W

Closed NCR's

REPORT OF NONCONFORMITY

TO BE COMPLETED BY FIELD QC	SYSTEM OR PART NAME 1 Incore Instrumentation Tube Supports		JOB NO. 2 CL-238		DATE 3 3-23-78	
	DRAWING VIOLATED & REV. 2-352-HA, 1/F1 4 2-352-HB, 1/F1		VENDOR NAME 5 Bechtel		REJECT TAG NOS. 6 N/A	
	PROC. SPEC. VIOLATED 2-352-HC, 1/F1 7 N/A		P.O. NO. 8 N/A		PART NO. IC2-HA 9 IC2-HB IC2-HC	
					SYSTEM DESIGNATION 10 Incore Instr.	
	CORRECTIVE ACTION REQUIRED 11 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO				REPORTED BY 12 <i>Donald W. Shyne</i>	
TO BE COMPLETED BY F.P. ENGINEERING	CONDITION DETAILS 13 The incore instrumentation tunnel floor on the reactor vessel side of the division wall is approximately 2½" too high in elevation. All of the vertical support legs on the above supports would be 2½" too high interfering with the incore tube routing under reactor vessel.					
	CONDITION DETAILS VERIFIED BY 14 B&W QC SUPV. <i>Donald W. Shyne</i> DATE 3-23-78			DISPOSITION REQUESTED FROM <input checked="" type="checkbox"/> B&W CONSTRUCTION <input type="checkbox"/> 15 BY <i>Donald W. Shyne</i> DATE 3-23-78		
	REPORTABILITY PER 10 CFR 50.55 (E) 16 <input type="checkbox"/> REPORTABLE <input checked="" type="checkbox"/> NON-REPORTABLE BY <i>H. E. Kinsler</i> DATE 3-23-78					
	DISPOSITION INSTRUCTIONS ACTION <input type="checkbox"/> ACCEPT AS IS <input type="checkbox"/> SCRAP <input checked="" type="checkbox"/> REWORK <input type="checkbox"/> RETURN TO VENDOR Cut vertical support legs per Bechtel instructions. Instructions will be coming from Bechtel engineering via marked prints of violated drawings.					
	DISPOSITION APPROVED BY 17 B&W QC SUPV. <i>DW Shyne</i> DATE 3-23-78 B&W FPE <i>John C. Kinsler</i> DATE 3-23-78 OTHER <i>W. H. Hall</i> DATE 3-27-78 OTHER _____ DATE _____			DISPOSITION DETAILS BY 18 Bechtel ACTION COMPLETED 20 BY <i>W. H. Hall</i> DATE 2/17/82		
TO BE COMPLETED BY FIELD QC	REWORK INSPECTION <input checked="" type="checkbox"/> REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE <input type="checkbox"/> REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE 21 BY <i>SL Taubler</i> DATE 2/17/82 REPORT OF NONCONFORMITY					
	NON CONFORMITY CLOSED 22 B&W QC SUPV. <i>SL Taubler</i> DATE 2/17/82					
TO BE COMPLETED BY F.P. MANAGER	CORRECTIVE ACTION DESCRIPTION 23					
	FIELD PROJECT MANAGER 24 DATE <i>R. J. [Signature]</i> 3-23-78					

REPORT OF NONCONFORMITY

1. JOB NUMBER CL-238	2. UNIT NUMBER #1	3. DATE 1-26-82	4. ITEM NAME See Attached List - Pg. 2 of 4	5. ITEM NUMBER N/A "B" motor
6. VENDOR MANUFACTURER General Electric		7. DISCOVERED DURING <input type="checkbox"/> RECEIVING <input type="checkbox"/> TEST <input checked="" type="checkbox"/> CONST.	8. REJECT TAG NUMBER 723	9. PROCEDURE NUMBER FCP #383
10. SPECIFICATION NUMBER SEK 27542, Rev. 5		11. DRAWING NUMBER N/A	12. PRIOR REPORT OF NONCONFORMITY? None	

DESCRIPTION OF NONCONFORMITY
See attached list, Page 2 of 4.

13. REPORTED BY <i>Bauer</i> NAME	14. DATE 1-27-82 DATE	15. VERIFIED BY <i>SL Taubler</i> NAME	16. DATE 1/27/82 DATE	17. CORRECTIVE ACTION REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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18. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 30.55 (e)
☐ YES ☒ NO

W.H. Hall
FIELD PROJECT ENGINEER

1/27/82
DATE

19. RECOMMENDED DISPOSITION: ☐ N/A ☒ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS

20. TECHNICAL JUSTIFICATION OR RECOMMENDED DISPOSITION INSTRUCTIONS
B&WCC recommends for Item #1 and #2 to handwork the (2) scrappers to meet the clearance requirements and remove all raised metal and break all sharp corners. For Item #3, remove all raised metal and break all sharp corners. "Accept as is" the as remaining condition.
W.H. Hall
FIELD PROJECT ENGINEER

2/1/82
DATE

21. ACTUAL DISPOSITION: ☒ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS

22. DISPOSITION INSTRUCTIONS Response to RFI #862 states EPCo ~~concurrence~~ concurrence of the recommended disposition. Final concurrence is pending approvals from the appropriate persons in Block 22. Added Note to disposition Page No. 5 prior to Step #1.

W.H. Hall / W.H. Hall
FIELD PROJECT ENGINEER

2-3-82
DATE

23. APPROVALS		23. ANI REVIEW	
B&W FQC <i>SL Taubler</i> SIGNATURE	<i>2/3/82</i> DATE	<i>C. [Signature]</i> SIGNATURE	<i>2-4-82</i> DATE
OWNER AGENT <i>W.H. Hall</i> SIGNATURE	<i>2/3/82</i> DATE	<i>W.H. Hall</i> SIGNATURE	<i>2/3/82</i> DATE

24. DISPOSITION COMPLETED <i>K. Darrall</i> NAME	<i>02/04/82</i> DATE	25. DISPOSITION VERIFICATION <i>SL Taubler</i> NAME	<i>2/9/82</i> DATE	<input checked="" type="checkbox"/> ACCEPTABLE <input type="checkbox"/> UNACCEPTABLE REPORT OF NONCONFORMITY #
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26. CORRECTIVE ACTION

FIELD PROJECT MANAGER

DATE

27. NONCONFORMITY CLOSED

SL Taubler
FIELD QUALITY CONTROL SUPV.

2/5/82
DATE

SEQUENTIAL NUMBER

Nº 2156

REPORT OF NONCONFORMITY

JOB NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL-238	#1	1-27-82	2156 (B" Motor) <i>unhappy 2156</i>

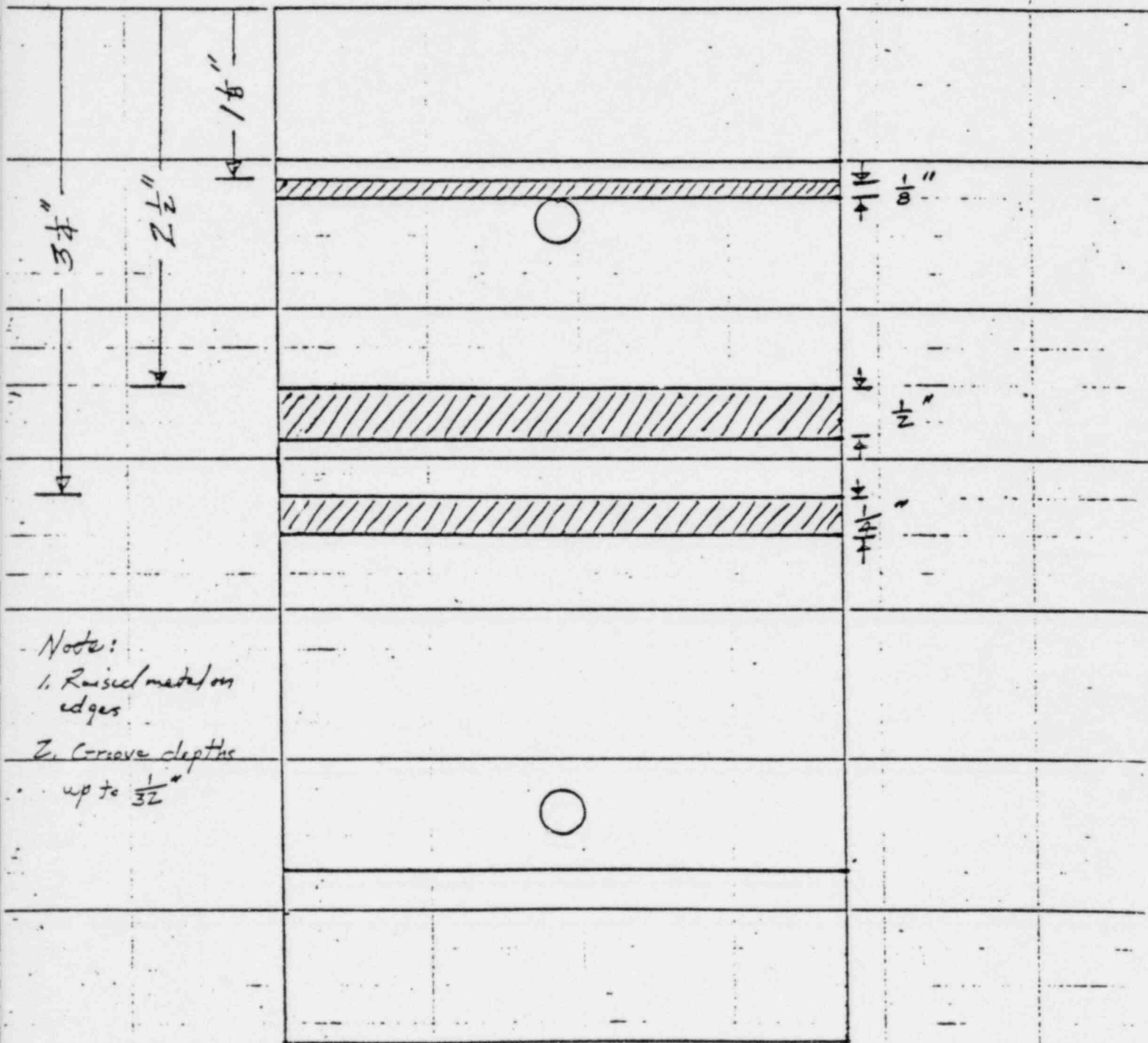
- Item 1. Oil Scraper clearances violate minimum tolerances of .011 inches ($\pm .003$ inches), per F.C.P. Sequence 520. West scraper gauges .005 inches and east scraper has zero inches tolerance.
- Item 2. Oil scrapers are damaged with grooves. The east scraper has two bands of raised metal. See Pages 3 of 4 and 4 of 4.
- Item 3. Thrust runner areas rubbing against oil scrapers are damaged. Bearing surface at top of thrust runner is damaged.

REPORT OF NONCONFORMITY

B NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL-238	Unit 1	01/27/82	2156 ("B" Motor)

withheld
1-29-82

Wast Oil/Scraper



Note:
1. Raised metal on edges
2. Groove depths up to 1/32"

Inside & Side View to Outside of Motor

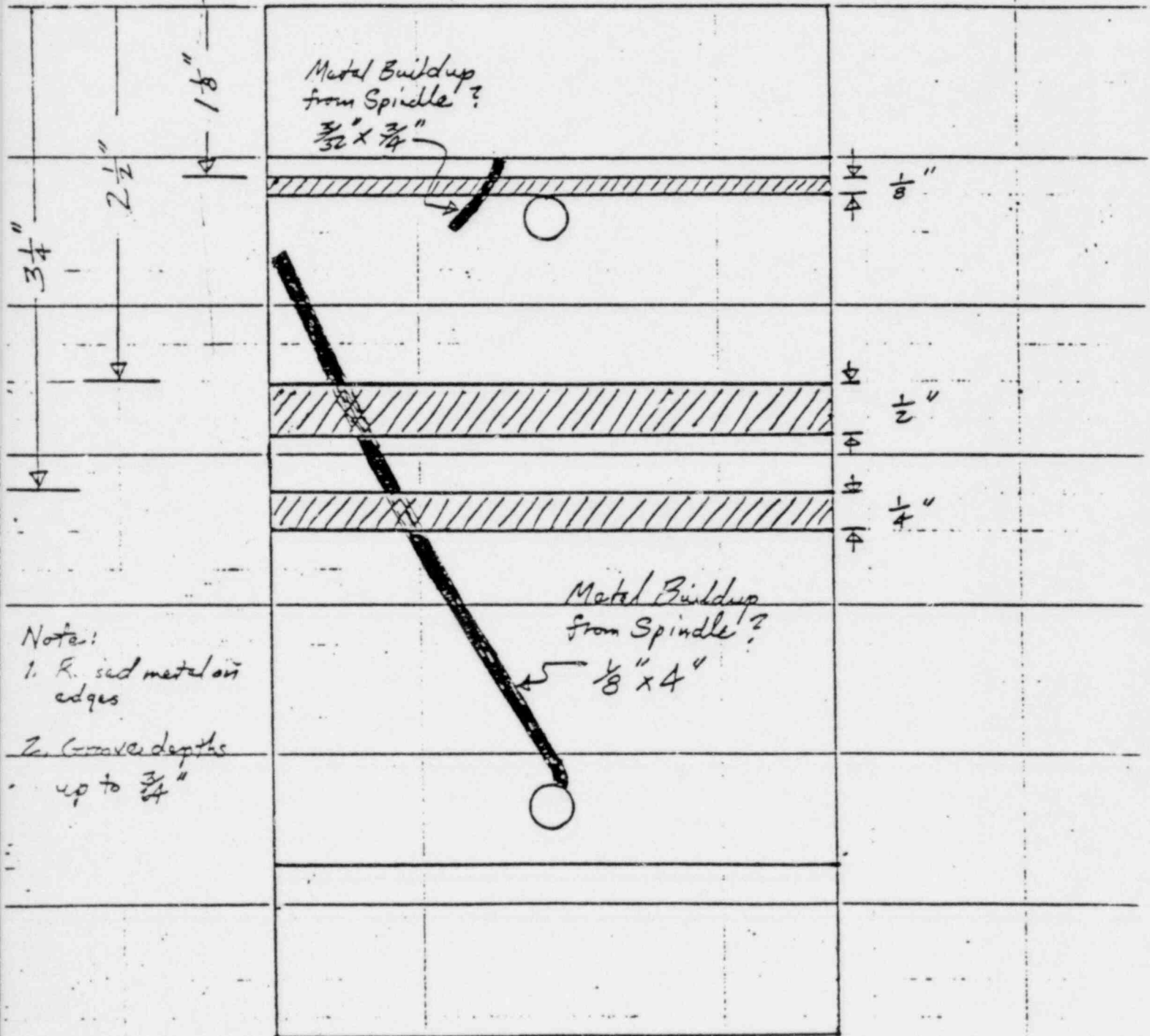
Natural Scale

REPORT OF NONCONFORMITY

S NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL-238	Unit 1	01/27/82	2156 ("B" motor)

with 1-22-82

East Oil Scraper



- Notes:
1. R. side metal on edges
 2. Groove depths up to 3/4"

Inside & Side View to Outside of Motor

Natural Scale

REPORT OF NONCONFORMITY

DB NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL-238	#1	2-1-82	2156

At this point the thrust runner is removed from its position on the shaft.
NOTE: Step #6 and #7 may be worked in parallel or prior to Steps #1 thru 5.

FIELD COPY

1. Remove the (2) oil scrappers. 2/5/82 REC

* 2. Q.C. to record the thickness of the oil scrappers prior to handworking. Record dimensions on Page 6.

H. Scaler 25-82 CU 1-292 Due 3-24-82
CU 1-323 Due 3-24-82

3. Handwork to remove a sufficient amount of stock from each oil scrapper to meet the .011 ± .003 clearance between each oil scrapper and the thrust runner. Remove all raised metal and break all sharp corners. Monitor metal removal so as not to exceed tolerance.

2/6/82 See Below *Robert Carroll*

* 4. Q.C. to inspect handworking of oil scrappers per Step 3 using the dimension recorded per Step 2. Record onto Page No. 6.

H. Carroll 02/06/82 CU 1-323 0-1" Mic Due date 03/24/82
CU 1-292 1-2" Mic. Due date 03/24/82

5. Re-install oil scrappers and secure.

2/6/82 REC

6. Handwork to remove all raised metal and to break all corners on the thrust runner.

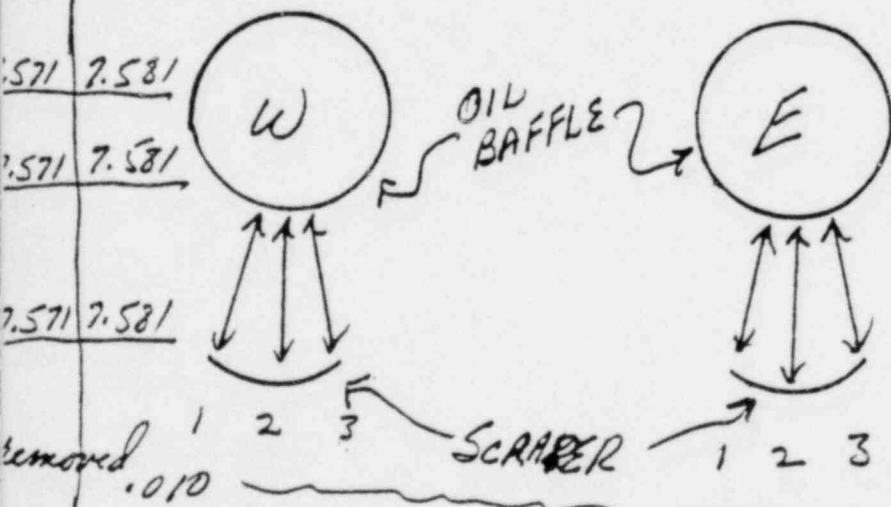
NOTE: The Kingsbury Representative to verify handworking is acceptable. 2/4/82
If handworking is unacceptable, then contact Engineering.

* 7. Q.C. to verify all raised metal has been removed and no sharp corners exist.

H. Carroll 02/06/82

+++ Return to F.C.P. No. 382 for re-installation of the thrust runner.

FOR AFTER



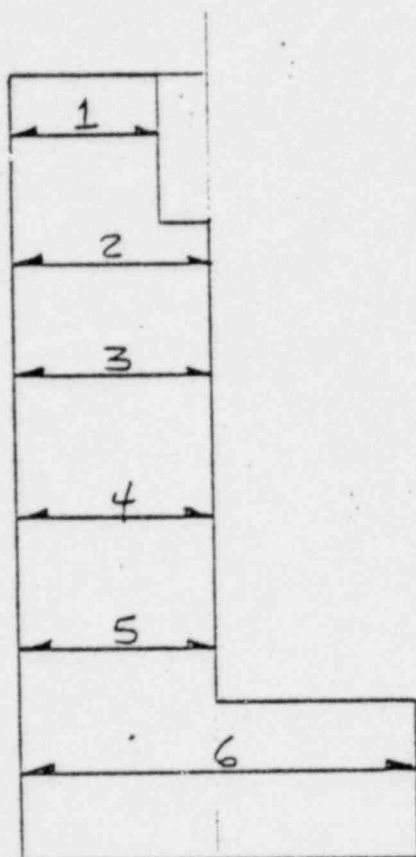
	BEFORE	AFTER
1	7.574	7.580
2	7.574	7.580
3	7.574	7.580

removed .003

Starting Clearance w/ Shaft Centered: WEST = .001 EAST = .004

REPORT OF NONCONFORMITY

3 NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL-238	#1	2-1-82	2156



FIELD COPY

X-1	1X	1/2
X-2	2X	1 1/4
X-3	3X	1 1/4
X-4	4X	1 1/4
X-5	5X	1 1/4
X-6	6X	

OIL SCRAPER #1

Punch Mark in Top
OIL SCRAPER #2

BEFORE REWORK		AFTER REWORK		BEFORE REWORK		AFTER REWORK	
X 1 .443	1X .443	X 1 .434	1X .434	X 1 .437	1X .439	X 1 .430	1X .431
X 2 .745	2X .745	X 2 .732	2X .734	X 2 .741	2X .743	X 2 .731	2X .736
X 3 .749	3X .749	X 3 .732	3X .735	X 3 .746	3X .746	X 3 .732	3X .736
X 4 .745	4X .745	X 4 .732	4X .734	X 4 .741	4X .742	X 4 .728	4X .734
X 5 .745	5X .745	X 5 .731	5X .732	X 5 .741	5X .742	X 5 .727	5X .734
X 6 1.563	6X 1.563	X 6 1.548	6X 1.549	X 6 1.524	6X 1.563	X 6 1.535	6X 1.553

REPORT OF NONCONFORMITY

1. JOB NUMBER CL-238	2. UNIT NUMBER #2	3. DATE 1-9-82	4. ITEM NAME "D" R.C. Pump Motor	5. ITEM NUMBER 2P51D
6. VENDOR/MANUFACTURER General Electric	7. DISCOVERED DURING <input type="checkbox"/> RECEIVING <input type="checkbox"/> TEST <input checked="" type="checkbox"/> CONST.	8. REJECT TAG NUMBER 713	9. PROCEDURE NUMBER 429	
10. SPECIFICATION NUMBER Instructions GEK-27642 Reactor Coolant Pump		11. DRAWING NUMBER N/A	12. PRIOR REPORT OF NONCONFORMITY# N/A	
13. DESCRIPTION OF NONCONFORMITY Motors The following nonconforming conditions were noted during disassembly of 2P51D Reactor Coolant Pump Motor: 1. The two (2) baffle and seal plate half sections are missing the polyurethane seals which seal around the rotating runner and shaft. The baffle plates were not drilled and tapped to accept these seals. (Continued on Page 2 of 2).				
14. REPORTED BY Arnold Kleinach NAME 1-9-82 DATE		15. VERIFIED BY SL Taulbee NAME 1/11/82 DATE		16. CORRECTIVE ACTION REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO W. H. Hall FIELD PROJECT ENGINEER 1-11-82 DATE				
18. RECOMMENDED DISPOSITION: <input type="checkbox"/> N/A <input type="checkbox"/> REWORK <input checked="" type="checkbox"/> REPAIR <input type="checkbox"/> REPLACE <input type="checkbox"/> RETURN <input type="checkbox"/> ACCEPT AS IS				
19. TECHNICAL JUSTIFICATION/OR RECOMMENDED DISPOSITION INSTRUCTIONS Item No. 1 - Bechtel to advise as to disposition of this item. No. 2 - Copper fitting has been removed, this item is complete. No. 3 - Metal chips, shavings have been removed, this item complete. No. 4 - Oil scrappers have been set per Dwg. & secured, this item complete. W. H. Hall FIELD PROJECT ENGINEER 1/14/82 DATE				
20. ACTUAL DISPOSITION: <input type="checkbox"/> REWORK <input checked="" type="checkbox"/> REPAIR <input type="checkbox"/> REPLACE <input type="checkbox"/> RETURN <input type="checkbox"/> ACCEPT AS IS				
21. DISPOSITION INSTRUCTIONS Per R.F..I. #828, General Electric to supply new seals. Install new seals as stated on Page No. 3. Final concurrence of disposition pending approvals required in Block #22. W. H. Hall FIELD PROJECT ENGINEER 2/5/82 DATE				
22. APPROVALS B&W FQC SL Taulbee 2/5/82 SIGNATURE DATE OWNER AGENT M. Anderson 2/5/82 SIGNATURE DATE			23. ANI REVIEW C. J. [Signature] 2-9-82 SIGNATURE DATE See ANI Memo dated 2/4/82 SL Taulbee 2/9/82	
24. DISPOSITION COMPLETED SL Taulbee for Seals 2/5/82 NAME DATE		25. DISPOSITION VERIFICATION SL Taulbee 2/6/82 NAME DATE <input checked="" type="checkbox"/> ACCEPTABLE <input type="checkbox"/> UNACCEPTABLE REPORT OF NONCONFORMITY #		
25. CORRECTIVE ACTION FIELD PROJECT MANAGER DATE				
27. NONCONFORMITY CLOSED SL Taulbee 2/6/82 FIELD QUALITY CONTROL SUPV. DATE				

REPORT OF NONCONFORMITY

JOB NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL CL-238	#2	1-9-82	2149

13. Continued

2. A copper tubing compression fitting was found wedged in the upper thrust bearing. (Fitting removed upon disassembly).
3. Metal chips and shavings (probably from a drilling operation) were found collected in the Oil Cooler of the Lower Guide Bearing (chips and shavings removed upon disassembly).
4. The Oil Scrapers (thrust runner area) were not installed properly. Retaining bolts were not tightened and therefore scrapers were not set to drawing tolerances.

REPORT OF NONCONFORMITY

JOB NUMBER CL-238	UNIT NUMBER #2	DATE 2-5-82	REPORT OF NONCONFORMITY # 2149
----------------------	-------------------	----------------	-----------------------------------

Polyurethane seals and bolts, nuts, and washers required to attach seals are to be supplied by General Electric. These items will be withdrawn and receipt inspected in FCP #397. Upon receipt, install gaskets as follows:

432 WILCOX 2-5-82

1. Drill and tap (8) 3/8" dia. holes in the seal plate for attaching the polyurethane seals, use seals as a layout for locating the holes.

2/5/82 REC

2. Attach the polyurethane seals using (8) 3/8" bolts with nuts and washers.

2/5/82 REC

- * 3. Inspect installation of the polyurethane seals.

L. Adams 2-5-82

7220-M-1A

S/C NO. CL-236

REF. DWS. OR SPEC.

SHEET

REV.

TITLE

BBC

RFI 4928

E. Manual

GEA-276M2

REWORK OF R.C. MOTOR 2P51D

PREPARED BY:

W. G. Hall / *WGH*

RESPONSE

REQUESTED BY DATE

A.S.A.P.

EXISTING CONDITION:

See attached BWCC H.C.R. No. 2149.

Item 1 is being as to required disposition of Item No. 1 on BWCC H.C.R. No. 2149.
Items 2, 3, and 4 are resolved.

REMARKS

It has been advised. Also they will provide parts on 2/2/62. Parts are to be installed by BWCC to close item #1 of this NCR.

D. Deane 2/4/62

Technical Approval:

[Signature] 2/4/62

TO

W 6 HILL

DATE

2/4/82

SUBJECT

REVIEW OF BYWCC

NCR'S # 2149, 2151, 2158

MESSAGE

I WAIVE REVIEW OF THE ABOVE NCR'S UNTIL
MY NEXT VISIT ON 2-9-82. THESE NCR'S MAY
BE RELEASED FOR DISPOSITION WORK PRIOR TO
MY SIGNATURE.

SIGNED

C. J. HILL - ANI

REPLY

SIGNED

DATE

/ /

REPORT OF NONCONFORMITY

0-7

1. JOB NUMBER CL-238	2. UNIT NUMBER #1	3. DATE 12-23-81	4. ITEM NAME Snubber	5. ITEM NUMBER 1D4-1 (S/N 22687) ^{2/23/82}
6. VENDOR/MANUFACTURER ITT Grinnell		7. DISCOVERED DURING <input type="checkbox"/> RECEIVING <input type="checkbox"/> TEST <input checked="" type="checkbox"/> CONST.	8. REJECT TAG NUMBER 699	9. PROCEDURE NUMBER FCP #344
10. SPECIFICATION NUMBER N/A		11. DRAWING NUMBER N/A		12. PRIOR REPORT OF NONCONFORMITY N/A
13. DESCRIPTION OF NONCONFORMITY Valve leak at bonnet of circle seal valve. Valve is attached to Snubber #1D4-1 (22687)				
14. REPORTED BY <u>JE Wacarnaud</u> NAME 12/23/81 DATE		15. VERIFIED BY <u>SL Taubner</u> NAME 12/23/81 DATE		16. CORRECTIVE ACTION REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <u>W.H. Hall</u> FIELD PROJECT ENGINEER 12/23/81 DATE				
18. RECOMMENDED DISPOSITION: <input checked="" type="checkbox"/> N/A <input type="checkbox"/> REWORK <input type="checkbox"/> REPAIR <input type="checkbox"/> REPLACE <input checked="" type="checkbox"/> RETURN <input type="checkbox"/> ACCEPT AS IS				
19. TECHNICAL JUSTIFICATION/OR RECOMMENDED DISPOSITION INSTRUCTIONS Bechtel to advise. <u>W.H. Hall</u> FIELD PROJECT ENGINEER 12/23/81 DATE				
20. ACTUAL DISPOSITION: <input type="checkbox"/> REWORK <input type="checkbox"/> REPAIR <input type="checkbox"/> REPLACE <input checked="" type="checkbox"/> RETURN <input type="checkbox"/> ACCEPT AS IS				
21. DISPOSITION INSTRUCTIONS Remove the leaking seal valve and replace with an acceptable valve per FCP #410. The leaking valve is to be returned to ITT Grinnell. See Attachment #1 Bechtel letter M-1A-B-1274. B&WCC considers this N.C.R. closed. <u>W.H. Hall</u> FIELD PROJECT ENGINEER 2/22/82 DATE				
22. APPROVALS B&W FQC <u>SL Taubner</u> 2/22/82 SIGNATURE DATE OWNER AGENT <u>M. Anderson</u> 2/24/82 SIGNATURE DATE			23. ANI REVIEW <u>C. [Signature]</u> 2-25-82 SIGNATURE DATE	
24. DISPOSITION COMPLETED <u>W.H. Hall</u> 2/26/82 NAME DATE		25. DISPOSITION VERIFICATION <u>JE Wacarnaud</u> 2/24/82 NAME DATE <input checked="" type="checkbox"/> ACCEPTABLE <input type="checkbox"/> UNACCEPTABLE REPORT OF NONCONFORMITY #		
26. CORRECTIVE ACTION				
FIELD PROJECT MANAGER _____ DATE _____				
27. NONCONFORMITY CLOSED <u>JE Wacarnaud</u> 2/26/82 FIELD QUALITY CONTROL SUPV. DATE				

ATTACHMENT # 1

NCR # 2141

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640



February 18, 1982

Babcock and Wilcox Company
B & W Construction Company
P. O. Box 1984
Midland, MI 48640

Attention: Mr. W. J. Lee

W. J. LEE

FEB 19 1982

Job 7220 Midland Project
Subcontract 7220-M-1A
RCP Snubber - RFI's
M-1A-B-1274

Dear Mr. Lee:

- References: 1) B&WCC RFI's 753, 754, 801, 804, 812
2) Bechtel letter dated 1/27/82, M-1A-B-1256

This letter is in response to B&WCC RFI's noted in reference #1:

RFI 753 - NCR 2131 regarding snubbers 1G1-2 and 1D1-2

Project Engineering recommends that these snubbers be refilled and repurged onsite in Warehouse #2 by ITT-Grinnell in accordance with their procedures.

RFI 754 - NCR 2132 regarding snubber 1G1-2

In reference #2, you were advised that this snubber could be refilled and repurged onsite. It has since been determined that it should be returned to ITT-Grinnell for repair and testing. This snubber, 1G1-2, also requires clevis machining. The clevis should be removed, machined and reinstalled onto the 1G1-2 snubber prior to preparing it for shipment. Please advise Subcontracts as to when this snubber will be available to ship to ITT-Grinnell.

RFI 801 - NCR 2140 regarding damaged circle seal valve O-Rings

It is project engineering's understanding that the disassembly of the circle seal valves is a delicate operation. ITT-Grinnell, the vendor responsible for supplying the valves, has not provided procedures for disassembly or reassembly of the valves. The results of the field inspection must be judged inconclusive, since the O'Ring can be damaged during disassembly. Project Engineering recommends that the six valves in question be returned to ITT-Grinnell for repair and reassembly. In the future, disassembly of any snubber component should

✓	CEB	
	TWD	
✓	RRF	
	FILE	
✓	WGH	
✓	WJL	WJL
✓	WGL	
	SAFETY	
	MSS	
✓	SCH	
✓	SLT	
	RMV	
✓	D.C.	DC

not be attempted by construction unless a project engineering approved procedure from ITT-Grinnell is available or an ITT-Grinnell representative is present.

RFI 804 - NCR 2141 regarding leaking circle seal valve on snubber 1D4-1

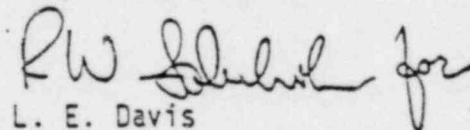
2 Project engineering recommends that the leaking circle seal valve be replaced and returned to ITT-Grinnell for repair or credit. Please restock those valves mentioned in RFI's 801 and 804 to Warehouse #2 for return to ITT-Grinnell. Valve for snubber 1D4-1 should be marked accordingly.

RFI 812 - NCR 2142 regarding oil leak in snubber valve tubing of snubbers 2C1-1 and 2C1-2

Project engineering has inspected these snubbers and can find no evidence of leakage on snubber 2C1-1. It is recommended that leakage be verified and if none exists, to use this snubber as-is. Snubber 2C1- has an oil leak and damaged snubber tubing. This snubber shall be returned to ITT-Grinnell for repair and testing. Please advise Subcontracts of the status of snubber 2C1-1. Snubber 2C1-2 should be prepared for shipment to ITT-Grinnell. When this work is complete, please notify Subcontracts so return can be coordinated.

Your response is requested by February 26, 1982.

Very truly yours,



L. E. Davis
Site Manager

LED/RCA/DD/pjp

REPORT OF NONCONFORMITY

1. JOB NUMBER CL-238	2. UNIT NUMBER #1 & #2	3. DATE 12-18-81	4. ITEM NAME Snubbers	5. ITEM NUMBER See Page 2 of 2
6. VENDOR/MANUFACTURER ITT Grinnell	7. DISCOVERED DURING <input type="checkbox"/> RECEIVING <input type="checkbox"/> TEST <input checked="" type="checkbox"/> CONST.	8. REJECT TAG NUMBER See Page 2 of 2	9. PROCEDURE NUMBER N/A	
10. SPECIFICATION NUMBER 7220-C-70 (Q)	11. DRAWING NUMBER N/A	12. PRIOR REPORT OF NONCONFORMITY# N/A		
3. DESCRIPTION OF NONCONFORMITY Various quantities of air have accumulated in the tygon tubing of several snubber reservoir systems. Since the snubber reservoir systems were attached to the snubbers as a closed system with no air present, air must be seeping from the snubber cylinder. See attached page(s) for the status of each nonconforming snubber.				
14. REPORTED BY <u>SL Taubler for VE Braker</u> NAME 12/22/81 DATE		15. VERIFIED BY <u>W.H. Hall</u> NAME 12/22/81 DATE		16. CORRECTIVE ACTION REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (*) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <u>W.H. Hall</u> FIELD PROJECT ENGINEER 12/22/81 DATE				
18. RECOMMENDED DISPOSITION: <input checked="" type="checkbox"/> N/A <input type="checkbox"/> REWORK <input type="checkbox"/> REPAIR <input type="checkbox"/> REPLACE <input type="checkbox"/> RETURN <input type="checkbox"/> ACCEPT AS IS				
19. TECHNICAL JUSTIFICATION/OR RECOMMENDED DISPOSITION INSTRUCTIONS Vendor to advise. <u>W.H. Hall</u> FIELD PROJECT ENGINEER 12/22/81 DATE				
20. ACTUAL DISPOSITION: <input checked="" type="checkbox"/> REWORK <input type="checkbox"/> REPAIR <input type="checkbox"/> REPLACE <input type="checkbox"/> RETURN <input type="checkbox"/> ACCEPT AS IS				
21. DISPOSITION INSTRUCTIONS Per Bechtel letter M-1A-B-1256, L.E. Davis to W.J. Lee, the snubbers listed on Page 2 are to be re-filled and re-purged by ITT Grinnell in accordance with their procedures. As the work is to be done by others, B&WCC considers this N.C.R. closed pending approvals. <u>W.H. Hall</u> FIELD PROJECT ENGINEER 1/28/82 DATE				
22. APPROVALS B&W FQC <u>SL Taubler</u> 1/28/82 OTHER SIGNATURE DATE OWNER AGENT <u>R.E. Whitaker</u> 1/28/82 OTHER SIGNATURE DATE			23. ANI REVIEW SIGNATURE DATE <u>See Memo dated 1/29/82 Attached.</u>	
24. DISPOSITION COMPLETED <u>W.H. Hall</u> 2/1/82 NAME DATE		25. DISPOSITION VERIFICATION <u>SL Taubler</u> 2/1/82 NAME DATE <input checked="" type="checkbox"/> ACCEPTABLE <input type="checkbox"/> UNACCEPTABLE REPORT OF NONCONFORMITY #		
25. CORRECTIVE ACTION				
FIELD PROJECT MANAGER DATE				
27. NONCONFORMITY CLOSED <u>SL Taubler</u> 2/1/82 FIELD QUALITY CONTROL SUPV. DATE				

REPORT OF NONCONFORMITY

JOB NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL-238	1 & 2	12-18-81	2139
SNUBBER	SERIAL NO.	DESCRIPTION OF NONCONFORMITY	
2I2-2	22649 Reject Tag 687	Two (2) bladders were installed. Both bladders clamped at Tygon tubing. A 5 inch air bubble is present in the tubing at the circle seal valve. NOTE: This snubber was damaged during shipment as documented on CPCo NCR M-03-3-1-082. Snubber was re-purged, blocked and strapped under the direction of ITT Grinnell Representative.	
1I2-1	22702 Reject Tag 688	Two (2) bladders were installed. Both bladders clamped at Tygon tubing. Air present in tubing. Shipping blocks and straps have not been removed (i.e. Snubber piston has not been stroked.)	
1E4-1	22691 Reject Tag 689	Bladder(s) have been removed. Air was present in Tygon tubing. Snubber will have to be re-purged. Shipping blocks and straps have not been removed.	
1E4-2	22692 Reject Tag 690	Bladder(s) have been removed. Air was present in Tygon tubing. Snubber will have to be re-purged. Shipping blocks and straps have not been removed.	
1G1-1	22695 Reject Tag 691	Bladder(s) have been removed. Air was present in Tygon tubing. Snubber piston was re-tracked, blocked and strapped. Snubber will have to be re-purged.	
1D2-2	22657 Reject Tag 692	Bladder(s) have been removed. Air was present in Tygon tubing. Blocks and straps were re-installed. Snubber piston was not stroked. Snubber will have to be re-purged.	
1D2-1	22703 Reject Tag 693	Bladder(s) have been removed. Air was present in Tygon tubing. Blocks and straps were re-installed. Snubber piston was not stroked. Snubber will have to be re-purged.	
2J2-2	22676 Reject Tag 694	One (1) bladder has been installed. A two (2) inch bubble is present in the Tygon tubing at the circle seal valve. Shipping blocks and straps have not been removed.	
2J2-1	22679 Reject Tag 695	One (1) bladder has been installed. A 1/16 inch bubble present in Tygon tubing. Shipping blocks and straps have not been removed.	

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640



January 27, 1982

Babcock & Wilcox Company
B & W Construction Company
P. O. Box 1984
Midland, MI 48640

Attention: Mr. W. J. Lee

Job 7220 Midland Project
Subcontract 7220-M-1A
RCP Snubbers - B & W NCR's
2132 and 2139
M-1A-B-1256

Dear Mr. Lee:

Reference: B&WCC RFI's 754 and 800

This letter is to advise you that the project recommended disposition for B&WCC NCR's 2132 and 2139 is that these snubbers should be re-filled and repurged by ITT-Grinnell in accordance with their procedures.

This work will be accomplished onsite in Warehouse #2, and is scheduled to begin on Wednesday, January 27, 1982.

B&WCC is requested to provide all manpower necessary to support this effort.

Very truly yours,

L. E. Davis
Site Manager

LED/RCA/DD/pjp

✓	CEB	
	TWD	
✓	RRF	
	FILE	
✓	WGH	
✓	WJL	
✓	WGL	
	SAFETY	
	MSS	
	SCH	
✓	SLT	
	RMV	

W. J. LEE

JAN 27 1982

FROM

S.L. TAULBEE
FIELD Q.C. SUPERVISOR
B&WCC

DATE

1/29/82

SUBJECT

ANI Approval of
NCR 2139 and
FCP 398 Rev. 2 Unit 2

TO

W.G. HALL
FIELD PROJECT ENGINEER
B&WCC

MESSAGE

THE SUBJECT NCR and FCP HAVE BEEN VERBALLY
RELEASED FOR CONSTRUCTION PER PHONE CONVERSATION
WITH C. ANSORGE, Authorized Nuclear Inspector. Mr. ANSORGE
WILL DOCUMENT HIS REVIEW OF THESE DOCUMENTS
AT HIS NEXT VISIT.

SIGNED

SL Taulbee 1/29/82

REPLY

SIGNED

1. JOB NUMBER CL-238		2. UNIT NUMBER 2		3. DATE 12-4-81		4. ITEM NAME Inner Mast Assy.		5. ITEM NUMBER MK 2000	
6. VENDOR/MANUFACTURER Hearns Rogers (B&W)		7. DISCOVERED DURING <input checked="" type="checkbox"/> RECEIVING <input type="checkbox"/> TEST <input type="checkbox"/> CONST.			8. REJECT TAG NUMBER 684		9. PROCEDURE NUMBER FCP #77		
10. SPECIFICATION NUMBER B&W 08-1071000003-05			11. DRAWING NUMBER 22355-75			12. PRIOR REPORT OF NONCONFORMITY# N/A			
3. DESCRIPTION OF NONCONFORMITY Pipe is bent approximately 3° at threads where coupling MK #2978 is screwed on. (See attached sheet). Shipping box was not damaged.									
4. REPORTED BY <u>V.E. Booker</u> <u>12-4-81</u> NAME DATE				15. VERIFIED BY <u>[Signature]</u> <u>12-4-81</u> NAME DATE			16. CORRECTIVE ACTION REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <u>[Signature]</u> <u>12-4-81</u> FIELD PROJECT ENGINEER DATE									
18. RECOMMENDED DISPOSITION: <input type="checkbox"/> N/A <input type="checkbox"/> REWORK <input type="checkbox"/> REPAIR <input type="checkbox"/> REPLACE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> ACCEPT AS IS									
19. TECHNICAL JUSTIFICATION/OR RECOMMENDED DISPOSITION INSTRUCTIONS B&WCC recommends "accept as is". <u>[Signature]</u> <u>12-4-81</u> FIELD PROJECT ENGINEER DATE									
20. ACTUAL DISPOSITION: <input type="checkbox"/> REWORK <input type="checkbox"/> REPAIR <input type="checkbox"/> REPLACE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> ACCEPT AS IS									
21. DISPOSITION INSTRUCTIONS "Accept as is" of the "bent" condition upon completion of an acceptable pressure test as stated on Page No. 2, per COM Letter #70. SGC ATTACHMENT #1 COM #70 <u>[Signature]</u> <u>2-9-82</u> FIELD PROJECT ENGINEER DATE									
22. APPROVALS B&W FOC <u>[Signature]</u> <u>2/10/82</u> OTHER SIGNATURE DATE OWNER AGENT <u>[Signature]</u> <u>2/19/82</u> OTHER SIGNATURE DATE						23. ANI REVIEW <u>[Signature]</u> <u>2-23-82</u> SIGNATURE DATE			
24. DISPOSITION COMPLETED NAME DATE			25. DISPOSITION VERIFICATION <input type="checkbox"/> ACCEPTABLE <input checked="" type="checkbox"/> UNACCEPTABLE <u>[Signature]</u> <u>2/24/82</u> NAME DATE REPORT OF NONCONFORMITY # 2166						
25. CORRECTIVE ACTION									
FIELD PROJECT MANAGER DATE									
27. NONCONFORMITY CLOSED <u>[Signature]</u> <u>2/24/82</u> FIELD QUALITY CONTROL SUPV. DATE									

REPORT OF NONCONFORMITY

OS NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL-238	#2	2-8-82	2136

1. Pressure test the damaged line identified on Page #1 using nitrogen at 125 P.S.I. for two (2) hours.

SEE NOTE BELOW

DUE TO THE CONDITION AS
REPORTED PER NCR 2166 THE NCR
IS NO LONGER VALID AND WILL
BE CLOSED AT MYHALL 2-26-82

- * 2. Inspect and verify pressure testing of the damaged pipe with nitrogen at 125 P.S.I. for two (2) hours. Any deviation in the pressure reading is to be reported to Engineering. Q.C. to chart and record readings every thirty (30) minutes.

FIELD COPY

Fittings were installed to pressure test the damaged line. During this time a cleaning process was being performed on the inner mast. To do the cleaning it was required to raise the inner mast about 2'6". During this raising the test fittings became hung on the structure above the mast and the pipe being tested was bent about 45°. In order to complete the cleaning of the mast these test fittings were removed. Ed Bullen 2/23/82

Babcock & Wilcox

a McDermott company

Nuclear Power Generation Division

3315 Old Forest Road
P.O. Box 1200
Lynchburg, Virginia 24505
(804) 384-5111

Attachment #1
NCR # 2136

AMH
2-19-82

January 20, 1982

SOM #70
12/241/00
12B44

Mr. D. B. Miller, Jr.
Site Manager
Consumers Power Company
Post Office Box 1963
Midland, MI 48640

Subject: FUEL TRANSFER BRIDGE INNER MASTS

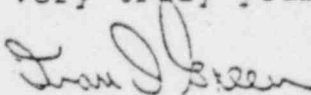
Dear Mr. Miller:

B&W Engineering agrees with Stearns-Roger's that there is not a problem with the 3° bend in the pipe on the fuel transfer bridge inner mast referred to in RFI #776 and NCR #2136.

We do recommend a pressure test on the air line for verification of performance. Pressurize the line with nitrogen at 125 psi for two hours and do a leak test.

If you have any questions, please advise.

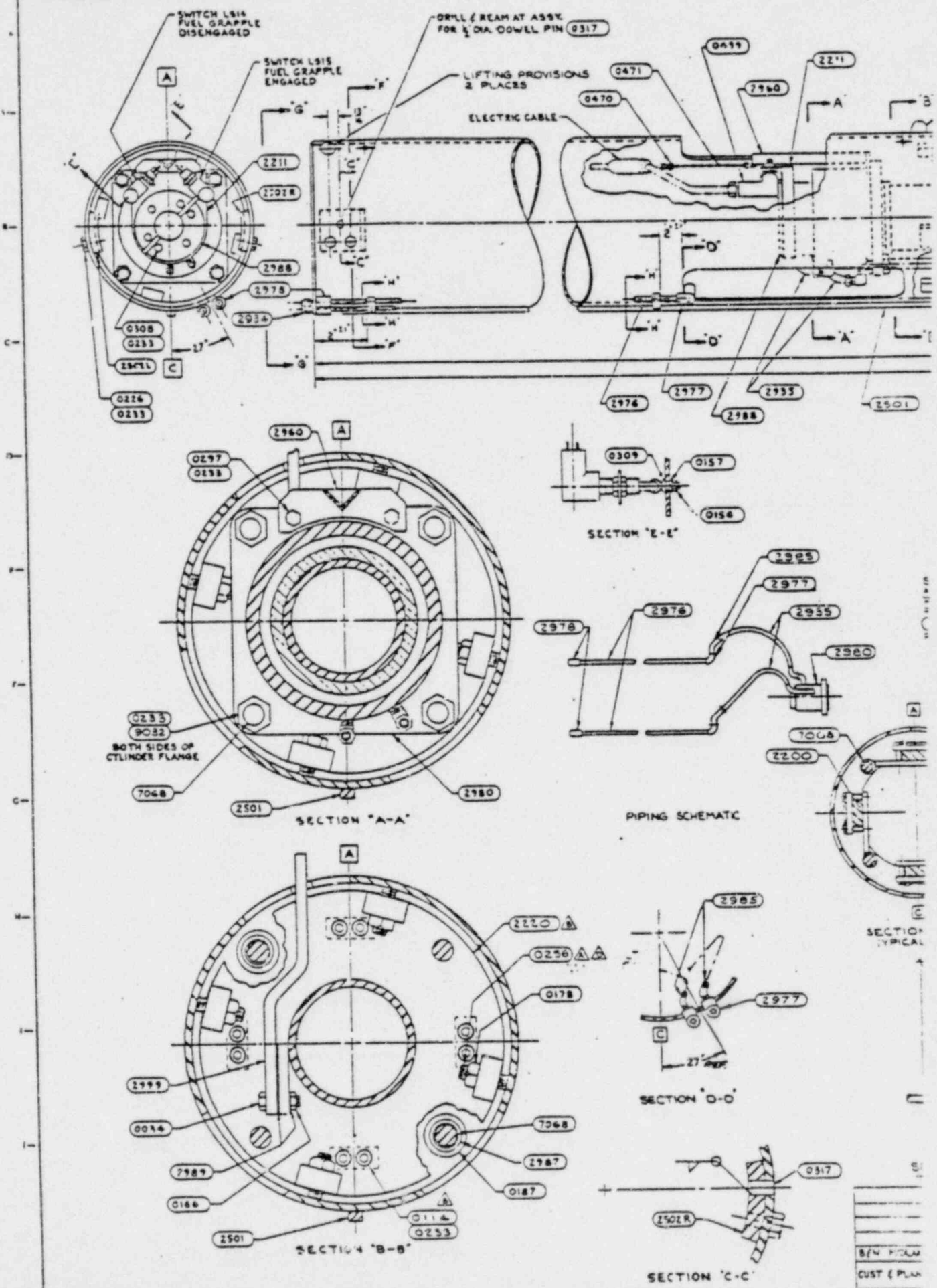
Very truly yours,



I. D. Green
Site Operations Manager

IDG:dcw

CC: G. B. Slade
L. E. Davis
S. M. Love
J. T. Walton
R. J. Ansell
D. F. Judd
T. A. Bransberg
R. C. Kline
L. D. Cline



REPORT OF NONCONFORMITY

[illegible]

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640



January 27, 1982

Babcock & Wilcox Company
B & W Construction Company
P. O. Box 1984
Midland, MI 48640

Attention: Mr. W. J. Lee

Job 7220 Midland Project
Subcontract 7220-M-1A
RCP Snubbers - B & W NCR's
2132 and 2139
M-1A-B-1256

Dear Mr. Lee:

Reference: B&WCC RFI's 754 and 800

This letter is to advise you that the project recommended disposition for B&WCC NCR's 2132 and 2139 is that these snubbers should be re-filled and repurged by ITT-Grinnell in accordance with their procedures.

This work will be accomplished onsite in Warehouse #2, and is scheduled to begin on Wednesday, January 27, 1982.

B&WCC is requested to provide all manpower necessary to support this effort.

Very truly yours,

L. E. Davis
Site Manager

LED/RCA/DD/pjp

✓	CEB	
	TWD	
✓	RRF	
	FILE	
✓	WGH	
✓	WJL	
✓	WGL	
	SAFETY	
	MSS	
	SCH	
✓	SLT	
	RMV	

W. J. LEE

JAN 27 1982

REPORT OF NONCONFORMITY

1. JOB NUMBER CL-238		2. UNIT NUMBER #1		3. DATE 11/2/81		4. ITEM NAME RC Motor Mount Snubbers		5. ITEM NUMBER 1D1-2 1C1-2	
6. VENDOR/MANUFACTURER ITT Grinnell			7. DISCOVERED DURING <input type="checkbox"/> RECEIVING <input type="checkbox"/> TEST <input checked="" type="checkbox"/> CONST.		8. REJECT TAG NUMBER Reject #674, #675 Caution #354, #355			9. PROCEDURE NUMBER #331	
10. SPECIFICATION NUMBER 7220-C-70(Q)				11. DRAWING NUMBER N/A			12. PRIOR REPORT OF NONCONFORMITY: N/A		
13. DESCRIPTION OF NONCONFORMITY 1. Snubber 1C1-2 was being removed to provide access to snubber 1G1-2 (Ref. B&WCC letter M-1A-(P)-786). During removal of snubber 1C1-2, B&W personnel witnessed air bubbles seeping from the snubber into the tygon tubing leaving a 13 inch air bubble in the tygon tubing. 2. During daily inspection of snubber 1D1-2, a 3 inch air bubble was discovered in the tygon tubing on 10/12/81. As of 11/2/81, the bubble had increased its length to 4 inches.									
14. REPORTED BY <i>C. J. Bowen</i> NAME DATE 11-3-81				15. VERIFIED BY <i>S. L. Taulbee</i> NAME DATE 11/3/81			16. CORRECTIVE ACTION REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <i>[Signature]</i> FIELD PROJECT ENGINEER DATE 11/3/81									
18. RECOMMENDED DISPOSITION: <input type="checkbox"/> A <input checked="" type="checkbox"/> RWORK <input type="checkbox"/> REPAIR <input type="checkbox"/> REPLACE <input type="checkbox"/> RETURN <input type="checkbox"/> ACCEPT AS IS									
19. TECHNICAL JUSTIFICATION/OR RECOMMENDED DISPOSITION INSTRUCTIONS Bechtel to advise. <i>[Signature]</i> FIELD PROJECT ENGINEER DATE 11/5/81									
20. ACTUAL DISPOSITION: <input checked="" type="checkbox"/> RWORK <input type="checkbox"/> REPAIR <input type="checkbox"/> REPLACE <input type="checkbox"/> RETURN <input type="checkbox"/> ACCEPT AS IS									
21. DISPOSITIVE INSTRUCTIONS The 1D1-2 and 1C1-2 snubbers are to be re-filled and re-purged by ITT Grinnell in accordance with their procedures. B&WCC considers this N.C.R. closed. See Attachment #1 Bechtel letter M-1A-B-1274. <i>[Signature]</i> FIELD PROJECT ENGINEER DATE 2/23/82									
22. APPROVALS B&W FQC SIGNATURE <i>S. L. Taulbee</i> DATE 2/23/82 OTHER _____ OWNER AGENT SIGNATURE <i>M. Williams</i> DATE 2/24/82 OTHER _____						23. ANI REVIEW SIGNATURE <i>C. [unclear]</i> DATE 2-25-82			
24. DISPOSITION COMPLETED <i>[Signature]</i> DATE 2/26/82			25. DISPOSITION VERIFICATION <i>J. E. Warrum</i> DATE 2/26/82			<input checked="" type="checkbox"/> ACCEPTABLE <input type="checkbox"/> UNACCEPTABLE REPORT OF NONCONFORMITY :			
25. CORRECTIVE ACTION 									
27. NONCONFORMITY CLOSED <i>J. E. Warrum</i> DATE 2/26/82 FIELD QUALITY CONTROL SUPV. DATE									

ATTACHMENT # 1
NCR # 2131

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640



February 18, 1982

Babcock and Wilcox Company
B & W Construction Company
P. O. Box 1984
Midland, MI 48640

Attention: Mr. W. J. Lee

W. J. LEE

FEB 19 1982

Job 7220 Midland Project
Subcontract 7220-M-1A
RCP Snubber - RFI's
M-1A-B-1274

Dear Mr. Lee:

- References: 1) B&WCC RFI's 753, 754, 801, 804, 812
2) Bechtel letter dated 1/27/82, M-1A-B-1256

This letter is in response to B&WCC RFI's noted in reference #1:

RFI 753 - NCR 2131 regarding snubbers 1G1-2 and 1D1-2

Project Engineering recommends that these snubbers be refilled and repurged onsite in Warehouse #2 by ITT-Grinnell in accordance with their procedures.

RFI 754 - NCR 2132 regarding snubber 1G1-2

In reference #2, you were advised that this snubber could be refilled and repurged onsite. It has since been determined that it should be returned to ITT-Grinnell for repair and testing. This snubber, 1G1-2, also requires clevis machining. The clevis should be removed, machined and reinstalled onto the 1G1-2 snubber prior to preparing it for shipment. Please advise Subcontracts as to when this snubber will be available to ship to ITT-Grinnell.

RFI 801 - NCR 2140 regarding damaged circle seal valve O-Rings

It is project engineering's understanding that the disassembly of the circle seal valves is a delicate operation. ITT-Grinnell, the vendor responsible for supplying the valves, has not provided procedures for disassembly or reassembly of the valves. The results of the field inspection must be judged inconclusive, since the O'Ring can be damaged during disassembly. Project Engineering recommends that the six valves in question be returned to ITT-Grinnell for repair and reassembly. In the future, disassembly of any snubber component should

✓	CEB	
	TWD	
✓	RRF	
	FILE	
✓	WGH	
✓	WJL	WJL
✓	WGL	
	SAFETY	
	MSS	
✓	SCH	
✓	SLT	
	RMV	
✓	D.C.	DC

not be attempted by construction unless a project engineering approved procedure from ITT-Grinnell is available or an ITT-Grinnell representative is present

RFI 804 - NCR 2141 regarding leaking circle seal valve on snubber 1D4-1

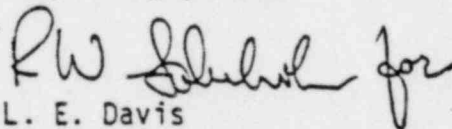
2 Project engineering recommends that the leaking circle seal valve be replaced and returned to ITT-Grinnell for repair or credit. Please re-stock those valves mentioned in RFI's 801 and 804 to Warehouse #2 for return to ITT-Grinnell. Valve for snubber 1D4-1 should be marked accordingly.

RFI 812 - NCR 2142 regarding oil leak in snubber valve tubing of snubbers 2C1-1 and 2C1-2

Project engineering has inspected these snubbers and can find no evidence of leakage on snubber 2C1-1. It is recommended that leakage be verified and if none exists, to use this snubber as-is. Snubber 2C1-2 has an oil leak and damaged snubber tubing. This snubber shall be returned to ITT-Grinnell for repair and testing. Please advise Subcontracts of the status of snubber 2C1-1. Snubber 2C1-2 should be prepared for shipment to ITT-Grinnell. When this work is complete, please notify Subcontracts so return can be coordinated.

Your response is requested by February 26, 1982.

Very truly yours,



L. E. Davis
Site Manager

LED/RCA/DD/pjp

REPORT OF NONCONFORMITY

1. JOB NUMBER CL-238	2. UNIT NUMBER #1	3. DATE 10-27-81	4. ITEM NAME Reactor Vessel	5. ITEM NUMBER N/A
6. VENDOR MANUFACTURER Babcock & Wilcox	7. DISCOVERED DURING <input type="checkbox"/> RECEIVING <input type="checkbox"/> TEST <input checked="" type="checkbox"/> CONST.	8. REJECT TAG NUMBER 672	9. PROCEDURE NUMBER N/A	
10. SPECIFICATION NUMBER N/A	11. DRAWING NUMBER N/A	12. PRIOR REPORT OF NONCONFORMITY# N/A		
13. DESCRIPTION OF NONCONFORMITY Arc strike strike on O.D. of Reactor Vessel, 2 1/2' above east core flood line. Size 3/64" x 9/64", no depth.				
14. REPORTED BY C. J. Browner 10-27-81 NAME DATE		15. VERIFIED BY S. L. Taulber 10/28/81 NAME DATE		16. CORRECTIVE ACTION REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO FIELD PROJECT ENGINEER: W. H. Hall 10/28/81 DATE				
18. RECOMMENDED DISPOSITION: <input checked="" type="checkbox"/> N/A <input type="checkbox"/> REWORK <input type="checkbox"/> REPAIR <input type="checkbox"/> REPLACE <input type="checkbox"/> RETURN <input type="checkbox"/> ACCEPT AS IS				
19. TECHNICAL JUSTIFICATION/OR RECOMMENDED DISPOSITION INSTRUCTIONS See disposition instructions. FIELD PROJECT ENGINEER: W. H. Hall 1/22/82 DATE				
20. ACTUAL DISPOSITION: <input type="checkbox"/> REWORK <input checked="" type="checkbox"/> REPAIR <input type="checkbox"/> REPLACE <input type="checkbox"/> RETURN <input type="checkbox"/> ACCEPT AS IS				
21. DISPOSITION INSTRUCTIONS Grind to remove heat affected zone per Page 2 as outlined in SOM letter No. 59. FIELD PROJECT ENGINEER: W. H. Hall 1/22/82 DATE				
22. APPROVALS B&W FQC: J. E. W. Whitaker 1-22-82 OTHER: _____ SIGNATURE DATE SIGNATURE DATE OWNER/AGENT: R. E. Whitaker 1/27/82 OTHER: _____ SIGNATURE DATE SIGNATURE DATE			23. ANI REVIEW C. J. Browner 2-18-82 SIGNATURE DATE	
24. DISPOSITION COMPLETED W. H. Hall 2-23-82 NAME DATE		25. DISPOSITION VERIFICATION <input checked="" type="checkbox"/> ACCEPTABLE <input type="checkbox"/> UNACCEPTABLE J. E. W. Whitaker 2-24-82 NAME DATE REPORT OF NONCONFORMITY #		
25. CORRECTIVE ACTION FIELD PROJECT MANAGER: _____ DATE: _____				
27. NONCONFORMITY CLOSED J. E. W. Whitaker 2-24-82 FIELD QUALITY CONTROL SUPV. DATE				

REPORT OF NONCONFORMITY

JOB NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL-238	#1	1-22-82	2129

Steps No. 1 and No. 2 are to be worked in parallel and shall be repeated until the heat affected zone is removed.

1. Grind the arc strike area to remove the heat affected zone by grinding in depth stages of .010". After each .010" removal, Q.C. is to etch the area as stated in Step No. 2.

Repeat grinding in depth spaces of .010" until heat affected zone is removed.

2-22-82 C. Melanson

Dial Depth Gauge CU3-22 Due 5-25-82

- * 2. Q.C. to etch to verify removal of the heat affected zone after every .010" removal using a 20 percent solution of ammonium persulfate in water. per 9-WG-104, Rev. 2. Repeat etching until the heat affected zone is removed (the heat affected area is revealed as a charcoal-gray area contrasting with the lighter, slate gray area surrounding it).

Dial Depth Gauge CU3-22 Due 5-25-82

ETCHING OK 2-22-82 B. EASTMAN L. Scale 2-22-82

3. Upon removal of the heat affected zone, blend grind the cavity to a 3:1 taper minimum so that no sharp corners exist. 2-22-82 C. Melanson

±

- * 4. M.T. the cavity area per 9-MT-105.

NOTE: If indications exist, record size of cavity, depth of cavity, and size of indication to engineering.

MT OK 2-22-82 #11980 B. EASTMAN

- * 5. Inspect and record size and depth of cavity. Report to engineering 2-23-82

A.N. I HOLD PT.

1 1/2" LONG CU3-22 CYB 2-23-82
3/4" WIDE DUE 5-25-82 CWA - ANI
.050 DEEP CYB 2-23-82 2-23-82

6. Engineering to submit the size and depth of cavity to NPGD.

NOTE: Upon response from NPGD, further disposition will be issued if additional work is required.

THIS STEP IS NOT REQUIRED AS OUTLINED ON SOME LOGS #59
DUE TO THE CAVITY NOT VIOLATING MINIMUM WALL THICKNESS OF THE
REACTOR VESSEL

W. H. H. 2-23-82

FIELD COPY

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640



December 31, 1981

Babcock & Wilcox Company
B & W Construction Company
P. O. Box 1984
Midland, Michigan 48640

Attention: W. J. Lee

Job 7220 Midland Project
Subcontract 7220-M-1A
NCR 2129
M-1A-B-1221

Dear Mr. Lee:

This letter is in response to your NCR #2129 regarding "Reactor Vessel Arc Strikes". Attached is a copy of SOM #59 and a copy of the Inspection, Maintenance and Cleaning Procedure, SPR-B-12-236-00.

This information should disposition your NCR, however, should you have further concerns please contact our Subcontracts Department.

Very truly yours,

L. E. Davis

L. E. Davis
Site Manager

LED/RCA/SAS/pjp

Copy

<input checked="" type="checkbox"/>	CEB	
<input type="checkbox"/>	TWD	
<input type="checkbox"/>	RRF	
<input type="checkbox"/>	FILE	
<input checked="" type="checkbox"/>	WGH	<i>WAL</i>
<input checked="" type="checkbox"/>	WJL	<i>WAL</i>
<input checked="" type="checkbox"/>	WGL	
<input type="checkbox"/>	SAFETY	
<input type="checkbox"/>	MSS	
<input checked="" type="checkbox"/>	SCH	
<input checked="" type="checkbox"/>	SLT	<i>W</i>
<input type="checkbox"/>	RMV	

W. J. LEE

JAN 4 1982



Babcock & Wilcox

a McDermott company

Nuclear Power Generation Division

3315 Old Forest Road
P.O. Box 1260
Lynchburg, Virginia 24505
(804) 384-5111

December 15, 1981

SOM #59
12/236/00
12B51

Mr. D. B. Miller, Jr.
Site Manager
Consumers Power Company
Post Office Box 1963
Midland, MI 48640

Subject: REACTOR VESSEL ARC STRIKE

Dear Mr. Miller:

B&W Engineering has reviewed NCR #2129 and made the following comment:

"Remove arc strike area, including heat affected zone, by following the procedure outlined in B&W Reactor Vessel Instruction Manual (Paragraph 10.2). Attached, for your convenience, is a copy of the section. Report the final depths if required by Paragraph 10.2."

If you have any questions, please advise.

Very truly yours,

I. D. Green
Site Operations Manager

IDG/BLC/dcw

CC: G. B. Slade
L. E. Davis
J. T. Walton
S. M. Love
D. F. Judd
R. J. Ansell
L. D. Cline
J. W. Mitchem

SECTION 10

INSPECTION AND MAINTENANCE AND CLEANING

10.1 INSPECTION

The internal surfaces of the reactor vessel are in contact with radioactive primary coolant of the reactor coolant system; therefore, high radioactivity levels will be present during operation and may be present for long periods after shutdown. Personnel working in the immediate proximity or near the reactor vessel should be thoroughly familiar with the hazards involved, and shall not perform any inspection or maintenance prior to consulting the health-physics procedures/personnel.

Inspections must be in accordance with appropriate ASME Boiler and Pressure Vessel Code.

WARNINGS

1. Prior to performing any inspection or maintenance of the reactor vessel, extreme care should be taken to prevent injury to personnel due to radiation, pressure, or temperature.
2. The reactor vessel must be depressurized before any maintenance is attempted. Do not loosen the closure studs until the water pressure is reduced to zero psig.

The external surfaces of the reactor vessel should be visually inspected periodically for signs of corrosion. The protective insulation may be removed to accommodate inspection. (To inspect the external surfaces of the reactor vessel, the annulus shelf must be removed to gain access to the annulus cavity.)

10.2 MAINTENANCE

Welding, burning, chipping, grinding, arc strikes, impacts, notches, grooves, or stress concentrations shall not be permitted on the reactor vessel or closure head at any time during handling, installation, or operation. Exceptions will only be permitted when specifically designated by the Plant Operating Engineer.

If it should be necessary to weld near the reactor vessel or closure head, caution should be exercised to avoid arc strikes on the reactor vessel or closure head. Should an arc strike occur on the base metal surfaces, adhere to the following procedure.

1. Immediately report the incident to the Plant Operating Engineer.
2. Grind out the heat affected zone in depth stages of 0.010 inch.
3. After each grinding stage, wipe the area with a 20 percent solution of ammonium persulfate in water to determine whether the heat affected area still remains (the heat affected area is revealed as a charcoal-gray area contrasting with the lighter, slate-gray area surrounding it).
4. When the heat affected area has completely been removed, blend the area by grinding (3:1 taper minimum) so that no sharp curves or notches are perceptible.
5. Inspect the area by the dry magnetic particle process.

CAUTION

If removal of the arc strike reduces the wall thickness of the reactor vessel or closure head to less than the minimum requirements, report the damage to The Babcock & Wilcox Company for approval of any proposed repair.

10.3 CLEANING

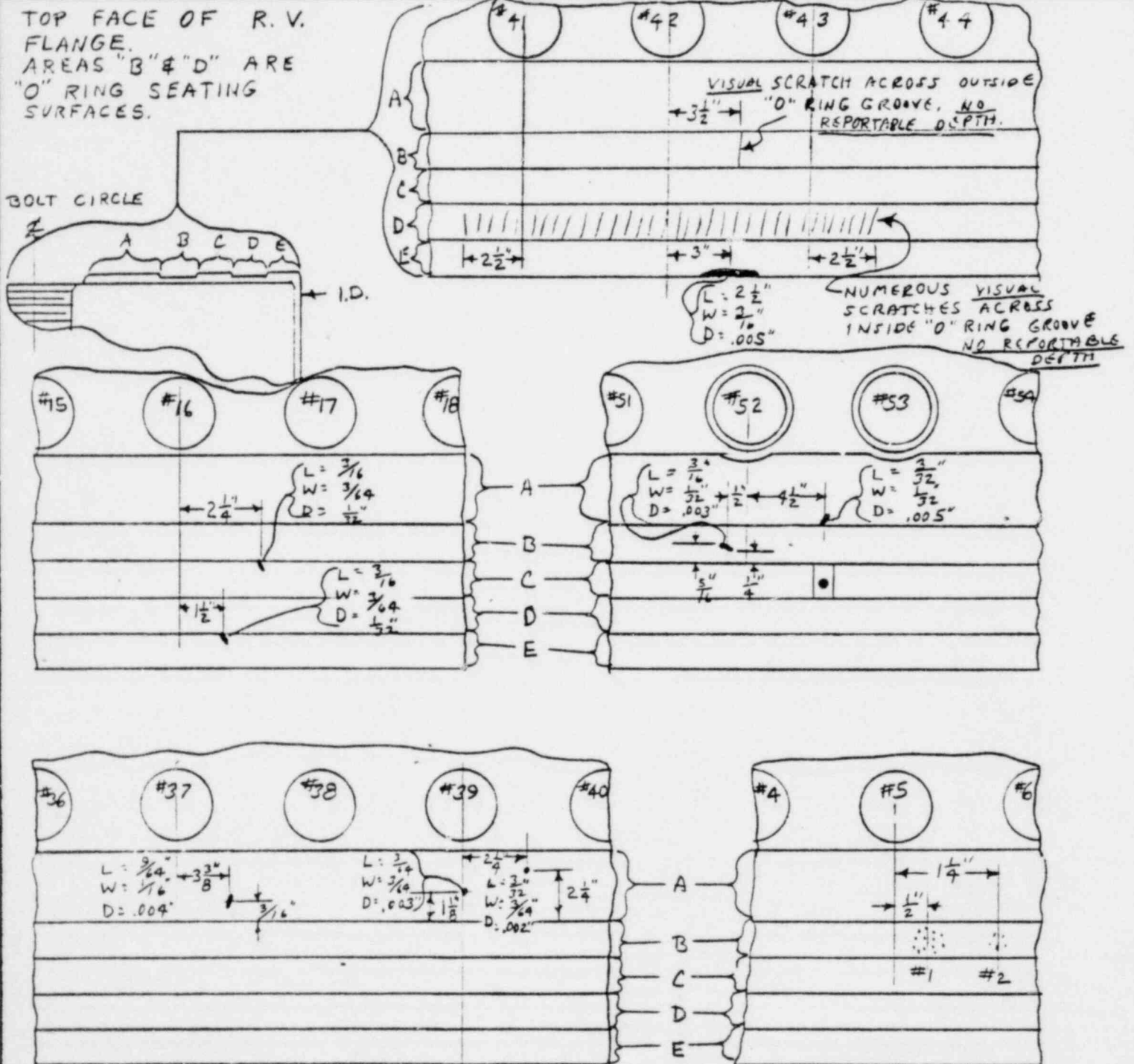
Reactor Vessel cleanness shall be in accordance with Field Specifications and B&W Cleaning Specification 10-1395.

Seating and Gasket Surface Cleanness is Critical. Minor scratches or blemishes in the gasket, gasket seating surfaces, or the sealing surfaces may cause the seal to leak. A fine emery cloth may be used for polishing out minor imperfections (all polishing should be done in a circular lay); followed by proper cleaning.

1. JOB NUMBER CL-238		2. UNIT NUMBER #1		3. DATE 2-17-81		4. ITEM NAME Reactor Vessel		5. ITEM NUMBER IT51	
6. VENDOR MANUFACTURER Babcock & Wilcox		7. DISCOVERED DURING <input type="checkbox"/> RECEIVING <input type="checkbox"/> TEST <input checked="" type="checkbox"/> CONST.		8. REJECT TAG NUMBER 568		9. PROCEDURE NUMBER FCP #298			
10. SPECIFICATION NUMBER N/A			11. DRAWING NUMBER 196897E, Rev. 4			12. PRIOR REPORT OF NONCONFORMITY: N/A			
13. DESCRIPTION OF NONCONFORMITY Inspection of Reactor Vessel Sea? Ledge for damage following the "Par" Program revealed damage to that surface. See Page 2 of 2 for a detailed chart of the areas.									
14. REPORTED BY <u>P.C. Chanthel</u> <u>2-17-81</u> NAME DATE				15. VERIFIED BY <u>RW Shope</u> <u>2-17-81</u> NAME DATE			16. CORRECTIVE ACTION REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <div style="text-align: right;"><u>H.H. Lim</u> <u>2-17-81</u> FIELD PROJECT ENGINEER DATE</div>									
18. RECOMMENDED DISPOSITION: <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> Rework <input type="checkbox"/> Repair <input type="checkbox"/> Replace <input type="checkbox"/> Return <input type="checkbox"/> Accept as Is									
19. TECHNICAL JUSTIFICATION OR RECOMMENDED DISPOSITION INSTRUCTIONS N/A ^{a/closure} <u>2-19-81</u> Handwork chartered areas per Page No. 3. <div style="text-align: right;"><u>H.H. Lim</u> <u>2-19-81</u> FIELD PROJECT ENGINEER DATE</div>									
20. ACTUAL DISPOSITION: <input checked="" type="checkbox"/> Rework <input type="checkbox"/> Repair <input type="checkbox"/> Replace <input type="checkbox"/> Return <input type="checkbox"/> Accept as Is									
21. DISPOSITION INSTRUCTIONS Handwork chartered areas per Page No. 3. ^{a/closure} <u>2-19-81</u> accordance with letter No. 12-194-00 from I.D. Green to Steve Loyd dated 6/10/81. <div style="text-align: center;"><u>H.H. Lim</u> <u>G-22-91</u> <u>5/4/81</u> FIELD PROJECT ENGINEER DATE</div>									
22. APPROVALS BS&W FQC <u>S.L. Taulber</u> <u>6/22/81</u> OTHER _____ SIGNATURE DATE SIGNATURE DATE OWNER AGENT <u>[Signature]</u> <u>9/15/81</u> OTHER _____ SIGNATURE DATE SIGNATURE DATE						23. ANI REVIEW <u>C. [Signature]</u> <u>10-6-81</u> SIGNATURE DATE			
24. DISPOSITION COMPLETED <u>L. Soles</u> <u>2-13-82</u> NAME DATE			25. DISPOSITION VERIFICATION <u>SL Taulber</u> <u>2/23/82</u> <input checked="" type="checkbox"/> ACCEPTABLE <input type="checkbox"/> UNACCEPTABLE NAME DATE REPORT OF NONCONFORMITY:						
25. CORRECTIVE ACTION									
					_____ FIELD PROJECT MANAGER			_____ DATE	
27. NONCONFORMITY CLOSED <div style="text-align: center;"><u>SL Taulber</u> <u>2/23/82</u> FIELD QUALITY CONTROL SUPV. DATE</div>									

REPORT OF NONCONFORMITY

JOB NUMBER CL 238	UNIT NUMBER 1	DATE 2-17-81	REPORT OF NONCONFORMITY # 1779
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ALL AREAS HAVE RAISED METAL.
TOP VIEWS ARE EXPANDED AND NOT
TO SCALE.

CU 3-22

(13) TOTAL
(5) TOTAL

REPORT OF NONCONFORMITY

JOB NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL-238	1	2-19-81	1779

1. Using crocus clothe/scotch brite with a wood block, hand work the areas charted to remove the raised metal and scratches.

NOTE: All work to be done in one direction to follow the circular lay of the surface.

- * 2. Inspect handworking of the raised metal and scratched areas as charted on Page 2. Verify raised metal has been removed and scratches blended.

VOID

W. H. Paul
6/22/91

REPORT OF NONCONFORMITY

JOB NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL-238	1	6-22-81	1779

1. Using fine emery cloth/scotch brite, hand work all reported areas in the "O"-ring seating grooves (areas B & D of sketch on Page 2) to a smooth finish. All blending of scratches must be one inch (1") in each direction for each .001" of their depth.

NOTE: All working of surfaces must be done in circumferential direction -
Never Radially.

VOID
w/ Hall
9/4/81

2. Using fine emery cloth/scotch brite, hand dress all remaining areas (Areas A, C & E) to remove all upset and raised metal.

- * 3. A. Inspect hand working of the "O"-ring seating grooves, Areas B and D, as stated per Step 1.
- B. Inspect hand working of all remaining Areas A, C, & E as stated per Step 2.

REPORT OF NONCONFORMITY

FIELD COPY

JOB NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL-238	#1	9/4/81	1779

1. Using fine emery cloth/scotch brite, hand work all reported areas in the "O" ring seating grooves (areas B & D of sketch on Page 2) as required to meet the surface requirements of Dwg. 142141E, Rev. 11. All blending of scratches must be one inch (1") in each direction for each .001" of their depth.

NOTE: *2-13-82 C. Meldrum*
All working of surfaces must be done in a circumferential direction - never radially.

2. Using fine emery cloth/scotch brite, hand dress all remaining areas (areas A, C & E) to remove all upset and raised metal. *2-13-82 C. Meldrum*

- * 3. A. Inspect hand working of the "O" ring seating grooves, areas B and D, as stated per Step 1.

NOTE: To verify the requirements of Step 1 have been met, a straight edge, scale, and feeler gages will be used for inspecting the blending requirements and a comparator gage will be used to verify surface requirements.

- B. Inspect hand working of all remaining areas A, C, & E as stated per ~~Step~~ Step 2.

NOTE: CLEANING OF THESE AREAS WILL BE PERFORMED
IN AN F.C.P. PRIOR TO FINAL SGT OF THE
REACTOR VESSEL CLOSURE HEAD - *WYHAW 10-6-81*

Comparator Gage S-22 8L Finish
12" Scale CU13-10

A+B All work completed OK *A. Scales* 2-13-82

BABCOCK & WILCOX C .NY
POWER GENERATION GROUP

To STEVE LOVE, BECHTEL, SUBCONTRACTS

From IVAN GREEN, B&W, SITE OPERATIONS MANAGER

BDS 66

Cust. CONSUMERS POWER COMPANY

File No.
or Ref. 12-194-00

Subj. REACTOR VESSEL SEAL LEDGE SCRATCHES - UNIT 1

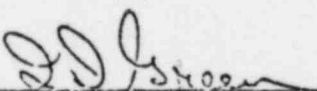
Date JUNE 10, 1981

This letter is cover one customer and one subject only.

B&W Engineering has received the information contained in NCR #1779 and provide the following recommendations;

1. O-Ring seating grooves (Areas B&D of sketch in NCR #1779) all reported scratches on the grooves to be hand dressed to a smooth finish using fine emery cloth. All working of surfaces must be done in the circumferential direction - never radially. All blending of scratches must be one inch (1") in each direction for each .001" of their depth.
2. All other reported scratches (Areas A, C, & E) hand dress with fine emery cloth all reported areas to remove all upset and raised metal.
3. Clean all repaired areas in accordance with appropriate B&WCC Specifications.

If you have any questions, please advise.


I. D. Green

cc: D. B. Miller

T. J. Walton

D. F. Judd

W. J. LEE
JUN 10 1981

B&W ISI
Open NCR's

B&W ISI
Closed NCR's

There were no B&W
ISI NCR's open or
closed for Feb.

CPCo

Open NCR's



Consumers
Power
Company
9A27-0

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

Priority: 1 Trend: A-1 K-1 SUS: PGMIDM AI: S-1262 PAGE 1 OF 3

6. PROJECT NAME: Midland 1 and 2		7. NONCONFORMING PART NO: N/A		8. NONCONFORMING PART NAME: See Page 3		1. NCR SERIAL NO: M01-4-2-008 Rev 1	
9. SERIAL NUMBER: N/A		10. ORG. COMMITTING NC: Bechtel Construction		11. AREA/LOC. OF NC: Ap x Grid location E539, S5135		2. DATE: 2/2/82	
12. AS IS' NONCONFORMING CONDITION VERSUS 'AS REQUIRED' CONDITION WITH REFS: 10CFR50 Appendix B Section V, states in part, "1) Activities affecting quality shall be: a) Prescribed by documented instructions, procedures or drawings, of a type appropriate to the circumstances..." Contrary to this requirement, a 42 inch by 40 foot deep hole was drilled by rotary method within the "Q" fill area at grid location E539, S5135. A 36 inch closed bottom casing has been set in this hole. No means of protection had been established for this drilling operation, leaving the adjacent fill material indeterminate as to whether it meets the FSAR compaction requirements.						3. DATE OF REV: 2/25/82	
						4. FILE NO: 16.0	
13. A RECOMMENDATION FOR PART CA: Project Engineering with the assistance of the On-site Geotechnical Soil Engineer, should determine the extent of the disturbed soil surrounding the drilled hole. They shall consider any variation in DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input checked="" type="checkbox"/> NOT REQUIRED <input type="checkbox"/> (Continued)						5. DISTRIBUTION ACTION COPY: LHCurtis. LEDavis. AJBoos.	
						INFO COPY: RDJohnson MLCurland BHPeck RCBauman WRBird JARutgers JEBrunner ESmith JWCook DATaggart MADietrich TRThiruvengada JFisher DMTurnbull BWMarguglio RAWells JMeisenheimer JLWood DBMiller ALAB-2 REMcCue/GC TAMooney CEHarbour	
14. HOLD TAG REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NUMBER, LOCATION & TYPE OF HOLD TAG APPLIED: 1 - CPCo Tag on 36" casing at block 11 location. NOTE: HOLD ON FUTURE EXCAVATION (See page 3) continued							
15. IS PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW:							
16. DOES NC AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>				17. IS NC REPORTABLE PER 50.55(e): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
18. IS NC REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				19. IF YES, DATE & TIME OF REPORT TO NRC: N/A			
20. IF YES, WHO MADE REPORT TO NRC: N/A				21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A			
22. NCR ORIGINATED BY: CEHarbour C E Harbour		23. WRITTEN REPLY REQUIRED BY: See page 3 TO ESTABLISH CA COMPLETION DATE		24. SUPERVISOR'S SIGNATURE/DATE: R.E. Lavo 2/2/82			
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:							
26. DESIGN/PROJECT SIG. AUTH. DISP.:		27. PMO SIG. AUTH. DISP.:		28. PROCUREMENT SIG. CONC. DISP.:		29. SIG. OF ORG. RESP. FOR C/A:	
				N/A			
30. FAB/CONST. SIG. AUTH. LMP. DISP.:		31. SIG. OF TEST GROUP ACKNOW. CONDITION:		32. FOR MAJOR MOD - PLT. SUPT. SIG. AUTH. DISP.:		33. QA AUTH. SIG. TO IMPLEMENT DISP.:	
		N/A		N/A			
34. METHOD OF PART CA VERIFICATION:							
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE:		37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)			



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NONCONFORMANCE REPORT

PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -

QUALITY ASSURANCE DEPARTMENT
M01-4-2-008

NCR SERIAL NUMBER:

PAGE 2 OF 3

38. QA ASSESSMENT OF ROOT CAUSE(S):

- 1) Technical Specification C-211 does not address specific criteria pertaining to drilling and excavating within "Q" fill areas.
- 2) Inability of construction to recognize the need to obtain documented instructions or procedures from Project Engineering prior to accomplishing a drilling operation which could affect "Q" fill material.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA REQUIRED FROM:

DESIGN ☒

FABRICATION ☐

CONSTRUCTION ☒

PROCUREMENT ☐

INSPECTION ☐

OTHER ☐

41. QA RECOMMENDATION FOR PROCESS CA:

- Design - Provide criteria and direction within Technical Specification C-211 and/or other design documents for excavating, including drilling in "Q" areas.
- Construction - Evaluate the need to formalize the use of the existing excavation permit with instructions, as appropriate, including review/approval by the onsite Geotechnical Soils Engineer.
- Management - Determine what additional training and program controls are necessary to preclude a similar recurrence of this type.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

8) NONCONFORMING PART NAME:

Drilling of 42" diameter, 40 foot deep hole and setting of 36" Ø temporary steel casing.

13) QA RECOMMENDATION FOR PART CA:

ground water elevations, protection of adjacent Q utilities, stability of open hole, prior to backfilling and necessity for cold weather protection. Construction to take necessary corrective action as directed by Project Engineering.

(Additional information added per Rev 1-2/25/82) Continued below:

14) NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED:

All future drilling in "Q" areas below six feet in depth will require approval by Project Engineering unless other design criteria has been specifically provided. This hold will be in effect until formalized process corrective action(s) (Number 1 & 2 of Block 41), have been implemented as agreed to by MPQAD.

23) WRITTEN REPLY REQUESTED BY: TO ESTABLISH QA COMPLETION DATE:

Provide the following:

Initial response for Block 13 evaluation and schedule for Block 41 action required by 2/5/82.

12) "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

On the afternoon of 2/12/82 it was noted that the 36 inch casing had risen 4 feet to 5 feet. This occurred prior to filling the casing with water which was required by a Conditional Release which was in the process of being issued such that the casing could be used for the assembly of the crane operated drilling equipment.

13) QA RECOMMENDATION FOR PART CA:

CONTINUED FROM 13 ABOVE -

Project Engineering should consider the fact that the casing has risen 4 feet to 5 feet when determining the extent of the disturbed soil.



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PROJECTS, ENGINEERING AND CONSTRUCTION -
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Priority: 1 Trend: A-1, K-1 SUS: PGMIDM AI: S-1262

PAGE 1 OF 3

6. PROJECT NAME: Midland 1 and 2		7. NONCONFORMING PART NO: N/A		8. NONCONFORMING PART NAME: See Page 3		1. NCR SERIAL NO: 401-4-2-008	
9. SERIAL NUMBER: N/A		10. ORG. COMMITTING NC: Becntel Construction		11. AREA/LOC. OF NC: Appx Grid location E539, S5135		2. DATE: 2/2/82	
12. AS IS NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: 10CFR50 Appendix B Section V, states in part, "1) Activities affecting quality shall be: a) Prescribed by documented instructions, procedures or drawings of a type appropriate to the circumstances..." Contrary to this requirement, a 42 inch by 40 foot deep hole was drilled by rotary method within the "Q" fill area at grid location E539, S5135. A 36 inch closed bottom casing has been set in this hole. No means of protection had been established for this drilling operation, leaving the adjacent fill material indeterminate as to whether it meets the FSAR compaction requirements.						3. DATE OF REV: N/A	
						4. FILE NO: 16.0	
13. RECOMMENDATION FOR PART CA: Project Engineering with the assistance of the On-site Geotechnical Soil Engineer, should determine the extent of the disturbed soil surrounding the drilled hole. They shall consider any variation in DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input checked="" type="checkbox"/> NOT REQUIRED <input type="checkbox"/> (Continued)						5. DISTRIBUTION ACTION COPY: LHCurtis LEDavis AJBocs INFO COPY: RCBauman BHPeck WRBird JARutgers JEBrunner ESmith JWCook DATaggart MADietrich TRThiruvengadam JFisher DMTurnbull BWMarguglio RAWells JMeisenheimer JLWood DBMiller ALAB-2 REMcQue/CFollin JAMooney CEHarbour	
14. HOLD TAG APPLIED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NUMBER, LOCATION & TYPE OF HOLD TAG APPLIED: 1 - CPCo Tag on 36" casing at block 11 location. NOTE: HOLD ON FUTURE EXCAVATION (See Page 3) continued:							
15. IS PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW:							
16. DOES NC AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>							
17. IS NC REPORTABLE PER 50.55(e): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>							
18. IS NC REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>							
19. IF YES, DATE & TIME OF REPORT TO NRC: N/A							
20. IF YES, WHO MADE REPORT TO NRC: N/A							
21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A							
22. NCR ORIGINATED BY: CEHarbour C E Harbour		23. WRITTEN REPLY REQUIRED BY: See page 3 TO ESTABLISH CA COMPLETION DATE			24. SUPERVISOR'S SIGNATURE/DATE: R.E. Juv 2/2/82		
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:							
26. DESIGN/PROJECT SIG. AUTH. DISP.:		27. PMO SIG. AUTH. DISP.:		28. PROCUREMENT SIG. CONC. DISP.:		29. SIG. OF ORG. RESP. FOR C/A:	
				N/A			
30. FAB/CONST. SIG. AUTH. IMP. DISP.:		31. SIG. OF TEST GROUP ACKNOW. CONDITION:		32. FOR MAJOR MOD - PLT. SUPT. SIG. AUTH. DISP.:		33. QA AUTH. SIG. TO IMPLEMENT DISP.:	
		N/A		N/A			
34. METHOD OF PART CA VERIFICATION:							
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION:		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE:			37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)		



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PROJECTS, ENGINEERING AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT
M01-4-2-008
NCR SERIAL NUMBER: _____

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38. QA ASSESSMENT OF ROOT CAUSE(S):

- 1) Technical Specification C-211 does not address specific criteria pertaining to drilling and excavating within "Q" fill areas.
- 2) Inability of construction to recognize the need to obtain documented instructions or procedures from Project Engineering prior to accomplishing a drilling operation which could affect "Q" fill material.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA REQUIRED FROM:

DESIGN ☒ FABRICATION ☐ CONSTRUCTION ☒ PROCUREMENT ☐ INSPECTION ☐
OTHER _____

41. QA RECOMMENDATION FOR PROCESS CA:

Design - Provide criteria and direction within Technical Specification C-211 and/or other design documents for excavating, including drilling in "Q" areas.
Construction - Evaluate the need to formalize the use of the existing excavation permit with instructions, as appropriate, including review/approval by the onsite Geotechnical Soils Engineer.
Management - Determine what additional training and program controls are necessary to preclude a similar recurrence of this type.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

8) NONCONFORMING PART NAME:

Drilling of 42" diameter, 40 foot deep hole and setting of 36" Ø temporary steel casing.

13) QA RECOMMENDATION FOR PART CA:

ground water elevations, protection of adjacent Q utilities, stability of open hole, prior to backfilling and necessity for cold weather protection. Construction to take necessary corrective action as directed by Project Engineering.

14) NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED:

All future drilling in "Q" areas below six feet in depth will require approval by Project Engineering unless other design criteria has been specifically provided. This hold will be in effect until formalized process corrective action(s) (Number 1 & 2 of Block 41), have been implemented as agreed to by MPQAD.

23) WRITTEN REPLY REQUESTED BY: TO ESTABLISH QA COMPLETION DATE:

Provide the following:

Initial response for Block 13 evaluation and schedule for Block 41 action required by 2/5/82.



NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

PRIORITY: 02 A/I: S-1265

S/U: CODE 87

TREND: DNT PAGE 1 OF 5

6. PROJECT NAME: MIDLAND 1 & 2		7. NONCONFORMING PART NO: N/A		8. NONCONFORMING PART NAME: N/A		1. NCR SERIAL NO: M-01-9-2-010	
9. SERIAL NUMBER: N/A		10. ORG. COMMITTING NO: BECHTEL CONSTRUCTION		11. AREA/LOC. OF NO: MULTIPLE BLDG's		2. DATE: 2/5/82	
						3. DATE OF REV: N/A	
						4. FILE NO: 16.0	
12. AS IS NONCONFORMING CONDITION VERSUS AS REQUIRED CONDITION WITH REFS: The following list of hangers do not conform to applicable requirements as itemized below. It is noted that the identification of the nonconformances listed below was the result of an examination of hangers completely installed and inspected by Field Engineering, turned over to Quality Control and inspected/accepted by Quality Control as evidenced by the completed P2.10 document for each hanger. Specification M 326 section 5.1.1 states in part: "To the greatest extent possible, pipe supports shall be installed in strict (CONTINUED)						5. DISTRIBUTION ACTION COPY: LHCurtis LEDavis ESmith INFO COPY: WRBird DMTurnbull JEBrunner RAWells JWCook JLWood MADietrich ALAB-2 BWMarguglio DBMiller REMcCue/RDJohnson BHPeck JARutgers FSchulmeister DATaggart	
13. QA RECOMMENDATION FOR PART CA: The recommended part corrective action applies to all hangers listed on NCR. 1) Engineering to evaluate acceptability of hanger. (LHCurtis) 2) If rework/repair is required, record & document. (LEDavis, ESmith) 3) If acceptable, provide justification to use as is. (LHCurtis) DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input checked="" type="checkbox"/> NOT REQUIRED <input type="checkbox"/>							
14. HOLD TAGS APPLIED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: As per MPQAD procedure F-7M paragraph 5.1.1.d							
15. IS PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW:							
16. DOES NC AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>				17. IS NC REPORTABLE PER 50.55(e): YES <input type="checkbox"/> NO <input type="checkbox"/> *			
18. IS NC REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				19. IF YES, DATE & TIME OF REPORT TO NRC: N/A			
20. IF YES, WHO MADE REPORT TO NRC: N/A				21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A			
22. NCR ORIGINATED BY: <i>[Signature]</i>		23. WRITTEN REPLY REQUIRED BY: 2/22/82 TO ESTABLISH CA COMPLETION DATE		24. SUPERVISOR'S SIGNATURE/DATE: <i>[Signature]</i> 2-5-82			
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:							
*To be determined.							
26. DESIGN/PROJECT SIG. AUTH. DISP.:		27. PMO SIG. AUTH. DISP.:		28. PROCUREMENT SIG. CONC. DISP.:		29. SIG. OF ORG. RESP. FOR C/A:	
30. FAB/CONST. SIG. AUTH. IMP. DISP.:		31. SIG. OF TEST GROUP ACKNOW. CONDITION:		32. FOR MAJOR MOD - FLT. SUPT. SIG. AUTH. DISP.:		33. QA AUTH. SIG. & IMPLEMENT DISP.:	
34. METHOD OF PART CA VERIFICATION:							
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION:		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE:		37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)			



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NONCONFORMANCE REPORT

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PROJECTS, ENGINEERING AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT

NCR SERIAL NUMBER: _____

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1A ASSESSMENT OF ROOT CAUSE(S):

Unknown: To be determined.

ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

PROCESS CA REQUIRED FROM:

DESIGN ☐ FABRICATION ☐ CONSTRUCTION ☒ PROCUREMENT ☐ INSPECTION ☒

OTHER _____

1A RECOMMENDATION FOR PROCESS CA:

Unknown: To be determined.

PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK #1 & DATE OF COMPLETION:

METHOD OF PROCESS CA VERIFICATION:

SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

#5. PROCESS CA COMPLETION VERIFIED BY/DATE:

compliance with the component pipe support design sketches/drawings."

Contrary to the above, the following hangers have violated this specification:

- Hanger 2-604-17-2 P2.10 log #76648; support angle welded to plate is reversed from design sketch. S/U: 2BGA
- Hanger 2-639-13-5 P2.10 log #63333; item #1 rotated 90° from design sketch. S/U: 2AEA
- Hanger 2-604-16-15 P2.10 log #81811, pipe stanchion listed on bill of materials to be 1' - 7 13/16"; actual is 1' - 7 3/16". S/U: 2BGA
- Hanger 2-604-2-35 P2.10 log #59842; strut not located on 4"m beam as per drawing. S/U: 2BGE
- Hanger 2-619-1-19 P2.10 log #124673; item #11 listed as 8" x 12" actual as installed is 7" x 11". S/U: 2EAC
- Hanger 2-GCB-21-1-H1 P2.10 log #73127; pgs 104 pipe strap specified, pgs 111 installed. S/U 2BKA
- Hanger 2-HBC-219-1-H1 P2.10 log #71982; bill of materials lists item #2 as 3/8" x 4" x 4"; actual as installed is 3/8" x 4" x 3 13/16". S/U: 2GJA
- Hanger 2-HBC-216-5-H3 P2.10 log #72035; item #5 on bill of materials listed as 3 3/4" x 3 3/4"; actual is 4" x 4". S/U: 2GJA
- Hanger 2-604-16-15 P2.10 log #81811 material list, item #2 to be 3/8" thick; actual is 1/2" thick. S/U: 2BGA
- Hanger 2-HBC-219-1-H1 P2.10 log #71982 rev 5 item #3 to item #2 welded @ opposite sides than design sketch. S/U: 2GJA
- Hanger 2-611-4-4 P2.10 log #12411 hanger clamp assembly indicates 1 3/8" clearance on sketch; actual is 1 1/2" typical on both sides. S/U: 2BCA
- Hanger 2-616-8-2 P2.10 log #63192; centerline of pipe to top of item #1 (4'M beam) not per drawing. S/U: 1EGA

Specification M-343 section 6.22 states in part: "Acceptable Deviation Vertical Piping: The design location of pipe supports on vertical pipe may deviate from the original approved location, in a direction parallel to the pipe centerline by 4 inches, provided it is not adjacent to an anchor, equipment nozzle or valve, in which case prior approval from the engineer shall be required.

Contrary to the above:

Hanger 2-HBC-217-1-H2 P2.10 log #69460; sketch & isometric calls for hanger to be centered @ elevation 575' - 11 1/2"; actually @ 575' - 5 3/4". S/U: 2GJA

Specification M-326 section 5.11.1 states in part: "The clearance between the concrete walls and the structural attachment plates should not exceed 1/16" over a maximum of 20% of the bearing area;"

Contrary to the above:

Hanger 2-HBC-216-5-H3 #72305 lower right hand corner of base plate exceeds gap tolerance. S/U: 2GJA

Specification M-326 section 4.2.1.9 states: "No undersize welds are permitted".

Contrary to the above:

Hanger 2-619-1-19 P2.10 log #124673 undersize weld @ item #6 to item #11. S/U: 2EAC

Hanger 2-604-2-35 P2.10 log #59842 undersize weld @ sway strut to 4"M beam. S/U: 2BGE

Hanger 2-611-7-33 P2.10 log #135884 undersize weld @ item #2 to item #3. S/U: 2BCA

Hanger 2-639-13-5 log #63333 insufficient welds for item #1. S/U: 2AEA

PQCI 7220-P2.10, 3.3B states: "Minimum thread engagement shall be that amount necessary to engage all the threads of the nut or threaded component. Hanger load devices which have internally threaded adjustable components are to have sight holes provided to verify adequate thread engagement where required."

Contrary to this:

Hanger 1-616-8-2 P2.10 log #63192; at sight holes of support rods, no threads are visible. S/U: 1EGA

Specification M-326 section 5.1.3.b states: "When the component pipe support design sketch/drawing states the clearance is "1/32 inch typical" on opposite sides of a pipe or 1/16 inch on one side of a pipe or pipe lug, the sum of the actual clearances measured on the opposite sides of the pipe shall not be less than 1/16 inch or more than 1/8 inch. As long as the sum of these actual clearances falls within the above allowable limits, the actual individual clearances may be distributed in any manner, including a zero clearance on one side of the pipe.

Contrary to the above;

Hanger 2-657-43-6 P2.10 log #84577; design sketch calls for 1/32" inch clearance around "U bolt" and pipe: a total of 3/16" exists @ top side of pipe and flush on bottom. S/U: 2GJA

Hanger 2-604-16-15 log #81811 design sketch calls for 1/32 clearance around pipe and "U bolt"; no clearance exists due to off set bolt holes. S/U: 2BGA

Hanger 2-611-5-98 P2.10 log #70407; welds for 3/8" plates have buckled plates @ weld locations and corners. S/U: 2BNA

NOTE 1: The preceeded conditions of all hangers identified, leave the integrity of hangers indeterminate.

NOTE 2: All identified non-conforming hangers have been previously inspected & accepted by QC.



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QUALITY ASSURANCE DEPARTMENT

QA27-0 Priority: 04 Trend: A-3

SUS: PGMICA

AI: S-1271

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6. PROJECT NAME: Midland 1 and 2		7. NONCONFORMING PART NO: Aux Bldg BW 16 A, B, & C Flt 634 - 6 A, Pour # A(654.5)B'		8. NONCONFORMING PART NAME: Coating on Block Wall Replacement		1. NCR SERIAL NO: MO1-922-011	
9. SERIAL NUMBER: N/A		10. ORG. COMMITTING NO: Bechtel Const		11. AREA/LOC. OF NC: Accessory wall to room 427 (See Block #7)		2. DATE: 2/9/82	
						3. DATE OF REV: N/A	
						4. FILE NO: 16.0	
12. AS IS NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: PSP G-3.2, Rev 7, Section 3.4 requires specific approval prior to performing further work on an item identified as nonconforming. Contrary to this requirement, the above referenced concrete wall was coated prior to approval of further processing. Bechtel NCR 3857 had identified a nonconformance, and a Hold Tag was placed in plain view on the now painted wall. This tag was moved, without authorization, to apparently facilitate coating. NOTE: Bechtel NCR #3857 concerned a concrete placement temperature 1°F above the specification limit.						5. DISTRIBUTION ACTION COPY: LHCurtis LEDavis INFO COPY: WRBird RAWells JWCook JLWood MADietrich ALAB (2) BWMarguglio RDJohnson REMcCue/GTFellin DEMiller MCurland BMPalmer BHPeck JARutgers DATaggart DMTurnbull	
13. QA RECOMMENDATION FOR PART CA: Request Project Engineering to evaluate this NCR with regard to Bechtel #3857, and provide a disposition accordingly. DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input checked="" type="checkbox"/> NOT REQUIRED <input type="checkbox"/>							
14. HOLD TAG APPLIED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: One CPCo Hold Tag on west wall of accessway to Room 427.							
15. IS PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW:							
16. DOES NC AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>							
17. IS NC REPORTABLE PER 90.55(*): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>							
18. IS NC REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>							
19. IF YES, DATE & TIME OF REPORT TO NRC: N/A							
20. IF YES, WHO MADE REPORT TO NRC: N/A							
21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A							
22. NCR ORIGINATED BY: Beier Palmer 2/9/81		23. WRITTEN REPLY REQUIRED BY: 2/16/82 TO ESTABLISH CA COMPLETION DATE		24. SUPERVISOR'S SIGNATURE/DATE: Donald E Horn 2/9/82			
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:							
26. DESIGN/PROJECT SIG. AUTH. DISP.:		27. PMO SIG. AUTH. DISP.:		28. PROCUREMENT SIG. CONC. DISP.:		29. SIG. OF ORG. RESP. FOR C/A:	
N/A		N/A		N/A		N/A	
30. FAB/CONST. SIG. AUTH. IMP. DISP.:		31. SIG. OF TEST GROUP ACKNOW. CONDITION:		32. FOR MAJOR MOD - FLT. SUPT. SIG. AUTH. DISP.:		33. QA AUTH. SIG. TO IMPLEMENT DISP.:	
N/A		N/A		N/A			
34. METHOD OF PART CA VERIFICATION:							
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION:		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE:		37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)			



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M01-9-2-011
NCR SERIAL NUMBER: _____
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38. QA ASSESSMENT OF ROOT CAUSE(S):

Lack of complete understanding and/or commitment required to correctly implement the referenced procedure, on the part of the appropriate construction supervision personnel.

Note: Construction to complete Block 39 below.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA REQUIRED FROM:

DESIGN

☐

FABRICATION

☐

CONSTRUCTION

☒

PROCUREMENT

☐

INSPECTION

☐

OTHER _____

41. QA RECOMMENDATION FOR PROCESS CA:

Perform a documented training session for the appropriate construction supervision personnel stressing the requirements of the referenced procedure and the importance of compliance. Forward a copy of this record to MPQAD to facilitate closure of this NCR.

Note: Construction to complete Block 42 below.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

NCR- mo1.9.2.012 - cancelled, reissued AS
QAR

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT

SUS: OGLH

Trend: B-3, (B-5)

Priority: 5 AI: S-1270 PAGE 1 OF 2

6. PROJECT NAME: Midland 1 and 2		7. NONCONFORMING PART NO: OAB 4511 H		8. NONCONFORMING PART NAME: Electrical Cables		1. NCR SERIAL NO: M01-9-2-013	
9. SERIAL NUMBER: N/A		10. ORG. COMMITTING NC: Bechtel Construction/ Bechtel Quality Control		11. AREA/LOC. OF NC: Lower Cable Spreading Room		2. DATE: 2/3/82	
12. AS IS NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: Bechtel Electrical Circuit Schedule Drawing E-37, Revision 52, Run 107 gives the first five vias for routing cable scheme OAB 4511 H as: AWW024, AFB07, AFB08, AFB09 and AFA09. Bechtel PQCI 7220/E-4.0 gives identical routing requirements. Contrary to the above requirements, actual cable routing of this cable for the first seven vias is AWW024, AFC06, AFC07, AFC08, AFC09, AFA10, AFA09						3. DATE OF REV: N/A	
						4. FILE NO: 16.0	
13. QA RECOMMENDATION FOR PART CA: Bechtel Engineering evaluate routing of cable OAB 4511 H. Take appropriate action to make E-37 and routing of cable agree. (LHCurtis)						5. DISTRIBUTION ACTION COPY: LHCurtis LEDavis ESmith	
						INFO COPY: WRBird JI.Wood JWCook DANott MADietrich ALAB-2 BWMarguglio REMcCue/CFollin DBMiller BHPerk JARutgers DATaggart DMTurnbull RAWells	
14. HOLD TAG APPLIED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NUMBER, LOCATION & TYPE OF HOLD TAG APPLIED:							
15. IS PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW:							
16. DOES NC AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>				17. IS NC REPORTABLE PER 50.55(*): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
18. IS NC REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				19. IF YES, DATE & TIME OF REPORT TO NRC: N/A			
20. IF YES, WHO MADE REPORT TO NRC: N/A				21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A			
22. NCR ORIGINATED BY: D.A. Nott 2/3/82		23. WRITTEN REPLY REQUIRED BY: 2/24/82 TO ESTABLISH CA COMPLETION DATE		24. SUPERVISOR'S SIGNATURE/DATE: M. G. Schuster 2/3/82			
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:							
26. DESIGN/PROJECT SIG. AUTH. DISP.:		27. PMO SIG. AUTH. DISP.:		28. PROCUREMENT SIG. CONC. DISP.:		29. SIG. OF ORG. RESP. FOR C/A:	
		N/A		N/A			
30. FAB/CONST. SIG. AUTH. IMP. DISP.:		31. SIG. OF TEST GROUP ACKNOW. CONDITION:		32. FOR MAJOR MOD - PLT. SUPT. SIG. AUTH. DISP.:		33. QA AUTH. SIG. TO IMPLEMENT:	
		N/A		N/A			
34. METHOD OF PART CA VERIFICATION:							
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION:		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE:		37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)			



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NONCONFORMANCE REPORT

PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -

QUALITY ASSURANCE DEPARTMENT

M01-9-2-013

NCR SERIAL NUMBER:

PAGE 2 OF 2

38. QA ASSESSMENT OF ROOT CAUSE(S):

Bechtel Construction did not follow correct routing for cable scheme OAB 4511 H.
QC Engineer did not verify correct routing of the cable.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA REQUIRED FROM:

DESIGN

☐

FABRICATION

☐

CONSTRUCTION

☒

PROCUREMENT

☐

INSPECTION

☒

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

- (1) Determine if there were other cables in this pull which may not be routed other than as specified by E-37. Inform MPQAD of results. (LEDavis)
- (2) Review PQCI E-4.0, "Installation of Electrical Cables" with cable pulling QCEs, emphasis to be placed on Activity 2.5. Inform MPQAD when action is complete. (ESmith)

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

NONCONFORMANCE REPORT

Priority: 2

Trend: DNT

SUS: Code 86

AI: S-1267

PAGE 1 OF 5

PROJECT NAME: Midland Units 1 & 2	7. NONCONFORMING PART NO: Various Hangers (See below)	8. NONCONFORMING PART NAME: Pipe Hangers	1. NCR SERIAL NO: M-01-3-2-014
SERIAL NUMBER: Various	10. ORG. COMMITTING NC: BPCo	11. AREA/LOC. OF NC: Various	2. DATE: 2/3/82
			3. DATE OF REV: N/A
			4. FILE NO: 16.0

AS IS NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:
The following list of hangers do not conform to applicable requirements as itemized below.
For all undersized welds see also M-326 4.2.1.a.1 which states,
"No undersized welds are permitted." For wrong material and material dimensions see M-326 5.1.1.

5. DISTRIBUTION
ACTION COPY:
LH Curtis
ESmith
LEDavis

INFO COPY:
WRBird THYoung
JWCook ALAB (2)
MADietrich
BWMarguglio
DBMiller
REMcCue/CTFollin
BHPeck
JARutgers
DATaggart
DMTurnbull
RAWells
JLWood

CA RECOMMENDATION FOR PART CA: The recommended part Corrective Action applies to 11 hangers: 1) Engineering to evaluate acceptability of hangers 2) If rework/repair is required; record, reinspect and document. 3) If acceptable, provide justification to use as-is, and revise the drawing to reflect actual conditions. Actionee: 1) LHCurtis 2) LEDavis, ESmith
DESIGN/PROJECT ENG. DISPOSITION REQUIRED ☒ NOT REQUIRED ☐ 3) LHCurtis

HOLD TAG REQUIRED: YES ☐ NO ☒ NUMBER, LOCATION & TYPE OF HOLD TAG APPLIED:
MPQAD Procedure F-7M para 5.1.1.d

IS PROCESS CA REQUIRED: YES ☒ NO ☐ IF NO, ENTER JUSTIFICATION BELOW:

DOES NC AFFECT Q-LIST ITEM: YES ☒ NO ☐

17. IS NC REPORTABLE PER 50.55(e): YES ☐ NO ☐ *

IS NC REPORTABLE PER PART 21: YES ☐ NO ☒

19. IF YES, DATE & TIME OF REPORT TO NRC:

IF YES, WHO MADE REPORT TO NRC:

21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED:

NCR ORIGINATED BY: *Thomas H. H. H.*
23. WRITTEN REPLY REQUIRED BY:
Respond by: 2/22/82
TO ESTABLISH CA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE:
RE Whitaker 2/5/82

PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

* to be determined

DESIGN/PROJECT SIG. AUTH. DISP.:	27. PMO SIG. AUTH. DISP.:	28. PROCUREMENT SIG. CONC. DISP.:	29. SIG. OF ORG. RESP. FOR C/A:
FAB/CONST. SIG. AUTH. IMP. DISP.:	31. SIG. OF TEST GROUP ACKNOW. CONDITION:	32. FOR MAJOR MOD - PLT. SUPT. SIG. AUTH. DISP.:	33. QA AUTH. SIG. TO IMPLEMENT DISP.:

END OF PART CA VERIFICATION:

SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION:	30. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE:	37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)
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NONCONFORMANCE REPORT

PROCESS CORRECTIVE ACTION

JECTS, ENGINEERING AND CONSTRUCTION -

QUALITY ASSURANCE DEPARTMENT

M01-5-2-014

NCR SERIAL NUMBER:

PAGE 2 OF 5

38. QA ASSESSMENT OF ACT CAUSE(S):

To be determined.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA REQUIRED FROM:

DESIGN

☐

FABRICATION

☐

CONSTRUCTION

☒

PROCUREMENT

☐

INSPECTION

☒

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

To be determined.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

CONTINUED:

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

Hardware Discrepancy

1) 2-611-6-5 Q(10-2FLB-35-H5) Log #63225 Rev 5 S/U 2BCA

- a) Where the sway strut fitting is welded to the vertical I-Beam, the welds are undersized both legs per the drawing.
- b) Three of four welds attaching the horizontal I-Beam to the superstructure I-Beam are undersized on one leg per the drawing.
- c) The beam to beam shop fabricated portion welds are undersized on one leg per the drawing.
- d) The brace beam angle is supposed to be $44^{\circ} \pm 1^{\circ}$ per the drawing and it is installed at $46\frac{1}{2}^{\circ}$.

2) FSK-M-2HBC-145-1-H5Q Log #87879 Rev 5 S/U 2EGA

Item #1 in bill of materials is a W5 I-Beam and a W6 I-Beam was installed.

3) FSK-M-2HBC-144-1-H8Q Log #73182 Rev 5 S/U 2EGA

Item #3 per drawing bill of material is a plate $\frac{1}{2}$ " x $2\frac{3}{4}$ " x $2\frac{3}{4}$ " however, a $\frac{1}{4}$ " x $3\frac{3}{4}$ " x $3\frac{3}{4}$ " plate was installed.

4) 1-612-3-12Q(8"-1GCB-16-H1) Log #76107 Rev 5 S/U 1BKA

This hanger was installed $4\frac{1}{2}$ " West of drawing coordinates perpendicular to the pipe. (Contrary to even the new Appendix K of M-326 allowance of ± 2 " for a deviation of the pipe)

5) 2-613-4-19Q(12-2HBC-5-H1) Log # 68235 Rev 5 S/U 2BCA

- a) The two welds that attach the spring canister to the channels are undersized on one leg per the drawing.
- b) The angle clips are attached to the wrong end of the channels per the drawing
- c) Both bottom welds of the angle clips to the channel are undersized on one leg per the drawing.
- d) There is a gap between the angle clips and the channel and the drawing shows no gap.

Note:

Although the clip to main beam welds were changed from being an NF5222 weld the detail indicates the clip to channel welds are still per NF5222.

6) FSK-M-2-FCC-4-1-H1 (Q) Log # 64107 Rev 5 S/U 2BBB

There is weld burn out causing reduced thickness of up to 3/32" at one end of one of the welds of strap to angle. This also makes the weld undersize.

7) FSK-M-2ECB-8-3-H4 (Q) Log #79652 Rev 5 S/U 2BHA

- a) Item #1 on the bill of material is 13 1/4" long, however, actual installed is 13 3/4" long.
- b) The isometric drawing locates this hanger 11'-1 11/16" East of reactor building centerline, however, measurement from a benchmark locates it at 11'-9 1/4" East of the reactor building centerline contrary to para 6.2 of M-343.

8) FSK-M-2ECB-4-4-H5(Q) Log #60821 Rev 4 S/U 2BHA

- a) There is a cotter pin missing on the lower end of the West sway strut.
- b) The 1/2" gap between the sway struts called for in view c-c of the drawing is actually 1/4".

9) FSK-M-2HBC-1 -1-H2(Q) Log #78717 Rev 5 S/U 2JEA

- a) The stiffener plate outer bottom edge thickness is reduced due to weld burn off resulting in an undersize weld.
- b) The same condition occurs on three (3) places on the pipe strap (this was beveled and a full weld was not made).

10) FSK-M-2GCB-22-1-H3 (Q) Log #68259 Rev 5 S/U 2BKA

Item #3 on bill of material is 1/4" x 2 3/4" x 2 3/4" per drawing. Actual is 1/4" x 3 3/4" x 3 3/4".

11) 2-617-11-9 (6"-2HBC-149-H1)(Q) Log #69494 Rev 5 S/U 2EGA

- a) Section AA of drawing requires 2 31/32" offset between centerline of main beam and centerline of vertical beams of the hanger. Actual is 5/16" offset.
- b) Centerline of pipe to centerline of vertical beams is actually 12 3/4" and 12 1/4", however, the drawing requires 12".

12) 2-619-1-20R(8"-2HBC-109-H20R) Log #64049 Rev 5 S/U 2EAC

The hanger is 5" West of drawing coordinates (perpendicular to the pipe) contrary to para 5.2 of M-326 (note the drawing states "field cut to suit" for items 1 and 2 on the bill of material, however, material used was longer than called for).

- 13) 2-619-2-19 Q (10"-2HBC-110-H19) Log #103729 Rev 6 S/U 2EAC

The lugs attaching the sway strut to the vertical I-Beam are rotated 90° from the drawing configuration and contrary to M-326 5.2.1.d.

- 14) 2-619-6-11 Q (10"-2HBC-100-H3) Log #76640 Rev 5 S/U 2EAD

- a) Item #8 on bill of material requires 1" x 6" x 4½", however, 1" x 6½" x 5" was installed.
- b) Item #7 on bill of material requires 7/8" x 6" x 5", however, 7/8" x 6" x 4½" was installed. (a later rev makes a & b acceptable)
- c) Vertical gap, both top and bottom, is not parallel with pipe. Guide pads top and bottom touch the pipe at one end and have gap exceeding the requirements of the drawing and M-326 para 5.1.3.b at the other end.
- d) The welds of the vertical hanger beams to the bottom horizontal beam are undersized per drawing.
- e) The 1'-7 1/8" distance between pipes per drawing was installed as 1'-10 1/8".

- 15) FSK-M-2EBB-3-4-H1 (Q) Log # 71689 Rev 5 S/U 2BMA

- a) The sway strut has a tie wrap (plastic) instead of a bolt, nut and washers per the manufacturers drawing on one end.
- b) A cotter pin is missing from the retaining pin at the other end of the sway strut contrary to the manufacturers drawing
- c) Lock nuts missing on pipe clamp

- 16) 1-612-2-2 Q (8" LGCB-16-H47) Log #63197 Rev 5 S/U 1BKA

- a) The 2'-5½" dimension from centerline of pipe to centerline of the W14 x 111 I-Beam is 2'-3" installed (this is perpendicular to the pipe)
- b) The North and South end plates (Item 5) welded to angle have an undersized weld on one leg. Both of these are on the West side.

- 17) 1-612-4-33(Q) (6"-1GCB-18-H10) Log #65882 Rev 5 S/U 1BCA

The small plate (#1 on bill of material) has reduced section and therefore undersized weld at the top.



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NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

PART-0 PRIORITY: 2

A/I: S-1268

S/U: Code 85

TREND: DNT

PAGE 1 OF 4

1. PROJECT NAME: MIDLAND 1 & 2		7. NONCONFORMING PART NO: N/A		8. NONCONFORMING PART NAME: SEISMIC PIPING RESTRAINTS		1. NCR SERIAL NO: ME01-5-2-015	
9. SERIAL NUMBER: N/A		10. ORG. COMMITTING NO: BECHTEL CONSTRUCTION		11. AREA/LOC. OF NO: MULTIPLE BUILDINGS		2. DATE: 2/5/82	
						3. DATE OF REV: N/A	
						4. FILE NO: 16.0	
12. AS IS NONCONFORMING CONDITION VERSUS AS REQUIRED CONDITION WITH REFS: The following drawings were deficient for reasons outlined below.						5. DISTRIBUTION ACTION COPY: LHCurtis LEDavis ESmith INFO COPY: WRBird RAWells JWCook JLWood MADietrich THYoung JEBrunner ALAB-2 BWMarguglio DBMiller REMcCue/CTFollin BHPeck JARutgers DATaggart DMTurnbull	
13. CA RECOMMENDATION FOR PART CA: The recommended corrective action applies to all hangers. 1) Engineering to evaluate acceptability of hanger. (LHCurtis) 2) If rework/repair is required, record & document. (LEDavis, ESmith) 3) If acceptable, provide justification to use as is. (LHCurtis) DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input checked="" type="checkbox"/> NOT REQUIRED <input type="checkbox"/>							
14. HOLD TAGS APPLIED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: As per MROAD procedure E.7M para 5.1.1.d					
15. IS PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW:							
16. DOES NO AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>				17. IS NO REPORTABLE PER 50.55(*): YES <input type="checkbox"/> NO <input type="checkbox"/> *			
18. IS NO REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				19. IF YES, DATE & TIME OF REPORT TO NRC:			
20. IF YES, WHO MADE REPORT TO NRC:				21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED:			
22. NCR ORIGINATED BY: 		23. WRITTEN REPLY REQUIRED BY: Respond by 2/22/82 TO ESTABLISH CA COMPLETION DATE		24. SUPERVISOR'S SIGNATURE/DATE: 2/5/82			
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:							
26. DESIGN/PROJECT SIG. AUTH. DISP.:		27. PMO SIG. AUTH. DISP.:		28. PROCUREMENT SIG. CONC. DISP.:		29. SIG. OF ORG. RESP. FOR C/A:	
30. FAB/CONST. SIG. AUTH. DCP. DISP.:		31. SIG. OF TEST GROUP ACKNOW. CONDITION:		32. FOR MAJOR MOD - FLT. SUPT. SIG. AUTH. DISP.:		33. QA AUTH. SIG. TO IMPLEMENT DISP.:	
34. METHOD OF PART CA VERIFICATION:							
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION:		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL DATE:		37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)			

* To be determined.



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NONCONFORMANCE REPORT

PROCESS CORRECTIVE ACTION

PROJECT ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT
M-01-5-2-015
SCS SERIAL NUMBER:

PAGE 2 OF 4

38. CA ASSESSMENT OF ROOT CAUSE(S):

Unknown: To be determined.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA REQUIRED FROM:

DESIGN ☐

FABRICATION ☒

CONSTRUCTION ☒

PROCUREMENT ☐

INSPECTION ☒

OTHER

41. CA RECOMMENDATION FOR PROCESS CA:

Unknown: To be determined.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

CONTINUED:

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

Drawing Deficiencies:1) 2-611-3-98 (Q) Log #70339 Rev 5 S/U 2BNA

Bill of materials, calls for Item #1 to be 5/8" thick material; However, a note on drawing indicates Item #1 to be 3/8" thick. This leaves the integrity of restraint indeterminate.

2) FSK-M-2HBC-144-1-H8 (Q) Log #73182 Rev 5 S/U 2EGA

Bill of materials Item #3 is listed as 1/4" x 2 3/4" x 2 3/4" plate and was to be installed on the end of tube steel 4" x 4" x 1/4" (3 1/2" inside). This was not possible as drawn. A 3 3/4" x 3 3/4" plate was actually installed.

3) 2-613-4-19 (Q) (12"-2HBC-5-H1) Log #68235 Rev 5 S/U 2BCA

a) Calls for 3 5/8" long angle clips and these were to be installed in the flat of a channel which has a standard size of 3 1/2". There is no gap shown on the drawing between the angle clips and the channel. (There is a gap as installed due to the use of the materials called out on the drawing.)

b) Contrary to FIP-1.112 - I.C.

This drawing has redline LH741 missing from the vault and the only copy obtainable (from QC) was illegible due to an extremely light copy.

4) 1-612-3-25 (Q); IR Log #76542 Rev 5 S/U 1BKA

No clearance called out on drawing for clamp/support - presently interference fit condition exists.

5) 2-613-4-19 (Q); IR Log #68235 Rev 5 S/U 2BCA

a) The two N-S welds (east and west sides) to attach the spring canister to the channels are undersized on one leg as a result of the thickness of the end of the channel flange called for in the drawing is less than 1/4". This is the standard thickness for the channel called for and it is therefore impossible to meet the drawing requirement for this weld.

6) 2-617-11-9 (Q) (6"-2HBC-149-H1) Log #69494 Rev 5 S/U 2EGA

a) Section AA of drawing requires 2 31/32" offset between centerline of main beam and centerline of vertical beams of hanger. This is not possible because the main beam flange isn't wide enough to support this much offset and still be attached by welding as illustrated. Actual installed offset is 5/16 .

- 7) FSK-M-2CCB-22-1-H3 (Q) Log #68259 Rev 5 S/U 2BKA

Item #3 on drawing bill of materials is 1/4" x 2 3/4" x 2 3/4", but 3 3/4" x 3 3/4" was installed because the tube steel was changed from 3" x 3" to 4" x 4". This indicates a change should also have been made on the size of the end plate. Change the size of the end plate on the bill of materials.

- 8) FSK-M-2ECB-8-3-H4 (Q) Log #79652 Rev 5 S/U 2BHA

The position of the hanger is 7 13/16" off per the isometric drawing location with reference to the reactor building centerline. This was not recorded by a change on the isometric drawing contrary to paragraph 5.1.2 of M-326.

- 9) FSK-M-2CCB-62-6-H6 (Q) Log #68224 Rev 5 S/U 2BBB

Redline sh 1039 changed item #1 on bill of materials from 2'1" to 17" long, however, this was not included in Rev 1 of the drawing.

- 10) FSK-M-2HBC-172-1-H2 (Q) Log #78622 Rev 5 S/U 2GJA

Item #9 on bill of materials is 3 1/2" x 3 1/2", but actual installation is 3 3/4" x 3 3/4".



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NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

Priority: 1 Start Up: CD-88 Trend: I-3, (I-5) AI: S-1273 PAGE 1 OF 5

6. PROJECT NAME: Midland 1 & 2		7. NONCONFORMING PART NO: See below		8. NONCONFORMING PART NAME: Electrical Cables		1. NCR SERIAL NO: M-01-9-2-016	
9. SERIAL NUMBER: N/A		10. ORG. COMMITTING NC: Bechtel Construction/ QC/Project Engineering		11. AREA/LOC. OF NC: Various Class 1E Locations		2. DATE: 2/11/82	
12. AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: A) MPQAD overinspections have determined that the <u>actual</u> routing of the listed cables does not conform to the <u>required</u> routing. The "AS IS" condition of cable routing and the "AS REQUIRED" cable routing, taken from Electrical Circuit Schedule E-37, Rev 52, are listed adjacent to the cable scheme numbers and routing inconsistencies underlined. B) The "AS IS" condition of cable routing does not also conform to the "AS REQUIRED" routing referenced in Bechtel PQCI 7220/E-4.0, which was used by Bechtel for inspection and acceptance of cables. C) The cable routing given by E-37, Rev 52, is identical to that referenced by PQCI/E-4.0 for each of the listed cables. 13. A RECOMMENDATION FOR PART CA: A) Bechtel Engineering is requested to evaluate the impact of the "AS IS" cable routing to determine acceptability and advise Bechtel Construction accordingly. (LHCurtis) DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input checked="" type="checkbox"/> NOT REQUIRED <input type="checkbox"/> (Continued on page 5)						3. DATE OF REV: N/A	
						4. FILE NO: 16.0	
14. HOLD TAGS APPLIED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NUMBER, LOCATION & TYPE OF HOLD TAG APPLIED: 15. IS PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW: 16. DOES NC AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> 17. IS NC REPORTABLE PER 50.55(e): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> 18. IS NC REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> 19. IF YES, DATE & TIME OF REPORT TO NRC: N/A 20. IF YES, WHO MADE REPORT TO NRC: N/A 21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A						5. DISTRIBUTION ACTION COPY: LHCurtis/PCorcoran LEDavis ESmith INFO COPY: WRBird DMTurnbul JWCook RAWells MLCurland JLWood MADietrich ALAB-2 RDJohnson MJSchaeffer BWMarguglio REMcCue DBMiller BHPeck JARutgers DATaggart	
						24. SUPERVISOR'S SIGNATURE/DATE: <i>M. J. Schaeffer</i> 2/11/82	
22. NCR ORIGINATED BY: <i>M. J. Schaeffer</i> M J Schaeffer						23. WRITTEN REPLY REQUIRED BY: 2/15/82 TO ESTABLISH CA COMPLETION DATE	
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:							
26. DESIGN/PROJECT SIG. AUTH. DISP.: N/A		27. PMO SIG. AUTH. DISP.: N/A		28. PROCUREMENT SIG. CONC. DISP.: N/A		29. SIG. OF ORG. RESP. FOR C/A:	
30. AB/CONST. SIG. AUTH. EMP. DISP.: N/A		31. SIG. OF TEST GROUP ACKNOW. CONDITION: N/A		32. FOR MAJOR MOD - PLT. SUPT. SIG. AUTH. DISP.: N/A		33. QA AUTH. SIG. TO IMPLEMENT DISP.:	
34. METHOD OF PART CA VERIFICATION:							
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION:		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE:			37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)		



Consumers
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NONCONFORMANCE REPORT

PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -

QUALITY ASSURANCE DEPARTMENT

M-01-9-2-016

NCR SERIAL NUMBER:

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38. QA ASSESSMENT OF ROOT CAUSE(S):

Bechtel Construction and QC in conjunction with Project Engineering to determine the root cause and inform MPQAD. (LEDavis & ESmith)

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA REQUIRED FROM:

DESIGN

☐

FABRICATION

☐

CONSTRUCTION

☒

PROCUREMENT

☐

INSPECTION

☒

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

Determine the need for additional Process Corrective Action in view of the fact that MPQAD NCR M-01-9-2-013, dated 2/3/82, addressed a similar problem. Inform MPQAD of the decision and action taken to preclude reoccurrence of the cable routing discrepancies. (LEDavis & ESmith)

42. PROCESS CA TO BE TAKEN BY ORG() CHECKED IN BLOCK 41 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

2/11/82

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12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

CABLE SCHEME NUMBERAS REQUIRED ROUTING:

OAB6501N

ASL135, AJB041, AJB02, AJB01, AJB025, AAO27, AMH006, AAO63, AJ1059, ASA027, ASA09, ASA08, ASA07, ASA06, ASA05, ASA04, ASA03, ASA014 and ASL968.

AS IS ROUTING:

ASL135, AJB041, AJB02, AJB01, AJB025, AAO27, AMH006, AAO63, AJ1059, ASA027, ASA08, ASA07, ASA06, ASA05, ASA04, ASA03, ASA014 and ASL968.

2AB6302K

AS REQUIRED ROUTING:

AKA054, AKA04, AKA03, AKA02, AKF01, AJF02, AJF01, AFD01, AFD02, AFD03, AFD04, AFD05, AFD06, AFV07, AFV08, AFU99, AFA09, AFD09 and ASL921 (Per DCN 657).

AS IS ROUTING:

AKA054, AKA04, AKA03, AKA02, AKA01, AJF01, AFD01, AFD02, AFD03, AFD04, AFD05, AFD06, AFV07, AFV08, AFU99, AFA09, AFD09 and ASL921.

OAB6502M

AS REQUIRED ROUTING:

ASL921, AFD09, AFA09, AFU99, AFV08, AFV07, AFD06, AFD05, AFD04, AFD03, AFD02, AFD01, AJF01, AJF02, AKF01, AKA02, AKA03, AKA04 and AKA054.

AS IS ROUTING:

ASL921, AFD09, AFA09, AFU99, AFV08, AFV07, AFD06, AFD05, AFD04, AFD03, AFD02, AFD01, AJF01, AKA01, AKA02, AKA03, AKA04 and AKA054.

OBY3614A

AS REQUIRED ROUTING:

BSL936, BDB01, BDA02, BDA01, BJ419, BAO32, BJ524, BJA073, BJA05, BJA04, BJA03 and BJA035.

AS IS ROUTING

BSL938, BDB01, BDA02, BDA01, BJ419, BAO32, BJ524, BJA073, BJA05, BJA04, BJA03 and BJA035.

12. "AS IS" NONCONFORMING CONDITIONS VERSUS "AS REQUIRED" CONDITION WITH REFS:

CABLE SCHEME NUMBERAS REQUIRED ROUTING:

1AB5301K

ASL944, ADB01, ADA02, ADA01, AJ424, AAO33, AFK01, AJL01, AFE01, AFF01, AFF02, AFB01, AFB02, AFB03, AFB04, AFB05, AFB06, AFB07, AFB08, AFB09, AFA09, AFA08, AFA07, AFA06, AFA05, AFA04, AFA03, AFA02, AFA01, AFL01, AFL03, AFL10, AJS07, ASL935.

AS IS ROUTING:

ASL945, ADB01, ADA02, ADA01, AJ424, AAO33, AFK01, AJL01, AFE01, AFF01, AFF02, AFB01, AFB02, AFB03, AFB04, AFB05, AFB06, AFB07, AFB08, AFB09, AFA09, AFA08, AFA07, AFA06, AFA05, AFA04, AFA03, AFA02, AFA01, AFL01, AFL03, AFL10, AJS07 and ASL935.

1DQ157A

AS REQUIRED ROUTING:

DTB005, DTB07, DTB06, DH015, DJ475, DTB001, DTB03, DTA07, DTA06, DTA05, DTA04, DTA03, DTA02, DTA01, DC003, DTA002, DTA21, DTA22.

AS IS ROUTING:

DTB005, DTB07, DTB06, DH015, DJ475, DTB001, DTB03, DFA08, DJA07, DTA07, DTA06, DTA05, DTA04, DTA03, DTA02, DTA01, DJA01, DC002, DTA003, DTA21, DTA22.

1DQ396D

1DQ396F

1DQ396H

1DQ396L

1DQ396T

AS REQUIRED ROUTING:

DTB004, DTB07, DTB06, DH015, DJ475, DTB001, DTB03, DTA07, DTA06, DTA05, DTA04, DTA03, DTA01, DC003, DTA002, DTA21, DTA22.

AS IS ROUTING:

DTB004, DTB07, DTB06, DH015, DJ475, DTB001, DTB03, DFA08, DJA07, DTA07, DTA06, DTA05, DTA04, DTA03, DTA02, DTA01, DJA01, DC002, DTA003, DTA21, DTA22.

1DQ177E

AS REQUIRED ROUTING:

DSL907, DGA01, DWW001, DTB07, DTB06, DH015, DJ475, DTB001, DTB03, DTA07, DTA06, DTA05, DTA04, DTA03, DTA02, DTA01, DC003, DTA002, DTA21.

AS IS ROUTING:

Coil, DTB03, DFA08, DJA07, DTA07, DTA06, DTA05, DTA04, DTA03, DTA02, DTA01, DJA01, DC002, DTA003, DTA21.

13. QA RECOMMENDATION FOR PART CORRECTIVE ACTION: (Continued from page 1)

B)

1. Bechtel Construction is requested to comply with the E-37 Rev 52, or direction from Project Engineering per (A) above. (LEDavis)
2. Bechtel QC is requested to update the applicable QCIRs to reflect the nonconforming condition identified. (ESmith)



NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

Priority: 1 Start Up: CD-88 Trend: I-3, (I-5) AI: S-1273 PAGE 1 OF 5

6. PROJECT NAME: Midland 1 & 2		7. NONCONFORMING PART NO: See below		8. NONCONFORMING PART NAME: Electrical Cables		1. NCR SERIAL NO: M-01-9-2-016	
9. SERIAL NUMBER: N/A		10. ORG. COMMITTING NC: Bechtel Construction/ QC/Project Engineering		11. AREA/LOC. OF NC: Various Class 1E Locations		2. DATE: 2/11/82	
12. AS IS NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: A) MPQAD overinspections have determined that the <u>actual</u> routing of the listed cables does not conform to the <u>required</u> routing. The "AS IS" condition of cable routing and the "AS REQUIRED" cable routing, taken from Electrical Circuit Schedule E-37, Rev 52, are listed adjacent to the cable scheme numbers and routing inconsistencies underlined. B) The "AS IS" condition of cable routing does not also conform to the "AS REQUIRED" routing referenced in Bechtel PQCI 7220/E-4.0, which was used by Bechtel for inspection and acceptance of cables. C) The cable routing given by E-37, Rev 52, is identical to that referenced by PQCI/E-4.0 for each of the listed cables. 13. A RECOMMENDATION FOR PART CA: A) Bechtel Engineering is requested to evaluate the impact of the "AS IS" cable routing to determine acceptability and advise Bechtel Construction accordingly. (LHCurtis) DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input checked="" type="checkbox"/> NOT REQUIRED <input type="checkbox"/> (Continued on page 5)						3. DATE OF REV: N/A 3/1/82 mjd 2/1/82	
						4. FILE NO: 16.0	
						5. DISTRIBUTION ACTION COPY: LHCurtis/PCorcoran LEDavis ESmith INFO COPY: WRBird DMTurnbull JWCook RAWells MLCurland JLMood MADietrich ALAB-2 RDJohnson MJSchaeffer BWMarguglio REMcCue DBMiller BHPeck JARutgers DATaggart	
14. HOLD TAG REQUIRED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NUMBER, LOCATION & TYPE OF HOLD TAG APPLIED: _____							
15. IS PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW: _____							
16. DOES NC AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>				17. IS NC REPORTABLE PER 50.55(e): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
18. IS NC REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				19. IF YES, DATE & TIME OF REPORT TO NRC: N/A			
20. IF YES, WHO MADE REPORT TO NRC: N/A				21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A			
22. NCR ORIGINATED BY: M J Schaeffer		23. WRITTEN REPLY REQUIRED BY: 2/15/82 TO ESTABLISH CA COMPLETION DATE		24. SUPERVISOR'S SIGNATURE/DATE: mjd 3/1/82 M. J. Schaeffer 2/11/82			
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:							
<div style="border: 1px solid black; padding: 10px; width: fit-content; margin: 0 auto;">REVISION NO: _____ DISCARD PREVIOUS ISSUE</div>							
26. DESIGN/PROJECT SIG. AUTH. DISP.: N/A		27. PMO SIG. AUTH. DISP.: N/A		28. PROCUREMENT SIG. CONC. DISP.: N/A		29. SIG. OF ORG. RESP. FOR C/A:	
30. FAB/CONST. SIG. AUTH. IMP. DISP.: N/A		31. SIG. OF TEST GROUP ACKNOW. CONDITION: N/A		32. FOR MAJOR MOD - PLT. SUPT. SIG. AUTH. DISP.: N/A		33. QA AUTH. SIG. TO IMPLEMENT DISP.:	
34. METHOD OF PART CA VERIFICATION:							
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION:		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE:		37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)			



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PROJECTS, ENGINEERING AND CONSTRUCTION -

QUALITY ASSURANCE DEPARTMENT

M-01-9-2-016

NCR SERIAL NUMBER:

PAGE 2 OF 5

38. QA ASSESSMENT OF ROOT CAUSE(S):

Bechtel Construction and QC in conjunction with Project Engineering to determine the root cause and inform MPQAD. (LEDavis & ESmith)

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA REQUIRED FROM:

DESIGN

☐

FABRICATION

☐

CONSTRUCTION

☒

PROCUREMENT

☐

INSPECTION

☒

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

Determine the need for additional Process Corrective Action in view of the fact that MPQAD NCR M-01-9-2-013, dated 2/3/82, addressed a similar problem. Inform MPQAD of the decision and action taken to preclude reoccurrence of the cable routing discrepancies. (LEDavis & ESmith)

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

CABLE SCHEME NUMBER

OAB6501N

AS REQUIRED ROUTING:

ASL135, AJB041, AJB02, AJB01, AJB025, AAO27, AMH006, AAC63, AJ1059, ASA027, ASA09, ASA08, ASA07, ASA06, ASA05, ASA04, 'SA03, ASA014 and ASL968.

AS IS ROUTING:

ASL135, AJB041, AJB02, AJB01, AJB025, AAO27, AMH006, AAC63, AJ1059, ASA027, ASA08, ASA07, ASA06, ASA05, ASA04, ASA03, ASA014 and ASL968.

2AB6392K

AS-REQUIRED-ROUTING:

AKA054, AKA04, AKA03, AKA02, AKA01, AJP01, AJP02, AJP01, APB01, APB02, APB03, APB04, APB05, APB06, APV07, APV08, APV09, APA09, APD09 and ASL921. Per DCN 6577.

AS-IS-ROUTING:

AKA054, AKA04, AKA03, AKA02, AKA01, AJP01, APD01, APB02, APB03, APB04, APB05, APB06, APV07, APV08, APV09, APA09, APD09 and ASL921.

OAB6502M

AS-REQUIRED-ROUTING:

ASL921, APB09, APA09, APV09, APV08, APV07, APD06, APB05, APB04, APB03, APB02, APD01, AJP01, AJP02, AKA01, AKA02, AKA03, AKA04 and AKA054.

AS-IS-ROUTING:

ASL921, APB09, APA09, APV09, APV08, APV07, APD06, APB05, APB04, APB03, APB02, APD01, AJP01, AKA01, AKA02, AKA03, AKA04 and AKA054.

OBY3614A

AS REQUIRED ROUTING:

BSL936, BDB01, BDA02, BDA01, BJ419, BAO32, BJ524, BJA073, BJA05, BJA04, BJA03 and BJA035.

AS IS ROUTING

BSL938, BDB01, BDA02, BDA01, BJ419, BAO32, BJ524, BJA073, BJA05, BJA04, BJA03 and BJA035.

2/11/82

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12. "AS IS" NONCONFORMING CONDITIONS VERSUS "AS REQUIRED" CONDITION WITH REFS:

CABLE SCHEME NUMBERAS REQUIRED ROUTING:

1AB5301K

ASL944, ADB01, ADA02, ADA01, AJ424, AAO33, AFK01, AJL01, AFE01, AFF01, AFF02, AFB01, AFB02, AFB03, AFB04, AFB05, AFB06, AFB07, AFB08, AFB09, AFA09, AFA08, AFA07, AFA06, AFA05, AFA04, AFA03, AFA02, AFA01, AFL01, AFL03, AFL10, AJS07, ASL935.

AS IS ROUTING:

ASL945, ADB01, ADA02, ADA01, AJ424, AAO33, AFK01, AJL01, AFE01, AFF01, AFF02, AFB01, AFB02, AFB03, AFB04, AFB05, AFB06, AFB07, AFB08, AFB09, AFA09, AFA08, AFA07, AFA06, AFA05, AFA04, AFA03, AFA02, AFA01, AFL01, AFL03, AFL10, AJS07 and ASL935.

1DQ157A

AS REQUIRED ROUTING:

DTB005, DTB07, DTB06, DH015, DJ475, DTB001, DTB03, DTA07, DTA06, DTA05, DTA04, DTA03, DTA02, DTA01, DC003, DTA002, DTA21, DTA22.

AS IS ROUTING:

DTB005, DTB07, DTB06, DH015, DJ475, DTB001, DTB03, DFA08, DJA07, DTA07, DTA06, DTA05, DTA04, DTA03, DTA02, DTA01, DJA01, DC002, DTA003, DTA21, DTA22.

1DQ396D

AS REQUIRED ROUTING:

1DQ396F

1DQ396H

1DQ396L

1DQ396T

DTB004, DTB07, DTB06, DH015, DJ475, DTB001, DTB03, DTA07, DTA06, DTA05, DTA04, DTA03, DTA01, DC003, DTA002, DTA21, DTA22.

AS IS ROUTING:

DTB004, DTB07, DTB06, DH015, DJ475, DTB001, DTB03, DFA08, DJA07, DTA07, DTA06, DTA05, DTA04, DTA03, DTA02, DTA01, DJA01, DC002, DTA003, DTA21, DTA22.

1DQ177E

AS REQUIRED ROUTING:

DSL907, DGA01, DWW001, DTB07, DTB06, DH015, DJ475, DTB001, DTB03, DTA07, DTA06, DTA05, DTA04, DTA03, DTA02, DTA01, DC003, DTA002, DTA21.

AS IS ROUTING:

Coil, DTB03, DFA08, DJA07, DTA07, DTA06, DTA05, DTA04, DTA03, DTA02, DTA01, DJA01, DC002, DTA003, DTA21.

13. QA RECOMMENDATION FOR PART CORRECTIVE ACTION: (Continued from page 1)

B)

1. Bechtel Construction is requested to comply with the E-37 Rev 52, or direction from Project Engineering per (A) above. (LEDavis)
2. Bechtel QC is requested to update the applicable QCIRs to reflect the nonconforming condition identified. (ESmith)



PROJECTS, ENGINEERING AND CONSTRUCTION
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SUS: Code 83

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PRIORITY: 2 TREND: DNT A/I: 1272

* To be determined.



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PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

NCR SERIAL NUMBER: _____

PAGE 2 OF 3

38. QA ASSESSMENT OF ROOT CAUSE(S):

Unknown: To be determined.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA REQUIRED FROM:

DESIGN

☐

FABRICATION

☒

CONSTRUCTION

☒

PLACEMENT

☐

INSPECTION

☒

OTHER _____

41. QA RECOMMENDATION FOR PROCESS CA:

Unknown: To be determined.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

- 1) Clearances on the following hangers do not conform to the drawing/
specification tolerances:

a) 0-HBC-142-1-H1	SUS: 2-EAD
b) 1-HBC-145-1-H9	SUS: 1-EGA
c) 1-657-37-9	SUS: 1-GJA
d) 1-657-37-22	SUS: 1-GJA
e) 1-648-7-58	SUS: 1-KAB
f) 1-HBC-144-1-H3	SUS: 1-EGA
g) 1-CCB-69-1-H2	SUS: 1-BGA

NOTE: Items b & f contain masking tape under the strap, preventing accurate measurement.

- 2) 0-617-7-13 SUS: 0-EGA

Item #3 (I-BEAM) is not installed in accordance with the drawing. Angle clip & field weld is located incorrectly.

- 3) 0-617-8-33 SUS: 0-EGA

a) Field weld between items 2 & 3 does not conform to drawing requirements. West weld, south end, contains approximately $\frac{1}{2}$ " of undersize weld.

- 4) 1-633-1-33 SUS: 1-BMA

a) Drawing requires the bottom plate, on one corner, to be beveled $\frac{1}{4}$ ". Contrary to the above, the bevel was determined to be 3/16".

- 5) 1-CCB-69-1-H1 SUS: 1-BGA

a) PGS-114 requires the jam nuts to be SA-307, GR B
Contrary to the above, the jam nuts are SA-194, 2H.

- 6) 1-CCB-69-1-H2 SUS: 1-BGA

a) Same as 5.a above.

- 7) 0-618-1-6 SUS: 0-EAA

a) Field welds between items 2 & 8 do not conform to drawings requirements. Drawing requires the welds to be located on the sides of item 8, the welds are located on the ends of item 8.



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9A27-0

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
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PRIORITY: 01 SUS: 1EGA, 2EGA TREND: F-4, (F-6) A/I: S-1282 PAGE 1 OF 3

6. PROJECT NAME: MIDLAND 1 & 2	7. NONCONFORMING PART NO: 11-173A 2T-173B	8. NONCONFORMING PART NAME: Component Cooling Water Surge Tanks	1. NCR SERIAL NO: M-01-4-2-018
9. SERIAL NUMBER: N/A	10. ORG. COMMITTING NC: Sub-Contractor	11. AREA/LOC. OF NC: Vendors Personnel Files	2. DATE: 2/9/82
			3. DATE OF REV:
			4. FILE NO: 16.0

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:
Technical Specification 7220-M-233 (Q), Paragraph 5.1 states in part:
"...examination, testing, and inspection shall conform to ASME
Section III, Class 3, Subsection ND1974 with no Addenda."

5. DISTRIBUTION
ACTION COPY:
LEDavis

INFO COPY:
WRBird
JWCook
RCash
RDDavis
MADietrich
BWMarguglio
REMcCue/RDJohnson
DBMiller
BHPeck
JARutgers
DATaggart

(CONTINUED)

13. CA RECOMMENDATION FOR PART CA:

Re-test subject tanks using properly certified personnel.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED ☐ NOT REQUIRED ☒

14. HOLD TAGS APPLIED: NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED:

YES ☐ NO ☒

15. IS PROCESS CA REQUIRED: YES ☒ NO ☐ IF NO, ENTER JUSTIFICATION BELOW:

16. DOES NC AFFECT Q-LIST ITEM: YES ☒ NO ☐

17. IS NC REPORTABLE PER 50.55(*): YES ☐ NO ☒

18. IS NC REPORTABLE PER PART 21: YES ☐ NO ☒

19. IF YES, DATE & TIME OF REPORT TO NRC: N/A

20. IF YES, WHO MADE REPORT TO NRC: N/A

21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A

12. NCR ORIGINATED BY:

RDDavis

23. WRITTEN REPLY REQUIRED BY:

2/24/82
TO ESTABLISH CA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE:

RE White 2/10/82

25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

26. DESIGN/PROJECT SIG. AUTH. DISP.:	27. PMO SIG. AUTH. DISP.:	28. PROCUREMENT SIG. CONC. DISP.:	29. SIG. OF ORG. RESP. FOR C/A:
30. FAB/CONST. SIG. AUTH. IMP. DISP.:	31. SIG. OF TEST GROUP ACKNOW. CONDITION:	32. FOR MAJOR MOD - PLT. SUPT. SIG. AUTH. DISP.:	33. QA AUTH. SIG. TO IMPLEMENT DISP.:

24. METHOD OF PART CA VERIFICATION:

35. SIG. OF ORG. RESP. FOR PART C/A
SIGNIFYING COMPLETION:

36. SIG. VERIFYING PART C/A & HOLD TAG
REMOVAL/DATE:

37. NCR CLOSED BY/DATE:
(PART & PROCESS CA COMPLETE)



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PROCESS CORRECTIVE ACTION

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QUALITY ASSURANCE DEPARTMENT
M-01-4-2-018
NCR SERIAL NUMBER:
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38. QA ASSESSMENT OF ROOT CAUSE(S):

Vendor failed to certify personnel in accordance with ASME requirements.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA REQUIRED FROM:

DESIGN

☐

FABRICATION

☐

CONSTRUCTION

☐

PROCUREMENT

☐

INSPECTION

☐

OTHER Bechtel Sub-Contracts

41. QA RECOMMENDATION FOR PROCESS CA:

- 1) Assure that certified personnel conduct future examinations on tanks yet to be constructed.
- 2) Bechtel should more closely review vendor personnel certifications.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

CONTINUED:

12. AS IS" NONCONFORMING CONDITIONS VERSUS "AS REQUIRED" CONDITION WITH REFS:

ASME Section III, Paragraph ND-5521 (Personnel Qualification), 1974, states in part: "Personnel performing nondestructive examination shall be qualified in accordance with SNT-TC-1A, supplements and Appendices as applicable for the technique and methods used. For nondestructive examination methods not covered by SNT-TC-1A documents, personnel shall be qualified by the Manufacturer or Installer to comparable levels of competency by subjection to comparable examinations on the particular method involved; for example, leak testing."

Richmond Engineering Co Pneumatic Testing Procedure (ES-145-315), Paragraph 6.1 states: "Personnel performing leak tests under this procedure shall be qualified to levels of competence comparable to those outlined in ASNT-TC-1A and (ANSI N) 45.2.6."

ASNT Recommend Practice, SNT-TC-1A, Paragraph 8 (1975 edition is used as an EXAMPLE) states in part "...The examination to verify physical and technical qualifications shall consist of the following: a) Physical... b) General (written)... c) Specific (written).. d) Practical...".

Contrary to the above, no documented evidence could be found to support that the vendors QC inspector had been subjected to an examination and certification process for Leak Testing comparable to that specified by SNT-TC-1A as required by ASME Section III, Paragraph ND-5521.

This condition invalidates the Bubble Tests conducted on the reinforcing pads of Component Cooling Water Surge Tanks 1T-173A and 2T-173B.



Consumers
Power
Company
QA27-0

NONCONFORMANCE REPORT

2GLC, 2BCM, 2BGC

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

Priority: 1 SU: 1BSA, 1BCA, 1GMA Trend: B-3 (B-5) AT: S-1286 PAGE 1 OF 3

6. PROJECT NAME: Midland 1 & 2	7. NONCONFORMING PART NO: See below	8. NONCONFORMING PART NAME: Electrical cables	1. NCR SERIAL NO: M-01-9-2-019
9. SERIAL NUMBER: N/A	10. ORG. COMMITTING NC: Bechtel Construction	11. AREA/LOC. OF NC: Various Class 1E Locations	2. DATE: 2/16/82
12. AS IS NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: <p>Paragraph 7.3 of FPE 4.000 states, "When it is necessary to remove an electrical cable in its entirety, it shall be immediately tagged/identified in such a way as to control its re-use/disposition." Paragraph 3.4.2 of FPE 6.000 states, "If the work is Q related, the area engineer shall also notify QC of impending installation or re-work." Paragraph 4.1 of PSP G-6.1 states, "IRs/SSIRs provide a status of inspections and tests performed upon nuclear power plant material and equipment." Contrary to the above requirements, the listed cables and/or terminations have been removed without the required documentation (Cont'd)</p>			3. DATE OF REV: N/A-
13. QA RECOMMENDATION FOR PART CA: <p>BPCo Construction is requested to determine: A) The status and identification of the missing cables/terminations and originate the required backup documentation, ie., FCNs.</p>			4. FILE NO: 16.0
DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input checked="" type="checkbox"/> NOT REQUIRED <input type="checkbox"/> (Continued on page 3)			5. DISTRIBUTION ACTION COPY: LEDavis INFO COPY: WRBird ESmith JWCook DATAC MLCurland DMTU MADietrich RAWEL RDJohnson JLWoo BWMarguglio ALAB- REMcCue DBMiller BHPeck JARutgers MJSchaeffer
14. HOLD TAGS APPLIED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED:			
15. IS PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW:			
16. DOES NC AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		17. IS NC REPORTABLE PER 50.55(*): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	
18. IS NC REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		19. IF YES, DATE & TIME OF REPORT TO NRC: N/A	
20. IF YES, WHO MADE REPORT TO NRC:		21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A	
22. NCR ORIGINATED BY: M J Schaeffer		23. WRITTEN REPLY REQUIRED BY: 2/18/82 TO ESTABLISH CA COMPLETION DATE	
		24. SUPERVISOR'S SIGNATURE/DATE: M.J. Schaeffer 2/18/82	
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:			
26. DESIGN/PROJECT SIG. AUTH. DISP.: N/A		27. PMO SIG. AUTH. DISP.: N/A	
28. PROCUREMENT SIG. CONC. DISP.: N/A		29. SIG. OF ORG. RESP. FOR C/A:	
30. FAB/CONST. SIG. AUTH. IMP. DISP.: N/A		31. SIG. OF TEST GROUP ACKNOW. CONDITION: N/A	
32. FOR MAJOR MOD - PLT. SUPT. SIG. AUTH. DISP.: N/A		33. QA AUTH. SIG. TO IMPLEMENT DISP.:	
34. METHOD OF PART CA VERIFICATION:			
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION:		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE:	
		37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)	



Consumers
Power
Company

NONCONFORMANCE REPORT

PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION

QUALITY ASSURANCE DEPARTMENT

M-01-9-2-01

NCR SERIAL NUMBER:

PAGE 2 OF 3

38. QA ASSESSMENT OF ROOT CAUSE(S):

To be determined.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA REQUIRED FROM:

DESIGN

☐

FABRICATION

☐

CONSTRUCTION

☒

PROCUREMENT

☐

INSPECTION

☐

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

Bechtel Construction is requested to determine the cause and extent of the identified problem, take appropriate Process Corrective Action, and respond to MPQAD.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:
or evidence of identification.

<u>CABLE SCHEME NUMBER</u>	<u>CONDITION CHANGE</u>
1BB5411A	Cable is not in any of the scheduled vias.
1AB5519AE-2	Cable has been removed and is no longer terminated at penetration 1Z112.
1AB5505C-2	Cable has been removed and is no longer terminated at penetration 1Z112.
2BB2432V-1b	Determined
2EB006B	Cable removed
2AB5519AE-1	Determined

13. QA RECOMMENDATION FOR PART CA:

B) QC is requested to update the applicable QC records to reflect the current status of installation/termination rework.

NOTE: The Corrective Action requested is only for the identified discrepancies.



Consumers
Power
Company
3427-0

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT
AI: S-1287

Priority: 01 Trend: B-3, I-3 SUS: 1FCA, 1EAD & 1BNA
B-3, I-5

PAGE 1 OF 3

1. PROJECT NAME: Midland 1 and 2	7. NONCONFORMING PART NO: 1BFW088AN, 1BB5609C, 1B23	8. NONCONFORMING PART NAME: Terminations per list attached	1. M-01 1BFW088AN 2020
2. SERIAL NUMBER: N/A	10. ORG. COMMITTING NC: Bechtel Construction/ Bechtel QC	11. AREA/LOC. OF NC: 1B23, 1B56 & 1C11	2. DATE: 2/16/82
12. AS IS NONCONFORMING CONDITION VERSUS AS REQUIRED CONDITION WITH REFS: MPQAD overinspection determined that the "As is" condition of the listed cable terminations does not conform to the "As required" condition of the terminations in accordance with the drawing E-900 which provides the design requirements for terminations of all Q-listed cables. (CONTINUED ON PAGE 3)			3. DATE OF REV: N/A 4. FILE NO: 16.0
13. CA RECOMMENDATION FOR PART CA: 1) Bechtel Construction is requested to comply with the design draw- ing requirements. 2) Bechtel QC is requested to update the applicable inspection records. DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input checked="" type="checkbox"/> NOT REQUIRED <input type="checkbox"/>			5. DISTRIBUTION ACTION COPY: LEDavis ESmith INFO COPY: WRBird RAWells JWCook JLWood MADietrichTKSubrama RDJohnson ALAB(2) BWMarguglio MLCurla REMcCue DEMILLER BHPeck JARutgers DATaggart DMTurnbull
14. HOLD TAGS APPLIED: NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
15. IS PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW:			
16. DOES NC AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		17. IS NC REPORTABLE PER 50.55(*): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	
18. IS NC REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		19. IF YES, DATE & TIME OF REPORT TO NRC: N/A	
20. IF YES, WHO MADE REPORT TO NRC: N/A		21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A	
22. NCR ORIGINATED BY: <i>mjs</i> M J Schaeffer		23. WRITTEN REPLY REQUIRED BY: 2/18/82 TO ESTABLISH CA COMPLETION DATE	24. SUPERVISOR'S SIGNATURE/DATE: <i>M J Schaeffer</i> 2/16/82
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:			
26. DESIGN/PROJECT SIG. AUTH. DISP.:	27. PMD SIG. AUTH. DISP.:	28. PROCUREMENT SIG. CONC. DISP.:	29. SIG. OF ORG. RESP. FOR C/A:
	N/A	N/A	
30. FAB/CONST. SIG. AUTH. EMP. DISP.:	31. SIG. OF TEST GROUP ACKNOW. CONDITION:	32. FOR MAJOR MOD - PLT. SUPT. SIG. AUTH. DISP.:	33. CA AUTH. SIG. TO IMPLEMENT DISP.:
	N/A	N/A	
34. METHOD OF PART CA VERIFICATION:			
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION:	36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL DATE:	37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)	



Consumers
Power
Company

NONCONFORMANCE REPORT

PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT
M01-9-2-020
NCR SERIAL NUMBER: _____

PAGE 2 OF 3

38. QA ASSESSMENT OF ROOT CAUSE(S):

To be determined by Construction and QC.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA REQUIRED FROM:

DESIGN

☐

FABRICATION

☐

CONSTRUCTION

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PROCUREMENT

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INSPECTION

☒

OTHER _____

41. QA RECOMMENDATION FOR PROCESS CA:

Bechtel Construction and QC are requested to determine the root cause, take appropriate corrective action to prevent reoccurrence and document the actions taken.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

<u>"AS REQUIRED CONDITION"</u>	<u>"AS IS CONDITION"</u>	<u>S/U SYSTEM</u>
1) Sheet 19 Rev 22 of Drawing E-900 indicates the GR color conductor of cable 1BFW088AN is a spare connected to Wire No 4SP on TB11B16.	The GR Color conductor of cable 1BFW088AN is terminated to TB11B16. Wire No 4.	1FCA (1C11)
2) Sheet 5 Rev 22 of Drawing E-900 indicates the BK-W Conductor of cable 1BB5609C is a spare, wire No 12SP and not terminated to the terminal block.	The BK-W conductor of cable 1BB5609C is terminated to TB 3B17 Wire No 21.	1EAD (1B56)
3) Sheet 12 Rev 23 of Drawing E-900 indicates the destination of cable 1AB2331D is 1M01208A the same as that shown on the cable scheme card.	The identification plate on the cover of the compartment of MCC1B23 identifies the feed to 1M01210".	1BNA (1B23)



Consumers
Power
Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

QA27-0

Priority: 1 SU: CD-88

Trend: I-3, (I-5)

AI: S-1289

PAGE 1 of 5

1. PROJECT NAME: Midland 1 & 2		7. NONCONFORMING PART NO: See below		8. NONCONFORMING PART NAME: Electrical Cables		1. NCR SERIAL NO: 4-01-9-2-021	
9. SERIAL NUMBER: N/A		10. ORG. COMMITTING NO: Bechtel Construction/ QC/Project Engineering		11. AREA/LOC. OF NO: Various Class 1E Locations		2. DATE: 2/16/82	
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: A) MPQAD overinspections have determined that the actual routing of the listed cables does not conform to the required routing. The "AS IS" condition of cable routing and the "AS REQUIRED" cable routing, taken from Electrical Circuit Schedule E-37, Rev 52, are listed adjacent to the cable scheme numbers and routing inconsistencies underlined. B) The "AS IS" condition of cable routing does not also conform to the "AS REQUIRED" routing referenced in Bechtel PQCI 7220/E-4.0, which was used by Bechtel for inspection and acceptance of cables. C) The cable routing given by E-37, Rev 52, is identical to that referenced by PQCI/E-4.0 for each of the listed cables. (Cont'd)						3. DATE OF REV: N/A	
13. CA RECOMMENDATION FOR PART CA: A) Bechtel Engineering is requested to evaluate the impact of the "AS IS" cable routing to determine acceptability and advise Bechtel Construction accordingly. (LHCurtis) DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input checked="" type="checkbox"/> NOT REQUIRED <input type="checkbox"/> (Continued on page 5)						4. FILE NO: 16.0	
						5. DISTRIBUTION ACTION COPY: LHCurtis/PCorcoran LEDavis ESmith INFO COPY: DScott DATaggart WRBird DMTurnbull JWCook RAWells MLCurland JLWood MADietrich ALAB-2 RDJohnson BWMarguglio REMcCue DBMiller BHPeck JARutgers MJSchaeffer	
14. HOLD TAGS APPLIED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED:							
15. IS PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW:							
16. DOES NO AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>				17. IS NO REPORTABLE PER 50.55(e): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
18. IS NO REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				19. IF YES, DATE & TIME OF REPORT TO NRC: N/A			
20. IF YES, WHO MADE REPORT TO NRC: N/A				21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A			
22. NCR ORIGINATED BY: M J Schaeffer <i>mjd</i>		23. WRITTEN REPLY REQUIRED BY: 2/18/82 TO ESTABLISH CA COMPLETION DATE		24. SUPERVISOR'S SIGNATURE/DATE: <i>Michael J Schaeffer 2/16/82</i>			
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:							
26. DESIGN/PROJECT SIG. AUTH. DISP.: N/A		27. PMO SIG. AUTH. DISP.: N/A		28. PROCUREMENT SIG. AUTH. DISP.: N/A		29. SIG. OF ORG. RESP. FOR C/A:	
30. FAB/CONST. SIG. AUTH. DISP.: N/A		31. SIG. OF TEST GROUP ACKNOW. CONDITION: N/A		32. FOR MAJOR MOD - PLT. SUPT. SIG. AUTH. DISP.: N/A		33. QA AUTH. SIG. TO IMPLEMENT DISP.:	
34. METHOD OF PART CA VERIFICATION:							
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION:		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE:		37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)			



Consumers
Power
Company

NONCONFORMANCE REPORT

PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT
M-01-9-2-021
NCR SERIAL NUMBER:
PAGE 2 OF 5

38. QA ASSESSMENT OF ROOT CAUSE(S):

Bechtel Construction and QC, in conjunction with Project Engineering, to determine the root cause and inform MPQAD. (LEDavis & ESmith)

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA REQUIRED FROM:

DESIGN

☐

FABRICATION

☐

CONSTRUCTION

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PROCUREMENT

☐

INSPECTION

☒

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

Determine the need for additional Process Corrective Action in view of the fact that MPQAD NCR M-01-9-2-016, dated 2/11/82, addressed a similar problem. Inform MPQAD of the decision and action taken to preclude re-occurrence of the cable routing discrepancies. (LEDavis & ESmith)

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

12. "AS IS"NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

CABLE SCHEME NUMBERAS REQUIRED ROUTING:

1DQ 173 D
 1DQ 173 E
 1DQ 173 F
 1DQ 177 D
 1DQ 177 F
 1DQ 181 B
 1DQ 181 D
 1DQ 181 F
 1DQ 181 H

DSL907, DGA01, DWW001, DTB07, DTB06, DH015,
 DJ475, DTB001, DTB03, DTA07, DTA06, DTA05, DTA04,
 DTA03, DTA02, DTA01, DC003, DTA002, DTA21.

AS IS ROUTING:

Coil at DJ475, DTB001, DTB03, DTA07, DTA06, DTA05,
 DTA04, DTA03, DTA02, DTA01, DC002, DTA003, DTA21.

AS REQUIRED ROUTING:

OAB 6502 M
 2AB 6302 K

ASL921, AFD09, AFA09, AFU99, AFV08, AFV07, AFD06
 AFD05, AFD04, AFD03, AFD02, AFD01, AJF01, AJF02,
 AKF01, AKA02, AKA03, AKA04, AKA054.

AS IS ROUTING:

ASL921, AFD09, AFA09, AFU99, AFV08, AFV07, AFD06,
 AFD05, AFD04, AFD03, AFD02, AFD01, AJF01, * ,
 AKA01, AKA02, AKA03, AKA04, AKA054.

AS REQUIRED ROUTING:

2BI 003 A
 2BI 004 A

BG042, BJ637, BG043, BG044, BG045, BJ1371, BG046,
 BA045, BVA005, BVA01, BVA98, BVA99.

AS IS ROUTING:

BG042, BJ637, BG043, BG044, BG045, BJ1371, BG046,
 BA045, BVA005, * , * , BVA99.

AS REQUIRED ROUTING:

1AG 1113 E

ASL151, ADA005, ADA05, ADA04, ADA03, ADA02, ADA01,
 AJ424, AA033, AKF01, AJL003, AJL01, AFP01, AFP02,
 AFP03, AFN02, AFN01, AFL01, AFL03, AFL10, AJS07,
 AJS08, AJS09, ASL933.

AS IS ROUTING:

ASL151, ADA005, ADA05, ADA04, ADA03, ADA02, ADA01
 AJ424, AA033, AKF01, AJL003, AJL01, AFP01, AFP02,
 AFP03, AFN02, AFN01, AFL01, AFL03, AFL10, AJS07,
 AJS08, AJS09, ASL935.

* Denotes that via was skipped

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

CABLE SCHEME NUMBER

AS REQUIRED ROUTING:

1BG 1213 B

BDA005, BDA05, BDA04, BDA03, BDA02, BDA01, BJ419, BA031, BJ524, BJA073, BJA05, BJN05, BJP01, BFH01, BFH02, BFH03, BFH04, BFH05, BFH06, BFH07, BFH08, BFH09, BFH10, BFH11, BFH12, BFH13, BFH14, BFA13, BFA14, BFA15, BFA002, BFF09.

AS IS ROUTING:

BDA005, BDA05, BDA04, BDA03, BDA02, BDA01, BJ419, BA031, BJ524, BJA073, BJA05, BJN05, BJP01, BJP02, BFH02, BFH03, BFH04, BFH05, BFH06, BFH07, BFH08, BFH09, BFH10, BFH11, BFH12, BFH13, BFH14, BFA13, BFA14, BFA15, BFA002, BFF09.

AS REQUIRED ROUTING:

1BB 5610 C

BSL922, BJH01, BKA06, BKA05, BKE01, BJF03, BFB01, BFB02, BFB03, BFB04, BFB05, BFE015, BJ106.

AS IS ROUTING:

BSL922, *, *, BKA05, BKE01, BJF03, BFB01, BFB02, BFB03, BFB04, coiled.

AS REQUIRED ROUTING:

1BA 0012 A

BFF09, BFA002, BFA15, BFA14, BFH14, BFH13, BFH12, BFH11, BFH10, BFH09, BFH08, BFH07, BFH06, BFH05, BFH04, BFH03, BFH02, BFH01, BJP01, BJN05, BJA05, BJA073, BJ524, BA031, BJ419, BDA01, BDA02, BDA03, BDA04, BDA05, BDA06, BDA07, BDA10.

AS IS ROUTING:

BFF09, BFA002, BFA15, BFA14, BFA13, BFH14, BFH13, BFH12, BFH11, BFH10, BFH09, BFH08, BFH07, BFH06, BFH05, BFH04, BFH03, BFH02, *, BJP01, BJN05, BJA05, BJA073, BJ524, BA031, BJ419, BDA01, BDA02, BDA03, BDAC4, BDA05, BDA06, BDA07, BDA10.

AS REQUIRED ROUTING:

1BI 067 A

BG083, BJ1763, BVA022, BVA16, BVA15, BVA14, BVA13, BVA12, BVA001, BVA06, BVA05, BVA04, BVA03, BVA02, BVA01 to 1Z132.

AS IS ROUTING:

BG083, BJ1763, BVA022, BVA16, BVA15, BVA14, BVA13, BVA12, BVA001, BVA06, BVA05, BVA04, BVA03, BVA02, BVA98 to incorrect end route 1Z133.

* Denotes that via was skipped

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

CABLE SCHEME NUMBER

2BA0001F

AS REQUIRED ROUTING

FROM

2C46

TO

2J1145

BGF08, BWW023, BGC01, BGB02, BGB01, BTG01, BTB06,
BTB011, BJ924, BA035, BJ690, BN054

AS IS ROUTING:

FROM

2C46

TO

2C232

BN054, BJ690, BA035, BJ924, BTB011, BTB06, BTG01,
BGB01, BGB02, BGC01, BWW023, BGF08

13. QA RECOMMENDATION FOR PART CA:

B)

1. Bechtel Construction is requested to comply with the E-37 Rev 52, or direction from Project Engineering per (A) above. (LEDavis)
2. Bechtel QC is requested to update the applicable QCIRs to reflect the nonconforming condition identified. (ESmith)



NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT

Priority: 7 SU: DCUMEM

Trend: I-3 (I-5) AI: S-1293

PAGE 1 OF 4

6. PROJECT NAME: Midland 1 & 2		7. NONCONFORMING PART NO: See below		8. NONCONFORMING PART NAME: QC Inspection Records		1. NCR SERIAL NO: M-9-2-022	
9. SERIAL NUMBER: N/A		10. ORG. COMMITTING NC: Bechtel Quality Control		11. AREA/LOC. OF NC: Various Class 1E Locations		2. DATE: 2/16/82	
12. AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: Inspection Activity 2.1 of Project Quality Control Instruction states in part, "Verify that the cable to be installed is identified by a reel number which incorporates the purchase order number and the manufacturer's reel number." The note states, "Enter the cable reel number on the IR." Contrary to the above requirements, the following Inspection Records were found to have incorrect, incomplete, or no cable reel number recorded: (Continued on page 3)						3. DATE OF REV: N/A	
						4. FILE NO: 16.0	
13. QA RECOMMENDATION FOR PART CA: 1) Records with incorrect or no reel number recorded should be corrected. (ESmith)						5. DISTRIBUTION ACTION COPY: ESmith	
						INFO COPY: WRBird DATaggay JWCook DMTurner MLCurland RAWell MADietrich JWood RDJohnson ALAB-2 ELJones BWMarguglio REMcCue DBMiller BHPeck JARutgers	
14. HOLD TAGS APPLIED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED:							
15. IS PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW:							
16. DOES NC AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>				17. IS NC REPORTABLE PER 50.55(e): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
18. IS NC REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				19. IF YES, DATE & TIME OF REPORT TO NRC: N/A			
20. IF YES, WHO MADE REPORT TO NRC: N/A				21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A			
22. NCR ORIGINATED BY: <i>E. Jones</i>		23. WRITTEN REPLY REQUIRED BY: 3/3/82 TO ESTABLISH CA COMPLETION DATE		24. SUPERVISOR'S SIGNATURE/DATE: <i>M. J. Schaefer</i> 2/17			
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:							
26. DESIGN/PROJECT SIG. AUTH. DISP.: N/A		27. PMO SIG. AUTH. DISP.: N/A		28. PROCUREMENT SIG. CONC. DISP.: N/A		29. SIG. OF ORG. RESP. FOR C/A:	
30. FAB/CONST. SIG. AUTH. DMP. DISP.: N/A		31. SIG. OF TEST GROUP ACKNOW. CONDITION: N/A		32. FOR MAJOR MOD - PLT. SUPT. SIG. AUTH. DISP.: N/A		33. QA AUTH. SIG. TO IMPLEMENT DISP.:	
34. METHOD OF PART CA VERIFICATION:							
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION:		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE:		37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)			



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38. QA ASSESSMENT OF ROOT CAUSE(S):

Instructions to Quality Control Engineers on requirements for cable reel data to be recorded has changed over a period of time.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA REQUIRED FROM:

DESIGN

☐

FABRICATION

☐

CONSTRUCTION

☐

PROCUREMENT

☐

INSPECTION

☒

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

It is recommended that a cable reel list with a cross reference between the old numbers recorded and the reel numbers that incorporate the purchase order number and the manufacturer's reel number, be made a part of the E-4.0 Inspection Record files in the Quality Control Vault.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK #1 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

<u>CABLE SCHEME NUMBER</u>	<u>REEL NUMBER</u>	
1AJ053 Da	E60-OOG-16793	Incorrect number
1BA0602 N	716	Incomplete number
1BB2401 C	474A	Incomplete number
1AB1701 C	701	Incomplete number
1BB1801 C	712	Incomplete number
1AA0505 H	695	Incomplete number
1BB2412 C	474A	Incomplete number
1AG1102 K	E60-OOG 21363	Incorrect number
1AG1113 B	E60-OOG 21363	Incorrect number
1AQ432 B	E26-000D7860	Incorrect number
1AFW127 B	E26-000D7860	Incorrect number
1DY1408 A	E60-OOD10343	Incorrect number
1DQ177 E	E56-OOG7663	Incorrect number
1BB5643 C	474A	Incomplete number
1AD1001AJ	475B	Incomplete number
1AB1702D	None	No number
1BFW123B	E2600016032	Incorrect number
1BFW124B	E2600016032	Incorrect number
1BFW124D	E2600016032	Incorrect number
1AB5519AF	EE200004641	Incorrect number
2BI036G	E60-OOG15774	Incorrect number
1BA0602N	716	Incomplete number
1AB1701D	506B	Incomplete number
1BA0602P	7A474B	Incomplete number
1BA1702E	506B	Incomplete number
1AB6305D	509	Incomplete number
1BFW129C	E26-00010169	Incorrect number
1BFW130C	E26-00010169	Incorrect number
1BMU061D	686	Incomplete number
1BMU061C	686	Incomplete number
1DY1409A	E60-00010343	Incorrect number
1DY1405C	E60-00010343	Incorrect number
1AG1101F	E60-000G9151	Incorrect number
1BB1807F	619	Incomplete number
2BA0602G	E26-0010288A	Incorrect number
1BG1202G	E60-000G3783	Incorrect number
1AB5304E	E26-0G010319	Incorrect number
1BI036G	None	No number
2AB2301C	5043	Incomplete and in pencil
1AB5514F	594	Incomplete number
1BA0602N	716	Incomplete number
1AI053Da	E60-00G16793	Incorrect number
1BP1806M	None	No number
1AY1109A	None	No number

(CONTINUED ON PAGE 4)

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

<u>CABLE SCHEME NUMBER</u>	<u>REEL NUMBER</u>	
1AV023L	None	No number
1BQ193E	686	Incomplete number
OAB4509Gb	A9001	Incomplete number
1BB5614F	474A	Incomplete number
2CQ156E	9823	Incomplete number
OAB6905K	436A	Incomplete number
1AB5514C	417	Incomplete number
OAB6904K	3963	Incomplete number
1BB5633E	619	Incomplete number
1BQ121E	716	Incomplete number
1AD1001AF	E22AC004652	Incorrect number
1AD1001AE	E22AC004652	Incorrect number
1AD1001AT	E22AC004671	Incorrect number
1AD1001AS	E22AC004671	Incorrect number
2CQ156H	5618	Incomplete number
2DY1404A	G1702	Incomplete number
1AA0502D	E21AC0023110	Incorrect number
OBB6805R	E26000B5197	Incorrect number
OBB6805P	E26000B5197	Incorrect number
2BMU075A	E26000D5654	Incorrect number
1AB5304F	E6000G21363	Incorrect number
2BBP0405H	E2600G167587	Incorrect number



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PRIORITY: 06 TREND: I-3 (I-3) SUS: OGLH AI: S-1264

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6. PROJECT NAME: Midland 1 & 2		7. NONCONFORMING PART NO: Cable - Scheme Number OAB4512D		8. NONCONFORMING PART NAME: Cable		1. NCR SERIAL NO: M-01-9-2-02	
9. SERIAL NUMBER: N/A		10. ORG. COMMITTING NC: Bechtel Construction/ Bechtel QC		11. AREA/LOC. OF NC: Aux Bldg		2. DATE: 2/18/82	
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: <u>AS REQUIRED CONDITION:</u> Per FPE-7.000, Paragraph 7.5, "Sufficient insulation shall be removed from individual conductors to allow full insertion into the barrel of the terminal lug..." <u>CONTRARY TO THE ABOVE:</u> On wire 5G (orange) of cable scheme number OAB4512D, terminated in equipment number OC20, the full insertion of the individual conductors into the barrel of the terminal lug is indeterminate. The manufacture (CONTINUED) 13. QA RECOMMENDATION FOR PART CA: a) Bechtel Construction reterminate the wire in accordance with requirements using a non-defective lug that can be visually inspected for full insertion of individual conductors. b) Bechtel QC reinspect the termination. DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input type="checkbox"/> NOT REQUIRED <input checked="" type="checkbox"/>						3. DATE OF REV: N/A	
						4. FILE NO: 16.0	
14. HOLD TAGS APPLIED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: N/A						5. DISTRIBUTION ACTION COPY: LEDavis ESmith INFO COPY: WRBird JWCook MADietrich MLCurland BWMarguglio REMcCue/RDJohnson BHPeck JARutgers DATaggart DMTurnbull RASeba	
						15. IS PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW:	
16. DOES NC AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>				17. IS NC REPORTABLE PER 50.55(e): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
18. IS NC REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				19. IF YES, DATE & TIME OF REPORT TO NRC: N/A			
20. IF YES, WHO MADE REPORT TO NRC: N/A				21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A			
22. NCR ORIGINATED BY: Russell A. Seba 2/18/82		23. WRITTEN REPLY REQUIRED BY: 2/26/82 TO ESTABLISH CA COMPLETION DATE		24. SUPERVISOR'S SIGNATURE/DATE: M. J. Schuster 2/18			
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:							
26. DESIGN/PROJECT SIG. AUTH. DISP.: N/A		27. PMO SIG. AUTH. DISP.: N/A		28. PROCUREMENT SIG. CONC. DISP.: N/A		29. SIG. OF ORG. RESP. FOR C/A:	
30. FAB/CONST. SIG. AUTH. DMP. DISP.:		31. SIG. OF TEST GROUP ACKNOW. CONDITION:		32. FOR MAJOR MOD - PLT. SUPT. SIG. AUTH. DISP.: N/A		33. QA AUTH. SIG. TO IMPLEMENT DISP.:	
34. METHOD OF PART CA VERIFICATION:							
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION:		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE:		37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)			



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38. QA ASSESSMENT OF ROOT CAUSE(S):

To be determined.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA REQUIRED FROM:

DESIGN

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41. QA RECOMMENDATION FOR PROCESS CA:

- 1) Retrain applicable construction personnel on the requirements of Paragraph 7.5 of FPE-7.000 (LEDavis)
- 2) Retrain applicable QC inspection personnel on the requirements of Project QC Instruction Number 7220/E-5.0, activity 3.4. (ESmith)

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

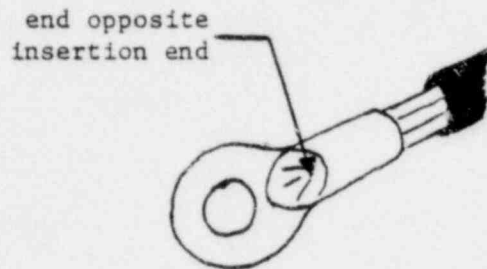
45. PROCESS CA COMPLETION VERIFIED BY/DATE:

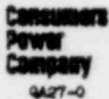
CONTINUED:

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

of the terminal lug is defective such that the barrel end (opposite the conductor insertion end) is improperly enclosed, and the full insertion of the conductors can not be determined visually - see illustration A.

ILLUSTRATION A





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Priority: 04 Trend: M-3 (M-6) A/I: S-1295 SUS: 1EGA, 2EGA PAGE 1 OF 3

6. PROJECT NAME: Midland 1 & 2		7. NONCONFORMING PART NO: Purchase Order M51(Q)		8. NONCONFORMING PART NAME: Component Cooling Water heater Exchanges		1. NCR SERIAL NO: 1-01-9-2-026	
9. SERIAL NUMBER: See Block 12		10. ORG. COMMITTING NO: Vendor		11. AREA/LOC. OF NC: Installed at Midland		2. DATE: 2/18/82	
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: Technical Specification 7220-M-51(Q), Paragraph 6.9 states in part: "All welds in the pressure containing parts of the shells and channels of the heat exchangers shall be <u>100% radiographed</u> in conformance with ASME Boiler Code Section III, Paragraph ND-5210." ASME Section III, Paragraph ND-5210 states in part: "The examination requirements for the various categories and types of welds shall be the same as those stated in Section VIII, Division 1 of this code." (CONTINUED)						3. DATE OF REV:	
						4. FILE NO: 16.0, 17.11	
13. QA RECOMMENDATION FOR PART CA: 1) Repair listed defective area 2) Re-radiograph listed views to replace missing or deficient vendor radiography. DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input type="checkbox"/> NOT REQUIRED <input checked="" type="checkbox"/>						5. DISTRIBUTION ACTION COPY: RMCollins INFO COPY: AEBice DATaggart WRBird DMTurnbul JWCook RAWells RDDavis JLWood MADietrich ALAB-2 BWMarguglio REMcCue/RDJohnson DBMiller MLCurland BHPeck GWRowe JARutgers	
14. HOLD TAGS APPLIED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: 3 CP Co on listed heat exchangers							
15. IS PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW:							
16. DOES NC AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>				17. IS NC REPORTABLE PER 50.55(e): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
18. IS NC REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				19. IF YES, DATE & TIME OF REPORT TO NRC: N/A			
20. IF YES, WHO MADE REPORT TO NRC: N/A				21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A			
22. NCR ORIGINATED BY: RA Davis		23. WRITTEN REPLY REQUIRED BY: 3/25/82 TO ESTABLISH CA COMPLETION DATE		24. SUPERVISOR'S SIGNATURE/DATE: RE W. Litaker 2/19/			
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:							
26. DESIGN/PROJECT SIG. AUTH. DISP.:		27. PMO SIG. AUTH. DISP.:		28. PROCUREMENT SIG. CONC. DISP.:		29. SIG. OF ORG. RESP. FOR C/A:	
30. FAB/CONST. SIG. AUTH. IMP. DISP.:		31. SIG. OF TEST GROUP ACKNOW. CONDITION:		32. FOR MAJOR MOD - PLT. SUPT. SIG. AUTH. DISP.:		33. QA AUTH. SIG. TO IMPLEMENT DISP.:	
34. METHOD OF PART CA VERIFICATION:							
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION:		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE:		37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)			



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38. QA ASSESSMENT OF ROOT CAUSE(S):

Vendor failed to perform and interpret radiography in accordance with specification/code.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA REQUIRED FROM:

DESIGN

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FABRICATION

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INSPECTION

☐

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

Bechtel should re-evaluate subject Vendor's performance for acceptability in any future contracts to supply components for Midland Project.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

CONTINUED:

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

Section VIII, Division 1, Paragraph UW-51 states in part:

"(1) Sections of weld that are shown by radiography to have any of the following types of imperfections shall be judged unacceptable and shall be repaired as provided in Paragraph UW-38 and the repair radiographed to UW-51.

(2) Any elongated slag inclusion which has length greater than;

1/4" for T up to 3/4"

1/3T for T from 3/4" to 2 1/4"

3/4" for T over 2 1/4"

Where T is the thickness of the weld;"

Contrary to the above, numerous radiographs supplied per Purchase Order 7220-M-51AC exhibit rejectable defects or rejectable radiographic technique characteristics, as detailed on the attached chart.

COMPONENT COOLING WATER HEAT EXCHANGER NUMBER	START-UP SYSTEM	DEFICIENCY
MFR: NO11-1A Plant: 1E-73A	1EGA	View 6-7 of B-3 shell: Radiograph of repair area missing (Re-Rt)
MFR: NO11-1A Plant: 1E-73A	1EGA	Views 8-9 and 10-11 of RET Channel B: Inadequate coverage of views (Re-Rt)
MFR: NO11-1A Plant: 1E-73A	1EGA	Views 1-2, 3-4, 4-5, and 5-6 of V belt N1 Nozzle: Missing (Re-Rt)
MFR: NO11-1A Plant: 1E-73A	1EGA	View 6-1 of Dist Belt N1 Nozzle: Missing (Re-Rt)
MFR: NO11-1B Plant: 1E-73B	1EGA	View 1-2 of V Belt N1 Nozzle: Slag (Repair)
MFR: NO11-1D Plant: 2E-73B	2EGA	View 3-4 of B-4 Shell: Shim image in weld (Re-Rt)
MFR: NO11-1D Plant: 2E-73B	2EGA	View 1-2 of RET Channel B: Inadequate coverage of view (Re-Rt)



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1. PROJECT NAME: Midland 1 & 2		7. NONCONFORMING PART NO: Unit 1 & 2 Contain- ment Liner Plates		8. NONCONFORMING PART NAME: Welds & Radiographic Film		1. NCR SERIAL NO: M-01-9-2-025	
9. SERIAL NUMBER: N/A		10. ORG. COMMITTING NCR: Vendor		11. AREA/LOC. OF NCR: Installed at Midland		2. DATE: 2/19/82	
12. AS IS NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: Technical Specification C-50 (Paragraph noted) states in part: 9.2.3 "The film density through acceptable weld metal shall be 1.7 minimum to 3.5 maximum for single film viewing. Composite viewing of double film exposure is not permitted." 9.2.9.2(b) "Areas of radiographs in welds which show slag inclusion or linear cavities the length of which is in excess of 1/4" shall be excavated and repair welded." <div style="text-align: center;">(CONTINUED)</div>						3. DATE OF REV:	
						4. FILE NO: 16.0, 17.11	
13. CA RECOMMENDATION FOR PART C/A: 1) Repair or provide other disposition for the listed defects. 2) Re-examine listed areas to provide confidence in the areas represented by the deficient vendor radiographs. DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input type="checkbox"/> NOT REQUIRED <input checked="" type="checkbox"/>						5. DISTRIBUTION ACTION COPY: RMCollins	
						INFO COPY: JARutgers AEBice WRBird JWCook MLCurland RDDavis MADietrich RDJohnson BWMArguglio REMcCue DBMiller BHPeck	
14. HOLD TAGS APPLIED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: N/A							
15. IS PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW:							
16. DOES NC AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>				17. IS NC REPORTABLE PER 50.55(*): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
18. IS NC REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				19. IF YES, DATE & TIME OF REPORT TO NRC: N/A			
20. IF YES, WHO MADE REPORT TO NRC: N/A				21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A			
22. NCR ORIGINATED BY: RJDavis		23. WRITTEN REPLY REQUIRED BY: 3/25/82 TO ESTABLISH CA COMPLETION DATE		24. SUPERVISOR'S SIGNATURE/DATE: REWhtab 2/19/82			
25. PART C/A DISPOSITION, JUSTIFICATION & COMPLETION DATE:							
26. DESIGN/PROJECT SIG. AUTH. DISP.:		27. PMD SIG. AUTH. DISP.:		28. PROCUREMENT SIG. CONC. DISP.:		29. SIG. OF ORG. RESP. FOR C/A:	
30. PM/CONST. SIG. AUTH. IMP. DISP.:		31. SIG. OF TEST GROUP ACKNOW. CONDITION:		32. FOR MAJOR MOD - PLT. SUPT. SIG. AUTH. DISP.:		33. CA AUTH. SIG. FOR IMPLEMENT DISP.:	
34. METHOD OF PART C/A VERIFICATION:							
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION:		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE:		37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)			



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18. QA ASSESSMENT OF ROOT CAUSE(S):

Vendor failed to perform and interpret radiography in accordance with code/specification.

19. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

20. PROCESS CA REQUIRED FROM:

DESIGN ☐

FABRICATION ☐

CONSTRUCTION ☐

PROCUREMENT ☒

INSPECTION ☐

OTHER _____

21. QA RECOMMENDATION FOR PROCESS CA:

Bechtel should re-evaluate subject vendor's acceptability for continued inclusion on evaluated suppliers list.

22. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 21 & DATE OF COMPLETION:

23. METHOD OF PROCESS CA VERIFICATION:

24. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

25. PROCESS CA COMPLETION VERIFIED BY/DATE:

CONTINUED:

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

- 7.3.1 "Except as stated herein or shown on design drawings, the fabrication of...(liner plate and thickened liner plate)...shall conform to the applicable portions of Part UW...of Section VIII of the ASME Boiler and Pressure Vessel Code. Specifically, Paragraph UW-26 through UW-38 inclusive shall apply in their entirety."

Paragraph UW-35 (ASME VIII, 1968) states in part: "Butt joints shall have...complete joint fusion for the full length of the weld and shall be free from undercuts..."

- 9.2.9.1 "Procedural techniques for radiography shall be in accordance with Paragraph UW-51 of Section VIII of the ASME Code."

Paragraph UW-51(b) (ASME VIII, 1968) states in part "The weld shall be radiographed with a technique which will have sufficient sensitivity to indicate the features of the penetrameter..."

Contrary to the above, numerous vendor radiographs supplied per Purchase Order 7220-C-50A exhibit rejectable material defects or deficient radiographic technique characteristics as detailed on attached charts.

NOTE: Due to complexity of physical location traceability, listed deficiencies are segregated according to drawings that provide traceability.

FILM IDENTIFICATION	QUANTITY	VIEW	C-111 IR NO	DEFICIENCY AND LOCATION	
S-6-2-U-1	1	1-2	56	Undercut Location: 250° - 270° Elevation: 673'-0 - 744'-6"	(Repair)
S-6-12-U-1	1	1-2	59	Undercut Location: 190° - 210° Elevation: 673'-0 - 744'-6"	(Repair)
S-5-9-U-1	1	1-2	72	Low Density Location: 290° - 310° Elevation: 673'-0 - 744'-6"	(Re-Rt)
S-7-3-U-1	1	2-3 & 3-4	57	Lack of Fusion Location: 230° - 250° Elevation: 673'-0 - 744'-6"	(Repair)
S-7-2-U-1	1	All Views	69	Low Density & slag (Entire length of weld) Location: 0° - 10° Elevation: 673'-0 - 744'-6"	(Repair) (Re-Rt)
S-8-1-U-1	1	1-2	63	Low Density, Slag & Arc Strikes Location: 110° - 130° Elevation: 673'-0 - 744'-6"	(Repair, Re-Rt)
S-2-1-U-2	1	1-2	38	Undercut Location: 270° - 290° Elevation: 593'-0 - 673'-0	(Repair)
S-1-2-U-2	1	1-2	37	Slag, Low density Location: 250° - 270° Elevation: 593'-0 - 673'-0	(Re-Rt, Repair)
1Z-23-L-2	1	1-2	88	Low Density Location: 80° Elevation: 626'-9"	(Re-Rt)

[illegible]

DRAWING NUMBER

FILM IDENTIFICATION	UNIT	VIEW	C-111 IR NO	DEFICIENCY AND LOCATION
S-1-14-U-1	2	1-2	13	Undercut Location 170° - 190° Elevation 592'-0" - 673'-0" (Repair)
S-2-3-U-1	2	1-2	8	Slag Location 330° - 350° Elevation 593'-0" - 673'-0" (Repair)
S-3-1-U-1	2	4-5	11	Density and Quality Level Location 230° - 250° Elevation 593'-0" - 673'-0" (Re-Rt)
SBX L-2	2	1-2		Low Density Location 205° Elevation 620' (Re-Rt) Part of Penetration R-16-L

FILM IDENTIFICATION	UNIT	VIEW	C-111 IR NO	DEFICIENCY AND LOCATION
RD 3-11 L-1	2	1-2	12	Slag Location 60° - 80° Elevation Dome (Repair)
RD 9-2 L-1	2	1-2	103	Slag Location 240° - 260° Elevation Dome (Repair)
DRAWING NUMBER SEE NOTE BELOW *				
D 9-10 L-1	1	1-2		Low Density Location 260° - 270° * Elevation Dome (Re-Rt)
D 4-16 L-1	1	1-2		Slag Location 30° - 40° * Elevation Dome (Repair)
*Note: Locations derived from Southern Boiler Works Drawing A-521 sheet 3 (Bechtel Vendor Document Number 7220-C-50A-28(3)-2)				



Consumer
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NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

Q27-0 PRIORITY: 01 S/U SYS: CD-95 TREND: M-3 (M-5) AI: S-1298 PAGE 1 OF 3

6. PROJECT NAME: Midland 1 & 2		7. NONCONFORMING PART NO: 22113 & 12131		8. NONCONFORMING PART NAME: Electrical Penetration Assembly		1. NCR SERIAL NO: M-01-9-2-026	
9. SERIAL NUMBER: N/A		10. ORG. COMMITTING NC: Bunker-Ramo Corporation		11. AREA/NO. OF NC: 635' 3" Containment #2		2. DATE: 2/24/82	
						3. DATE OF REV: N/A	
						4. FILE NO: 16.0	
12. AS IS NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: In October of 1980, Commonwealth Edison in a 50.55e report to Region III reported cracks in the insulation of certain feed through modules in their Electrical Penetration Assemblies supplied by Bunker-Ramo to their LaSalle Project. In November of 1980, MPQAD through QAR F-015 requested Project Engineering to determine if the Midland Project had similar problems in its EPA's. In response to this concern, in July 1981, MPQAD was assured that Midland Project EPA's did not use the same type of conductor and the conductor design was different from those used at LaSalle. Assurance was also given, that the cracks found at LaSalle were not generic in nature, (CONTINUED)						5. DISTRIBUTION ACTION COPY: RMCollins LHCurtis INFO COPY: WRBird MLCurnd JWCook MADietrich BWMarguglio REMcCue/RDJohnson DANott BHPeck JARutgers DATaggart DMTurnbull	
13. QA RECOMMENDATION FOR PART CA: Repair or replace modules with cracked insulation. Project Engineering to evaluate the butt splice deficiency and provide corrective action. DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input checked="" type="checkbox"/> NOT REQUIRED <input type="checkbox"/>							
14. HOLD TAGS APPLIED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: _____							
15. IS PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW: _____							
16. DOES NC AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>				17. IS NC REPORTABLE PER 50.55(e): YES <input type="checkbox"/> NO <input type="checkbox"/> *			
18. IS NC REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				19. IF YES, DATE & TIME OF REPORT TO NRC: _____ *			
20. IF YES, WHO MADE REPORT TO NRC: N/A				21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: _____ *			
22. NCR ORIGINATED BY: <i>Donald R. Nott</i>		23. WRITTEN REPLY REQUIRED BY: 3/12/82 TO ESTABLISH CA COMPLETION DATE		24. SUPERVISOR'S SIGNATURE/DATE: <i>W. J. Schaeffer</i> 2/24/82			
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE: _____							
*Project Engineering to determine reportability per 50.55(e).							
26. DESIGN/PROJECT SIG. AUTH. DISP.: N/A		27. PMO SIG. AUTH. DISP.: N/A		28. PROCUREMENT SIG. CONC. DISP.: N/A		29. SIG. OF ORG. RESP. FOR C/A: N/A	
30. FAB/CONST. SIG. AUTH. EMP. DISP.: N/A		31. SIG. OF TEST GROUP ACKNOW. CONDITION: N/A		32. FOR MAJOR MOD - PLT. SUPT. SIG. AUTH. DISP.: N/A		33. QA AUTH. SIG. TO IMPLEMENT DISP.: N/A	
34. METHOD OF PART CA VERIFICATION: _____							
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION: _____		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE: _____		37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE) _____			



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NONCONFORMANCE REPORT

PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT
M-01-9-2-020
NCR SERIAL NUMBER:
PAGE 2 OF 3

38. QA ASSESSMENT OF ROOT CAUSE(S):

Defective manufacturing process.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA REQUIRED FROM:

DESIGN ☐ FABRICATION ☐ CONSTRUCTION ☐ PROCUREMENT ☒ INSPECTION ☐
OTHER Project Engineering

41. QA RECOMMENDATION FOR PROCESS CA:

- 1) Project Engineering to determine why at least one penetration assembly was not pulled for visual inspection instead of relying wholly on the Vendor deposition. (LHCurtis)
- 2) Procurement to determine why cracks in the insulation were not found by the SQR at the Vendors. (RMCollins)
- 3) Procurement to have Vendor determine advisability of repairing modules with damaged insulation. (RMCollins)

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK #1 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

CONTINUED:

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS"

they were caused by excessive bending stresses during production, packaging, transportation, and handling, and are not a concern for the Midland Plant EPA's. (See Attachment 1)

Contrary to the above, Bechtel NCR 3942 dated 2/2/82 reported evidence of cracked insulation on conductors in feed through modules in Electrical Penetration 2Z113. Further investigation by MPQAD revealed cracks in the insulation at the base of modules B, C and E identical to those described in the Commonwealth 50.55(e).

In addition to the cracking insulation, Bechtel QC on 2/1/82 issued NCR 3944 reporting that a butt splice in Electrical Penetration 1Z131 had parted apparently when the cables were reinserted into the Electrical Penetration Assembly. This splice was in the #2 wire from module E. Since then at least two other splices have come apart and several have been found loose. Splices were also found loose in the spare module assemblies in the warehouse.

W. Bird
M. Dietrich
W. Mante
S. Margaglio

QUALITY ACTION REQUEST

001
AI 401

Attachment #1 to NCR M-01-9-1-027

File No: 16.10.

017047

TO: <u>H. P. Leonard</u>		AI: S-485	
FROM: <u>LHCurtis</u>	(2) Control Document ref.: <u>7220-E-20</u>	(3) QAR Ident. No.: <u>F-0.</u>	
Action Requested: <u>Commonwealth Edison in Electrical Penetration - 10CFR50.55(e) Interim Report</u>			
<u>NRC Docket No 50-374 dated October 2, 1980 to Region III, Nuclear Regulatory</u>			
<u>Commission reported that, "cracks were discovered in the insulation of certain</u>			
<u>feed-through conductors as they enter or exit the epoxy module portion of</u>			
<u>eration." The problem definition goes on to describe that bare copper was</u>			
<u>cracks were approximately 1/4" from face of overmold portion and involved</u>			
<u>density, small diameter wire modules. These penetrations were manufactured by</u>			
<u>Bunker Ramo Corporation, Connector Division Sams Operations.</u>			
RECOMMENDED ACTION: (See Page 2)			
Signature: <u>[Signature]</u>	(6) Date: <u>11/24/80</u>	(7) Reply Requested by: <u>12/11/80</u>	
Reply: <u>This is a complete response. We have been informed by</u>			
<u>Bunker Ramo / Amphenol Sams that the cracks discovered</u>			
<u>the insulation of certain feed through conductors on the</u>			
<u>LaSalle County Unit 2 electrical penetrations (EPA's) are</u>			
<u>not-generic in nature. They are caused by excessive</u>			
<u>bending stresses during production, packaging, transportation</u>			
<u>and handling, and are not a concern for the</u>			
<u>Midland Project EPA's. The major differences between</u>			
Signature: <u>R.C. Holden for L.H. Curtis</u>	(10) Date: <u>7-28-81</u>		
Action Verified: <u>[Signature]</u>	(12) Date:		

DEC 2 1980

the Midland EPA's and the LaSalle EPA's are listed below:

- (1) On the inboard side of the Midland EPA's, the inboard pigtailed are supported by the cable support assembly which is embedded in the header plate. On the outside, the conductors are supported by the horizontal bar in the junction box. This eliminates the bending stresses at the module-cable interface - eliminating probable cause of the cracking.

The cable support assembly of the LaSalle EPA's, not embedded in the header plate and used only during final installation into the reactor nozzle.

- (2) The Midland EPA module retaining system is by a bolted flange. The retaining flange design prevents stress at the module-cable interface.

The LaSalle EPA module retaining system is by a threaded ring which is torqued into the header plate at 90° to the axis of the module.

- (3) The Midland EPA's, as opposed to the LaSalle EPA's were made and handled with improved techniques at the factory, with special fixtures so as not to stress the module conductors. Special packaging containers were built for shipment of the Midland EPA's.

- (4) Midland penetration precrimp modules (part numbers 50016864-01 through 40, excluding coax and triax) have double shrink sleeve concentrically installed, where the LaSalle penetration modules (part numbers 50026558-xx) had only one shrink sleeve.

QAR Ident No: F-01
 File No: 16.10.3.2
 AI: S-485

017047

RECOMMENDED ACTION:

Midland 1 & 2 Electrical Penetrations were manufactured by Bunker Ramo Corporation. Project Engineering to determine if Midland Project has a similar problem to that reported by Commonwealth Edison. Show justification if not a concern for the Midland Project.

JOB 7220 QE RECD			
File No.			
Response Recd		Date 7-3	
QE Action Item No.			
ROUTE	I	A	COMMENT
G. Maule			
B. Kappel			
K. Baum			
J. Rohrbeck			
D. Bortaza			
P. Presley			
M. Lawson			
FILE			

RS-223-Q1

0
CPCO NCR's

m01.9.2.027

thru

m01.9.2.029

m01.5.2.030

m01.9.2.031

VOIDED

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NEVER ISSUED



Consumers
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QA27-0

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

Priority: 05 SUS: 2-BBC Trend: C-3, (C-3) AI: S-1315

PAGE 1 OF 2

6. PROJECT NAME: Midland 1 and 2		7. NONCONFORMING PART NO: 2J2-1 2J2-2		8. NONCONFORMING PART NAME: Reactor Coolant Pump Snubbers		1. NCR SERIAL NO: M03-4-2-032	
9. SERIAL NUMBER: 2J2-1 2J2-2		10. ORG. COMMITTING NO: Babcock & Wilcox		11. AREA/LOC. OF NC: Missile Shield Unit 2		2. DATE: 3/1/82	
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: During inspection of installation activities for snubbers 2J2-1 and 2J2-2 Unit #2 Reactor Coolant Pump 2P51-D, Air bubbles were noted to be present in the tubing leading from the installation bladder to the Snubber Isolation Valve. Contrary to the above, manufacturers requirements do not permit any air entrainment in the Snubber Fluid/Hydraulic System. 13. QA RECOMMENDATION FOR PART CA: 1) Research and determine source of air in leakage into the subject snubber Fluid/Hydraulic System and correct that deficiency. 2) Provide CPCo QA Engineering with corrective action analysis. 3) Items 1 and 2 above are to be accomplished in conjunction with ITT Grinnell DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input type="checkbox"/> NOT REQUIRED <input checked="" type="checkbox"/>						3. DATE OF REV: N/A	
						4. FILE NO: 16.0	
14. HOLD TAGS APPLIED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: each on snubbers 2J2-1 and 2J2-2						5. DISTRIBUTION ACTION COPY: LEDavis INFO COPY: HLAllen JARutgers WRBird DATaggart JWCook DMTurnbull MLCurland RAWells MADietrich JLWood RDJohnson ALAB (2) WJLee BWMarguglio REMcCue DBMiller BHPeck	
						15. IS PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW:	
16. DOES NC AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>				17. IS NC REPORTABLE PER 50.55(*): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
18. IS NC REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				19. IF YES, DATE & TIME OF REPORT TO NRC: N/A			
20. IF YES, WHO MADE REPORT TO NRC: N/A				21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A			
22. NCR ORIGINATED BY: Harold L. Allen		23. WRITTEN REPLY REQUIRED BY: 3/15/82 TO ESTABLISH CA COMPLETION DATE		24. SUPERVISOR'S SIGNATURE/DATE: R E W White 3/1/82			
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:							
26. DESIGN/PROJECT SIG. AUTH. DISP.:		27. PMO SIG. AUTH. DISP.:		28. PROCUREMENT SIG. CONC. DISP.:		29. SIG. OF ORG. RESP. FOR C/A:	
30. FAB/CONST. SIG. AUTH. IMP. DISP.:		31. SIG. OF TEST GROUP ACKNOW. CONDITION:		32. FOR MAJOR MOD - PLT. SUPT. SIG. AUTH. DISP.:		33. QA TH. SIG. TO IMPLEMENT DISP.:	
34. METHOD OF PART CA VERIFICATION:							
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION:		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE:			37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)		



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PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT
M03-4-2-032
NCR SERIAL NUMBER: _____
PAGE 2 OF 2

38. QA ASSESSMENT OF ROOT CAUSE(S):

To be determined.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA REQUIRED FROM:

DESIGN

☐

FABRICATION

☐

CONSTRUCTION

☒

PROCUREMENT

☐

INSPECTION

☐

OTHER Preparation for installation

41. QA RECOMMENDATION FOR PROCESS CA:

- 1) Review and verify snubber purging procedure is being accomplished in accordance with manufacturers requirements.
- 2) Isolate the source of air entrainment in the purging/preparation for installation activity and take corrective action. Perform in conjunction with ITT Grinnell.
- 3) Inspect all snubbers and correct the air entrainment condition as required per manufacturers requirements.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

0



Consumers
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QA27-0

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

Priority: 05 TREND: C-2 (C-2), SUS: 2PEB AI: S-1316

PAGE 1 OF 2

6. PROJECT NAME: Midland #2		7. NONCONFORMING PART NO: HGR #2-652-2-34(Q) REV 1		8. NONCONFORMING PART NAME: Seismic Restraint		1. NCR SERIAL NO: M-01-5-2-033	
9. SERIAL NUMBER: N/A		10. ORG. COMMITTING QC: Construction and Bechtel QC		11. AREA/LOC. OF NC: DSL Gen Bldg - 4		2. DATE: 2/25/82	
						3. DATE OF REV: N/A	
						4. FILE NO: 16.0	
2. AS IS' NONCONFORMING CONDITION VERSUS 'AS REQUIRED' CONDITION WITH REFS: Dwg 2-652-2-34(Q), Rev 1, Sect A-A, requires a 7'-7½" dim BTWN Elev 634'-6" & 642'-1½" and a 1'-3" dim BTWN elev 642'-1½" and 643'-4½". Contrary to the above; actual measurements were 8'-2½" and 7½" respectively. Which exceeds spec requirements as referenced in M-326, Rev 6, Appx "K". (±2") NOTE: Height to centerline of pipe is satisfactory.						5. DISTRIBUTION ACTION COPY: LEDavis ESmith LHCurtis INFO COPY: WRBird DMTurnbull JWCook RAWells MADietrich JLWood RDJohnson ALAB-2 BWMarguglio MLurland REMcCue DBMiller BHPeck ALPucci JARutzgers DATaggart	
13. RECOMMENDATION FOR PART CA: a) Re-inspect similar installation of 1 & 2-652-2-34 in DSL Gen Bldg. b) Proj Engr to evaluate as built condition to determine whether design chg or repair is necessary. c) If repaired, QC to provide documented results. d) If accept-as-is, provide justification. (SEE LINE 40 FOR RESPONSIBLE) DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input checked="" type="checkbox"/> NOT REQUIRED <input type="checkbox"/>							
14. HOLD TAG APPLIED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NUMBER, LOCATION & TYPE OF HOLD TAG APPLIED: (1) DSL Gen Bldg-4 QA hold							
15. IS PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW:							
16. DOES NC AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>							
17. IS NC REPORTABLE PER 50.55(e): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>							
18. IS NC REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>							
19. IF YES, DATE & TIME OF REPORT TO NRC: N/A							
20. IF YES, WHO MADE REPORT TO NRC: N/A							
21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A							
22. ORIGINATED BY: <i>ALPucci</i> 2/25/82		23. WRITTEN REPLY REQUIRED BY: 3/12/82 TO ESTABLISH CA COMPLETION DATE		24. SUPERVISOR'S SIGNATURE/DATE: <i>REC. Lurland</i> 2/26/82			
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:							
26. DESIGN/PROJECT SIG. AUTH. DISP.:		27. PMO SIG. AUTH. DISP.:		28. PROCUREMENT SIG. CONC. DISP.:		29. SIG. OF ORG. RESP. FOR C/A:	
30. FAB/CONST. SIG. AUTH. IMP. DISP.:		31. SIG. OF TEST GROUP ACKNOW. CONDITION:		32. FOR MAJOR MOD - PLT. SUPT. SIG. AUTH. DISP.:		33. QA AUTH. SIG. TO IMPLEMENT DISP.:	
34. METHOD OF PART CA VERIFICATION:							
35. SIG. OF ORG. RESP. FOR PART C/A		36. SIG. VERIFYING PART C/A & HOLD TAG		37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)			



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NONCONFORMANCE REPORT

PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -

QUALITY ASSURANCE DEPARTMENT

NCR SERIAL NUMBER: M-01-5-2-033

PAGE 2 OF 2

36. QA ASSESSMENT OF ROOT CAUSE(S):

Unknown, to be determined.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA REQUIRED FROM:

DESIGN ☒ 13a, b & d FABRICATION ☐

CONSTRUCTION ☒

PROCUREMENT ☐

INSPECTION ☒ 13a & c

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

Unknown, to be determined.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

0

CP30 NCR M.01.52.034

NEVER ISSUED



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NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

QA27-0 Priority: 10

Trend: (B-1, I-1) SUS: PGMIEA AI:S-1318 PAGE 1 OF 2

6. PROJECT NAME: Midland		7. NONCONFORMING PART NO: 1BJ662		8. NONCONFORMING PART NAME: Junction Box		1. NCR SERIAL NO: M-01-5-2-035	
9. SERIAL NUMBER: N/A		10. ORG. COMMITTING NO: Bechtel Construction/QC		11. AREA/LOC. OF NC: Aux Bldg Elev 634'		2. DATE: 3/8/82	
						3. DATE OF REV: N/A	
						4. FILE NO: 16.0	
12. AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: Drawing 7220/E-42(Q) Sheet 12 (10) states: "Each scheduled pull box will be identified and marked per Section VIII 'Raceway Marking' on Sheet 60." Contrary to the above, Junction Box 1BJ662 is improperly marked on the cover as being 1BJ682.						5. DISTRIBUTION ACTION COPY: LEDavis ESmith	
						INFO COPY: WRBird DATaggart MLQurland DMTurnbull JWCook JLWood MADietrich RAWells RAHinojosa ALAB-2 RDJohnson BWMarguglio REMcCue DBMiller BHPeck JARutgers	
13. QA RECOMMENDATION FOR PART CA: 1) Field Construction re-stencil cover. (LEDavis) 2) QC verify. (ESmith)							
DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input type="checkbox"/> NOT REQUIRED <input checked="" type="checkbox"/>							
14. HOLD TAGS APPLIED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NUMBER, LOCATION & TYPE OF HOLD TAG APPLIED:							
15. IS PROCESS CA REQUIRED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW: 1BJ662 is properly identified on side. Only cover is improperly stenciled.							
16. DOES NC AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>			17. IS NC REPORTABLE PER 50.55(*): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				
18. IS NC REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			19. IF YES, DATE & TIME OF REPORT TO NRC: N/A				
20. IF YES, WHO MADE REPORT TO NRC: N/A			21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A				
22. NON/ORIGINATED BY: <i>R. A. Hinojosa</i>		23. WRITTEN REPLY REQUIRED BY: 3/22/82 TO ESTABLISH CA COMPLETION DATE		24. SUPERVISOR'S SIGNATURE/DATE: <i>M. J. Schaeffer</i> 3/9/82			
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:							
26. DESIGN/PROJECT SIG. AUTH. DISP.: N/A		27. PMO SIG. AUTH. DISP.: N/A		28. PROCUREMENT SIG. CONC. DISP.: N/A		29. SIG. OF ORG. RESP. FOR C/A:	
30. FAB/CONST. SIG. AUTH. EMP. DISP.: N/A		31. SIG. OF TEST GROUP ACKNOW. CONDITION: N/A		32. FOR MAJOR MOD - PLT. SUPT. SIG. AUTH. DISP.: N/A		33. QA AUTH. SIG. TO IMPLEMENT DISP.:	
34. METHOD OF PART CA VERIFICATION:							
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION:		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE:		37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)			



Consumers
Power
Company

NONCONFORMANCE REPORT

PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -

QUALITY ASSURANCE DEPARTMENT

M-01-5-2-035
NCR SERIAL NUMBER:

PAGE 2 OF 2

38. QA ASSESSMENT OF ROOT CAUSE(S):

Failure to follow procedure.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA REQUIRED FROM:

DESIGN ☐

FABRICATION ☐

CONSTRUCTION ☐

PROCUREMENT ☐

INSPECTION ☐

OTHER

N/A

41. QA RECOMMENDATION FOR PROCESS CA:

N/A

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

N/A

43. METHOD OF PROCESS CA VERIFICATION:

N/A

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

CPCo

Closed NCR's



Consumers
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2427-0

NONCONFORMANCE REPORT

JECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

Priority: 02 Trend: I-3, I-5 SUS: PGMIEA AI: S-1049 PAGE 1 OF 3

6. PROJECT NAME: Midland 1 and 2		7. NONCONFORMING PART NO: C304-707-W Rev 0		8. NONCONFORMING PART NAME: Quality Control Inspection Record		9. DATE: 9/29/81	
10. SERIAL NUMBER: NA		11. ORG. COMMITTING NO: Bechtel QC		12. AREA/LOC. OF NO: NA		13. DATE OF REV: NA	
14. AS IS NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: PQCI Number 7220/W-1.00 Rev 3 Paragraph 1.0 (prerequisites) states, "The following activities shall be accomplished at the same time or after the IR is scoped for a given work operation, but prior to the actual performance of any of the in-process inspection activities . 1.1 Verify the latest applicable design drawings, specifications or vendor drawings, listed under Column 5, "Inspection Criteria" on the QCI and "drawings/specifications" on the IR being used. 1.2 Review the "Inspection Criteria" on the QCI under Column 5 and "drawings/specifications" on the IR to assure the criteria is under- stood". (Continued on page 3)						15. DISTRIBUTION ACTION COPY: ESmith INFO COPY: WRBird DATaggart REBlackinton- WTaggart DMTurnbull JWCook RAWells JRDacker JLWood MADietrich JRussell BWMarguglio ALAB-2 DBMiller MLCurland REMcCue RDJohnson BHPeck(2) MBMcLean JARutgers	
16. 1A RECOMMENDATION FOR PART CA: Reinspect all items pertinent to QCIR C304-707W Rev 0 that were inspected prior to issuance of the Inspection Record. Specifically, rollout items 1, 3, 4, 5, 9, 16, 18, 22, 27 23A, and 25A. DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input type="checkbox"/> NOT REQUIRED <input checked="" type="checkbox"/>							
17. HOLD TAGS APPLIED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED:							
18. IS PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW:							
19. DOES NO AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>							
20. IS NO REPORTABLE PER 90.55(e): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>							
21. IF YES, DATE & TIME OF REPORT TO NRC: NA							
22. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA							
23. NCR ORIGINATED BY: R E Blackinton <i>REBlack</i>		24. WRITTEN REPLY REQUIRED BY: 10/8/81 TO ESTABLISH CA COMPLETION DATE		25. SUPERVISOR'S SIGNATURE/DATE: <i>M. J. [Signature]</i> 10/1/81			
26. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE: See Bechtel Transmittal #23482, dated 2/9/82 for complete response.							
27. DESIGN/PROJECT SIG. AUTH. DISP.: N/A		28. PMO SIG. AUTH. DISP.: N/A		29. PROCUREMENT SIG. CONC. DISP.: N/A		30. SIG. OF ORG. RESP. FOR C/A: See attached T/N	
31. FAB/CONST. SIG. AUTH. EMP. DISP.: N/A		32. SIG. OF TEST GROUP ACKNOW. CONDITION: N/A		33. FOR MAJOR MOD - PLD. SUPP. SIG. AUTH. DISP.: N/A		34. QA AUTH. SIG. TO IMPLEMENT DISP.: N/A	
35. METHOD OF PART CA VERIFICATION: Inspected rollout from QCIR C-304-707W. Statements on QCIR and rollout sufficient to track down evidence that welds were inspected.							
36. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION: See attached T/N		37. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL DATE: <i>Michael B. McLean</i> 2-26-82		38. NCR CLOSED BY, DATE: (PART & PROCESS CA COMPLETE) <i>Michael B. McLean</i> 2-26-82			



Consumers
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NONCONFORMANCE REPORT

PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT
M-01-9-1-118
NCR SERIAL NUMBER:
PAGE 2 OF 3

38. 4A ASSESSMENT OF ROOT CAUSE(S):

Failure to CQCE to follow written instructions.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

~~Unknown, to be determined.~~

See attached Transmittal #23482.

40. PROCESS CA REQUESTED FROM:

DESIGN ☐

FABRICATION ☐

CONSTRUCTION ☐

PROCUREMENT ☐

INSPECTION ☒

OTHER ☐

41. QA RECOMMENDATION FOR PROCESS CA:

Reinstruct CQCE personnel that inspections are to be performed strictly in accordance with applicable PQCI (ie., that inspections are not to be performed prior to issue of one applicable IR).

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

NA See attached Transmittal #23485.

43. METHOD OF PROCESS CA VERIFICATION:

See Block 34

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

See attached Transmittal #23482

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

Michael B. McLean 2-26-82

Page 3 of 3
NCR: M-01-9-1-118
Date: 9/29/83
File: 16.0

CONTINUED-

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

Contrary to the above, the inspections purportedly documented on QCIR C-304-707W Rev 0 were actually performed 4-6 weeks before the subject QCIR was generated.



BECHTEL POWER CORP. TRANSMITTAL FORM

N^o 23482
PLEASE RECEIPT AND RETURN
BLUE COPY IMMEDIATELY

DATE February 9, 1982

* ACTION

SUBJECT

CODE

ACTION FOR VENDORS

1. ☐ APPROVED - MFG. MAY PROCEED
2. ☐ APPROVED
SUBMIT FINAL UWG. MFG. MAY
PROCEED
3. ☐ APPROVED EXCEPT AS NOTED. MAKE
CHANGES AND SUBMIT FINAL DWC.
MFG MAY PROCEED AS APPROVED
4. ☐ NOT APPROVED. CORRECT AND RESUBMIT
5. ☐ REVIEW NOT REQUIRED
MFG. MAY PROCEED

ACTION FOR OTHERS

6. ☐ FOR APPROVAL
7. ☐ CONSTRUCTION
8. ☐ PRELIMINARY USE
9. ☐ REFERENCE
10. ☒ Complete Response

- ☐ BECHTEL DRAWINGS
- ☐ VENDOR DRAWINGS
- ☐ MATERIAL REQUISITION
- ☐ SPECIFICATIONS
- ☐ BID REQUEST
- ☐ QUOTATIONS
- ☐ PURCHASE ORDER
- ☐ CONFERENCE NOTES
- ☐ BID SUMMARY
- ☐ SUBCONTRACTS
- ☐ _____
- ☐ _____

B
V
MR
S
BR
Q
PO
CN
BS
SC
X
Y

ATTENTION VENDORS: ALL FINAL DRAWINGS SUBMITTED TO BECHTEL MUST BE CERTIFIED TRANSPARENCIES.

QTY.	F.P. PREFIX	BECHTEL FOREIGN PR. NO.	REV. NO.	TITLE	VENDOR NO.	ACTION	CODE
				QCAI-1318A.			
				QA AI-S-1049			
				MPQAD NCR-M-01-0-1-118			
CONSUMERS POWER COMPANY RECEIVED FEB 10 1982 FIELD QUALITY ASSURANCE MIDLAND, MICHIGAN							

COMMENTS: W. R. Bird
B. W. Marguglio

ACTION PRINT	RDD/MBM
DATE PRINTED	
APPROVED BY	DMT
DATE	
CHECK TO FILE	16.0

TO

D. M. Turnbull, MPQAD
Consumers Power Company

FROM

E. Smith, Quality Control
Bechtel Power Corp.

- ☐ VENDOR PRINT
- ☐ OTHER

BY

D.S.P. *[Signature]*

QC AI-1318A

QA AI-S-1049

MPQAD NCR-M-01-0-1-118

On January 22, 1982, records package C-304-706 thru C-304-710 was reviewed by QCE. The roll-out for C-304-707, found in this package, was reviewed and the following statement was found on the roll-out: The area highlighted in yellow was previously scoped on C-304-454 WR1; signed by Dale S. Preslar on 10-7-81.

The QCIR was also reviewed at this time and no statement was found. The following statement was added to the remarks column, block 15: This IR was originally scoped on C-304-454 W. Inspections performed on C-304-454 W were transferred to this IR.

T/N 23482

H. Bird
MIKE.

QC AI 1318A

MPQAD NCR M-01-0-1-118
QA AI S-1049

Additional training was given to Electrical QCE's on the transferring of inspections from the original IR to the revised IR and from the revised IR back to the original IR.

This training was conducted by D. Preslar on 12/15/81.

T/N 23485



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9A27-0

NONCONFORMANCE REPORT

PRO. S, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

Trend: C-3 Priority: 06 SUS: 2 ARA AI: S881

PAGE 1 OF 3

6. PROJECT NAME: Midland	7. NONCONFORMING PART NO: 26" ELB-10-H33	8. NONCONFORMING PART NAME: Variable Spring Support Hanger	1. NCR SERIAL NO: M-01-1-1-081
9. SERIAL NUMBER: N/A	10. ORG. COMMITTING NC: Bechtel Construction and Quality Control	11. AREA/LOC. OF NC: Containment 2 Elevation 696'	2. DATE: 6/26/81 <i>Closed</i> 7/22/82
			3. DATE OF REV: 7/2/81
			4. FILE NO: 8-16-3-616.0

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

- 1) PQCI 7220-P2.10, 3.3.B states: "Minimum thread engagement shall be that amount necessary to engage all the threads of the nut or threaded component. Hanger load devices which have internally threaded adjustable components are to have sight holes provided to verify adequate thread engagement where required."
Contrary to this, at sight holes of both spring canister support rods, no threads are visible.
- 2) Spec. 7220 M-326, 5.1.1 states: "To the greatest extent possible, pipe supports shall be installed in strict compliance with the component pipe support design sketches/drawings."
Contrary to this, location of hanger weld attachments on pipe do not conform to sketch (2-632-1-38). (See attached drawing)

13. QA RECOMMENDATION FOR PART CA:

- 1) Rework hanger threaded components to conform with specifications and procedures. Record & Document. (LEDavis)
- 2) Provide technical justification to use as is or rework to conform with design sketch (2-632-1-38). Record & Document.) (LEDavis)

DESIGN/PROJECT ENG. DISPOSITION REQUIRED ☐ NOT REQUIRED ☒

5. DISTRIBUTION

ACTION COPY:

LEDavis

INFO COPY:

WRBird JLWood
-CACHien MPQAD R
JWCook MLCurlan
-TCCooke(2)-RDJohnson
MADietrichREMcCue
BWMarguglio BHPeck
DBMiller ALAB (2)
JARutgers
FHSchulmeister
MJSchaeffer
DATaggart

14. HOLD TAGS APPLIED: YES ☒ NO ☐ NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED:
1. Containment 2 QA

15. IS PROCESS CA REQUIRED: YES ☒ NO ☐ IF NO, ENTER JUSTIFICATION BELOW:

16. DOES NC AFFECT Q-LIST ITEM: YES ☒ NO ☐

17. IS NC REPORTABLE PER 90.55(e): YES ☐ NO ☒

18. IS NC REPORTABLE PER PART 21: YES ☐ NO ☒

19. IF YES, DATE & TIME OF REPORT TO NRC: N/A

20. IF YES, WHO MADE REPORT TO NRC: N/A

21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A

22. NC ORIGINATED BY:

23. WRITTEN REPLY REQUIRED BY:

24. SUPERVISOR'S SIGNATURE/DATE:

7/9/81

TO ESTABLISH CA COMPLETION DATE

Michael J Schaeffer

25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

Transmittal #22995 dated 2/15/82

26. DESIGN/PROJECT SIG. AUTH. DISP.: N/A	27. PMO SIG. AUTH. DISP.: N/A	28. PROCUREMENT SIG. CONC. DISP.: N/A	29. SIG. OF ORG. RESP. FOR C/A: Trans #22995
30. FAB/CONST. SIG. AUTH. IMP. DISP.: Trans # 22995	31. SIG. OF TEST GROUP ACKNOW. CONDITION:	32. FOR MAJOR MOD - PLT. SUPT. SIG. AUTH. DISP.: N/A	33. QA AUTH. SIG. TO IMPLEMENT DISP. <i>[Signature]</i>

34. METHOD OF PART CA VERIFICATION:

Review of Transmittal #22995 dated 2/15/82 and review of applicable Redline approved by Resident Engineering.

35. SIG. OF ORG. RESP. FOR PART C/A
SIGNIFYING COMPLETION:

Trans #22995

36. SIG. VERIFYING PART C/A & NC STATUS
REMOVAL DATE:

37. NC CLOSED BY/DATE:
(PART & PROCEDURE CA COMPLETE)

222-82



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NONCONFORMANCE REPORT

PROCESS CORRECTIVE ACTION

PRO. S. ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

NCR SERIAL NUMBER: M01-1-1-081

PAGE 2 OF 3

38. QA ASSESSMENT OF ROOT CAUSE(S):

Unknown - to be determined.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

Construction not building per drawing.

40. PROCESS CA REQUIRED FROM:

DESIGN ☐

FABRICATION ☐

CONSTRUCTION ☒

PROCUREMENT ☐

INSPECTION ☒

OTHER ☐

41. QA RECOMMENDATION FOR PROCESS CA:

Unknown - to be determined.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

See blocks 25 and 43

43. METHOD OF PROCESS CA VERIFICATION:

Review and verification of Redline approving condition. Verification of thread engagement.

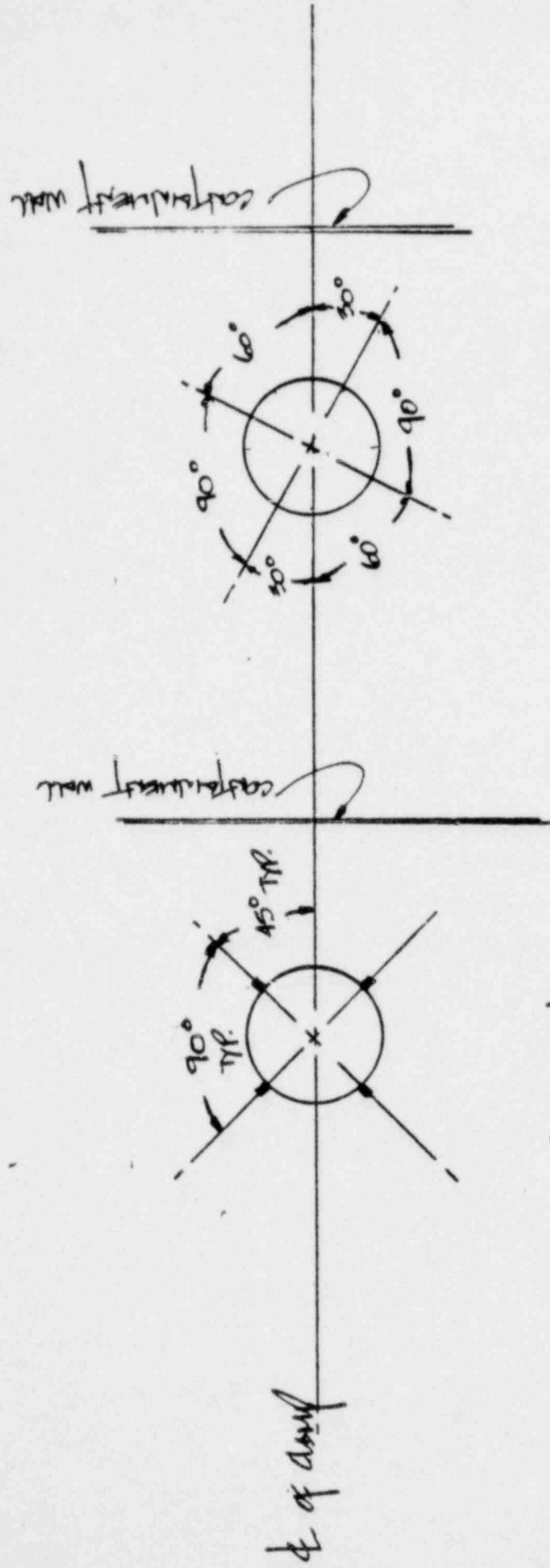
44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

Trans #22995 dated 2/15/82

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

[Signature] 2-22-82

Plan View



As per sketch
(2.032.1.38)

As per sketch in field.
Note: Depths are approx.



NONCONFORMANCE REPORT

PR. JTS. ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

Priority: 6 AI: S905 Trend: B3 (B3) SUS: Indeterminate PAGE 1 OF 3

1. PROJECT NAME: Midland		7. NONCONFORMING PART NO: See list below in Item 12		8. NONCONFORMING PART NAME: Cable trays		1. NCR SERIAL NO: M-01-5-1-088	
9. SERIAL NUMBER: N/A		10. ORG. COMMITTING NO: Bechtel Construction		11. AREA/LOC. OF NO: Unit 1 & Unit 2 Containments		2. 7/20/81 CLOSED 3/15/82	
12. AS IS NONCONFORMING CONDITION VERSUS AS REQUIRED CONDITION WITH REFS: Bechtel DWG 7220-E42A FCN E.No 4579 States; "In Note 16, sheet 3A DWG E42 requires a plastic boot cap to be installed over cable tray hold down bolts which extend above the tray rungs. Extend this requirement to include all bolt heads that are exposed in cable trays and protrude more than 1/16" above the rungs or thru the side rails." Contrary to the above, cable trays: 1ALA01 1ALA02 (Cont'd on page 3)						5. DISTRIBUTION ACTION COPY: LEDavis INFO COPY: WRBird JWood JWCook EAC/KFH -TCCooke(2) MPOAD-Reusing MADietrich ALAB-2 RAHinojosa MLCurland BWMargulio BHPeck DBMiller RDJohnson JARutgers MJSchaeffer DATaggert RAWells	
13. CA RECOMMENDATION FOR PART CA: (1) Bechtel Contruction replace these slot head bolts with bolts which meet the requirements of E-42, and grounding drawing E-41. (Cont'd page 3) DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input type="checkbox"/> NOT REQUIRED <input checked="" type="checkbox"/>							
14. HOLD TAGS APPLIED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NUMBER, LOCATION & TYPE OF HOLD TAG APPLIED:							
15. IS PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW:							
16. DOES NC AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>				17. IS NC REPORTABLE PER 50.55(e): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
18. IS NC REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				19. IF YES, DATE & TIME OF REPORT TO NRC: N/A			
20. IF YES, WHO MADE REPORT TO NRC: N/A				21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A			
22. NCR ORIGINATED BY: <i>[Signature]</i>		23. WRITTEN REPLY REQUIRED BY: 8/3/81 TO ESTABLISH CA COMPLETION DATE		24. SUPERVISOR'S SIGNATURE/DATE: <i>[Signature]</i> 7-27-81			
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE: The NCR is closed out. After clarification with Resident Engineering, the response of 9/22/81 Bechtel T/N 22896 is accepted since FCN E #4866 specifies that other bolting materials are to be used only as an alternate. See attached response Bechtel T/N 22896.							
26. DESIGN/PROJECT SIG. AUTH. DISP.: N/A		27. PMO SIG. AUTH. DISP.: N/A		28. PROCUREMENT SIG. CONC. DISP.: N/A		29. SIG. OF ORG. RESP. FOR C/A: See attached.	
30. FAB/CONST. SIG. AUTH. IMP. DISP.: See attached		31. SIG. OF TEST GROUP ACKNOW. CONDITION: N/A		32. FOR MAJOR MOD - PLT. SUPT. SIG. AUTH. DISP.: N/A		33. CA AUTH. SIG. TO IMPLEMENT DISP.: <i>[Signature]</i>	
34. METHOD OF PART CA VERIFICATION: See attached.							
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION: See attached		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL DATE: <i>[Signature]</i> 7/15/82		37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE) <i>[Signature]</i> 7/15/82			



Consumers
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NONCONFORMANCE REPORT

PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT

NCR SERIAL NUMBER: M-01-5-

PAGE 2 OF 3

38. QA ASSESSMENT OF ROOT CAUSE(S):

Slot head bolts used in lieu of smooth head bolts or hex head bolts on which plastic boot caps can be placed.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA REQUIRED FROM:

DESIGN

☐

FABRICATION

☐

CONSTRUCTION

☒

PROCUREMENT

☐

INSPECTION

☐

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

Unknown, to be determined.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

see attached

43. METHOD OF PROCESS CA VERIFICATION:

see attached

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

[Signature]

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

12. CONTINUED: "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED"
CONDITION WITH REFS:

1AVA11
1AVA12
1ALB01
1ALB02
1ALB98
1ALC01
1ALC02
1ALC07
1ALC12 thru 1ALC18
2ALA01 thru 2ALA03
2ALA05
2ALA06
2ALA09 thru 2ALA16
2ALB01 thru 2ALB03
2ALB07
2ALC01 thru 2ALC03
2AVA02
2AVA06
2AVA11 thru 2AVA16
2AVC07

have slot head bolts attaching the ground cable to the trays. These bolt heads protrude more than 1/16" thru the side rail surface and do not have the required plastic boot caps.

13. CONTINUED: QA RECOMMENDATION FOR PART CA:

- 2) Bechtel FE to inspect remaing Q cable trays to determine if problem exists on other cable trays. Provide corrective action.

This is to be considered the complete and final response from Bechtel/Construction on the subject item. Based upon the Project Engineering's disposition and remarks of FCN E-4579 and FCN E-4866, the installation as it exists now is acceptable and no rework is required. The reasons are:

1) Since the cable weight will not be applied on the subject bolt heads over the life of the plant, no damage to the cable will result. Bolts protruding through the side rail fall into this category and do not present a detrimental condition. Reference remarks to FCN E-4579.

2) Because the bolts (or screws) meet the "design intent of the vendor in both material and structural properties", they will be acceptable from a material standpoint. Reference FCN E-4866.

If you have further questions, please direct them to Project Engineering..

SIGNATURE Paul H. Simpson DATE 8-25-81 PHONE XT. 536
(R MPCA SITE SUPERINTENDENT)

DESIGN NO. 7220	DRAWING OR SPECIFICATION NO. E-41	SHEET NO.	REV SYM. 16	Q ITEM YES NO X	TITLE OF DWG OR SPEC GROUNDING NOTES, SYMBOLS & DETAILS
CHANGE PROPOSED FOR X	PREPARED BY AND DATE JOHN ARMANDO 8-7-81	CHANGE APPROVED YES X NO	PFE SIGNATURE AND DATE <i>[Signature]</i> 8-7-81		

REASON FOR CHANGE

ALTERNATE MATERIAL REQUIRED

EXISTING CONDITION

CONSTRUCTION HAS EXPERIENCED A SHORTAGE OF BOLTING MATERIAL FOR ATTACHMENT OF GROUNDING CONDUCTOR TO THE SIDE RAIL OF THE CABLE TRAYS.

CONTROLLED

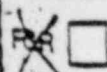
DESCRIPTION OF CHANGE

USE AS AN ALTERNATE MEANS ONLY, SLOTTED OR HEX HEAD CAP SCREWS
HEX HEAD BOLTS FOR ATTACHING GROUND CABLE.
WHEN THE REGULAR BOLTING MATERIAL IS AVAILABLE,
IT SHALL HAVE PRECEDENCE FOR INSTALLATION.

NOTE:

BOLTING MATERIALS ARE NOT SPECIFIED SEPARATELY. THEY ARE SPECIFIED AS A BOLT-CLAMP PACKAGE. IF THE BOLTING MATERIAL MEETS THE DESIGN INTENT OF THE VENDOR, IN BOTH MATERIAL AND STRUCTURAL PROPERTIES, IT IS AN ACCEPTABLE EQUAL.

OTHER DWGS OR SPECS AFFECTED	CIVIL	ELECTRICAL	INSTRUMENTATION	MECHANICAL	PIPING	WELDING OR OTHERS
	NA	NA	NA	NA	NA	NA
CHECKED BY FIELD LDE	NA	NA	NA	NA	NA	NA
CHECKED BY REGR SUPV		NA				



APPROVED

YES ☒

NO ☐

PROJECT ENGINEER SIGNATURE AND DATE

[Signature] for L.H. Curtis 8/13/81

REMARKS

FCN APPROVED AS NOTED - NO INCORPORATION REQUIRED.
SEE NOTE ABOVE.

[Signature] 8/13/81



Consumers
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QAS7-0

DNK

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

Priority: 1 SUS: ITSOEA Trend: M-2, M-3 AI: 1096

PAGE 1 of 2

6. PROJECT NAME: Midland 1 and 2		7. NONCONFORMING PART NO: 1C24 and 2C24		8. NONCONFORMING PART NAME: Control Panels		1. NCR SERIAL NO: MOI-9-1-129	
9. SERIAL NUMBER: NA		10. ORG. COMMITTING NC: Bechtel Eng/ Magnetics Inc		11. AREA/LOC. OF NC: Control Room		2. DATE: 10/20/81	
12. AS IS? NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: Project Inspection Plan and Report 01-E-7B, Character No 1.4 states in part: "...verify lug is tight to terminal point." Contrary to the above, the following terminations were found loose: See attached Project Inspection Plan and Report 01-E-7B, Character No 1.6.C. states: "Verify that soldered terminations are free from defects such as: c. Damage to insulation Contrary to the above, Insulation on device ITI-1662A has been damaged during soldering. - panel 1C-24 Indicator light assembly CS/1NB3708 in panel 1C-24 and CS/2BB5622 in panel 2C-24 are broken.						3. DATE OF REV: 12/16/81	
						4. FILE NO: <i>[Redacted]</i>	
13. CA RECOMMENDATION FOR PART CA: Correct deficiencies noted above. (LHCurtis) Field Engineering correct deficiencies as directed by Project Engineering response, Transmittal Form 167465, attachment to this NCR. DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input checked="" type="checkbox"/> NOT REQUIRED <input type="checkbox"/> (LEDavis)						5. DISTRIBUTION ACTION COPY: LHCurtis L E Davis <i>[Signature]</i>	
						INFO COPY: WRBird RAWells JWCook JLWood MADietrich ALAB-2 BWMarguglio DANott DBMiller MLCurland REMcCue/CFollin BHPeck RDJohnson ERSwood JARutgers DATaggart DMTurnbull	
14. HOLD TAGS APPLIED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: _____							
15. IS PROCESS CA REQUIRED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW: These are vendor deficiencies on installed equipment.							
16. DOES NC AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>				17. IS NC REPORTABLE PER 50.55(a): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
18. IS NC REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				19. IF YES, DATE & TIME OF REPORT TO ENG: NA			
20. IF YES, WHO MADE REPORT TO ENG: NA				21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA			
22. NCR ORIGINATED BY: <i>Eric R. Oswood</i>		23. WRITTEN REPLY REQUIRED BY: 11/2/81 TO ESTABLISH CA COMPLETION DATE		24. SUPERVISOR'S SIGNATURE/DATE: <i>[Signature]</i> 12/16/81			
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE: See attached Transmittals #167465 and #22999, for complete response.							
26. DESIGN/PROJECT SIG. AUTH. DISP.: See attached T/Ns		27. PMO SIG. AUTH. DISP.: NA		28. PROCUREMENT SIG. CONC. DISP.: NA		29. SIG. OF ORG. RESP. FOR C/A: See attached T/Ns	
30. FAB/CONST. SIG. AUTH. DCP. DISP.: See attached T/Ns		31. SIG. OF TEST GROUP ACCEPT. CONDITION: NA		32. FOR MAJOR MOD - FLT. SUPT. SIG. AUTH. DISP.: NA		33. QA AUTH. SIG. TO IMPLEMENT DISP.: <i>[Signature]</i>	
34. METHOD OF PART CA VERIFICATION: Reviewed attached BPCo Transmittals and visually re-verified that all nonconforming items had been reworked.							
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION: See attached T/Ns		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE: N/A		37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE) <i>[Signature]</i> 2-26-82			



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NONCONFORMANCE REPORT

PROCESS CORRECTIVE ACTION

FACTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT
M-01-9-1-129
SERIAL NUMBER:
PAGE 2 OF 2

18. QA ASSESSMENT OF ROOT CAUSE(S):

- 1) Failure of vendor to conform to purchase specifications.
- 2) Failure of Supplier Quality Representative to detect Specification nonconformances.

19. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

NA

20. PROCESS CA REQUIRED FROM:

DESIGN

☐

FABRICATION

☐

CONSTRUCTION

☐

PROCUREMENT

☐

INSPECTION

☐

OTHER

21. QA RECOMMENDATION FOR PROCESS CA:

NA

22. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 21 & DATE OF COMPLETION:

NA

23. METHOD OF PROCESS CA VERIFICATION:

NA

24. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

NA

25. PROCESS CA COMPLETION VERIFIED BY/DATE:

NA

Attachment 1
NCR M01-9-1-129
Date: 10/20/81

LIST OF LOOSE TERMINATIONS

1C-24

<u>Wire</u>	<u>Component</u>
LAB2307-7W	Indicating Light
LAB2303-1X1	Indicating Light
LAB2303-1X1	Switch CS-1/LAB2303
LAB2302-1X1	TB-A2
LAV003-2P1	TB-A2
LAB2310-8	TB-A1
LAB2343-9	TB-A3
LBQ462-5G4	1SV-2171
LBQ462-3R4	1SV-2171
LAQ461-5G4	1SV-2169
LBB5637-6	Switch CS/1BB5637
LAB2339-11	Switch CS-1AP-139

2C-24

<u>Wire</u>	<u>Component</u>
2AB2321-3R	Terminal Board
2AB2303-1X1	Terminal Board
2BA0607	Switch CS/2BA0607
2AA0510	Switch CS/2AA0510

ANN ARBOR

TRANSMITTAL FORM

167465

PLEASE RECEIPT AND RETURN
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DATE 12-10-81

* ACTION

ACTION FOR VENDORS

1. ☐ WORK MAY PROCEED
2. ☐ WORK MAY PROCEED. SUBMIT FINAL DOCUMENT
3. ☐ REVISE AND RESUBMIT. WORK MAY PROCEED SUBJECT TO INCORPORATION OF CHANGES INDICATED
4. ☐ REVISE AND RESUBMIT. WORK MAY NOT PROCEED
5. ☐ REVIEW NOT REQUIRED. WORK MAY PROCEED.
- ☐ FOR INFORMATION ONLY

ACTION FOR OTHERS

6. ☐ FOR APPROVAL
7. ☐ CONSTRUCTION
8. ☐ PRELIMINARY USE
9. ☐ REFERENCE

SUBJECT

- ☐ BECHTEL DRAWINGS
- ☐ VENDOR DRAWINGS
- ☐ MATERIAL REQUISITION
- ☐ SPECIFICATIONS
- ☐ BID REQUEST
- ☐ QUOTATIONS
- ☐ PURCHASE ORDER
- ☐ CONFERENCE NOTES
- ☐ BID SUMMARY
- ☒ SUBCONTRACTS

CODE

B
V
MR
S
BR
Q
PO
CN
BS
SC
X
Y

ATTENTION VENDORS. ALL FINAL DRAWINGS SUBMITTED TO BECHTEL MUST BE CERTIFIED TRANSPARENCIES.

QTY	2 D PREFIX 7300	BECHTEL FOREIGN PR NO	REV NO	TITLE	VENDOR NO	* ACTION	CODE
				NCR # m-01-9-1-129		10	X
				NCR # m-01-9-1-128		10	X

CONSULTING ENGINEERING COMPANY

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DEC 11 1981

FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

THIS COPY FOR

ERO/DAN
16.0

COMMENTS:

D. TURNBULL

TO
D. TORNBULE
MPQAD CPD
MIDLAND, TORBITE

FROM

BADC

TRANSMITTAL
TYPE

- ☐
- VIEW OR PRINT
-
- ☐
- OTHER

BY W. H. A. B.

ORIGINAL



NON-CONFORMANCE REPORT

QUALITY ASSURANCE DEPARTMENT

PART 1 Priority: 1 SUS: ITSOEA Trend: M-2, (M-3) AI: 1096

PAGE 1 OF 2

1. PART NAME: Midland 1 and 2	7. IDENTIFYING PART NO: 1C24 and 2C24	8. IDENTIFYING PART NAME: Control Panels	1. REPORT NO: MOI-9-1-129
2. SERIAL NUMBER: NA 047239	10. ORG. COMPETING NO: Bechtel Eng/04675	11. AREA/LOC. OF NO: Control Room	2. DATE: 10/20/81
			3. DATE OF REV: NA
			4. FILE NO: 16.0

"AS IS" NONCONFORMANCE CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

Project Inspection Plan and Report 01-E-7B, Character No 1.4 states in part: "...verify lug is tight to terminal point."

Contrary to the above, the following terminations were found loose:
See attached

Project Inspection Plan and Report 01-E-7B, Character No 1.6.C. states: "Verify that soldered terminations are free from defects such as:

1. Damage to insulation

Contrary to the above, Insulation on device ITI-1662A has been damaged during soldering. - panel 1C-24

Indicator light assembly CS/LNB3708 in panel 1C-24 and CS/2BB5622 in panel 2C-24 are broken.

5. DISTRIBUTION

TO: [REDACTED]

FROM: L. H. Curtis

c.c. J. Anderson
J. Sacqueton
P. Perry
C. Chien
R. Hollar

6. RECOMMENDATION FOR PART CA:

Correct deficiencies noted above. (LHCurtis)

DESIGN/PROJECT ENG. DISPOSITION REQUIRED ☒ YES ☐ NO

7. FIELD DATA APPLIED: ☐ YES ☒ NO ☐ XX
8. WORKER, LOCATION & TYPE OF FIELD DATA APPLIED:

9. IS PROCESS CA REQUIRED: ☐ YES ☒ NO ☐ XX IF NO, ENTER REASON BELOW:

These are vendor deficiencies on installed equipment.

12. DOES NO AFFECT Q-LIST ITEM: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	17. IS NO REPAIRABLE PER 50.55(a): <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
13. IS NO REPAIRABLE PER PART 21: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	19. IF YES, DATE & TIME OF REPORT TO ENG: NA
14. IF YES, WHO MADE REPORT TO ENG: NA	21. IF YES, NAME OF ENG OFFICIAL TO WHOM REPORTED: NA

15. WHO ORIGINATED BY: Eric R. Oswood	23. VERIFICATION REVIEW REQUIRED BY: 11/2/81 TO ESTABLISH CA COMPLETION DATE	24. SUPERVISOR'S SIGNATURE/DATE: M. J. Schaffer 10/21/81
--	--	---

PART CA DISPOSITION, IDENTIFICATION & COMPLETION DATE:

This is project engineering's complete response (see attached page).

25. DESIGN/PROJECT SIG. AUTH. DISP.: RC Hall L. H. Curtis 12-7-81	27. PMO SIG. AUTH. DISP.: NA	29. PROCEDURE SIG. CONC. DISP.: NA	31. SIG. OF ORG. RESP. FOR C/A: RC Hall L. H. Curtis 12-7-81
26. PART/CONC. SIG. AUTH. DISP.: NA	28. SIG. OF TEST GROUP ACKNOWLEDGMENT: NA	30. FOR MAJOR MCD - P.E. SUPERVISOR AUTH. DISP.: NA	32. QA AUTH. SIG. TO DISSEMINATE DI: NA

33. METHOD OF PART CA VERIFICATION:

34. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION:	36. SIG. VERIFYING PART C/A & FIELD DATA REMOVAL/DATE:	37. WHO CLOSING BY/DATE: (PART & PROCESS CA COMPLETE)
--	--	--

This is project engineering's complete response to NCR M01-9-1-129.

1. Loose Terminations

Loose terminations are unacceptable. Therefore, the field is to retighten the loose termination points listed in Attachment 1 of the NCR, so that the wire/terminal lug is held firmly in place.

2. Damage to Insulation

Any damage to insulation during soldering is unacceptable. The field is to rework the damage insulation for device LTI-1662A in panel 1C24, in accordance with approved soldering procedures. (Refer to Vendor Print 7220-J-201-430.)

3. Damaged Indicator Light Assembly

Damage to indicator light assembly (mechanical or electrical) is unacceptable. The field is to replace the broken indicator light assembly for CS/1NB3708 in panel 1C24 and CS/2BB5622 in panel 2C24.

Written Response Requested: No

Com Use: Closes Com 047239



Nº 22999
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DATE February 18, 1982

CODE

- | | |
|---|----|
| <input type="checkbox"/> SECTEL DRAWINGS | S |
| <input type="checkbox"/> VENDOR DRAWINGS | V |
| <input type="checkbox"/> MATERIAL REQUISITION | MR |
| <input type="checkbox"/> SPECIFICATIONS | S |
| <input type="checkbox"/> BID REQUEST | BR |
| <input type="checkbox"/> QUOTATIONS | Q |
| <input type="checkbox"/> PURCHASE ORDER | PO |
| <input type="checkbox"/> CONFERENCE NOTES | CN |
| <input type="checkbox"/> BID SUMMARY | BS |
| <input type="checkbox"/> SUBCONTRACTS | SC |
| <input type="checkbox"/> _____ | |
| <input type="checkbox"/> _____ | |

BY

NCR M-01-9-1-129 A.I. S-1096

All noted deficiencies have been corrected.



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NONCONFORMANCE REPORT

FACTS, ENGINEERING AND CONSTRUCTION -
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6. PROJECT NAME: Midland 1 & 2		7. NONCONFORMING PART NO: N/A		8. NONCONFORMING PART NAME: Duct		1. NCR SERIAL NO: M-01-4-1-100	
9. SERIAL NUMBER: N/A		10. ORG. COMMITTING NC: Zack Co./MPQAD		11. AREA/LOC. OF NC: Poseyville storage & Plant Areas		2. DATE: 9/01/81	
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: This NCR is issued to identify controls placed on the further processing of duct pieces whose quality status is indeterminate. 10CFR50, Appendix B, CRITERION XV, requires measures to be established to control nonconforming items to prevent inadvertent use or installation. MPQAD letter 10790, dated 12/22/80, "Evaluation of Safety Related Duct Welds (Q-Duct Welds)," concluded that the quality of fabrication welds on ducts was indeterminate. At						3. DATE OF REV: N/A	
						4. FILE NO: 16.0.1	
13. QA RECOMMENDATION FOR PART CA: A. Prior to withdrawal from the Poseyville Laydown Area Zack Co. should notify MPQAD-HVAC QA of the item(s) needed. MPQAD will determine if existing DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input type="checkbox"/> NOT REQUIRED <input checked="" type="checkbox"/>						5. ACTION COPY: LEDavis HPLeonard	
						INFO COPY: RCash REMcCue/CFollir WRBird BHPeck JWCook DATaggart MADietrich RAWells BWMargugli DBMiller JARutgers DMTurnbull CAC/KFH FILE: 2.15	
14. HOLD TAGS APPLIED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: 2, see Block 13, Item C.							
15. IS PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW:							
16. DOES NC AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>				17. IS NC REPORTABLE PER 50.55(e): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
18. IS NC REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				19. IF YES, DATE & TIME OF REPORT TO NRC: N/A			
20. IF YES, WHO MADE REPORT TO NRC: N/A				21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A			
22. NCR ORIGINATED BY: HPLeonard		23. WRITTEN REPLY REQUIRED BY: See Blocks 13-G & 41. TO ESTABLISH CA COMPLETION DATE		24. SUPERVISOR'S SIGNATURE/DATE: HPLeonard 9/01/81			
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE: Hold tags were placed in the "Poseyville Laydown Area Inventory Log" and the "Fabrication Shop Inventory Log" on 9/1/81. Subsequent duct sections that were withdrawn were inspected.							
26. DESIGN/PROJECT SIG. AUTH. DISP.: N/A		27. PMO SIG. AUTH. DISP.: N/A		28. PROCUREMENT SIG. CONC. DISP.: N/A		29. SIG. OF ORG. RESP. FOR C/A: MPQAD Letter 12635 dated 1/21/82	
30. FAB/CONST. SIG. AUTH. IMP. DISP.: N/A		31. SIG. OF TEST GROUP ACKNOW. CONDITION: N/A		32. FOR MAJOR MOD - FLT. SUPT. SIG. AUTH. DISP.: N/A		33. QA AUTH. SIG. TO IMPLEMENT DISP.: Jeffrey Parker 2-1-82	
34. METHOD OF PART CA VERIFICATION: Inspection of Poseyville Laydown Area Inventory Logs and Fabricaton Shop Inventory Log. Review of inspection reports.							
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION: MPQAD Letter 12635, dated 1/21/82.		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE: Jeffrey Parker 1/29/82		37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE) Jeffrey Parker 2/1/82			



NONCONFORMANCE REPORT

PROCESS CORRECTIVE ACTION

PROJECT: ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT: 74-01-4
NCR SERIAL NUMBER: 1-100
PAGE 2 OF 4

38. QA ASSESSMENT OF ROOT CAUSE(S):

Root causes appear to be failure of Zack Production to adhere to criteria for welding, failure of Zack QC to inspect effectively and failure of MPQAD to institute controls to prevent installation of indeterminate items. However, changes in criteria and inspection methodology have occurred since MPQAD letter 10790 was issued. Root causes should be assessed after MPQAD letter 10790 has been dispositioned.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

N/A

40. PROCESS CA REQUIRED FROM:

DESIGN ☐ FABRICATION ☐ CONSTRUCTION ☒ PROCUREMENT ☐ INSPECTION ☒
OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

Determination and implementation of Process Corrective Action should be deferred until MPQAD letter 10790 has been dispositioned and the status of individual duct pieces is better known. MPQAD will issue recommendations for Process Corrective Action by 11/2/81 (assuming Project Engineering response to MPQAD letter 10790 by mid-September 1981).

PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

Bechtel Design review of the concerns expressed in MPQAD Letter 10790.

METHOD OF PROCESS CA VERIFICATION:

MPQAD Letter 12635, dated 1/21/82.

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

MPQAD Letter 12635, dated 1/21/82.

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

Jeffrey E. Parker 2/1/82

Block 12 Continued

that time Zack procedure FQCP-5, "Installation," was believed to provide adequate control since FQCP-5 required inspection of all welds (fabrication and installation) as part of the installation inspection. It was not recognized at that time that some amount of indeterminate duct was available in the Poseyville Laydown Area and could be used by construction without attention to the suspect conditions until that installation inspection. Further, it was not recognized that continued installation and on-going construction could make some of the suspect welding inaccessible for inspection. Further, a review of inspection records indicates procedure FQCP-5 may not have been uniformly implemented with respect to fabrication welds made by Zack in Chicago.

Block 13 Continued

- A. records substantiate that the item is conforming. If substantiation is not available, MPQAD will inspect the welding and release if current criteria are met. Any individual nonconformances will be processed in accordance with Zack procedure FQCP-8, "NCR".
- B. Prior to continuing construction on any duct already installed or ready for installation in any Plant Area, and prior to doing work which would make a duct inaccessible for inspection, Zack Co. should request MPQAD to inspect the duct. MPQAD will determine if existing records substantiate that the duct is conforming. If substantiation is not available, MPQAD will inspect the welding and release if current criteria are met. Any individual nonconformances will be processed in accordance with Zack Procedure FQCP-8, "NCR".
- C. Segregation and tagging of individual duct pieces to control the generic issue which this NCR addresses is not practical. Instead, a "Hold for QA Clearance Tag" (MPQAD Procedure F-7M) and a copy of this NCR will be placed by MPQAD in the "Poseyville Laydown Area Inventory Log" and the "Fabrication Shop Inventory Log" to control further installation. Tagging of any individual duct pieces which are found to be nonconforming will be in accordance with Zack procedure FQCP-8.
- D. Any duct which is already installed and which is not affected by ongoing work (i.e. any duct not included in items A and B above) will remain in an indeterminate status. The action to re-status this duct as either conforming or nonconforming will be determined after the conclusions and recommendations of MPQAD letter 10790 are dispositioned.

Block 13 Continued

- E. Inspections performed by MPQAD as part of items A and B above will be limited to the specific concerns identified in MPQAD letter 10790, that is, nonconformances which were not covered by some other effective inspection. Inspections will be for missing welds and visibly obvious defects. Paint need not be removed from welds for these inspections.
- F. Project Engineering disposition of this "part" corrective action (i.e. controls on further processing) is not required. However, Project Engineering disposition of MPQAD letter 10790 is required before all duct pieces can be statused as either conforming or nonconforming.
- G. This part corrective action is an approach to control of indeterminate duct pieces pending resolution of MPQAD letter 10790. This approach was established among Zack, Bechtel and MPQAD on 8/31/81. A written response to this NCR is not required with respect to part corrective action.



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PAGE 1 OF 2

6. PROJECT NAME: Midland	7. NONCONFORMING PART NO: V7SH3 Duct No. 68A and 82A	8. NONCONFORMING PART NAME: 90° Elbows (duct)	1. NCR SERIAL NO: M-01-2-1-057
9. SERIAL NUMBER: N/A	10. ORG. COMMITTING NC: Zack	11. AREA/LOC. OF NC: Aux Bldg. AA Line Wall between 6.9 & 7.4 Elev. 659' 0"	2. DATE: 5/15/81
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: Duct standards and construction details 7220-M-151A (Q)- Rev 6, Page 12, Plate No. CI-S10, Section "E" calls for alternate longitudinal splice and splice is to be turned out. Zack SDDR 030380-1S is referenced. Contrary to the above, two 90° elbows have a transverse splice with the splice turned out. Zack SDDR 030380-1S does not reference a transverse splice. SDDR references only longitudinal splices for square to round fittings.			3. DATE OF REV: N/A
13. QA RECOMMENDATION FOR PART CA: 1) Engineering approval use as is/ or (LEDavis) 2) Scrap. (LEDavis) DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input checked="" type="checkbox"/> NOT REQUIRED <input type="checkbox"/>			4. FILE NO: 16.0.1 16.0.1
			5. DISTRIBUTION ACTION COPY: LEDavis INFO COPY: WRBird JARutgers JWCook DATaggart TCooke (2) GWandling MADietrich MPQAD-Route GLEichstaedt SKT/CAC JFPirlet RCash WDGreenwell BHPeck GSKeeley REMcCue/CFoll JBillywhite KAWells BWMarguglio DEMiller HPLEonard
14. HOLD TAGS APPLIED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: 2. Auxiliary Building AA Line Wall between 6.9 & 7.4 Elev. 659' 0" CRO tags.			
15. IS PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW:			
16. DOES NC AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>			
17. IS NC REPORTABLE PER 50.55(e): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
18. IS NC REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
19. IF YES, DATE & TIME OF REPORT TO NRC: N/A			
20. IF YES, WHO MADE REPORT TO NRC: N/A			
21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A			
22. NCR ORIGINATED BY: <i>David L. Anderson</i>		23. WRITTEN REPLY REQUIRED BY: 5/28/81 TO ESTABLISH CA COMPLETION DATE	
24. SUPERVISOR'S SIGNATURE/DATE: <i>ARK eating</i> 5-19-81			
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE: FCR 3036 revises the longitudinal or transverse splice, so it can be oriented to avoid flanges or stiffeners. Seams may be continuously butt welded for the length of the interference plus 1' and ground smooth.			
26. DESIGN/PROJECT SIG. AUTH. DISP.: N/A	27. PMO SIG. AUTH. DISP.: N/A	28. PROCUREMENT SIG. CONC. DISP.: N/A	29. SIG. OF ORG. RESP. FOR C/A: Bechtel Letter BCCC-6290, dated 2/19/82
30. FAB/CONST. SIG. AUTH. IMP. DISP.: N/A	31. SIG. OF TEST GROUP ACKNOW. CONDITION: N/A	32. FOR MAJOR MCD - FLT. SUPT. SIG. AUTH. DISP.: N/A	33. QA AUTH. SIG. TO IMPLEMENT DISP.: <i>EP Rly</i> 2/26/82
34. METHOD OF PART CA VERIFICATION: Reviewed FCR 3630 which was approved by Project Engineering on 7/7/81.			
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION: Bechtel Letter BCCC-5740R,		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE: <i>EP Rly</i> 2/26/82	
		37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE) <i>EP Rly</i> 2/26/82	

dated 8/3/81.



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NCR SERIAL NUMBER: M01-2-1-057

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38. QA ASSESSMENT OF ROOT CAUSE(S):

Unknown, to be determined.

See Bechtel Letter, BCCC-6290, dated February 19, 1982.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

Lack of detail on the design drawings C-844.

40. PROCESS CA REQUIRED FROM:

DESIGN

☐

FABRICATION

☐

CONSTRUCTION

☐

PROCUREMENT

☐

INSPECTION

☒

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

Unknown, to be determined.

See Bechtel Letter, BCCC-6290, dated February 19, 1982.

42. PROCESS CA TO BE TAKEN BY: (S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

FCR 3036, 7/7/81

43. METHOD OF PROCESS CA VERIFICATION:

Checked to see that FCR3036 was included on drawing C-844.

44. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

chtel Letter BCCC-6290, dated 2/19/82

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

SCB 2/26/82



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PRIORITY: 02 TREND: DNT S/U: PGMIOY A/I: S-1264

PAGE 1 OF 3

6. PROJECT NAME: MIDLAND 1 & 2	7. NONCONFORMING PART NO: N/A	8. NONCONFORMING PART NAME: N/A	1. NCR SERIAL NO: M-01-9-2-009
9. SERIAL NUMBER: N/A	10. ORG. COMMITTING NC: BECHTEL QUALITY CONTROL	11. AREA/LOC. OF NC: N/A	2. DATE: 2/5/82
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: PQCI P2.10 revisions 4, 5, & 10 state in part: "Verify the latest applicable design drawings, specifications, or vendor drawings listed under column 5 "Inspection criteria" on the QCI and "Reference Criteria" on the Inspection Record are being used. To the contrary, the following discrepancies were discovered. Hanger No 2-6-11-5-98 P2.10 log #70407; Redline LH-2098 was not recorded on reference criteria sheet. Hanger No 2-6-11-7-33 P2.10 log #136884; Redline LH-4672 was not recorded on reference criteria sheet. (CONTINUED)			3. DATE OF REV: N/A
13. QA RECOMMENDATION FOR PART CA: The recommended corrective action applies to all hangers listed on NCR. 1) Correct reference criteria of inspection record to reflect applicable design drawings or redlines. DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input type="checkbox"/> NOT REQUIRED <input checked="" type="checkbox"/>			4. FILE NO: 16.0
5. DISTRIBUTION ACTION COPY: ESmith INFO COPY: WRBird RAWells JWCook JLWood MADietrich ALAB-2 BWMarguglio MLCurland DBMiller JEBrunner REMcCue/ RDJohnson BHPeck REWhitaker JARutgers FSchulmeister DATaggart DMTurnbull			
14. HOLD TAGS APPLIED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: As per MPOAD procedure f.7M para 5.1.1.d			
15. IS PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW:			
16. DOES NC AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>			
17. IS NC REPORTABLE PER 50.55(*): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> --			
18. IS NC REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
19. IF YES, DATE & TIME OF REPORT TO NRC: N/A			
20. IF YES, WHO MADE REPORT TO NRC: N/A			
21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A			
22. NCR ORIGINATED BY: <i>[Signature]</i>		23. WRITTEN REPLY REQUIRED BY: 2/22/82 TO ESTABLISH CA COMPLETION DATE	
24. SUPERVISOR'S SIGNATURE/DATE: <i>[Signature]</i> 2/5/82			
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE: See attached Transmittal #23489 dated 3/2/82.			
*To-be-determined.			
26. DESIGN/PROJECT SIG. AUTH. DISP.: N/A	27. PMO SIG. AUTH. DISP.: N/A	28. PROCUREMENT SIG. CONC. DISP.: N/A	29. SIG. OF ORG. RESP. FOR C/A: Transmittal #23489
30. FAB/CONST. SIG. AUTH. IMP. DISP.: N/A	31. SIG. OF TEST GROUP ACKNOW. CONDITION: N/A	32. FOR MAJOR MOD - PLT. SUPT. SIG. AUTH. DISP.: N/A	33. QA AUTH. SIG. TO IMPLEMENT DISP.:
34. METHOD OF PART CA VERIFICATION: Review of Transmittal #23489 dated 3/2/82 and subject inspection record.			
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION: Transmittal #23489		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE: <i>[Signature]</i> 2/22/82	
		37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE) <i>[Signature]</i> 2/22/82	



Consumers
Power
Company

NONCONFORMANCE REPORT

PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

M01-9-2-001
NCR SERIAL NUMBER:

PAGE 2 OF 3

38. QA ASSESSMENT OF ROOT CAUSE(S):

Unknown: To be determined.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

Quality Control Inspector error, lack of understanding entries in inspection criteria sheet of inspection record.

40. PROCESS CA REQUIRED FROM:

DESIGN ☐

FABRICATION ☐

CONSTRUCTION ☐

PROCUREMENT ☐

INSPECTION ☒

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

Unknown: To be determined.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

See Blocks 25 and 43.

43. METHOD OF PROCESS CA VERIFICATION:

Content of Transmittal #23489 dated 3/2/82.

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

Transmittal #23489 dated 3/2/82

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

[Signature] 3.4.82

Hanger No 2-604-2-35 P2.10 log #59842; Redline LH-1279 was not recorded on reference criteria sheet.

Hanger No 1-616-6-28 P2.10 log #82252; Redline LH2097 not identified on IR criteria sheet.

Hanger No 2-604-3-18 P2.10 log #63304; Redline LH2029 was not included on reference criteria.



Nº 23489
PLEASE RECEIPT AND RETURN
BLUE COPY IMMEDIATELY

* ACTION

1. ☐ APPROVED MFG. MAY PROCEED
2. ☐ APPROVED
SUBMIT FINAL DWG. MFG. MAY
PROCEED
3. ☐ APPROVED EXCEPT AS NOTED, MAKE
CHANGES AND SUBMIT FINAL DWG.
MFG MAY PROCEED AS APPROVED
4. ☐ NOT APPROVED CORRECT AND RESUBMIT
5. ☐ REVIEW NOT REQUIRED
MFG. MAY PROCEED

6. ☐ FOR APPROVAL

7. ☐ CONSTRUCTION

8. ☐ PRELIMINARY USE

9. ☐ REFERENCE

10. ☒ ~~Complete response~~

CODE

- | | |
|---|----|
| <input type="checkbox"/> SECTEL DRAWINGS | B |
| <input type="checkbox"/> VENDOR DRAWINGS | V |
| <input type="checkbox"/> MATERIAL REQUISITION | MR |
| <input type="checkbox"/> SPECIFICATIONS | S |
| <input type="checkbox"/> BID REQUEST | BR |
| <input type="checkbox"/> QUOTATIONS | Q |
| <input type="checkbox"/> PURCHASE ORDER | PO |
| <input type="checkbox"/> CONFERENCE NOTES | CN |
| <input type="checkbox"/> BID SUMMARY | BS |
| <input type="checkbox"/> SUBCONTRACTS | SC |
| <input type="checkbox"/> _____ | X |
| <input type="checkbox"/> | Y |

[illegible]

COMMENTS: cc: W R Bird
B W Margulio

ACTION PRINT	FHS		
INFO PRINTS			
INFO ROUTINE	GMT		
PRINT TO FILE			
CRIG TO FILE	16.0		

D. M. Turnbull, MPQAD
Consumers Power Company

E. Smith, Quality Control
Bechtel Power Corp.

☐ VENDOR PRINT
☐ OTHER

8Y

ORIGINAL

QC AI 1504

QA AI S-1264

CPCo NCR-M-01-9-2-009

Review of the five hanger installations cited on the subject NCR has determined the following:

- (1) Four of the five cases cited identify redlines which were not applicable to the field inspections at the time of inspection.
- (2) One of the five cases (HGR 2-604-2-35 Redline LH-1279) did in part address a field condition relevant to the on going inspection (ie weld detail for item 1 to embed). Research shows that the installed condition was in accordance with the drawing and redline LH-1279.

Discussion with MPQAD has determined that no hardware problems were identified regarding the hanger installation cited on the subject NCR.

The inspection record for HGR 2-604-2-35, P-2.10 log# 59842 has been changed to reflect redline LH-1279 on the reference criteria sheet.

It is Bechtel Quality Control's position that applicable redlines used as inspection criteria be listed with the reference criteria on Inspection Records. This has been included in training for QC personnel. Due to the findings above and the fact that no hardware impact was found, no further action is planned.

T/N 23489



BECHTEL POWER CORP. TRANSMITTAL FORM

N^o 23488
PLEASE RECEIPT AND RETURN
BLUE COPY IMMEDIATELY

DATE March 2, 1982

* ACTION

SUBJECT

CODE

ACTION FOR VENDORS

1. ☐ APPROVED - MFG. MAY PROCEED
2. ☐ APPROVED
SUBMIT FINAL DWG. MFG. MAY
PROCEED
3. ☐ APPROVED EXCEPT AS NOTED. MAKE
CHANGES AND SUBMIT FINAL DWG.
MFG MAY PROCEED AS APPROVED
4. ☐ NOT APPROVED. CORRECT AND RESUBMIT
5. ☐ REVIEW NOT REQUIRED
MFG MAY PROCEED

ACTION FOR OTHERS

6. ☐ FOR APPROVAL
7. ☐ CONSTRUCTION
8. ☐ PRELIMINARY USE
9. ☐ REFERENCE
10. ☒ Partial response

- | | |
|---|----|
| <input type="checkbox"/> BECHTEL DRAWINGS | B |
| <input type="checkbox"/> VENDOR DRAWINGS | V |
| <input type="checkbox"/> MATERIAL REQUISITION | MR |
| <input type="checkbox"/> SPECIFICATIONS | S |
| <input type="checkbox"/> BID REQUEST | BR |
| <input type="checkbox"/> QUOTATIONS | Q |
| <input type="checkbox"/> PURCHASE ORDER | PO |
| <input type="checkbox"/> CONFERENCE NOTES | CN |
| <input type="checkbox"/> BID SUMMARY | BS |
| <input type="checkbox"/> SUBCONTRACTS | SC |
| <input type="checkbox"/> | X |
| <input type="checkbox"/> | Y |

ATTENTION VENDORS: ALL FINAL DRAWINGS SUBMITTED TO BECHTEL MUST BE CERTIFIED TRANSPARENCIES.

QTY	1 & PREFIX	BECHTEL FOREIGN PR. NO.	REV. NO.	TITLE	VENDOR NO.	ACTION	CODE
		BECHTEL DRAWING NO.					
				MPQAD NCR's M-01-9-2-014			
				M-01-9-2-007			
				M-01-9-3-009			
				QA AT's S-1267, S-1268, & S-1264			
				QC AT's 1514, 1527, & 1528			

RECEIVED
MAR 04 1982

FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

COMMENTS: cc: W B Bird
B W Marguglio

REPRODUCTION COPY FOR

ACT. ON PRINT	FHS
MPQD PRINTS	
MPQD ROUTING	DMT
PR. TO FILE	
ORIG. TO FILE	16.0

TO

D. M. Turnbull, MPQAD
Consumers Power Co.

FROM

E. Smith, Quality Control
Bechtel Power Corp.

- ☐ VENDOR PRINT
☐ OTHER

BY

[Signature]

QC AI's 1504, 1527, & 1528

MPQAD's NCR's M-01-9-2-014

M-01-9-2-007

M-01-9-2-009

QA AI's S-1261, S-1268, & S-1264

Per a discussion between QC's B. T. Foote & MPQAD's L. Howell
it was agreed upon to extend Quality Controls response due
dates of the above referenced action items to March 24th. 1982.

These extensions are necessitated due to dual responsibility
of response action by both engineering and Quality Control.

T/N 23488

CPCo

Open AFR's

PRIORITY: 5

SUB: DOCMHO

TREND: N3 N6

AI: S-1310



Consumers
Power
Company

QA50-2

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

AS IS" CONDITION VERSUS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCES:

FQCP-7, Rev. 5, paragraph 7.6.3.10 requires that the fabrication dimensional tolerance be entered in blank 21 of the traveler. Review of three (3) original travelers revealed that tolerances specified in technical specification M151A, paragraph 10.1.2 and 13.1 were not on the travelers. The seven (7) repair travelers reviewed did contain the required tolerance entries.

Note: QAK H-002 has been issued regarding clarification of M151A, paragraph 13.1. The answer is pending, and may impact this requirement and the need for noting tolerances on travelers.

AFR SER NO

M01-600-2-01

PROJ/DEPT AUDITED:

Midland/Zack Co.

DATE OF ORIGINAT ON

2/5/82

FILE NUMBER:

18.4.7

DISTRIBUTION:

RCash	MSkates
WRBird	ESmith
JEBrunner	DATaggart
DECalkins	RAWells
JWCook	ALAB-2
LEDavis	
MADietrich	
GSKeeley	
HPLeonard	
BWMarguglio	
RBMCarley	
DBMiller	
JARutgers	

RECOMMENDED CORRECTIV. ACTION:

1. Correct the three (3) travelers found to be in violation of the procedure.
2. Provide and document training for appropriate personnel on requirements for properly completing travelers.

CORRECTIVE ACTION COMMITMENT:

Zack has committed to respond to this item by 3/19/82.

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A:

The Zack Company

PERSON MAKING C/A COMMITMENT:

JTO'Connell

METHOD OF VERIFICATION:

IS AF REPORTABLE PER 50.55(*):

YES ☐NO ☒

IF "YES", DATE OF REPORT TO NRC:

IF "YES", TIME OF REPORT TO NRC:

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT:

AFR ORIGINATOR'S SIGNATURE:

SUPERVISOR'S SIGNATURE:

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:



Consumers
Power
Company
QA50-1

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

AS IS CONDITION VERSUS AS REQUIRED / AS NEEDED CONDITION WITH REFERENCES:

Bechtel Topical Report BW-TOP-1, Section 7 mandates compliance with ANSI N45.2. ANSI N45.2, Section 7 states in part that "Participating organizations shall have procedures for control of documents and changes thereto to preclude the possibility of use of outdated or inappropriate documents". Specification A-41, Revision 7, Section 8.6.1 mandates the use of "Bechtel's MQS Coating Engineering Procedure CEP-016" to qualify painters.

Contrary to the above, no controlled copies of this procedure could be found on site. The only copy found was an uncontrolled copy marked "for information only". This copy was of Revision 0. The current revision status of the procedure could not be established.

AFR SER NO:

M-01-304-1-01F

PROJ/DEPT AUDITED:

Bechtel OC/Construction

DATE OF ISSUANCE:

2/2/82

FILE NUMBER:

16.0

DISTRIBUTION:

WRBird	RAWells
JEBrunner	JLWood
MCButterfield	
JWCook	ALAB-2
MLCurland	
MADietrich	
GSKeeley	
BWMarguglio	
DBMiller	
JARutgers	
BPalmer	
ESmith	
DATaggart	
DMTurnbull	

RECOMMENDED CORRECTIVE ACTION:

- 1) Incorporate CEP-016 as an Attachment to Specification A-41.

CORRECTIVE ACTION COMMITMENT:

FCR A273 has been approved and issued. This FCR incorporated Bechtel's MQS Coating Engineering Procedure CEP-016, Revision 0, as an attachment to Specification A-41.

DATE OF C/A COMPLETION: 2/3/82

DATE OF C/A EFFECTIVENESS: 2/3/82

ORG. RESP FOR C/A:

Field Engineering

PERSON MAKING C/A COMMITMENT:

Paul Goguen

METHOD OF VERIFICATION:

Review of FCR A-273. This AFR is hereby closed.

IS AF REPORTABLE PER 50.35(a)?

YES ☐

NO ☒

IF "YES", DATE OF REPORT TO NRC:

N/A

IF "YES", TIME OF REPORT TO NRC:

N/A

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT:

N/A

N/A

AFR ORIGINATOR'S SIGNATURE/DATE:

Brian Palmer 2/12/82

SUPERVISOR'S SIGNATURE/DATE:

Donald E. Horn 2/12/82

C/A VERIFICATION SIGNATURE:

Brian Palmer

VERIFICATION DATE:

2/12/82



Consumers
Power
Company

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT

CONTINUATION SHEET:

"AS IS" CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED):

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

CORRECTIVE ACTION (CONTINUED):



Consumers
Power
Company

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

QA50-1 PRIORITY: 05 TREND: 0-3 (0-6) AI: S-1290 S/U: 2BBC

AS IS CONDITION VERSUS AS REQUIRED / AS NEEDED CONDITION WITH REFERENCES:

FIP 1.110 "Field Marking of Prints for Small Pipe" Rev 3 dated 1/20/81 states, in part, "Two copies (of markups) shall be transmitted to B&WCC Document Control..."

Contrary to the above, two markups (copies of)-2CCA-67-2 R/6 P-3978
2CCA-59-6 R/5 P-3848

Could not be found in B&WCC Document Control files.

AFR SER NO:

M-01-309-1-01

PROJ/DEPT AUDITED:

B&WCC

DATE OF ISSUANCE:

FILE NUMBER:

16.0

DISTRIBUTION:

WRBird RAWells
JEBrunner JLWood
JWCook MAVerderosa
LEDavis ALAB-2
MADietrich MLCurland
GSKeeley
WLee
SLove
BWMarguglio
DBMiller
JARutgers
ESmith
DATaggart
STaulbee

RECOMMENDED CORRECTIVE ACTION:

- 1) Obtain from Bechtel Document Control copies of Redlines noted.
- 2) Review B&WCC files to determine whether similar occurrences exist. Correct as necessary.

CORRECTIVE ACTION COMMITMENT:

- 1) February 12, 1982
- 2) March 1, 1982

DATE OF C/A COMPLETION: 1) 2/12/82

ORG. RESP FOR C/A:

B&WCC

PERSON MAKING C/A COMMITMENT:

W Lee

DATE OF C/A EFFECTIVENESS: 1) 2/12/82

METHOD OF VERIFICATION:

IS AF REPORTABLE PER 50.55(*):

YES ☐

NO ☐

IF "YES", DATE OF REPORT TO NRC:

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", TIME OF REPORT TO NRC:

IF "YES", WHO MADE REPORT:

AFR ORIGINATOR'S SIGNATURE/DATE:

MA Verderosa 2/19/82

SUPERVISOR'S SIGNATURE/DATE:

KE Whitaker 2/19/82
MA Verderosa 2/19/82

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:



Consumers
Power
Company

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT

CONTINUATION SHEET:

"AS IS" CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED):

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

CORRECTIVE ACTION (CONTINUED):



Consumers
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Company

QA30-1 PRIORITY: 05 TREND: 0-3 (0-6) AI: S-1290 S/U: 238C

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

AS IS CONDITION VERSUS AS REQUIRED / AS VERIFIED CONDITION WITH REFERENCES:

FIP 1.110 "Field Marking of Prints for Small Pipe" Rev 3 dated 1/20/81 states, in part, "Two copies (of markups) shall be transmitted to B&WCC Document Control..."

Contrary to the above, two markups (copies of)-2CCA-67-2 R/6 P-3978
2CCA-59-6 R/5 P-3848

Could not be found in B&WCC Document Control files.

AFR SER NO:

M-01-309-1-01

PROJ/DEPT AUDITED:

B&WCC

DATE OF ISSUANCE:

2/19/82

FILE NUMBER:

16.0

DISTRIBUTION:

WRBird	RAWells
JEBrunner	JLWood
JWCook	MAVerderosa
LEDavis	ALAB-2
MADietrich	MLCurland
GSKeeley	
WLee	
SLove	
BWMarguglio	
DBMiller	
JARutgers	
ESmith	
DATaggart	
STaulbee	

RECOMMENDED CORRECTIVE ACTION:

- 1) Obtain from Bechtel Document Control copies of Redlines noted.
- 2) Review B&WCC files to determine whether similar occurrences exist. Correct as necessary.

CORRECTIVE ACTION COMMITMENT:

- 1) February 12, 1982
- 2) March 1, 1982

DATE OF C/A COMPLETION: 1) 2/12/82

DATE OF C/A EFFECTIVENESS: 1) 2/12/82

ORG. RESP FOR C/A:

B&WCC

PERSON MAKING C/A COMMITMENT:

W Lee

METHOD OF VERIFICATION:

IS AF REPORTABLE PER 30.35(a)?

YES ☐

NO ☐

IF "YES", DATE OF REPORT TO NRC:

IF "YES", TIME OF REPORT TO NRC:

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT:

AFR ORIGINATOR'S SIGNATURE/DATE:

MA Verderosa 2/19/82

SUPERVISOR'S SIGNATURE/DATE:

MA Verderosa 2/19/82

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:



Consumers
Power
Company

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

QASO-1 PRIORITY: 05 TREND C-3 (C-3) AI: S-1291

S/U: Code - 93

AS IS CONDITION VERSUS AS REQUIRED AS VERIFIED CONDITION WITH REFERENCES:

FIP 1.110 "Field Marking of Prints for Small Pipe" Rev 3 dated 1/20/81 states, in part, "The approved changes shall be stamped" "Controlled by Field Engineering" inside the ballooned area on the Controlled Print issued to B&WCC."

FIP 1.112 "Field Marking of Prints for Material Supports" Rev 4 dated 10/31/80 Section IV-C states, in part, "The approved change shall be stamped "Controlled by Field Engineering" "Inside the ballooned area on the Controlled Print issued to B&WCC."

Contrary to the above none of the 18 sampled Field Markups had been stamped consistent with the identified procedures.

APR GEN NO:

M-01-309-1-02

PROJ/DEPT AUDITED:

Bechtel/B&WCC

DATE OF ISSUANCE:

2/19/82

FILE NUMBER:

16.0

DISTRIBUTION:

WRBird MLCurland
JEBrunner
JWCook
MADietrich
GSKeeley
BWMarguglio
DBMiller
JARutgers
ESmith
DATaggart
DMTurnbull
RAWells
JLWood
ALAB-2

RECOMMENDED CORRECTIVE ACTION:

- 1) Review all unincorporated Class I small piping and hanger redlines for consistency with FIP 1.110 requirements. Rework to existing requirements.
- 2) Re-instruct applicable personnel in FIP 1.110 requirements for stamping of redlines.

CORRECTIVE ACTION COMMITMENT:

- 1) 2/19/82
- 2) 2/19/82

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A:

Bechtel FE

PERSON MAKING C/A COMMITMENT:

L E Davis

METHOD OF VERIFICATION:

IS AF REPORTABLE PER SO.35(4)?

YES ☐

NO ☐

IF "YES", DATE OF REPORT TO NRC:

IF "YES", TIME OF REPORT TO NRC:

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT:

AFR ORIGINATOR'S SIGNATURE/DATE:

MA Verdosa 2/19/82

SUPERVISOR'S SIGNATURE/DATE:

MA Verdosa 2/19/82

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:



Consumers
Power
Company

QA50-1 PRIORITY: 05 TREND: C-3 (C-3) AI: S-1292

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

S/U: 094

AS IS CONDITION VERSUS AS REQUIRED / AS NEEDED CONDITION WITH REFERENCES:

FIP 1.110 "Field Marking of Prints for Small Pipe" Rev 3 dated 1/20/81 requires that "...The Lead Mechanical Field Engineer (or his designee) shall sign and date the work print..."

Contrary to the above, none of the 10 sampled Field Markups had been signed/dated by the Lead Mechanical Field Engineer (or his designee).

AFR SER NO:

M-01-309-1-03

PROJ/DEPT AUDITED:
Bechtel FE

DATE OF ISSUANCE:
2/19/82

FILE NUMBER: 16.0

DISTRIBUTION:

WRBird MLCurland
JEBrunner
JWCook
MADietrich
GSKeeley
BWMarguglio
DBMiller
JARutgers
ESmith
DATaggart
DMTurnbull
RAWells
JLWood
ALAB-2

RECOMMENDED CORRECTIVE ACTION:

- 1) Rework sample redlines to existing requirements.
- 2) Review all unincorporated redlines to determine similar violations - correct as required.

CORRECTIVE ACTION COMMITMENT:

- 1) 2/19/82
- 2) 3/12/82

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A:

Bechtel FE

PERSON MAKING C/A COMMITMENT:

L E Davis

METHOD OF VERIFICATION:

IS AF REPORTABLE PER 50.55(*):

YES ☐

NO ☐

IF "YES", DATE OF REPORT TO NRC:

IF "YES", TIME OF REPORT TO NRC:

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT:

AFR ORIGINATOR'S SIGNATURE/DATE:

MA Vandeworn 2/19/82

SUPERVISOR'S SIGNATURE/DATE:

RECA [Signature] 2/19/82

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:



Consumers
Power
Company

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

QA50-1 PRIORITY: 05 TREND: C-3 (C-3) A/I: S-1279 S/U: 2EGA

AS IS CONDITION VERSUS AS REQUIRED / AS VERIFIED CONDITION WITH REFERENCES:

FIP 1.112 Section IC, states, in part, "All copies transmitted to QC must contain the transmittal number in each balloon."

Contrary to the above, redline LH9703 for hanger 1-616-14-15 did not contain the redline submittal number in the applicable balloons.

NOTE: A total of 20 redlines were reviewed for this characteristic.

AFR ID NO:

M-01-309-1-04

PROJ/DEPT AUDITED:

Bechtel Construction

DATE OF ISSUANCE:

2/19/82

FILE NUMBER:

16.0

DISTRIBUTION:

WRBird JLWood

JEBrunner ALAB-2

JWCook

MLCurland

LEDavis

MADietrich

GSKeeley

BWMaruglio

DBMiller

JARutgers

ESmith

DATaggart

DMTurnbull

RAWells

RECOMMENDED CORRECTIVE ACTION:

- 1) Apply the appropriate transmittal number to ballooned areas of subject hanger sketch on original markups. Re-distribute per FIP 1.112.
- 2) Re-instruct personnel in FIP 1.112 requirements.

CORRECTIVE ACTION COMMITMENT:

- 1) 2/19/82
- 2) 2/19/82

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A:

Bechtel FE

PERSON MAKING C/A COMMITMENT:

L E Davis

METHOD OF VERIFICATION:

IS AF REPORTABLE PER 50.55(a)?

YES ☐ NO ☐

IF "YES", TIME OF REPORT TO NRC:

IF "YES", WHO MADE REPORT:

IF "YES", DATE OF REPORT TO NRC:

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

AFR ORIGINATOR'S SIGNATURE/DATE:

SUPERVISOR'S SIGNATURE/DATE:

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:



Consumers
Power
Company

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

QA50-1 PRIORITY: 05 TREND C-3 (C-3) AI: S-1291

S/U: Code - 93

AS IS CONDITION VERSUS AS REQUIRED / AS REQUIRED CONDITION WITH REFERENCES:

FIP 1.110 "Field Marking of Prints for Small Pipe" Rev 3 dated 1/20/81 states, in part, "The approved changes shall be stamped" "Controlled by Field Engineering" inside the ballooned area on the Controlled Print issued to B&WCC."

FIP 1.112 "Field Marking of Prints for Material Supports" Rev 4 dated 10/31/80 Section IV-C states, in part, "The approved change shall be stamped "Controlled by Field Engineering" "Inside the ballooned area on the Controlled Print issued to B&WCC."

Contrary to the above none of the 18 sampled Field Markups had been stamped consistent with the identified procedures.

AFR REF NO:

M-01-309-1-02

PROJ/DEPT AUDITED:

Bechtel/B&WCC

DATE OF ISSUANCE:

FILE NUMBER:

16.0

DISTRIBUTION:

WRBird MLCurland
JEBrunner
JWCook
MADietrich
GSKeeley
BWMarguglio
DBMiller
JARutgers
ESmith
DATaggart
DMTurnbull
RAWells
JLWood
ALAB-2

RECOMMENDED CORRECTIVE ACTION:

- 1) Review all unincorporated Class I small piping and hanger redlines for consistency with FIP 1.110 requirements. Rework to existing requirements.
- 2) Re-instruct applicable personnel in FIP 1.110 requirements for stamping of redlines.

CORRECTIVE ACTION COMMITMENT:

- 1) 2/19/82
- 2) 2/19/82

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A:

Bechtel FE

PERSON MAKING C/A COMMITMENT:

L E Davis

METHOD OF VERIFICATION:

IS AF REPORTABLE PER 50.55(*):

YES ☐ NO ☐

IF "YES", DATE OF REPORT TO NRC:

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", TIME OF REPORT TO NRC:

IF "YES", WHO MADE REPORT:

AFR ORIGINATOR'S SIGNATURE/DATE:

MAVenderosa 2/19/82

SUPERVISOR'S SIGNATURE/DATE:

MAVenderosa 2/19/82

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:



Consumers
Power
Company

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT

CONTINUATION SHEET:

"AS IS" CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED):

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

CORRECTIVE ACTION (CONTINUED):



Consumers
Power
Company

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

QA50-1 PRIORITY: 05 TREND: C-3 (C-3) AI: S-1292

S/U: 094

AS IS CONDITION VERSUS AS REQUIRED / AS NEEDED CONDITION WITH REFERENCES:

FIP 1.110 "Field Marking of Prints for Small Pipe" Rev 3 dated 1/20/81 requires that "...The Lead Mechanical Field Engineer (or his designee) shall sign and date the work print..."

Contrary to the above, none of the 10 sampled Field Markups had been signed/dated by the Lead Mechanical Field Engineer (or his designee).

AFR ID NO: M-01-309-1-03

PROJ/DEPT AUDITED:
Bechtel FE

DATE OF ISSUANCE:

FILE NUMBER: 16.0

DISTRIBUTION:
WRBird MLCurlan
JEBrunner
JWCook
MADietrich
GSKeeley
BWMarguglio
DBMiller
JARutgers
ESmith
DATaggart
DMTurnbull
RAWells
JLWood
ALAB-2

RECOMMENDED CORRECTIVE ACTION:

- 1) Rework sample redlines to existing requirements.
- 2) Review all unincorporated redlines to determine similar violations - correct as required.

CORRECTIVE ACTION COMMITMENT:

- 1) 2/19/82
- 2) 3/12/82

DATE OF C/A COMPLETION:

ORG. RESP FOR C/A:

Bechtel FE

PERSON MAKING C/A COMMITMENT:

L E Davis

DATE OF C/A EFFECTIVENESS:

METHOD OF VERIFICATION:

IS AF REPORTABLE PER 50.55(*):

YES ☐ NO ☐

IF "YES", DATE OF REPORT TO NRC:

IF "YES", TIME OF REPORT TO NRC:

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT:

AFR ORIGINATOR'S SIGNATURE/DATE:

MA Vanderborn 2/19/82

SUPERVISOR'S SIGNATURE/DATE:

MA Vanderborn 2/19/82

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:



Consumers
Power
Company

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT

CONTINUATION SHEET:

"AS IS" CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED):

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

CORRECTIVE ACTION (CONTINUED):



Consumers
Power
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AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

QA50-1 PRIORITY: 05 TREND: C-3 (C-3) A/I: S-1279 S/U: 2EGA

AS IS" CONDITION VERBIS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCES:

FIP 1.112 Section IC, states, in part, "All copies transmitted to QC must contain the transmittal number in each balloon."

Contrary to the above, redline LH9703 for hanger 1-616-14-15 did not contain the redline submittal number in the applicable balloons.

NOTE: A total of 20 redlines were reviewed for this characteristic.

APR. SER. NO.:

M-01-309-1-04

PROJ/DEPT AUDITED:

Bechtel Construction

DATE OF ISSUANCE:

FILE NUMBER:

16.0

DISTRIBUTION:

WRBird JLWoc
JEBrunner ALAB-2
JWCook
MLCurland
LEDavis
MADietrich
GSKeeley
BWMarguglio
DBMiller
JARutgers
ESmith
DATaggart
DMTurnbull
RAWells

RECOMMENDED CORRECTIVE ACTION:

- 1) Apply the appropriate transmittal number to ballooned areas of subject hanger sketch on original markups. Re-distribute per FIP 1.112.
- 2) Re-instruct personnel in FIP 1.112 requirements.

CORRECTIVE ACTION COMMITMENT:

- 1) 2/19/82
- 2) 2/19/82

DATE OF C/A COMPLETION:

ORG. RESP FOR C/A:

Bechtel FE

PERSON MAKING C/A COMMITMENT:

L E Davis

DATE OF C/A EFFECTIVENESS:

METHOD OF VERIFICATION:

IS AF REPORTABLE PER 50.55(*):

YES ☐

NO ☐

IF "YES", DATE OF REPORT TO NRC:

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", TIME OF REPORT TO NRC:

IF "YES", WHO MADE REPORT:

AFR ORIGINATOR'S SIGNATURE/DATE:

MAV for P. Schelmer

SUPERVISOR'S SIGNATURE/DATE:

L E Davis 2-19-82

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:



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Power
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AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT

CONTINUATION SHEET:

"AS IS" CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED):

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

CORRECTIVE ACTION (CONTINUED):



Consumers
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PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

QA50-1 PRIORITY: 05 TREND: C-3 (C-3) A/I: S-127013 S/U: 2EGA

AS IS CONDITION VERSUS AS REQUIRED / AS REQUIRED CONDITION WITH REFERENCES:

FIP 1.112 Section IC, states, in part, "All copies transmitted to QC must contain the transmittal number in each balloon."

Contrary to the above, redline LH9703 for hanger 1-616-14-15 did not contain the redline submittal number in the applicable balloons.

NOTE: A total of 20 redlines were reviewed for this characteristic.

AFR SER NO:

M-01-309-1-04

PROJ/DEPT AUDITED:

Bechtel Construction

DATE OF ISSUANCE:

2/19/82

FILE NUMBER:

16.0

DISTRIBUTION:

WRBird	JLWood
JEBrunner	ALAB-2
JWCook	REWhitaker
MLCurland	
LEDavis	
MADietrich	
OSKeeley	
BWMarguglio	
DBMiller	
JARutgers	
ESmith	
DATaggart	
DNTurnbull	
RAWells	

RECOMMENDED CORRECTIVE ACTION:

- 1) Apply the appropriate transmittal number to ballooned areas of subject hanger sketch on original markups. Re-distribute per FIP 1.112.
- 2) Re-instruct personnel in FIP 1.112 requirements.

CORRECTIVE ACTION COMMITMENT:

- 1) 2/19/82
- 2) 2/19/82

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A:

Bechtel FE

PERSON MAKING C/A COMMITMENT:

L E Davis

METHOD OF VERIFICATION:

IS AF REPORTABLE PER 50.55(*):

YES ☐

NO ☐

IF "YES", DATE OF REPORT TO NRC:

IF "YES", TIME OF REPORT TO NRC:

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT:

AFR ORIGINATOR'S SIGNATURE/DATE:

MAR for P. Schelwester

SUPERVISOR'S SIGNATURE/DATE:

LE Davis 2-19-82

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:



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QA50-1 PRIORITY: 05 S/U: PGMSM A/I: S-1277

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

Trend: C-3/(C-3)

AS IS CONDITION VERSUS AS REQUIRED / AS NEEDED CONDITION WITH REFERENCES:

"Q" stock hanger material and "Q" piping stored at the East Outside Storage Area and Radwaste Outside Storage Area, are in some cases in contact with the ground. This does not conform to Level "D" storage requirements.

ANSI N45.2.2-1972, Section 6.1.2,(4) states:

"Level "D" items may be stored outdoors in an area marked and designated for storage, which is well drained, preferably gravel covered or paved and reasonably removed from the actual construction area and traffic so that possibility of damage from construction equipment is minimized. Items shall be stored on cribbing or equivalent to allow for air circulation and to avoid trapping water."

APR NO:

M-01-311-2-01

PROJ/DEPT AUDITED:

Bechtel Construction

DATE OF ISSUANCE:

2/9/82

FILE NUMBER:

16.0

DISTRIBUTION:

WRBird	GRAnderson
JEBrunner	ALAB-2
JWCook	LEDavis
MADietrich	REWhitaker
GSKeeley	MLCurland
BWMarguglio	
DBMiller	
JARutgers	
ESmith	
DATaggart	
DMTurnbull	
RAWells	
JLWood	
THYoung	

RECOMMENDED CORRECTIVE ACTION:

- 1) Quality Control and Construction shall make weekly inspection tours of outside storage areas.

CORRECTIVE ACTION COMMITMENT:

Quality Control and Construction shall respond in writing by March 1, 1982.

DATE OF C/A COMPLETION:

REQ. RESP FOR C/A:

PERSON MAKING C/A COMMITMENT:

DATE OF C/A EFFECTIVENESS:

METHOD OF VERIFICATION:

IS REPORTABLE PER 10.35(6)?

YES ☐

NO ☒

IF "YES", DATE OF REPORT TO REC:

N/A

IF "YES", TIME OF REPORT TO REC:

N/A

IF "YES", NAME OF REC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT:

N/A

N/A

APR ORIGINATOR'S SIGNATURE/DATE:

Bregg R. Anderson Feb. 10, 1982

SUPERVISOR'S SIGNATURE/DATE:

AL Dawell 2-10-82

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:



Consumers
Power
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AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT

CONTINUATION SHEET:

"AS IS" CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED):

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

CORRECTIVE ACTION (CONTINUED):



Consumers
Power
Company
QA50-1

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

PRIORITY: 05

S/U: PGMSM

AI: S-1278

TREND: C-3/(C-3)

AS IS CONDITION VERSUS AS REPRESENTED / AS NEEDED CONDITION WITH REFERENCES:

The new spent fuel storage modules stored at location C42 in the Poseyville Laydown Area have the tarpaulins and visqueen open which has exposed one full bottomside of one module. Two other modules are semi-exposed on the corners.

ANSI N45.2.2-1972, Section 6.3.5 "Coverings" states:

"Weatherproof covering, when used for outdoor storage, shall be flame-resistant type of sheeting or tarpaulins, they shall be placed so as to provide drainage and to insure air circulation to minimize condensation. They shall be tied down to prevent moisture from entering laps and to protect the coverings from wind damage.

APP. SEE NO:

M-01-311-2-02

PROJ/DEPT AUDITED:

Bechtel Construction

DATE OF ISSUANCE:

2/9/82

FILE NUMBER:

15.0

DISTRIBUTION:

GRAnderson	THYoung
WRBird	ALAB-2
JEBrunner	LEDavis
JWCook	MLCurland
MADietrich	REWhitaker
GSKeeley	
BWMarguglio	
DBMiller	
JARutgers	
ESmith	
DATaggart	
DMTurnbull	
RAWells	
JLWood	

RECOMMENDED CORRECTIVE ACTION:

- 1) Quality Control and Construction shall make weekly inspection tours of outside storage areas.

CORRECTIVE ACTION COMMITMENT:

Quality Control and Construction shall respond in writing by March 1, 1982.

DATE OF C/A COMPLETION:

ORG. RESP FOR C/A:

PERSON MAKING C/A COMMITMENT:

DATE OF C/A EFFECTIVENESS:

METHOD OF VERIFICATION:

IS AF REPORTABLE PER 50.55(a)?

YES ☐ NO ☒

IF "YES", DATE OF REPORT TO REC:

N/A

IF "YES", TIME OF REPORT TO REC:

N/A

IF "YES", NAME OF REC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT:

N/A

N/A

AFR ORIGINATOR'S SIGNATURE/DATE:

Murray R. Anderson Feb. 10/1982

SUPERVISOR'S SIGNATURE/DATE:

R. G. Galloway 2-10-82

QA REVIEWER'S SIGNATURE:

VERIFICATION DATE:



Consumers
Power
Company

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT

CONTINUATION SHEET:

AS IS CONDITION VERSUS AS REQUIRED CONDITION WITH REFERENCES (CONTINUED):

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

CORRECTIVE ACTION (CONTINUED):



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QA30-1

PRIORITY: 05

S/U: PGMSM

AI: S-1279

Trend: C-3/(C-3)

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

AS IS CONDITION VERSUS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCES:

"AS IS" Poseyville Laydown locations:

- 1) G15N Class 1 pipe spool open 2CCA45 603-3-2
- 2) F17N, F18N, F19N at both ends some of each of 'these' pipe lengths are uncapped.

"AS REQUIRED" ANSI N45.2.2-1972 para 6.4.2(1) states:

Items in storage shall have all covers, caps, plugs or other closures intact.

F-1-20 Item 1.0 states:

"All pipe ends and openings shall be capped and/or sealed. Note 1 states closures removed for any reason shall be immediately replaced and resealed after completion of the reason for removal."

ITEM 2.2 states:

"When visual inspection indicates an accumulation of dirt or foreign substances on pipe surface subject pipe will be cleaned and reinspected."

(CONTINUED)

AFS SER NO:

M-01-311-2-03

PROJ/DEPT AUDITED:

Bechtel Construction

DATE OF ISSUANCE:

2/8/82

FILE NUMBER:

16.0

DISTRIBUTION:

GRAnderson	THYoung
WRBird	ALAB-2
JEBrunner	LEDavis
JWCook	MLCurland
MADietrich	REWhitake
GSKeeley	
BWMarguglio	
DBMiller	
JARutgers	
ESmith	
DATaggart	
DMTurnbull	
RAWells	
JLWood	

RECOMMENDED CORRECTIVE ACTION:

Inspect internally for cleanliness, remove snow, dirt, and any other foreign substances, inspect for deterioration, correct/document deficiencies, recap/retape.

CORRECTIVE ACTION COMMITMENT:

Quality Control and Construction shall respond in writing by March 1, 1982.

DATE OF C/A COMPLETION:

ORG. RESP FOR C/A:

PERSON MAKING C/A COMMITMENT:

DATE OF C/A EFFECTIVENESS:

METHOD OF VERIFICATION:

IS AF REPORTABLE PER 50.55(a)?

YES ☐ NO ☒

IF "YES", DATE OF REPORT TO AEC:

N/A

IF "YES", TIME OF REPORT TO AEC:

N/A

IF "YES", NAME OF AEC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT:

N/A

N/A

AFR ORIGINATOR'S SIGNATURE/DATE:

SUPERVISOR'S SIGNATURE/DATE:

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:



Consumers
Power
Company

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT

CONTINUATION SHEET:

AS IS" CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED):

"AS NEEDED" Procedure FPG-4.000 needs to specifically address the capping of pipe in storage outside - Level D.

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

CORRECTIVE ACTION (CONTINUED):



Consumers
Power
Company

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

QA50-1 PRIORITY: 05 S/U: PGMPY AI: S-1280 TREND: C-3/(C-3)

AS IS CONDITION VERSUS AS REQUIRED / AS REQUIRED CONDITION WITH REFERENCES:

Purchase Order F-46569, (dated 5/7/80) is for the duct tape which is used for sealing pipe and valve openings. The Purchase Order imposed a requirement on the vendor (Borden Chem) which required an analysis of the halogen and sulfur content of the tape, and submit the analysis with the shipment as evidence. To date the auditors have been unable to locate such documentation.

ANSI N45.2.2-1972, Section A3.5.2 states:

Tapes and adhesives shall conform to the following criteria:

- 1) When contacting austenitic stainless steel and nickel alloy surfaces:
 - a) The halogen and sulfur contents of tape should not be in excess of 0.10% by weight each. Paperbacked (masking) tape shall not be used.

APP. SER. NO:

M-01-311-2-04

PROJ/DEPT AUDITED:

Bechtel Construction

DATE OF ISSUANCE:

2/8/82

FILE NUMBER:

16.0

DISTRIBUTION:

WRBird	GRAnderson
JEBrunner	ALAB-2
JWCook	LEDavis
MADietrich	MLCurland
GSKeeley	REWhitaker
BWMarguglio	
DBMiller	
JARutgers	
ESmith	
DATaggart	
DMTurnbull	
RAWells	
JLWood	
THYoung	

RECOMMENDED CORRECTIVE ACTION:

- 1) Obtain the correct material certifications, as stated on the purchase order.

CORRECTIVE ACTION COMMITMENT:

Construction shall respond in writing by March 1, 1982.

DATE OF C/A COMPLETION:

ORG. RESP FOR C/A:

PERSON MAKING C/A COMMITMENT:

DATE OF C/A EFFECTIVENESS:

METHOD OF VERIFICATION:

IS AF REPORTABLE PER 50.55(*):

YES ☐

NO ☒

IF "YES", DATE OF REPORT TO NRC:

N/A

IF "YES", TIME OF REPORT TO NRC:

N/A

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT:

N/A

N/A

AFR ORIGINATOR'S SIGNATURE/DATE:

Gregg R. Anderson Feb. 10, 1982

SUPERVISOR'S SIGNATURE/DATE:

H. Brunell 2-10-82

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:



Consumers
Power
Company

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT

CONFIRMATION SHEET:

AS IS CONDITION VERSUS AS REQUIRED CONDITION WITH REFERENCES (CONTINUED):

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

CORRECTIVE ACTION (CONTINUED):



Consolidated
Power
Company

QA50-1 Priority: 01

SUS: PGMPV

Trend: K-2, K-3

AI: S-1281

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

Page 1 of 2

AS IS CONDITION VERSUS AS REQUIRED / AS NEEDED CONDITION WITH REFERENCES:

The completed receipt inspection (R.100) package for F50320 AEO-45078 was examined and the following items were found:

- 1) Parts 3.7 and 4.1 were signed off to verify that heat numbers were correct for traceability, however, the G321D shows one heat number as F-9 27 (there is white out between the 9 and the 2) and the CMTR shows F91027. The requirement for Block 20 of the G321D is to "Enter identification number(s) traceable to the unit(s) being released, eg.,...heat number of major component. The requirement of Block 24 of the G231D is for QCE receiving to see that "This form and the Quality Verification Documents referenced hereon have been received and their relationship to the hardware items verified."
- 2) The CMTR from Flowline states that the items meets ASME III 1980 to S80 addenda, however, their NDE subcontractor's (Industrial Testing Laboratory Services Corp - ITLS) UT reports read 1977 to S78 addenda which has less stringent UT requirements (for equipment calibration). The following requirements of ASME III 1980 to S80 for SA652 are not a part of ASME III 1977 to S78 for SA652.

(CONTINUED)

AFR SER NO:

M-01-311-2-5

PROJ/DEPT AUDITED:

Bechtel Constr

DATE OF ISSUANCE:

2/10/82

FILE NUMBER:

16.0

DISTRIBUTION:

RMCollins

LHCurtis

ESmith

WRBird

RAWells

JEBrunner

JLWood

JWCook

THYoung

MADietrich

ALAB(2)

GSKeeley

BWMarguglio

DBMiller

JARutgers

DATaggart

DMTurnbull

RECOMMENDED CORRECTIVE ACTION:

- 1) Provide evidence that the Flowline CMTR with Heat #F9.027 goes with the G321D and the R1.00 in question in order to correct the G321D. (ESmith)
- 2) Evaluate FC-UTW-1 as used by ITLS against ASME III 1980 to S80 requirements for SA652. (LHCurtis)
- 3) Bechtel Project Engineering to assess impact of improper code delineation on procured/ installed hardware. (LHCurtis, RMCollins)

CORRECTIVE ACTION COMMITMENT:

DATE OF C/A COMPLETION:

ORG. RESP FOR C/A:

PERSON MAKING C/A COMMITMENT:

DATE OF C/A EFFECTIVENESS:

METHOD OF VERIFICATION:

IS AF REPORTABLE PER 50.55(4)?

YES ☐

NO ☐

to be determined

IF "YES", DATE OF REPORT TO NRC:

IF "YES", TIME OF REPORT TO NRC:

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT:

AFR ORIGINATOR'S SIGNATURE/DATE:

SUPERVISOR'S SIGNATURE/DATE:

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:



Consumers
Power
Company

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION

QUALITY ASSURANCE DEPARTMENT

Page 2 of 2

M-01-311-2-5

CONTINUATION SHEET:

AS IS" CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED):

17.3 Checking and Calibration of Equipment - The proper functioning of the examination equipment shall be checked and the equipment shall be calibrated by the use of the reference specimens, as a minimum:

17.3.1 At the beginning of each production run of a given size and thickness of a given material,

17.3.2 After each 4 h or less during the production run,

17.3.3 At the end of the production run,

17.3.4 At any time that malfunctioning is suspected. If during any check it is determined that the testing equipment is not functioning properly, all of the product that has been tested since the last valid equipment calibration shall be reexamined.

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

CORRECTIVE ACTION (CONTINUED):

CPCo

Closed AFR's



Consumers
Power
Company

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

Page 1 of 3

"AS IS" CONDITION VERSUS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCES:

1. The following nonconformances were found against the implementation of WPS-7, Rev. 7 (217 welder qualification/certification forms were reviewed).

- a) Contrary to Sections 6.1 and 7.1 of WPS-7, Rev. 7, the qualification statements on the welder's qualification/certification form for WPS-2 were found to be inconsistent with the test results. See Attachment #1.
- b) Contrary to Sections 6.2 and 6.3 of WPS-7, Rev. 7, the specifications listed in Attachment #2 were found to be missing or incorrect on the welder qualification/certification forms for WPS-2. See Attachment #2.
- c) Contrary to Section 6.1 of WPS-7, Rev. 7, one welder qualification/certification form for WPS-2 was found to be used to test, qualify and certify a welder for WPS-1, Flare-V (cont.)

AFR SER NO:
M01-600-1-01

PROJ/DEPT AUDITED:
Zack Co/Site

DATE OF ORIGINATION:
11-25-81

FILE NUMBER:
18.4.7

DISTRIBUTION:
RCash DCalkins
WRBird RGreune
JWCook RBMcCarle
GSKeeley LEDavis
HPLeonard MADietrich
BWMarguglio
DBMiller
JARutgers JEBrunner
ESmith ESmith
DATaggart
[REDACTED]

RECOMMENDED CORRECTIVE ACTION:

1. Review all welder qualification/certification forms for:
 - a) Qualification statements inconsistent with the test results listed on that form.
- (continued on page 2)

CORRECTIVE ACTION COMMITMENT:

A response to this item is requested by 1/4/82.

DATE OF C/A COMPLETION:

ORG. RESP FOR C/A:

PERSON MAKING C/A COMMITMENT:

DATE OF C/A EFFECTIVENESS:

Zack Company

J. O'Connell

METHOD OF VERIFICATION:

- 1) Verified that all welder qualification/certification forms have been reviewed.
- 2) Verified that certification and qualification statements, missing or incorrect specifications, weld procedure specification number, missing Zack Co. Project (continued on page 2)

IS AF REPORTABLE PER 50.55(*): YES ☐ NO ☒

IF "YES", DATE OF REPORT TO NRC:

N/A

IF "YES", TIME OF REPORT TO NRC: N/A

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT: N/A

N/A

AFR ORIGINATOR'S SIGNATURE:

SUPERVISOR'S SIGNATURE:

Ernest H. Gould 12-15-81 *lt*

[Signature] 12/16/81

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:

Ernest H. Gould / S. Banda

2-25-82



Consumers
Power
Company

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT

CONTINUATION SHEET:

Page 2 of 3

"AS IS" CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED):

Groove Weld, Sheet-to-Sheet.

- d) Contrary to Sections 6.1 and 7.1 of WPS-7, Rev. 7, the certification form (for WPS-2, Flare-V Groove Weld with E6011) was found to have two different dates.
- e) Contrary to Section 6.3 of WPS-7, Rev. 7, changes to two welder qualification/certification forms were found to be initialled and dated by someone other than the Zack Company Project Manager.

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

- b) Specification missing or incorrect.
- c) Correct forms used for the WPS to which the welder is tested, qualified and certified.
- d) Properly completed certification statements.
- e) The Zack Company Project Manager's initials and date (verifying revisions to the specifics of welder qualification are technically correct) are missing.

(continued on page 3)

DISPOSITION OF ACTION (CONTINUED):

METHOD OF VERIFICATION: (continued from page 1)

Manager's initials and date have been corrected on all welder qualification/certification forms except:

- a) those inactive welder qualification/certification forms missing the qualification statement, the Zack Co. Project Manager's signature and date.
 - (i) It has been verified that all information necessary to determine the welder's actual qualifications is present on the form.
- 3. a) Verified that the Zack Co. letter to S Bandia, dated December 29, 1981 states that all 18 ga material ordered by Zack Co. is ASTM A527.
- b) Verified that E-6011 and E7018 weld rod is filler metal specification A5.1.
- 4. Verified that Zack Co. has instructed individuals to remove and destroy all unused welder qualification/certification forms on 1/13/82.
- 5. Verified that cognizant personnel have been trained on the proper completion of the welder qualification/certification form.

AFR ORIGINATOR'S SIGNATURE

Ernest H. Gault 12-15-81

SUPERVISOR'S SIGNATURE

12/16/81

RECOMMENDED CORRECTIVE ACTION (CONTINUED FROM PAGE 2)

2. In accordance with WPS-7, Rev. 7 provide corrections to the deficient welder qualification/certification forms identified in corrective action 1a, b, c, d and e above.
3.
 - a) Provide documentation identifying correct sheet steel and filler metal specifications for welder's qualification/certification forms found in corrective action 1b above, and correct those welder's qualification/certification forms per WPS-7, latest revision.
 - b) Or requalify welder(s), if applicable.
 - c) Identify and evaluate all applicable work that individual(s) welded, if unable to requalify.
4. Review unused welder qualification/certification forms on hand for accuracy of pre-printed information. Remove and destroy all unused forms containing inaccurate information.
5. Provide training to cognizant personnel for recording data per WPS-7, latest revision.

Type of joint per WPS-7	# reviewed	# qualification statements found incorrect	position/progression in qualification statement not found in test results
Test 7.2G Structural- to-Structural Groove Weld	61	27	Vertical - position Down - progression

This problem is limited to the individual's welder qualification/certification form. None of the above 27 welders are listed as qualified to the Structural-to-Structural, Groove Weld in the Vertical-position with progression-down in the Welder Qualification Report (used by production and QC as the welder qualification document) published by MPQAD - HVAC Section.

Test 7.2D Sheet-to-Sheet T-Joint, Fillet Weld	73	7	Vertical - position Down - progression
"	73	5	Vertical - position Up - progression
"	73	1	Overhead - position

This problem is also limited to the individual's welder qualification/certification form. In each of the above instances the welder has qualified to the Vertical-position; Up and Down progressions and Overhead-position on separate tests, as noted on separate welder qualification/certification forms.

Test 7.2C Sheet-to-Sheet T-Joint, Fillet Weld	1	1	Vertical - position Down - progression
--	---	---	---

This problem is limited to individual's welder qualification/certification form. The welder qualification report does not list this qualification for the welder.

Type of joint per WPS-7	# reviewed	# qualification statements found incorrect	position/progression in qualification statement not found in test results
Test 7.2F			
Sheet-to-Sheet	34	9	Vertical - position
Flare-V, Groove			Down - progression
Weld			
"	34	5	Vertical - position
			Up - progression

This problem is limited to the individual's welder qualification/certification form for 13 of the above 14 instances. In 13 instances the welder has qualified to the Vertical-position with (Up and Down) progressions on separate tests, as noted on separate welder qualification/certification forms. In one instance, no test results were found to indicate the welder qualified to the Vertical-position, Down-progression. The Welder Qualification Report (used by production and QC as the document signifying welder qualification) incorrectly lists this welder as being qualified to this weld in the Vertical-position with Down-progression.

Test 7.2A			
Sheet-to-Sheet	23	13	All positions not
Square Groove-			qualified for 22 GA.
Butt Joint			or (20 and 22 GA.)
"	23	1	Vertical - position
			Down - progression
			for 16 GA.

This problem is limited to the individual's welder qualification/certification form. In the first 13 instances the welder's qualifications, as indicated by the test results are accurately reflected in the Welder Qualification Report. In the last instance the welder was qualified to the Vertical-position with Down-progression in separate test results on a separate welder qualification/certification form.

*AFR: M01-600-1-01
DATE: 11-25-81
FILE: 18.4.7
ATTACHMENT #2
Page 1 of 1

<u>Type of joint</u>	<u># reviewed</u>	<u># missing/incorrect</u>	<u>descriptions</u>
7.2D Sheet-to-Sheet T-joint, Fillet Weld	73	20	Sheet steel speci- fication was found to be missing.
Sheet-to-Sheet T-joint, Fillet Weld	73	23	Filler Metal Speci- fication was listed as A5.3/4. (not A5.1 per WPS-2).
Sheet-to-Sheet T-joint, Fillet Weld	73	17	Filler Metal Speci- fication was listed as A5.0 (not A5.1 per WPS-2).

TREND: N3 N5

Consumers
Power
Company

Q450-0

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

AS IS" CONDITION VERSUS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCES:

FQCP-3, Rev. 2, paragraph 7.22 requires the Fabrication Shop Foreman to remove rejected items to a segregated hold area. Contrary to this, duct piece 7A, V3 sheet 1, Traveler F17011 was observed in the fabrication area of the Fabrication Shop on 2/3/82 with NCR Tag 03875 (NCR C840, dated 1/14/82) attached.

AFR SER NO

M01-600-2-02

PROJ/DEPT AUDITED:

Midland/Zack Co.

DATE OF ORIGINAT ON:

2/5/82

FILE NUMBER:

18.4.7

DISTRIBUTION:

KCAsh	MSkates
WRBird	ESmith
JEBrunner	DATaggart
DECalkins	RAWells
JWCook	ALAB-2
LEDavis	
MADietrich	
GSKeeley	
HPLeonard	
BWMarguglio	
RBMCarley	
DBMiller	
JARutgers	

RECOMMENDED CORRECTIVE ACTION:

Remove rejected item from the fabrication area into a segregated hold area.

CORRECTIVE ACTION COMMITMENT:

Remove rejected item from the fabrication area into a segregated hold area.

DATE OF C/A COMPLETION: 2/5/82

ORG. RESP FOR C/A:

The Zack Company

PERSON MAKING C/A COMMITMENT:

JTO'Connell

DATE OF C/A EFFECTIVENESS: 2/5/82

METHOD OF VERIFICATION:

Visual verification of corrective action completion.

IS AF REPORTABLE PER 50.55(e):

YES ☐NO ☒

IF "YES", DATE OF REPORT TO NRC:

IF "YES", TIME OF REPORT TO NRC:

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT:

AFR ORIGINATOR'S SIGNATURE:

SUPERVISOR'S SIGNATURE:

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:

2/5/82


Consumers
Power
Company

AUDIT FINDING REPORT

Trend Code B2 and I2

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

AI S-628

AS IS CONDITION VERSUS AS REQUIRED / AS NEEDED CONDITION WITH REFERENCES:

Per E-42A Sh 2, Note 6 (QCI E-1.0 Sect 3.1) welding on conduit supports and uncovered metal shall be painted with zinc-rich paint as protection against corrosion.

Contrary to the above, welding on supports for conduits were not painted with zinc-rich paint.

Deficiency noted with conduits 1DG007a, 1DG008a, 1DG009a, 2BLA002 and 1BLB003.

APR 02 1981

M-01-02-1-05

PROJ/DEPT ASSIGNED:

BPCo QC & Construction

DATE OF ORIGINATION:

January 27, 1981

FILE NUMBER:

18.4.3.4 & 18.4.3.6

DISTRIBUTION:

WRBird SKT/KJK

JWCook JEBrunner

TCGooke MLOrland

LHCurtis ESmith

MADietrich RAWells

BRKeating ALAB-2

GSKeeley

BWMarguglio

REMcGue

DBMiller

JARutgers

DATaggart

DMTurnbull

JLWood

RECOMMENDED CORRECTIVE ACTION:

All closed Inspection Records be reopened for conduits noted above. This deficiency was noted in five out of five Inspection Records that were reviewed for conduits in Containment. Therefore, recommend that all closed Inspection Records for conduit in Containment be reinspected for this attribute.

CORRECTIVE ACTION COMMITMENT:

Bechtel QC will investigate above finding and return complete response/action by February 12, 1981.

DATE OF C/A COMPLETION: 3/30/81

DATE OF C/A EFFECTIVENESS: N/A

ORG. RESP FOR C/A:

Quality Control

PERSON MAKING C/A COMMITMENT:

N Ainsworth

METHOD OF VERIFICATION:

Preserving of supports for conduits ^{in containment} will be inspected per PQCI 7220/C-8.50, Rev 10. Verified by review of PQCI 7220/E-1.0, Rev 11, PQCI 7220/C-8.50, Rev 10, and Drawing E-42(Q. Sheet 2, Rev 16.

IS REPORTABLE PER 50.55(a)(1):

YES ☐ NO ☒

IF YES, DATE OF REPORT TO NRC:

N/A

IF YES, TIME OF REPORT TO NRC:

N/A

IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED:

N/A

IF YES, WHO MADE REPORT:

N/A

APR ORIGINATOR'S SIGNATURE:

Larry D. Seaman

SUPERVISOR'S SIGNATURE:

M. J. Schaeffer for HPL

C/A VERIFICATION SIGNATURE:

Donald E. Matt

VERIFICATION DATE:

3/11/82



Consumers
Power
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QASG-9

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

Priority: 7 Trend: C3, B3, (C2, B2) SUS: DCUMEO AI: S-1000

AS IS CONDITION VERSUS AS REQUIRED / "AS NEEDED" CONDITION WITH REFERENCES:

Paragraph 2 of the following F-1 forms provides for interval between maintenance/inspection activities indicated.

Contrary to the Interval requirements, the listed F-2 maintenance/inspection records exceeded the requirements as indicated:

<u>F-1</u> (90 day interval)	<u>F-2</u>	<u>Exceeded Requirements</u>
F-1-611	F-2-17069	4 days
F-1-375	F-2-15593	9 weeks
F-1-629	F-2-15591	11 weeks

<u>F-1</u> (30 day interval)	<u>F-2</u>	<u>Exceeded Requirements</u>
F-1-390	F-2-15611	32 days
F-1-390	F-2-16515	1 day
F-1-325	F-2-16919	58 days

APR 372 NO.
M01-40-1-5

PROJ/DEPT AUDITED:

Bechtel Const/OC

DATE OF ORIGINATION:

9/9/81

FILE NUMBER:

18.4.3.4 & 18.4.3.6

DISTRIBUTION:

WRBird MPQAD Routing

ARRBurns ALAB-2

WJ/KFH

JWCook

LEDavis JEBrunner

MADietrich MLCurland

GSKeeley ALAB-2

BWMarguglio

DBMiller

JARutgers

ESmith

DATaggart

JLWood

RAWells

RECOMMENDED CORRECTIVE ACTION:

It is recommended that both Quality Control and Field Engineering establish a better tracking system than the logs presently used to be certain inspections are conducted within the established intervals on the F-1 or F-10 forms. (LEDavis and ESmith)

CORRECTIVE ACTION COMMITMENT:

10-9-81

See attached Transmittal #23465, dated 12/28/81 for complete response.

DATE OF C/A COMPLETION:

ORG. RESP FOR C/A:

PERSON MAKING C/A COMMITMENT:

DATE OF C/A EFFECTIVENESS:

Quality Control

S D Kirker

END OF VERIFICATION:

Review of attached mapper computer system printout to be issued weekly to the responsible procurement inspectors.

IS AF REPORTABLE PER 50.55(*):

YES ☐ NO ☒

IF "YES", DATE OF REPORT TO NRC:

N/A

IF "YES", TIME OF REPORT TO NRC:

N/A

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT:

N/A

N/A

AFR ORIGINATOR'S SIGNATURE:

SUPERVISOR'S SIGNATURE:

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:

2/26/82

N^o 23465
PLEASE RECEIPT AND RETURN
BLUE COPY IMMEDIATELY

DATE 12/28/81

BECHTEL POWER CORP.
TRANSMITTAL FORM

- ACTION

ACTION FOR VENDORS

1. ☐ APPROVED - MFG. MAY PROCEED
2. ☐ APPROVED
SUBMIT FINAL DWG. MFG. MAY
PROCEED
3. ☐ APPROVED EXCEPT AS NOTED. MAKE
CHANGES AND SUBMIT FINAL DWG.
MFG MAY PROCEED AS APPROVED
4. ☐ NOT APPROVED. CORRECT AND RESUBMIT
5. ☐ REVIEW NOT REQUIRED
MFG. MAY PROCEED.

ACTION FOR OTHERS

6. ☐ FOR APPROVAL
7. ☐ CONSTRUCTION
8. ☐ PRELIMINARY USE
9. ☐ REFERENCE
10. ☒ Complete Response

SUBJECT

- ☐ BECHTEL DRAWINGS
- ☐ VENDOR DRAWINGS
- ☐ MATERIAL REQUISITION
- ☐ SPECIFICATIONS
- ☐ BID REQUEST
- ☐ QUOTATIONS
- ☐ PURCHASE ORDER
- ☐ CONFERENCE NOTES
- ☐ BID SUMMARY
- ☐ SUBCONTRACTS
- ☐
- ☐

CODE

B
V
MR
S
BR
Q
PO
CN
BS
SC
X
Y

ATTENTION VENDORS: ALL FINAL DRAWINGS SUBMITTED TO BECHTEL MUST BE CERTIFIED TRANSPARENCIES.

QTY	F. P. PREFIX [] ↓	BECHTEL FOREIGN PR. NO. BECHTEL DRAWING NO.	REV. NO.	TITLE	VENDOR NO.	ACTION	CODE
				MPQAD AFR M-01-40-1-5			
				QA AI S-1000			
				QC AI 1314A			

CONSULTING ENGINEERING COMPANY

RECEIVED

DEC 29 1981

FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

COMMENTS: cc: W. R. Bird
B. W. Marguglio

~~CONFIDENTIAL~~

16.0

TO

D. M. Turnbull, MPQAD
Consumers Power Company

FROM

E. Smith, Quality Control
Bechtel Power Corp.

- ☐ VENDOR PRINT
☐ OTHER

BY

ORIGINAL

QC AI 1314A

MPQAD AFR M-01-40-1-5
QA AI S-1000

Bechtel Procurement is establishing a more efficient method of tracking inspection intervals for equipment covered by the F-2 maintenance program.

All inspection intervals will be accounted for by utilizing the Mapper Computer System.

A weekly printout will be available to the responsible procurement inspectors and will identify all items scheduled for inspection during that week. Verification of maintenance activities will be made by Quality Control in accordance with the normal procedure.

A sample of the type of printout to be utilized is attached.

Per a conversation with Bill Bond of Procurement, the new system will be in effect the first week of February, 1982.

T/N 23466

Attachment

ACTION PARTY E SMITH		DEPT. QUALITY CONTROL	COMPANY Bechtel
REFERENCE DOCUMENT NO. AFR MDI-40-1-8 AND AFR MDI-40-1-5		DATE OF DOCUMENT 9/9/81	FILE 16.0
RESPONSE DATE 11/13/81	TODAY'S DATE 11/16/81	MPQAD-EVALUATOR Ed Jones	PHONE NO. 374

EVALUATION OF EARLIER RESPONSE

YOUR RESPONSE ONLY STATED THAT LOGS WERE NOT REQUIRED. YOUR CQCB INDICATED THIS WAS THE METHOD USED FOR TRACKING. BOTH OF THE AUDIT FINDINGS INDICATE THAT WHATEVER METHOD USED FOR TRACKING, IF ANY METHOD IS ESTABLISHED, THE REQUIRED INTERVALS FOR DOCUMENTING INSPECTIONS IS BEING MISSED BY FROM 1 DAY TO AS MUCH AS 11 WEEKS.

ADDITIONAL DATA/ACTION REQUIRED

THE AUDIT FINDINGS WILL REMAIN OPEN UNTIL MPQAD HAS BEEN PROVIDED WITH A RESPONSE THAT PROVIDES CORRECTIVE ACTION TO PREVENT MISSING INSPECTION INTERVALS IN THE FUTURE.

DISTRIBUTION

ADDRESS

DB MILLER
WR BIRD
MPQA ROUTING
ORIGINATOR
SUBJECT FILE
TICKLER

☐ DISCUSSED WITH _____ ON (DATE) _____

☐ NEXT REPLY AGREED TO BY (DATE) _____

☒ PLEASE REPLY BY (DATE) **11/23/81** GIVING DATE BY WHICH NEXT EXPECTED

SIGNATURE **Ed Jones** DATE **11/16/81** PHONE **374**
(FOR MPQA SITE SUPERINTENDENT)

STORAGE & MAINTENANCE INSPECTION SCHEDULE

GRADE 3 RAINTAGE INSPECTION SUMMARY						F I SCHED. C	
* F1	P.O.		3	2	1	R N INSP.	0
* NO. Q	NO.	DESCRIPTION	STORG. LOC.	STORG. LOC.	STORG. LOC.	E S DATE	D
=====							
0132	C-233B	STRUCTURAL STEEL FLT			POSEY	030	111884
0134	C-36A	STRUCTURAL STEEL FLT			POSEY	030	111884
0134	C-36	STRUCTURAL STEEL FLT			POSEY	030	111684
0134	C-233	STRUCTURAL STEEL FLT			POSEY	030	111684
0135	C-35	SOLE PLATES		1K	2PE4	090	110284
0135	C-36A	SOLE PLATES		1K	2PE4	090	110284
0135	C-37	SOLE PLATES		1K	2PE4	090	110284
0135	C-38	SOLE PLATES		1K	2PE4	090	110284
0135	C-233A	SOLE PLATES		1K	2PE4	090	110284
0135	C-305	SOLE PLATES		1K	2PE4	090	110284
0155	M-65	GASKETS AND BOLTS		1J15A	1J17A	090	110984
0162	M-64	MISC. ACCESSORIES	1I23B	1J16B	2KF4	090	100584
0170	M-1188	18" AIR CYLINDER	1G25B	2ROW3	2IC4	090	101984
0170	M-1188	18" AIR CYLINDER			2KE3	090	101984
0181	M-127A	NUCLEAR SERVICE VALVE			1G	090	100584
0183	M-129A	NUCLEAR SERVICE VALVE			1G	090	100584
0194	M-92	CRANE	1MP3C	1MP3B	1H24B	090	113084
0194	M-92	CRANE	1J12A	1J13A	1J11A	090	113084
0197	J-255	CONTROL VALVES	1H02A	1H03A	1H04A	090	111684
0197	J-255	CONTROL VALVES	1H05A	1H06A	2ROW4	090	111684
0200	E-205	SWITCHGEAR	1D01D	1D02D	1E01D	090	101984
0200	E-205	SWITCHGEAR	1D01D	1D02D	1E01D	090	101984
0201	E-205	SWITCHGEAR		1D	1E	090	112384
0202	C-230	GROUT & CHME. 1		2	3	030	112384
0204	C-255	CADWELD SLEEVES	1M03	1M04	1M05	090	112384
0204	C-255	CADWELD SLEEVES	1M06	1M07	1M08	090	112384
0204	C-255	CADWELD SLEEVES		1M09	1M10	090	112384
0206	M-1.	CALIBRATION BLOCKS			1A39D	180	110984
0211	M-1.2	REACTOR VESSEL	1AFL.S	1A41C	1A42B	090	110984
0210	M-1.5	CONTROL ROD			1A42B	090	092184
0219	M-1.7C	REACTOR COOLANT		1AFL.S	1A42D	090	101984
0225	M-1.1	REACTOR VESSEL		1AFL.S	1A42A	090	112384
0224	F-PO	GALV.&PVC CONDUIT			POSEY	030	111884
0227	M-1.4	CONTROL ROD			1CL.A	090	120784
0228	M-1.35	NON-NUCLEAR INST.		1CL.A	1A44C	090	092884
0237	M-1.30	FUEL TRANSFER	2FL.A	1A41C	1A42C	090	101284
0238	M-1.29	FUEL TRANSFER	1AFL.S	1A40B	2FL.A	090	102684
0239	M-1.44	REACTOR SERVICE EQ.	1AFL.S	1A40B	2	090	091484
0240	M-1.44	REACTOR SERVICE EQ.	1AFL.S	1A43C	1A41C	090	100584
0240	M-1.44	REACTOR SERVICE EQ.	1K18A	2JK4	2FL.A	090	100584
0242	M-106	PIPE SUPPORTS			2	090	101284
0245	M-130	NON-NUCLEAR SERVICE		2J	2L	090	102684
0248	M-24	MISC. PUMPS			2NN4	090	102684
0248	M-24	MISC. PUMPS			2NN4	365	072284
0249	M-127B	NUCLEAR SERVICE VALVE			1G	090	111684
0251	J-254	SERVICE VALVES	1H7A	1H1C	1H3A	030	111684
0251	J-254	SERVICE VALVES	1H4C	1H2A	1I	030	111684
0255	M-1.11	SAFETY VALVES			1AFL.S	090	092884
0256	M-1.27	SPRAY CONTROL			1A39B	090	102684
0262	M-1.8	COOLANT PUMP&ACCS.	1AFL.S	1CL.A	1A39D	090	110984
0262	M-1.8	COOLANT PUMP&ACCS.			1A41D	090	110984
0263	M-1.8	ANTI REVERSE DEVICES			1AFL.S	090	110984



Consumers
Power
Company
CASP-9

P. CTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

Priority: 7 Trend: C3, B3, (C2, B2) SUS: DCUMEO AI: S-1000

AS IS CONDITION VERSUS AS REQUIRED / "AS NEEDED" CONDITION WITH REFERENCES:

Paragraph 2 of the following F-1 forms provides for interval between maintenance/inspection activities indicated.

Contrary to the Interval requirements, the listed F-2 maintenance/inspection records exceeded the requirements as indicated:

<u>F-1</u> (90 day interval)	<u>F-2</u>	<u>Exceeded Requirements</u>
F-1-611	F-2-17069	4 days
F-1-375	F-2-15593	9 weeks
F-1-629	F-2-15591	11 weeks

<u>F-1</u> (30 day interval)	<u>F-2</u>	<u>Exceeded Requirements</u>
F-1-390	F-2-15611	32 days
F-1-390	F-2-16515	1 day
F-1-325	F-2-16919	58 days

AFR REP NO.
M01-40-1-5

PROJ/DEPT AUDITED:

Bechtel Const/OC

DATE OF ORIGINATION:

9/9/81

FILE NUMBER:

18.4.3.4 & 18.4.3.6

DISTRIBUTION:

WRBird MPQAD Routing

ARBurns ALAB-2

CAC/KFH

JWCook

LEDavis

MADietrich

GSKeeley

BWMarguglio

DBMiller

JARutgers

ESmith

DATaggart

JLWood

RAWells

RECOMMENDED CORRECTIVE ACTION:

It is recommended that both Quality Control and Field Engineering establish a better tracking system than the logs presently used to be certain inspections are conducted within the established intervals on the F-1 or F-10 forms. (LEDavis and ESmith).

CORRECTIVE ACTION COMMITMENT:

10-9-81

DATE OF C/A COMPLETION:

ORG. RESP FOR C/A:

PERSON MAKING C/A COMMITMENT:

DATE OF C/A EFFECTIVENESS:

Quality Control

S D Kirker

METHOD OF VERIFICATION:

IS AF REPORTABLE PER 90.55(*):

YES ☐ NO ☒

IF "YES", DATE OF REPORT TO NRC:

N/A

IF "YES", TIME OF REPORT TO NRC:

N/A

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT:

N/A

N/A

AFR ORIGINATOR'S SIGNATURE:

[Signature]

SUPERVISOR'S SIGNATURE:

[Signature]

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE: 9



Consumers
Power
Company
9450-2

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

Trend: K-3 K-5, E-5 Priority: 3 AI-S970 Start Up System: PGMIM

AS IS" CONDITION VERSUS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCES:

General Specification G-35, Revision 0, Section 2.0 states in part: "Each calculation shall list or reference the applicable specification."

ANSI N45.2-1977, Section 7.0, states in part; "Those participating in an activity shall be made aware of and use proper and current instructions, procedures, drawings, and engineering requirements..."

Contrary to these requirements, 6 of 6 calculations reviewed referenced Specification J-218 without revision number leaving the use of current revision indeterminate.

APP. SER. NO.

M-01-41-1-01

PROJ/DEPT AUDITED:

Bechtel Construction

DATE OF ORIGINATION:

8/ 28/81 Rev 1

FILE NUMBER:

-18-4-3-4- 16.0

DISTRIBUTION:

WRBird	ALAB-2
CAC/KFH	WCCarr
JWCook	MPQAD Routin
MADietrich	LEDavis
RCHirzel	PCorcoran
GSKeeley	Mason
BWMarguglio	
DBMiller	JEBranner
JARutgers	MLCurland
ESmith	DBorlaza
DATaggart	
MAVerderosa	
RAWells	
JLWood	

RECOMMENDED CORRECTIVE ACTION:

- 1) Revise calculations to include revision number of Spec J-218
- 2) Revise General Spec G-35 to require all references include current revision.

CORRECTIVE ACTION COMMITMENT:

- 1) Field Engineering agreed to include revision number for Spec J-218 on the cover sheet of the calculations
- 2) Project Engineering agreed to this action

DATE OF C/A COMPLETION:

9-2-81/ 10/25/81

ORG. RESP FOR C/A:

Bechtel FE/ Resident

PERSON MAKING C/A COMMITMENT:

WShearn/PCorcoran/
LEDavis

METHOD OF VERIFICATION:

- 1) Verified that corrective action had been taken by reviewing the 6 of 6 calculations referenced above (9/2/81)
- 2) MPQAD reviewed SCN2, dated 1/6/82, and found the revision to C-35 acceptable.

IS A. REPORTABLE PER 50.55(*):

YES ☐

NO ☒

IF "YES", DATE OF REPORT TO NRC:

N/A

IF "YES", TIME OF REPORT TO NRC:

N/A

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

N/A

IF "YES", WHO MADE REPORT:

N/A

APP. ORIGINATOR'S SIGNATURE:

PCorcoran

*REV. 1

CCorcoran

SUPERVISOR'S SIGNATURE:

RE Whitaker

C/A VERIFICATION SIGNATURE:

Rudolph C. Thigand

VERIFICATION DATE:

2/18/82



Consumers
Power
Company

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT

CONTINUATION SHEET:

"AS IS" CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED):

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

CORRECTIVE ACTION (CONTINUED):

AFR ORIGINATOR'S SIGNATURE:

SUPERVISOR'S SIGNATURE:



Consumers
Power
Company
QASO-J

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -

QUALITY ASSURANCE DEPARTMENT

Page 1 of 2

Priority: 01 Trend: 0-3, (0-5) SUS: PGMIWY

AI: S-1055

AS IS" CONDITION VERSUS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCES:

B&W Quality Control Procedure 9-WG-107, 3.3.1, states in part, "The Welding Supervisor shall be responsible for giving the welders a "Filler Metal Issue Sheet". 9-WG-107, 3.3.2 which states, "Welders shall be supplied with a sufficient quantity of coated electrode for two or four hours work as described in paragraph 3.2.2"

Contrary to the above requirements, B&W Pipefitters received controlled welding filler material from the Welding Materials Storage area. These pipefitters received the Welding Rod for the welders they were assigned to work with.

PIPEFITTER NO	DATE	WELDER NO
268	2/5/79	76
460	3/15/79	442
477	3/30/79	479
623	7/11/79	479
424	1/24/79	383

AFR SER NO

M-03-42-1-02

PROJ/DEPT AUDITED:

B&W Construction

DATE OF ORIGINATION:

10/1/81

FILE NUMBER:

18.4.9

DISTRIBUTION:

WRBird ALAB-2

REBlackinton

CAC/KPH JEBrunner

JWCook DHolthaus

MADietrich

GSKeeley

BWMarguglio

DBMiller

JARutgers

ESmith

DATaggart

DMTurnbull

RAWells

JLWood

RECOMMENDED CORRECTIVE ACTION:

Provide documented corrective action to preclude recurrence of nonconforming condition as stated above. (Provide a written instruction as to how weld rod shall be issued only to certified welders).

CORRECTIVE ACTION COMMITMENT:

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A:

B&WCC

PERSON MAKING C/A COMMITMENT:

CDThompson

METHOD OF VERIFICATION:

Reviewed the additional QA training attendance roster of September 5 & 6, 1981 and subsequent training thereafter.

See attached Bechtel Transmittal #3070 1/20/82 with B&W letter #M-1A-(Q)-172 (1/18/82)

IS AF REPORTABLE PER 50.55(*):

YES ☐ NO ☒

IF "YES", DATE OF REPORT TO NRC:

NA

IF "YES", TIME OF REPORT TO NRC:

NA

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

NA

IF "YES", WHO MADE REPORT:

NA

AFR ORIGINATOR'S SIGNATURE:

John A. ...

SUPERVISOR'S SIGNATURE:

M. J. Schappo

C/A VERIFICATION SIGNATURE:

David E. Holthaus / P. Davis

VERIFICATION DATE:

2-8-82



Consumers
Power
Company

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT

CONTINUATION SHEET:

M-03-42-1-02
Page 2 of 2

"AS IS" CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED):

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

N/A

CORRECTIVE ACTION (CONTINUED):

AFR ORIGINATOR'S SIGNATURE:

N/A

SUPERVISOR'S SIGNATURE:

N/A



Consumers
Power
Company

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

Page 1 of 2

QASO-3 Priority: 01 Trend: 0-3, (0-5) SUS: PGM100 AI: S-1060

AS IS" CONDITION VERSUS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCES:

B&WCC Quality Assurance Policy 9-QA-02, Revision 1, Paragraph 3, Indoctrination and Training, states in part:

Item 1

3.1 Supervisory Personnel

Prior to the implementation of the Quality Assurance Program at a specific project site, the B&WCC Quality Assurance Manager shall be responsible for the indoctrination and training of supervisory personnel. The indoctrination and training shall include familiarization with the Quality Assurance Program, applicable codes and standards.

Contrary to the above, review of B&WCC Indoctrination and Training Records indicates the following supervisory personnel currently on site have not received indoctrination and training to the latest revision of the B&WCC Quality Assurance Manual: Harold Landes, Walter Lee, Jim Liggett, Bill Linn, Ralph Stateman, BJ Graves, Ed Sandridge, Tom Davis, Brent Eastman, Jim Ellison, Randy Greer, Ron Nelson, Steve Taulbee, John Tooley and Larry Scoles.

(Continued on reverse side)

APR SER NO

M-03-42-1-07

PROJ/DEPT AUDITED:

B&WCC

DATE OF ORIGINATION:

10/1/81

FILE NUMBER:

18.4.9

DISTRIBUTION:

WRBird ~~REBlackinton~~
CAG/KEH JEBrunner
JWCook DHolthaus
MADietrich
GSKeeley
BWMarguglio
DBMiller
JARutgers
ESmith
DATaggart
RAWells
JLWood
DMTurnbull
ALAB-2

RECOMMENDED CORRECTIVE ACTION:

Item 1: Provide upgraded indoctrination and training of all supervisory personnel to the latest revisions of B&WCC QA Manual.

Item 2: Provide evidence of attendance as required by 9-QA-02 Rev 1, or provide reindoctration and training for personnel as applicable. Void previous training records which cannot be verified. (Continued on reverse side)

CORRECTIVE ACTION COMMITMENT:

DATE OF C/A COMPLETION:

ORG. RESP FOR C/A:

PERSON MAKING C/A COMMITMENT:

DATE OF C/A EFFECTIVENESS:

B&WCC

C D Thompson

METHOD OF VERIFICATION:

Reviewed the additional QA training attendance roster of September 5 & 6, 1981 and subsequent training thereafter.

See attached Bechtel Transmittal #3070 dated 1/20/82 with B&W letter #M-1A-(Q)-172 dated 1/18/82.

IS AF REPORTABLE PER 50.55(e):

YES ☐

NO ☒

IF "YES", DATE OF REPORT TO NRC:

NA

IF "YES", TIME OF REPORT TO NRC:

NA

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT:

NA

NA

AFR ORIGINATOR'S SIGNATURE:

SUPERVISOR'S SIGNATURE:

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:

2-8-82



Consumers
Power
Company

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT

CONTINUATION SHEET:

Page 2 of 2

"AS IS" CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED):

Item 2

B&WCC Quality Assurance Policy 9-QA-02, Revision 1, states in part:

3.3 Documentation

Indoctrination and training shall be documented in letter form indicating attendance, instructor, instructional time, date of instruction, signature of attendees and subject covered.

Contrary to the above, B&WCC file letters QA-2CP-12, CL-238 and a letter for R L Greer (all dated May 9, 1980) document training sessions. Evidence of attendance could not be verified. Additionally, a record of training for a course by Raymond Bolting dated July 21, 1981, and a record of extensometer training dated July 22, 1981, does not indicate instructor or instructional time.

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

nal time

Item 2

Provide corrective action to preclude reoccurrence,
(Note: All training requires the following documentation:)

- attendance lists
- instructor and his signature
- instructional time
- date of instruction
- signature of attendees
- subject(s) covered

CORRECTIVE ACTION (CONTINUED):

AFR ORIGINATOR'S SIGNATURE:

N/A

SUPERVISOR'S SIGNATURE:

N/A



Consumers
Power
Company
QASO-3

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT
Page 1 of 2

Priority: 01

Trend: 0-3, (0-6) SUS: PGMIQ1

AI: S-1062

AS IS" CONDITION VERSUS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCES.

Sequence 190 of B&WCC's FCP 15 states, "Inspect material in sequence 180 per 9-QPP-108".

Contrary to this, 32 cap screws listed in sequence 180 have not been inspected or signed off, but signoffs for sequence 240 document their installation and use.

APR SER NO

M-03-42-1-09

PROJ/DEPT AUDITED:

B&WCC

DATE OF ORIGINATION:

10/1/81

FILE NUMBER:

18.4.9

DISTRIBUTION:

WRBird ALAB-2
REBLackinton
CAC/KFH JEBrunner
JWCook DHolthaus
MADietrich
GSKeeley
BWMarguglio
DBMiller
JARutgers
ESmith
DATaggart
DMTurnbull
RAWells
JLWood

RECOMMENDED CORRECTIVE ACTION:

Investigate where these cap screws are in use and if they ever were inspected. If no documentation and/or proof of inspection can be produced, an NCR shall be written documenting this fact, and dispositioned as appropriate. Re-train QC personnel as to their responsibilities regarding timely and procedurally correct methods of inspection and sign-off.

CORRECTIVE ACTION COMMITMENT:

DATE OF C/A COMPLETION:

ORG. RESP FOR C/A:

PERSON MAKING C/A COMMITMENT:

DATE OF C/A EFFECTIVENESS:

B&WCC

CDThompson

METHOD OF VERIFICATION:

Reviewed B&W NCR #2118. Also reviewed the additional QA training attendance roster of September 5 & 6, 1981 and subsequent training thereafter.

See attached Bechtel Transmittal #3070 dated 1/20/82 with B&W letter #M-1A-(Q)-172 dated 1/18/82.

IS AF REPORTABLE PER 50.55(e)?

YES ☐ NO ☒

IF "YES", DATE OF REPORT TO NRC:

NA

IF "YES", TIME OF REPORT TO "RC":

NA

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

NA

IF "YES", WHO MADE REPORT:

NA

AFR ORIGINATOR'S SIGNATURE:

John L. L...

SUPERVISOR'S SIGNATURE:

W. J. Schaefer

C/A VERIFICATION SIGNATURE:

Dail E. Holthaus / R. D. Davis

VERIFICATION DATE:

2-8-82



Consumers
Power
Company

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT

CONTINUATION SHEET:

M-03-42-1-09
Page 2 of 2

"AS IS" CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED):

NA

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

NA

CORRECTIVE ACTION (CONTINUED):

NA

AFR ORIGINATOR'S SIGNATURE:

N/A

SUPERVISOR'S SIGNATURE:

N/A



Consumers
Power
Company

QA50-1.

Priority: 10

Trend: 0-3,

0-6

SUS: PGMIMM

AI: S-1214

PRO: S. ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

AS IS" CONDITION VERSUS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCES:

B&W Quality Control Procedure 9-QPP-126, Rev 4 "Personnel Qualification - Quality Control Inspectors" paragraph Section 6.1 states, "All Level I, Level II and Level III personnel shall be given a visual examination to assure color vision and natural or corrected near distance acuity such that the individual is capable of reading J-1 letters on the standard Jaeger's test type chart for near vision."

Contrary to the above, the following Quality Control personnel qualification records contain discrepancies:

Technician I - Attachment 1, "Certificate of Personnel Qualification Quality Inspector" states under eye examination record that corrective lenses are not required. However, they were required to pass the examination. Also, the eye examination does not state a color vision test was given.

Technician II - The eye examination record form does not indicate the type of Jaeger test that was performed.

Technician III - the eye examination record documents that this individual failed his color examination and there is no record of re-examination.

AFR SER NO:

M-03-300-1-01 F

PROJ/DEPT AUDITED:

B&W Construction Co

DATE OF ISSUANCE:

December 30, 1981

FILE NUMBER:

18.4.9

DISTRIBUTION:

WRBird ALAB-2
JEBrunner GRAnderson
CMCarlin ALPucci
JWCook
MADietrich
GSKeeley
BWMarguglio
DBMiller
JARutgers
ESmith
DATaggart
DMTurnbull
RAWells
JLWood

RECOMMENDED CORRECTIVE ACTION:

- 1) B&W provide re-examination to the two individuals to determine color vision or ability to determine the difference in shades and document results.
- 2) B&W update eye examination form to reflect the need for corrective lenses.
- 3) B&W re-perform eye examination to the Jaeger 1 test as required.

CORRECTIVE ACTION COMMITMENT:

B&W to respond to the proposed corrective action by February 1, 1982.

DATE OF C/A COMPLETION: 2/25/82

ORG. RESP FOR C/A:

B&W Construction Co

PERSON MAKING C/A COMMITMENT:

S Taulbee

DATE OF C/A EFFECTIVENESS: 2/25/82

METHOD OF VERIFICATION:

Verified eye re-examination records and corrective action results are adequate.

IS AF REPORTABLE PER 30.55(a)?

YES ☐

NO ☒

IF "YES", DATE OF REPORT TO NRC:

N/A

IF "YES", DATE OF REPORT TO NRC:

N/A

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

N/A

IF "YES", WHO MADE REPORT:

N/A

AFR ORIGINATOR'S SIGNATURE/DATE:

Angus R. Anderson December 31, 1981

SUPERVISOR'S SIGNATURE/DATE:

Ed P. Pucci 1-8-82

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:

3/9/82



Consumers
Power
Company
QA50-1

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

Priority: 10 Trend: 0-3, 0-8, SUS: PGMIMM AT: S-1216

AS IS" CONDITION VERSUS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCE:

ANSI N45.2.2-1972 "Packaging, Shipping, Receiving, Storage and Handling of items for Nuclear Power Plants" Paragraph 6.2.2 - "Cleanliness and Housekeeping Practice", states, "Cleanliness and good housekeeping practices shall be enforced at all times in the storage areas. The storage areas shall be cleaned as required to avoid the accumulation of trash, discarded packaging materials and other detrimental soil."

Contrary to the above, the Fabrication shop where Class One Piping, Fittings and Valves are in temporary storage prior to fabrication was unclean, piping, sub-assemblies stored in contact with the floor, unidentified pipe sections in contact with floor and discarded weld filler material in the area.

ANSI N45.2.2-1972, Paragraph 6.4.2.1 states, "Items in storage shall have covers, caps, plugs or other closures intact. Methods used to seal openings shall be in accordance with Section Three of this standard."

Contrary to this, the Fabrication Shop has Class One Valves and Piping with uncapped/unsealed openings, which has allowed dirt to enter inside.

AFR SER NO:

M-03-300-1-3 F

PROJ/DEPT AUDITED:

B&WCC

DATE OF ISSUANCE:

12/30/81

FILE NUMBER:

18.4.9

DISTRIBUTION:

WRBird ~~GRAnderson~~

JEBrunner ALPucci

CMC/KFH

JWCook

MADietrich

GSKeeley

BWMarguglio

DBMiller

JARutgers

ESMith

DATaggart

DMTurnbull

RAWells

JLWood

ALAB (2)

RECOMMENDED CORRECTIVE ACTION:

- 1) Clean Fabrication Shop to comply with ANSI N45.2.2. - 1972.
- 2) B&W should inspect open piping and valves for cleanliness, reclean if necessary, and cap in accordance with ANSI N45.2.2 - 1972.

CORRECTIVE ACTION COMMITMENT:

B&W to respond to the proposed Corrective Action by February 1, 1982.

DATE OF C/A COMPLETION: 2/25/82

ORG. RESP FOR C/A:

B&WCC

PERSON MAKING C/A COMMITMENT:

S Taulbee

DATE OF C/A EFFECTIVENESS: 2/25/82

METHOD OF VERIFICATION:

- 1) Verified cleanliness of Fabrication Shop - C/A results were acceptable.
- 2) Verified compliance with ANSI N45.2.2 - 1972, Para 6.4.2.1 - C/A has been adequately implemented, results were acceptable.

IS AF REPORTABLE PER 50.55(*):

YES ☐

NO ☒

IF "YES", DATE OF REPORT TO NRC:

N/A

IF "YES", TIME OF REPORT TO NRC:

N/A

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT:

N/A

N/A

AFR ORIGINATOR'S SIGNATURE/DATE:

Aras R. Anderson December 31, 1981

SUPERVISOR'S SIGNATURE/DATE:

Robert Taulbee 1-9-82

C/A VERIFICATION SIGNATURE:

ALPucci

VERIFICATION DATE:

3/9/82



Consumers
Power
Company
QA50-1

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

Priority: 10 Trend: 0-3, 0-3 SUS: PGMIMM AI: S-1220

AS IS" CONDITION VERSUS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCES:

B&W Quality Control Procedure, 9-QPP-102, Rev 10, "Field Construction Procedures" Paragraphs 2.3.2.1 and 2.3.2.2 state as follows:
2.3.2.1 "Each change of sequence (out of sequence activity and/or parallel activity) shall be recorded on the FCP resequencing form (see Attachment 6)."

2.3.2.2 "The FCP resequencing form shall be reviewed and approved by the Field Project Engineer (FPE); Field Quality Control Supervisor; and, where applicable, the Welding Supervisor. The resequencing form shall be prepared by supervisory personnel only."

Contrary to the above, while witnessing work being performed in accordance with Field Construction Procedure FCP-423, Rev 0 it was noted that the following sequences were performed out of order:

- 1) Sequence 590 was performed after Sequence 610
- 2) Sequence 740 was performed before Sequence 730.
- 3) Bolts on upper guide bearing were torqued to approx 20-25 ft/lbs in Sequence 620. These bolts were not being installed until Sequence 640.

Contrary to the above requirement Field Construction FCP-297's resequencing form indicates Sequence 050 is to be completed prior to Sequence 090 and signed-off (inspected). However, Sequence 050 has no signoffs completed while Sequence 090 was completed and signed off.

RECOMMENDED CORRECTIVE ACTION:

- 1) This type of finding has been previously identified on two prior Audits M-03-06-1, dated 2/20/81 and M-03-42-1, dated 9/9/81.
- 2) B&W is requested to research and determine the proper "Corrective Action" to prevent recurrence of this finding.

CORRECTIVE ACTION COMMITMENT:

B&W to respond to the proposed Corrective Action by February 1, 1982.

DATE OF C/A COMPLETION: 2/25/82

DATE OF C/A EFFECTIVENESS: 2/25/82

ORG. RESP FOR C/A:

B&WCC

PERSON MAKING C/A COMMITMENT:

S Taulbee

METHOD OF VERIFICATION:

Corrective Action response of Letter # Serial, M-1A-Q-176 is adequate.

IS AF REPORTABLE PER 50.55(e):

YES ☐

NO ☒

IF "YES", DATE OF REPORT TO NRC:

N/A

IF "YES", TIME OF REPORT TO NRC:

N/A

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT:

N/A

N/A

AFR ORIGINATOR'S SIGNATURE/DATE:

Greg R. Anderson December 31, 1981

SUPERVISOR'S SIGNATURE/DATE:

Lee R. Taulbee 1-8-82

C/A VERIFICATION SIGNATURE:

ALPucci

VERIFICATION DATE:

3/9/82



Consumers
Power
Company

QA50-1 Priority: 10 Trend: 0-3. 0-3 SUS: PGMIMM AI: S-1221

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

AS IS" CONDITION VERSUS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCES:

B&W Field Construction Procedure FCP-297, Rev 2, Sequence Number 060, requires the transferring of Heat Number and sign-off be recorded on Attachment "B" of FCP-297.

Contrary to the above, the Heat Number for Line Item 1-610-2-7 was not recorded on Attachment B.

AFR SER NO:
M-03-300-1-8 F

PROJ/DEPT AUDITED:
B&WCC

DATE OF ISSUANCE:
12/30/81

FILE NUMBER:
18.4.0

DISTRIBUTION:
WRBird CRAnderson--
JEBrunner ALPucci
CMC/KFH
JWCook
MADietrich
GSKeeley
BWMarguglio
DBMiller
JARutgers
ESmith
DATaggart
PMTurnbull
RAWells
JLWood
ALAB (2)

RECOMMENDED CORRECTIVE ACTION:

- 1) B&W to record the correct Heat Number on Attachment B.

CORRECTIVE ACTION COMMITMENT:

B&W to respond to the proposed Corrective Action by February 1, 1982.

DATE OF C/A COMPLETION: 2/25/82

DATE OF C/A EFFECTIVENESS: 2/25/82

ORG. RESP FOR C/A:

B&WCC

PERSON MAKING C/A COMMITMENT:

S Taulbee

METHOD OF VERIFICATION:

- 1) Review documentation to verify that heat number has been recorded on Attachment "B".

IS AF REPORTABLE PER 50.55(e):

YES ☐ NO ☒

IF "YES", DATE OF REPORT TO NRC:

N/A

IF "YES", TIME OF REPORT TO NRC:

N/A

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT:

N/A

N/A

AFR ORIGINATOR'S SIGNATURE/DATE:

Bryan R. Anderson December 31, 1981

SUPERVISOR'S SIGNATURE/DATE:

Lee H. Haines 1-4-82

C/A VERIFICATION SIGNATURE:

B. Lucci

VERIFICATION DATE:

3/9/82



Consumers
Power
Company

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

QA50-1 Priority: N/A

Trend: B-3, B-5

SUS: PGMIE

AI: N/A

AS IS CONDITION VERSUS AS REQUIRED / AS NEEDED CONDITION WITH REFERENCES:

FIE-1.300 Rev 1, para 5.1 states:

"The Quality Control Group shall be notified of impending raceway, cable installation and termination or rework, by providing the Quality Control Electrical Lead Engineer with a duplicate copy of the card transmittal form at the same time it is issued to the field per FPE-1.000"

Contrary to the above, Field Construction has not utilized the card transmittal form to notify the Quality Control Electrical Lead Engineer of impending Raceway Rework.

APR SER NO:

M01-306-2-01 F

PROJ/DEPT AUDITED:

Bechtel Field Constr

DATE OF ISSUANCE:

1/25/82

FILE NUMBER:

16.0

DISTRIBUTION:

WRBird ALAB (2)
JEBrunner MJSchaeffer
JWCook
MLCurland
MADietrich
GSKeeley
BWMarguglio
DBMiller
JARutgers
ESMith
DATaggart
DMTurnbull
RAWells
JLWood

RECOMMENDED CORRECTIVE ACTION:

Recommend that Field Construction implement this section of FIE-1.300.

CORRECTIVE ACTION COMMITMENT:

Lead Raceway Field ENGINEER will send to Quality Control daily notification of any impending rework.

DATE OF C/A COMPLETION: 1/28/82

DATE OF C/A EFFECTIVENESS: 1/28/82

ORG. RESP FOR C/A:

Field Construction

PERSON MAKING C/A COMMITMENT:

RJBlack

METHOD OF VERIFICATION:

Inspection of transmittal records dated 1/28/82 through 2/8/82.

IS REPORTABLE PER 10.55(a)?

YES ☐ NO ☒

IF "YES", DATE OF REPORT TO HRC:

N/A

IF "YES", TIME OF REPORT TO HRC:

N/A

IF "YES", NAME OF HRC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT:

N/A

N/A

APR ORIGINATOR'S SIGNATURE/DATE:

Paul A. Kinore 2/10/82

SUPERVISOR'S SIGNATURE/DATE:

M. J. Schaeffer 3/5/82

C/A CERTIFICATION SIGNATURE:

Paul A. Kinore

VERIFICATION DATE:

2/10/82



Consumers
Power
Company

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

QA30-1 Priority: N/A Trend: I-3, I-5 SUS: PGMIQM

AI: N/A

AS IS CONDITION VERSUS AS REQUIRED / AS NEEDED CONDITION WITH REFERENCES:

Bechtel Field Procedure FIE-1.300 Rev 1, paragraph 5.4 states, "The Lead Electrical Quality Control Engineer shall acknowledge receipt of all transmittals from the Lead Electrical Field Engineer by returned, signed copy of the transmittal."

Contrary to the above, a review of transmittals from the Lead Electrical Field Engineer to the Lead Electrical Quality Control Engineer indicates that this has not been done on a consistent basis.

AFR SER NO:
M-01-308-2-02 F

PROJ/DEPT AUDITED:
Bechtel QC

DATE OF ISSUANCE:
1/25/82

FILE NUMBER:
16.0

DISTRIBUTION:
WRBird ALAB-2
JEBrunner MJSchaeffer
JWCook
MLQurland
MADietrich
GSKeeley
BWMarguglio
DBMiller
JARutgers
ESmith
DATaggart
DMTurnbull
RAWells
JLWood

RECOMMENDED CORRECTIVE ACTION:

Recommend that the Lead Electrical acknowledge receipt of all transmittals from the Lead Electrical Field Engineer.

CORRECTIVE ACTION COMMITMENT:

Lead Electrical Quality Control Engineer will sign and return all transmittals from the Lead Electrical Field Engineer.

DATE OF C/A COMPLETION: 1/28/82

DATE OF C/A EFFECTIVENESS: 1/28/82

ORG. RESP FOR C/A:

Bechtel QC

PERSON MAKING C/A COMMITMENT:

D Preslar

METHOD OF VERIFICATION:

Inspection of transmittal records dated 1/28/82 through 2/8/82.

IS AF REPORTABLE PER 50.55(e):

YES ☐ NO ☒

IF "YES", DATE OF REPORT TO NRC: N/A

IF "YES", TIME OF REPORT TO NRC:

N/A

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT:

N/A

N/A

AFR ORIGINATOR'S SIGNATURE/DATE:

Paul L. Kinosh 2/10/82

SUPERVISOR'S SIGNATURE/DATE:

M. G. Schaeffer 3/4/82

AFR VERIFICATION SIGNATURE:

Paul L. Kinosh

VERIFICATION DATE:

2/10/82



Consumers
Power
Company
QA76-0

UNRESOLVED ITEM

PROJECTS, ENGINEERING
AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

6. DESCRIPTION OF UNRESOLVED ITEM:

Section 5.0 of Specification A-41, Revision 8, requires Field Engineering to submit samples of various steel surface preparation standards to Project Engineering for approval. During the audit of Containment Liner Plate repair, it was observed that the SP-28 surface preparation standards were maintained in such a manner as to permit oxidation.

It was suspected that, after the original approval of the samples by Project Engineering, some further rusting did in fact occur.

1. URI NO:

M-01-304-01-01U

2. PROJ/DEPT AUDITED:

Bechtel OC/Construction

3. DATE OF ORIGINATION:

2/12/82

4. FILE NO:

16.0

5. DISTRIBUTION:

WRBird MADietrich
JEBrunner ALAB-2
MCButterfield DEHorn
~~JACook~~
MLCurland
~~MSKeeley~~
BWMarguglio
DBMiller
JARutgers
ESmith
DATaggart
~~DMTurnbull~~
~~RAWells~~
JLWood
BPalmer

7. REQUIRED ACTION:

- 1) Resubmit to Project Engineering, for re-approval, all surface preparation standards in their present condition.
- 2) Record the results of Project Engineering's re-evaluation in Block 10 below.
- 3) Maintain re-approved standards in such a manner as to prevent degradation.

8. ACTION REQUIRED FROM: Paul Goguen

9. ACTION REQUIRED BY-DATE: 2/24/82

10. RESPONSE TO URI:

All surface preparation standards were re-submitted in the same condition as they were at the time of the audit, to Project Engineering. They were all approved, and have been completely sealed to prevent any possible degradation.

11. URI ORIGINATOR'S SIGNATURE/DATE:

Brian Palmer

Work complete
2/12/82

12. SUPERVISOR'S SIGNATURE/DATE:

Donald E Horn 2/12/82

13. URI CLOSURE BASED ON:

RECEIPT OF
ACCEPTABLE
RESPONSE



ISSUANCE OF
AFR



14. AFR NO

15. CLOSED BY-SIGNATURE/DATE:

Brian Palmer
3-17-82

CPCo

Open: QAR's

File: 16.0

PRIORITY: 03 TREND: M-3 (M-3) S/U 2PEA/2PEB, 1PEA/1PEB AI: S-1266

[illegible]

ACTION REQUESTED:

Manual. For example: Inspection Report/Hold Tags have not been utilized to identify/document the nonconformances.

A telecon (record attached #OCR-0139) was held among MPQAD/Bechtel/TAD to discuss the problem on 1/29/82 and TAD action items identified, specifically:

- 1) Process the re-assembly procedure in accordance with all reviews/controls utilized by TAD in their initial assembly program.
- 2) Provide a block of serialized Inspection Report/Hold Tags to the site for use by TAD Site QC in documenting nonconformances-identical to the initial TAD assembly process.
- 3) Review with the TAD Site QC representative the existing site program against the TAD QA Program to determine if any similar variations/violations exist.

You are requested to follow up these action items with TAD to assure timely resolution.



Consumers
Power
Company

QA5-0

ORAL COMMUNICATIONS RECORD

OCR #4137

PROJECTS, ENGINEERING
AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

CRASH FILE NO 2.18

PAGE 1 OF 1

DATE OF COMMUNICATION 1/29/82

QA-PLAC PERSONNEL PARTICIPATING MAVerderosa (MPQAD)

TIME OF COMMUNICATION 2:30PM

OTHER PARTY(S) Bechtel-SQR-Site-FPointe; Transamerica Delaval

PREPARED BY MAVerderosa

(TAD) QC-Site-RAssazawa; Bechtel-PSQR-Ann Arbor-AEBice

PROJECTS AND/OR SUBJECTS DISCUSSED Bechtel-SQR-Ann Arbor-NBSchroeder; TAD-Oakland-QA-LBlock;

TAD-Oakland-RPratt

TAD SITE ACTIVITY QUALITY ASSURANCE DEFICIENCIES

SUMMARY OF CONVERSATION The following items were confirmed during the telecon discussion:

- 1) The TAD Quality Assurance Manual is applicable to the re-assembly activity being conducted at the Midland Site.
- 2) The procedure utilized for the re-assembly effort is presently not being controlled consistent with Section 6.0 "Document Control" of the TAD QA Manual. For example: Reviews typically required by the TAD organization were not conducted prior to issuance nor are they conducted on revisions to the procedure.
- 3) Nonconformances identified by TAD site QC have not been documented in accordance with Section 14.0 "Nonconforming Material" of the TAD QA Manual. For example: Inspection Report/Hold Tags have not been utilized to identify/document the nonconformance.

Tad agreed during the telecon to:

- 1) Process the re-assembly procedure in accordance with all reviews/controls utilized TAD in their initial assembly program.
- 2) Provide a block of serialized Inspection Report/Hold Tags to the site for use by TAD Site QC in documenting nonconformances-identical to the initial TAD assembly process.
- 3) Review with the TAD Site QC representative the existing site program against the TAD QA Program to determine if any similar variations/violations exist.

AI# 31275
STATUS: 5
S/U CODE: BBC
TREND CODE: K-9

QUALITY ACTION REQUEST

CC: MADietrich DEHorn
EGSmith RCBauman
BWMarguglio JLWood
WRBird DFJudd B&W-
DMTurnbull/JHorsch Lync
DBMiller
DTPerry/RPolich

From: H S Garcha, MPQAD, Jackson

To: E M Hughes, Bechtel

Control Document ref.: Bechtel

QAR Ident. No.:

Dwg # C-644(Q) Rev 11

F-151

Action Requested:

C-645(Q) Rev 13

The orientation of snubbers attached to the RC Pump as shown on the above referenced drawings is incorrect as compared to the actual snubber configuration. The installation of the snubbers is correct.

It is required that Bechtel review these drawings along with the actual installation and correct these drawings. Bechtel shall limit the use of these drawings to only referencing the location in which a given snubber is positioned. The restriction on the use of these drawings shall be placed on all other groups or companies who may use them for their own purposes. This is required to prevent any misinterpretation that may affect its work. Upon correction of these drawings, the restriction shall be lifted. Other drawings that may affect this work shall be reviewed and corrected if necessary.

Signature:

H S Garcha

Date:

2/8/82

Reply Requested by:

3/8/82

Reply:

RECEIVED

FEB 12 1982

FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

ACTION POINT
IMPRINTS
EXTRA REPORTING
AS NOTED FILE
CRIG TO FILE

Signature:

Date:

Date:

Action Verified:

Date:

Date:

WRBird
MADietrich
EDutton
JHoekwater
CVLandis
BWMarguglio

BMPalmer
DMTurnbull
ALAB-2

File: 16.10.5
0.4.9.37
3.6

QUALITY ACTION REQUEST

Priority: 03 S/U: NTSOC3 AI: S-1285 NO TREND

From: Brien Palmer, MPQAD		①	
To: PCorcoran	② Control Document ref.: Spec A-56 Rev1 Sec 13.5.1	③ QAR Ident. No.: F-152	④
Action Requested: P Corcoran		⑤	
System 9 coating has been applied in Containment 1&2 areas per Specification A-56			
Some coatings in these areas have reacted in a questionable manner when tested			
for adhesion by the knife cut method (refer to Spec A-56, Rev 1, Sec 13.5.1).			
Please address each of the following items relative to this concern.			
1) Determine whether or not this is a nonconforming condition, and provide			
the rationale.			
2) If the condition is nonconforming, determine whether or not it is report-			
able, and provide the rationale.			
(CONTINUED)			
Signature: <i>Brien Palmer</i>	⑥ Date: 2/16/82	⑦ Reply Requested by: 3/16/82	⑧
Reply:		⑨	
Signature:		⑩ Date:	⑪
Action Verified:		⑫ Date:	⑬

QAR: F-152
AI: S-1285
Date 2/16/82
Page 2 of 2

- 3) Determine whether a specification change is required to address the following:
- . Is a specified interval between application and final adhesion testing required?
 - . Is more specificity required for the acceptance criteria of the final adhesion testing?

FILE: 16.0

QUALITY ACTION REQUEST

[illegible]

QAR: F-154
File: 16.0
Date: 2/23/82
Page 2 of 2

- 1) Determine if construction is using an equal procedure and that ITT Grinnell has approved its use.
- 2) If not, investigate the status of Grinnell's Bevel Procedure and evaluate its use on Bechtel Systems and all similar installations as compared to the beveling method used by construction in the past.
- 3) If it is found that no equal Bechtel Procedure exists and construction is not using a controlled ITT Grinnell Procedure, this would leave the status of all similar installations indeterminate. If this is the case, you are requested to investigate impact on hardware and transmit information to MPQAD for review.

ALAB

File: 16.0

From: JCS Shah/DE Horn

To: LHCurtis/PCorcoran

Control Document ref.: Spec C-
211 EDPI's 2.14.7/2.14.8

QAR Ident. No.:
F-155

Action Requested:

On 2/18/82 Resident Geotechnical Engineers Report prepared by Resident Geotech-

nical Engineer for Midland Remedial Underpinning Operations recorded the Q area

backfill operations of six freeze wall elements and the temperature monitor holes

which included grouting. The daily on site Geotechnical Soils Engineer Report

prepared by on site Geotechnical Soils Engineer indicated "No Q backfill performed today".

The above discrepancies between the Resident Geotechnical Engineer Report prepared

by the Resident Geotechnical Engineer and the daily on site Geotechnical Soils

Report prepared by the on-site Geotechnical Soils Engineer indicate that "Q" back-

fill was placed in "Q" areas without designated on site Geotechnical Soils Eng. (CONTINUED)

Signature: Deborah
Jagdish C. Smith

⑥ Date: 3/1/82

⑦ Reply Requested by:
4/1/82

Reply:

Signature: _____

10 Date:

Action Verified:

⑫ Date:

ACTION REQUESTED: (CONTINUED)

Further investigations reveal that Resident Geotechnical Engineer was temporarily assigned on 2/18/82 to perform on site Geotechnical Soils Engineer responsibilities.

RECOMMENDED CORRECTIVE ACTIONS:

- 1) Revise the on site Geotechnical Soils Report for 2/18/82 to include the backfilling of excavations (holes) in Q-fill.
- 2) Provide evidence that the designated Resident Geotech Engineer assigned to the on site Geotechnical duties on 2/18/82 was trained to requirements of EDPI 2.14.7.
- 3) Review the on site Geotechnical Reports from 2/18/82 to present for similar concerns as identified in Item 1 and 2 and correct as necessary.
- 4) Provide evidence of Geotechnical personnel qualified to EDPI 2.14.7 and 2.14.8 and update as necessary for MPQA cognizance of persons qualified/trained to each procedure.

CPCo

Closed QAR's

WRBird
MADietrich
ELJones
BWMarguglio
MJSchaeffer
DMTurnbull
ALAB (2)

QUALITY ACTION REQUEST

File: 16.0

KCH

Priority: 5 Trend: Do Not Trend SUS: PGMIXM AI: S-1250

From: E L Jones, MPQAD		①	
To: E Smith, PFQCE	② Control Document ref.: PSP G-8.1	③ QAR Ident. No.: F-145	④
Action Requested:		⑤	
During the visit of Mr Ron Gardner, USNRC Region III, he reviewed the closure action on Audit Finding M01-24-1-02. He expressed concern that a Level I had signed the Test Report of inspection and Test Results. When QC explained that the Level II and not the Level I is responsible for acceptance of the Inspection Record and the Test Results, Mr Gardner stated that paragraph 4.2.2d of PSP G-8.1 should be revised to clearly specify who signs the Test Report and/or what this signature means. If the Level I is signing it to only compare data for accuracy and completeness then this should be explained in paragraph 4.2.1 of PSP G-8.1. Request you inform MPQAD of action you plan to take by January 29, 1982.			
Signature: <i>E L Jones</i>	⑥	Date: 1/15/82	⑦
Reply:		⑧ R. olv Requested by: 1/29/82	
⑨			
See Transmittal #23481, dated 2/10/82 for complete response.			
Signature: See Transmittal #23481, dated 2/10/82.		⑩	
Action Verified: <i>E L Jones</i>		⑪	
		⑫	
		⑬	

Nº 23481
PLEASE RECEIPT AND RETURN
BLUE COPY IMMEDIATELY

DATE February 3, 1982

- ACTION

ACTION FOR VENDORS

1. ☐ APPROVED - MFG. MAY PROCEED
2. ☐ APPROVED
SUBMIT FINAL DWG. MFG. MAY
PROCEED
3. ☐ APPROVED EXCEPT AS NOTED. MAKE
CHANGES AND SUBMIT FINAL DWG.
MFG MAY PROCEED AS APPROVED
4. ☐ NOT APPROVED. CORRECT AND RESUBMIT
5. ☐ REVIEW NOT REQUIRED
MFG MAY PROCEED

ACTION FOR OTHERS

6. ☐ FOR APPROVAL
7. ☐ CONSTRUCTION
8. ☐ PRELIMINARY USE
9. ☐ REFERENCE
10. ☒ Complete response

SUBJECT

- ☐ BECHTEL DRAWINGS
- ☐ VENDOR DRAWINGS
- ☐ MATERIAL REQUISITION
- ☐ SPECIFICATIONS
- ☐ BID REQUEST
- ☐ QUOTATIONS
- ☐ PURCHASE ORDER
- ☐ CONFERENCE NOTES
- ☐ BID SUMMARY
- ☐ SUBCONTRACTS

CODE

B
V
MR
S
BR
Q
PO
CN
BS
SC
X
Y

ATTENTION VENDORS: ALL FINAL DRAWINGS SUBMITTED TO BECHTEL MUST BE CERTIFIED TRANSPARENCIES.

QTY.	<input type="checkbox"/> P. PREFIX BECHTEL FOREIGN PR. NO. <input type="checkbox"/>	REV. NO.	TITLE	VENDOR NO.	ACTION	CODE
			QC AT-1469 QA AT-S-1250 MPQAD QA F-145			
<div style="text-align: center;"> <p>RECEIVED</p> <p>FEB 10 1982</p> <p>FIELD QUALITY ASSURANCE MIDLAND, MICHIGAN</p> </div>						

COMMENTS: W. R. Bird
B. W. Marguglio

THIS COPY FOR	ACTION PRINT	ELT
	PRINTED	
	DATE	
	TIME	
	16.0	

TO D. M. Turnbull, MPQAD
Consumers Power Company

FROM E. Smith, Quality Control
Bechtel Power Corp.

☐ VENDOR PRINT
☐ OTHER

32

QC AI-1469

QA AI-S-1250

MPQAD QAR 7-145

Quality Control is revising P.S.P. G-8-1 Para 4-2.2(d)
The wording of the change is as follows:

Sign off by a level II CQCE evidencing review and acceptance of the completed inspection record and associated test reports (if applicable) signifying completeness and acceptability of the data recorded by a level I, or other level II CQCE's.

Copies of the new revision to P.S.P. G-3-2 will be made available to you through the normal channels.

T/N 23481

File: 16.0

Priority: 5 Trend: Do Not Trend SUS: 1PEA/1PEB AI: S-1183

From: <i>M A Verderosa</i>		Site Q.A.		Job 7220	
To: R M Collins		(2) Control Document ref.: N/A		(3) QAR Ident. No.: F-138	
Action Requested: MPQAD has been informed of a 10CFR50 Part 21 condition (See attached NRC Region II Daily Report for November 12, 1981) related to cracking (during operational testing) of one stud and three (3) washers utilized to secure the piston head to the piston skirt on a Transamerica Delaval standby Diesel Generator at Grand Gulf 1 and 2 Nuclear Generating Station. You are requested to evaluate the above as it relates to the Emergency Diesel Generators supplied by Transamerica Delaval.					
Signature: <i>RE Whitaker</i>		(6) Date: 12/10/81		(7) Reply Requested by: 12/28/81	
Reply: See attached Transmittal #159765 dated 3/1/82.					
Signature: See attached Transmittal #159765 dated 3/1/82.		(10) Date: See attached #159765		(11)	
Action Verified: <i>M A Verderosa</i>		(12) Date: 3/1/82		(13)	

DAILY REPORT - REGION II
DATE: NOVEMBER 12, 1981

- 2 -

FACILITY	NOTIFICATION	ITEM OR EVENT	REGIONAL ACTION
RESIDENT AND REACTOR PROJECT INSPECTION			
MCQUIRE 1 UNI 50-369	RESIDENT INSPECTOR 11/12	ON 11/11 AT 3:08 P.M., A BLOWN FUSE CAUSED THE INBOARD ISOLATION VALVE OF THE NUCLEAR WATER COOLING SYSTEM TO CLOSE. THE REACTOR WAS AT 49% POWER. THE CLOSURE OF THE VALVE RESULTED IN REACTOR COOLANT PUMP MOTOR/STARTER HEATUP AND CAUSED THE OPERATORS TO TRIP T D OF FOUR RCP'S. SUBSEQUENTLY, WATER LEVEL IN THE STEAM GENERATOR SWELLED TO A HI-HI TRIP SETPOINT WHICH TRIPPED THE TURBINE, ISOLATED MAIN FEEDWATER FLOW AND STARTED THE AUXILIARY FEEDWATER SYSTEM. THE REMAINING TWO OPERATING RCP'S WERE TRIPPED AT 3:20 P.M. WITH REACTOR POWER AT 3%. AT THIS POINT THE REACTOR WAS TRIPPED AND NATURAL CIRCULATION WAS ESTABLISHED. MINIMUM SATURATION MARGIN WAS 86 DEGREES FAHRENHEIT. DURING REPLACEMENT OF THE BLOWN FUSE, A TEMPORARY POWER LOSS TO THE HVAC AND FIRE DETECTION ANNUNCIATOR PANELS WAS EXPERIENCED. ALL SYSTEMS ARE RESTORED AND THE REACTOR WAS RESTARTED AT 5:47 P.M.	FOLLOWUP PER MC 2515.
ST. LUCIE UNI 50-389	IEHQ 11/9	THE ADVISORY COMMITTEE ON REACTOR SAFEGUARDS CONVENES TODAY ON THE ST. LUCIE 2 REQUEST FOR AN OPERATING LICENSE, WITH PARTICIPATION BY REGIONAL STAFF.	INFORMATION ONLY.
GRAND GULF 1, 2 DNSI 50-416 50-417	LICENSEE 11/10	CDR - TRANSAMERICA DELAVAL STANDBY DIESEL GENERATOR - AN INSPECTION OF THE DIESEL'S NO. 2 CYLINDER FOLLOWING OPERATIONAL TESTING SHOWED THAT ONE STUD AND THREE WASHERS WERE CRACKED. THE STUD AND WASHERS SECURE THE PISTON HEAD TO THE PISTON SKIRT AND WERE PURCHASED BY DELAVAL FROM WESTERN TOOL AND SUPPLY COMPANY, OAKLAND, CALIFORNIA. PART 21 IS APPLICABLE. REPORT DUE 12/10.	FOLLOWUP PER MC 2513, REGION IV NOTIFIED.

ORIGINAL

CC WRBird ALAB-2
WADietrich EDunbar
BWArguglie
DMTurnbull
MAVerderosa F.S. Trotter
R.M. Collins, Jr.
Priority: 5

QUALITY ACTION
REQUEST

DEC 16 1981
Archib
5 sheet w/
A2 Engr. believe
they may have
Job 72282
Rock

From: <i>MAVerderosa</i>		Site Q.A.		Job 72282	
To: <i>Archib</i>		Control Document ref.: N/A		QAR Ident. No.: F-138	
Action Requested: MPQAD has been informed of a 10CFR50 Part 21 condition (See attached NRC Region II Daily Report for November 12, 1981) related to cracking (during operational testing) of one stud and three (3) washers utilized to secure the piston head to the piston skirt on a Transamerica Delaval standby Diesel Generator at Grand Gulf 1 and 2 Nuclear Generating Station. You are requested to evaluate the above as it relates to the Emergency Diesel Generators supplied by Transamerica Delaval.					
<div style="border: 1px solid black; padding: 5px; display: inline-block;">SUPPLIER QUALITY DEPT. ANN ARBOR, MICHIGAN RECEIVED DATE DEC 18 1981</div>					
Signature: <i>RE Whitaker</i>		6 Date: 12/10/81	7 Reply Requested by: 12/28/81	8	
Reply: Procurement has received Transamerica Delaval's response (attached) concerning the applicability of the above deficiency to Midland's emergency diesel generators. Procurement considers the required action on this matter complete. Please address any response or questions to the undersigned.					
Attachment: Transamerica Delaval letter to R.M. Collins (Com #059107)					
Signature: <i>Archib B. Bice</i>		10 Date: 2/25/82	11		
Action Verified:		12 Date:	13		

052549

DAILY REPORT - REGION II
DATE: NOVEMBER 12, 1981

- 2 -

FACILITY	NOTIFICATION	ITEM OR EVENT	REGIONAL ACTION
RESIDENT AND REACTOR PROJECT INSPECTION			
MCQUEEN 1	RESIDENT		
DMI 58-369	INSPECTOR 11/12	ON 11/11 AT 3:08 P.M. A BLOWN FUSE CAUSED THE INBOARD ISOLATION VALVE OF THE NUCLEAR WATER COOLING SYSTEM TO CLOSE. THE REACTOR WAS AT 498 POWER. THE CLOSURE OF THE VALVE RESULTED IN REACTOR COOLANT PUMP MOTOR/STARTER HEATUP AND CAUSED THE OPERATORS TO TRIP TWO OF FOUR RCP'S. SUBSEQUENTLY, WATER LEVEL IN THE STEAM GENERATOR SWELLED TO A 11-MI TRIP SETPOINT WHICH TRIPPED THE TURBINE, ISOLATED MAIN FEEDWATER FLOW AND STOPPED THE AUXILIARY FEEDWATER SYSTEM. THE REMAINING TWO OPERATING RCP'S WERE TRIPPED AT 3:28 P.M. WITH REACTOR POWER AT 38. AT THIS POINT THE REACTOR WAS TRIPPED AND NATURAL CIRCULATION WAS ESTABLISHED. MINIMUM SATURATION MARGIN WAS 86 DEGREES FAHRENHEIT. DURING REPLACEMENT OF THE BLOWN FUSE, A TEMPORARY POWER LOSS TO THE HVAC AND FIRE DETECTION ANNUNCIATOR PANELS WAS EXPERIENCED. ALL SYSTEMS ARE RESTORED AND THE REACTOR WAS RESTARTED AT 5:47 P.M.	FOLLOWUP PER MC 2515.
ST. LUCIE	1EING 11/9	THE ADVISORY COMMITTEE ON REACTOR SAFEGUARDS CONVENES TODAY ON THE ST. LUCIE 2 REQUEST FOR AN OPERATING LICENSE, WITH PARTICIPATION BY REGIONAL STAFF.	INFORMATION ONLY.
DMR 58-389			
BRAND GULF 1, 2	LICENSEE 11/10	CDR - TRANSAMERICA DELAVAL STANDBY DIESEL GENERATOR - AN INSPECTION OF THE DIESEL'S NO. 2 CYLINDER FOLLOWING OPERATIONAL TESTING SHOWED THAT ONE STUD AND THREE WASHERS WERE CRACKED. THE STUD AND WASHERS SECURE THE PISTON HEAD TO THE PISTON SKIRT AND WERE PURCHASED BY DELAVAL FROM WESTERN TOOL AND SUPPLY COMPANY, OAKLAND, CALIFORNIA. PART 21 IS APPLICABLE. REPORT DUE 12/10.	FOLLOWUP PER MC 2513. REGION IV NOTIFIED.
DMR 58-416			
DMR 58-417			

Transamerica Delaval



Transamerica Delaval Inc.
Engine and Compressor Division
550 85th Avenue
P.O. Box 2161
Oakland, California 94621
(415) 577-7400

059107

February 10, 1982

Bechtel Power Corporation
P. O. Box 1000
Ann Arbor, MI 48106

Attention: R. M. Collins

Subject: Standby Emergency Generators
P.O. 7220-M-18-AC
Engine S/N 77001/04

Reference: Your letter of December 23, 1981 to Wm. Dilworth

Gentlemen:

In accordance with the requirements of Title 10 Chapter 1, Code of Federal Regulations, Part 21, Transamerica Delaval Inc. notified the U. S. Nuclear Regulatory Commission of a potential defect in a component of DSRV or DSR standby diesel generators. A copy of the notification letter is attached for your reference. Also at that time, Transamerica Delaval has determined and notified the job sites which are affected. Consumers Power diesel engines are not among these affected jobs.

If this office can be of further assistance, please do not hesitate to contact us.

Very truly yours,

TRANSAMERICA DELAVAL INC.
Engine and Compressor Division

Lee Duck
Engineer, Customer Service

ncb

cc: B. G. Iversen, Chicago (TDI)

PROJ PROC MGR ANN ARBOR			
Date	FEB 18 1982		
Routing	In	Aut	Copy to
Purchasing			
Subcontracting			
Export			
Inspection			
Proj Proc			
Proj Mgr			
Proj Eng			
FILE			

SUPPLIER QUALITY DEPARTMENT ANN ARBOR, MICHIGAN DISTRIBUTION	
_____	SQR
_____	Dept. File
BRUCE SCHEDER	
7220-M-18	
DATE:	FEB 19 1982

659107

November 5, 1981

RECEIVED
NOV 5 1981
SERVICE DEPARTMENT

Director, Office of Inspection and Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Sir:

In accordance with the requirements of Title 10, Chapter 1, Code of Federal Regulations, Part 21, Transamerica Delaval, Inc., hereby notifies the Commission of a potential defect in a component of DSRV or DSR Standby Diesel Generator. There exists a potential problem with a spherical washer subassembly which is part of the piston assembly, which could result in engine non-availability.

Transamerica Delaval has supplied the DSR and DSRV engines with the potential defect to the following sites.

- 1) Long Island Lighting Co., Shorham Nuclear Power Station
S/N 74010/12 DSR6
- 2) Middlesouth South Energy, Grand Gulf Nuclear Station
S/N 74033/36 DSRV16
- 3) Southern California Edison, San Onofre
S/N 75041/42 DSRV20

These spherical washers were purchased from Western Tool and Supply, Oakland, California. The spherical washers were installed in the Piston Assembly by Transamerica Delaval.

The potential defect is improperly manufactured spherical washers. Spherical washers which have not been properly heat treated or machined incorrectly could fail prematurely. If the spherical washer fails, engine availability could be affected.

A copy of this letter will be sent to each of the cognizant parties listed in paragraph 2. Transamerica Delaval has a design available now which replaces the spherical washer design. The existing pistons can be modified to the new design. Information on this modification will be sent to each party mentioned in paragraph 2, when a copy of this letter is sent as mentioned above. Transamerica Delaval will furnish parts and technical services as requested, and in accordance with each individual contract.

059107

Director, Office of Inspection and Regulation
U.S. Nuclear Regulatory Commission
November 5, 1981

NOV 5 1981

SERIAL 2

Transamerical Delaval received information on a failure of a spherical washer piston assembly at Grand Gulf Nuclear Station on October 27, 1981.

The corrective action recommended to eliminate this potential problem is to replace the spherical washer design with the new design. We cannot estimate the completion date, since it will depend on the action taken by the engine users.

This report confirms an initial telephone call to Mr. R.T. Dodds, Region 5, Walnut Creek, California, on November 5, 1981.

Our evaluation of this matter was concluded on November 4, 1981.

Sincerely,

R E Boyer

R. E. Boyer, Manager
Quality Assurance

REB:lc

cc: Mr. R.T. Dodds
U.S. Nuclear Regulator Commission
1990 N. California Blvd.
Walnut Creek, CA 94596

Note to Service Dept.

You must send copies to each customer with a copy of SIH-324. Also you must notify Taiwan Power 75005-8 of this problem.

cc: S. Agocs
W. Hager
C. Mathews
D. H. Martini
G. E. Trussell
R. J. Pabors -Please send cc to Sales Office as RQP
V. Dilworth
G. Bergren
E. Dobrec
P. Pratt/M. Hartwig
E. Wilson
A. Barlich
A. Nance
L. Block
G. King
C. Carmichael

CC WRBird REWhitak
 MADIetrich ALAB-2
 BWMarguglio MLCurland
 DMTurnbull

QUALITY ACTION REQUEST

Priority: 2 Trend: PGMIAM SUS: N/A AI: S-1111 File: [REDACTED]

From: R E Whitaker		Site Q.A.		Job 7220		①
To: L H Curtis	② Control Document ref.: 7220-C-306Q Rev 8	③	QAR Ident. No.: F-129		④	
Action Requested: Specification 7220-C-306Q Rev 8 does not contain a requirement						⑤
(limitation) for proximity of abandoned holes or abandoned anchors to grouted anchor bolts.						
What is the justification for not including such a limitation? Is design or test data available for grouted anchor bolts that have abandoned holes or abandoned anchors (drop in, expansion, or grouted) within the zone affected by the grouted bolt?						
Signature: <i>RE Whitaker</i>		⑥	Date: 10/29/81	⑦	Reply Requested by: 12/1/81	⑧
Reply:						⑨
See response from L H Curtis to R C Hollar dated 12/29/81.						
Signature:		⑩	Date:		⑪	
Action Verified: <i>RE Whitaker</i>		⑫	Date: 3/11/82		⑬	

REWhaker
ALAB-2

QUALITY ACTION
REQUEST

ADVANCES COPY

➤ To: B. Marguglio
From: L.H. Curtis

Priority: 2 Trend: PGMLAM SUS: N/A AI: S-1111 File: 16.0

From: R E Whitaker 047557 Site O.A. Job 7220

To: L H Curtis	(2) Control Document ref: 7220-C-3060 Rev 8	(3) QAR Ident. No.: F-129	(4)
----------------	--	------------------------------	-----

Action Requested: Specification 7220-C-306Q Rev 8 does not contain a requirement

(limitation) for proximity of abandoned holes or abandoned anchors to grouted anchor bolts.

What is the justification for not including such a limitation? Is design or test data available for grouted anchor bolts that have abandoned holes or abandoned anchors (drop in, expansion, or grouted) within the zone affected by the grouted bolt?

Signature: PCW/b (6) Date: 10/29/81 (7) Reply Requested by: 12/1/81 (8)

Reply:

This is a complete response to the subject QAR.

(See Attachment)

Signature: <i>R.C. Halls for L.H. Curtis</i>	(10)	Date: 12-29-81
Action Verified:	(12)	Date:

The strength of grouted anchor bolts is controlled by the bond strength between the grout and the concrete interface. Therefore the allowable tension load of the grouted anchors are based on the grout concrete interface strength. The strength of concrete cone pull out calculated per ACI 349-80 Appendix B is approximately 3 times the grout concrete interface design strength. From this it may be inferred that approximately 2/3 of the area of the potential concrete pull out surface would have to be lost to the abandoned holes before the allowable tensile capacity of the bolt is affected. This is an unlikely event and is considered to be incredible, and hence it is concluded that abandoned holes will not affect the performance of the grouted anchor.

R.C. Hollar for

L.H. Curtis

cc: W. Bird
H. Desai
M. Elgaaly
R.C. Hollar
J. Horsch
J.C. Palmer
D. Scribner
S. Sobkowski
T. Speck
N. Eidsmoe

Written Response Requested: No

Com Use: Closes Com 047557

WRBird WTagerter
MADietrich
BWMarguglio
DMTurnbull
THYoung
ALAB-2

QUALITY ACTION REQUEST

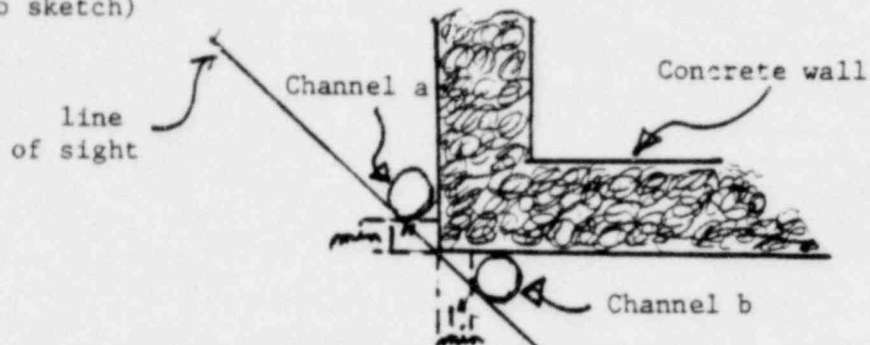
Priority: 2 Trend: K-3. (K-4) SUS: PGMLIY AI: S-1075

From: T H Young MPQAD - QAE (I&C)		1
To: L H Curtis	Control Document ref.: Rev 13 7220-J-218(Q)+SCN 13	QAR Ident. No.: F-118
Action Requested:		5
1) SCN 13 page 3 of 3 5.3.7a. indicates that 1-FT-302 and 1-FT-303 are O_c rather than Q_p . The example should be changed.		
2) The wording in 3.0 of the spec has had something added, deleted, or repeated regarding reference to Midland Project positions (lines 6-11). Please rewrite to clarify.		
3) Section 5.5.3a., b., and c. use wording such as: slightly convex; uniform height; uniform in width; smooth; and free of slag. For inspection purposes, limits must be either specified or referenced. It is understood that a similar question exists for spec C-304. The resolution for J-218 and C-304 should be similar.		
Signature: <i>Thomas H. Young</i>		(CONTINUED)
6	Date: 10/7/81	7 Reply Requested by: 10/22/81 8
Reply: Bechtel complete responses per Transmittal Number 161873 and Transmittal Number 162655. (For item 3 Bechtel response supplemented by discussion 3/2/82 between EUrbanawiz/THYoung regarding workmanship sample utilized during welding inspector training.)		
9		
10		
11		
12		
13		
Signature: See attached		Date: See attached.
Action Verified: <i>Thomas H. Young</i>		Date: 3/2/80

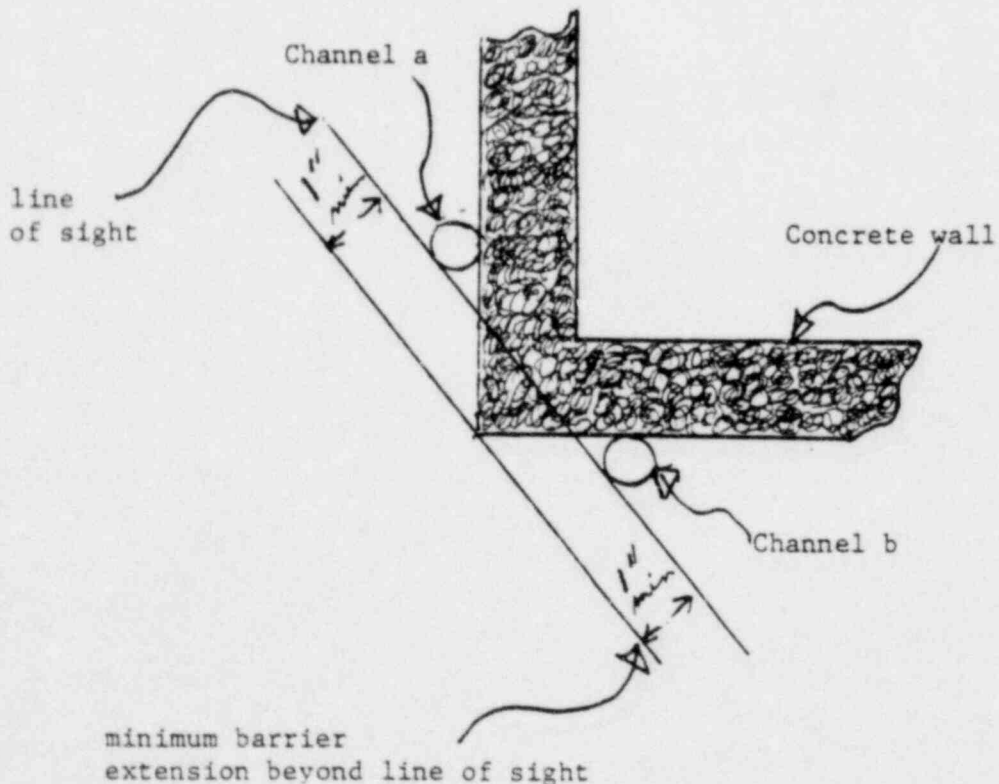
CONTINUED:

ACTION REQUESTED:

4. Section 3.3 $\sqrt{15.63}$ needs to be changed to $\sqrt{15.63 \Delta}$.
5. In 7.2 of Appendix A page A-13, second paragraph, the example indicates no torsion on L_3 . Deflection of L_1 would pull L_2 basically in the X direction placing torsion on L_3 unless L_1 and L_2 are so plastic that no moment is transmitted.
6. In Appendix B page B-1, the first example in 1) shows (line of sight added to sketch)



However, to have a barrier extending 1" beyond the line of sight per this specification, the sketch needs to show the wall extending 1" beyond the line of sight eg.:



ORIGINAL

REQUEST FOR FURTHER

TO: B.W. MARGUGLIO

ITEM NO.

ACTION PARTY

L H Curtis (RCHollar)

FROM: L.H. CURTIS

COMPANY

Bechtel

DOCUMENT FILE

16.0

REFERENCE DOCUMENT NO.

QAR F-118

10/7/81

RESPONSE DATE

TODAY'S DATE

MPQAD EVALUATOR

052003

PHONE NO.

11/30/81

12/7/81

T H Young

Ext 340 CPCo

EVALUATION OF EARLIER RESPONSE Responses to Items 1, 2, 4 and 6 are acceptable and closed.

Response to Item 3 is not acceptable. Further timely corrective action is required. (See

below). Item 5 is acceptable and will be closed when Rev 15 includes it.

ADDITIONAL DATA/ACTION REQUIRED The response to Item 3 must reflect ANSI N45.2 Part 6

which states "Quantitative criteria, such as dimensions, tolerances, and operating limits,

and qualitative criteria, such as workmanship samples, shall be specified, as appropriate

for determining satisfactory work performance and quality compliance". The Inspector's

DISTRIBUTION judgement is not acceptable as a basis of acceptance. He is to determine

whether or not items meet specified requirements which are given to him by

Design and QC Engineering.

SEE ATTACHED SHEET FOR PROJECT ENGINEERING'S COMPLETE RESPONSE.

☒ DISCUSSED WITH R C Hollar ON (DATE) 12/4/81

☐ NEXT REPLY AGREED TO BY (DATE)

☒ PLEASE REPLY BY (DATE) 12/23/81 GIVING DATE BY WHICH NEXT EXPECTED

FOURTEEN

DATE

12/7/81

PHONE 340

052083

This is project engineering's complete response. The following statements taken from various codes support the wording found in Bechtel specification 7220-J-213(Q).

NB 4424 of ASME 1971, including summer 1973 addenda states, "As welded surfaces are permitted ...however, the surface of welds shall be sufficiently free from coarse ripples, grooves, overlaps, abrupt ridges, and valleys to meet the following" ASME does not specify any limits or dimensions.

AWS D1.1-75, paragraph 3.10.1 states, "Slag shall be cleaned from all welds...."

API 1104, January 1977 states in section 3.3, "... it must present a neat workmanlike appearance." In section 4.82 and 4.92, "...the completed weld shall have a substantially uniform cross section...."

ANSI B31.1-73 paragraph 111.6.1 A, "...there shall be no valley or groove along the edge or in the center of the weld and the deposited metal shall be fused smoothly and uniformly into the surface. The finish of the welded joint shall be reasonably smooth and free from irregularities, grooves or depressions...." "...there will be no appreciable projection of weld metal past the inside surface."

AWWA C200-80, section 3.2, "The weld shall be of reasonably uniform width and height...." AWWA C206-75, paragraph 5.7.1, "The surface pass on groove welds shall be substantially central to the seam and all surface passes shall be reasonably smooth and free from depression." Paragraph 5.7.2, "...the finished fillet weld must be free of grooves, deep valleys, or ridges and contain no abrupt changes in section at the toe." Paragraph 5.7.3, "...have a throat profile that is straight to slightly convex...."

cc: W. Bird
J. Anderson
D. VanWagenen
R. Hollar
P. Perry
D. Taggart
J. Horsch
J. Serbowicz
D. Turnbull
C. Kost

R.C. Hollar
E.M. Hughes

1-20-82

Written Response Requested: No

Com Use: closes com 052083



161873

PLEASE RECEIPT AND RETURN
BLUE COPY IMMEDIATELY

ANN ARBOR

TRANSMITTAL FORM

DATE 11-20-81

* ACTION

SUBJECT

CODE

ACTION FOR VENDORS

1. ☐ WORK MAY PROCEED
2. ☐ WORK MAY PROCEED. SUBMIT FINAL DOCUMENT
3. ☐ REVISE AND RESUBMIT. WORK MAY PROCEED SUBJECT TO INCORPORATION OF CHANGES INDICATED
4. ☐ REVISE AND RESUBMIT. WORK MAY NOT PROCEED
5. ☐ REVIEW NOT REQUIRED. WORK MAY PROCEED
- ☐ FOR INFORMATION ONLY

ACTION FOR OTHERS

6. ☐ FOR APPROVAL
7. ☐ CONSTRUCTION
8. ☐ PRELIMINARY USE
9. ☐ REFERENCE
10. ☒ *QAR RESPONSE*

- ☐ BECHTEL DRAWINGS
- ☐ VENDOR DRAWINGS
- ☐ MATERIAL REQUISITION
- ☐ SPECIFICATIONS
- ☐ BID REQUEST
- ☐ QUOTATIONS
- ☐ PURCHASE ORDER
- ☐ CONFERENCE NOTES
- ☐ BID SUMMARY
- ☐ SUBCONTRACTS

B

V

MR

S

BR

Q

PO

CN

BS

SC

X

Y

ATTENTION VENDORS: ALL FINAL DRAWINGS SUBMITTED TO BECHTEL MUST BE CERTIFIED TRANSPARENCIES.

QTY	F.P. PREFIX	BECHTEL FOREIGN PR. NO.	REV. NO.	TITLE	VENDOR NO.	ACTION	CODE
	7220			<i>QAR E-118</i>			
				<i>E-118</i>			
				<i>E-118</i>			
				<i>E-118</i>			

CONSULTANT POWER COMPANY

RECEIVED

DEC 01 1981

FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

THIS COPY FOR →

APPROVED	<i>TUV</i>
RECEIVED	
DATE	
BY	
CHARGE FILE	<i>16.0</i>

COMMENTS:

D. TURNBULL

TO

D. TURNBULL
MPQAD CPCO
MIDLAND, JOBSITE

TRANSMITTAL
TYPE

- ☐ VENDOR PRINT
- ☐ OTHER

FROM

Bechtel Power Corp.
P.O. box 1000
777 E. Eisenhower Prkwy
Ann Arbor, Michigan 48106
Attn: Project Engineer
Job No. 7220

BY

LHC/CLB

TO: D. TURNBULL

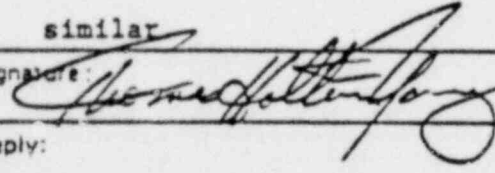
Y ACTION
QUEST

File: 16.0

FROM: L.H. CURTIS

ALAB-

Priority: 2 Trend: 48-348-4 SUS: PGMTIV AI: S-1075

From: T H Young MPOAD - OAE (I&C)		①	
To: L H Curtis	② Control Document ref.: Rev 13 7220-J-218(Q)+SCN 13	③ QAR Ident. No.: F-118	④
Action Requested:		⑤	
1) SCN 13 page 3 of 3 5.3.7a. indicates that 1-FT-302 and 1-FT-303 are Q _c rather than Q _p . The example should be changed.			
2) The wording in 3.0 of the spec has had something added, deleted, or repeated regarding reference to Midland Project positions (lines 6-11). Please rewrite to clarify.			
3) Section 5.5.3a., b., and c. use wording such as: slightly convex; uniform height; uniform in width; smooth; and free of slag. For inspection purposes, limits must be either specified or referenced. It is understood that a similar question exists for spec C-304. The resolution for J-218 and C-304 should be similar			
Signature: 		(CONTINUED)	
⑥	Date: 10/7/81	⑦ Reply Requested by: 10/22/81	⑧
Reply:		⑨	
This is project engineering's partial response (see attached page).			
Signature: R.C. Hall for L.H. Curtis		⑩ Date: 11/16/81	
Action Verified:		⑪ Date: ⑫	

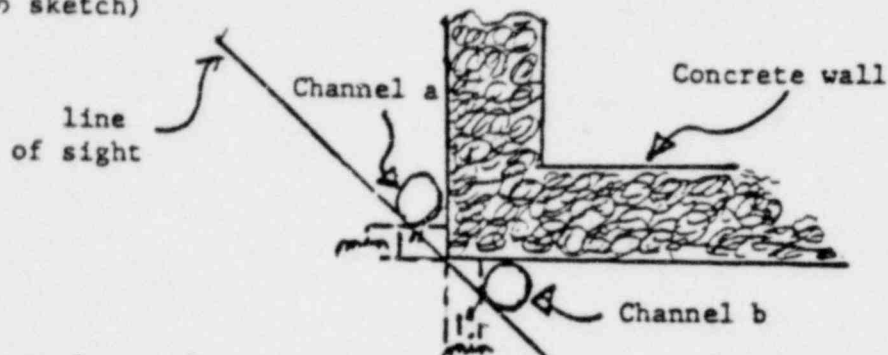
045081

045548

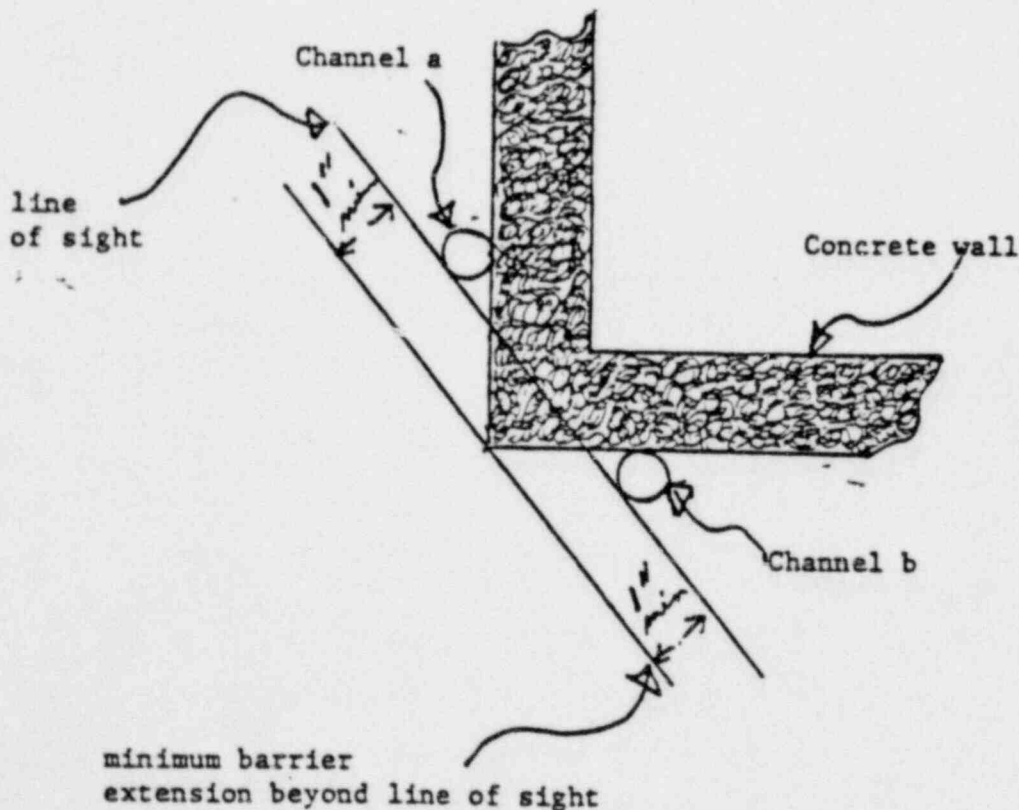
CONTINUED:

ACTION REQUESTED:

4. Section 3.3 $\sqrt{15.63}$ needs to be changed to $\sqrt{15.63\Delta}$.
5. In 7.2 of Appendix A page A-13, second paragraph, the example indicates no torsion on L_3 . Deflection of L_1 would pull L_2 basically in the X direction placing torsion on L_3 unless L_1 and L_2 are so plastic that no moment is transmitted.
6. In Appendix B page B-1, the first example in 1) shows (line of sight added to sketch)



However, to have a barrier extending 1" beyond the line of sight per this specification, the sketch needs to show the wall extending 1" beyond the line of sight eg.:



C45548

This is project engineering's partial response to QAR F-118.

Item 1 - This response closes Item 1.

Instrument Installation Summary 7220-J-705 and associated design criteria have 1FT-0302 and 1FT-0303 shown correctly as Q_F . No document changes are required.

Item 2 - This response closes Item 2.

Section 3.0 (lines 6-11) of Specification 7220-J-218, Rev 14, will read, ". . . see Midland project positions on required ANSI Standards and Regulatory guides as contained in the FSAR and Section 6.0 of this specification."

Item 3 - This item is still open.

Questions pertaining to Section 5.5.3a, b, and c of Specification 7220-J-218(Q) have been addressed to material and quality services (M&QS). Upon resolution, project engineering will close this item. Based on receipt of the M&QS response, project engineering's response will be provided by November 23, 1981.

Item 4 - This response closes Item 4.

Section 3.3 of Specification 7220-J-218 will be revised in Revision 14 to include delta symbol (i.e., $\sqrt{15.63\Delta}$).

Item 5 - This item is still open.

Questions pertaining to the significance of torsion on 3/8-inch tubing have been addressed to the stress group. Upon resolution, control systems can close this item. Based on receipt of the stress group response, project engineering's response will be provided by November 23, 1981.

Item 6 - This response closes Item 6.

The example sketch will be included in Revision 14 of Specification 7220-J-218(Q) to show the wall extending 1 inch beyond the line of sight. In addition, a reference to Section 5.3.7(b) of the specification will be made.

cc: J.M. Anderson
C. Chien
R.C. Hollar
C.M. Kost
P.F. Rimnac
D.P. VanWagenen
P. Perry

Written Response Requested: No

Com Use: NA

CC: R. C. Hollar
J. M. Anderson
P. A. Perry 045081
P. Rinnac
J. Horsch

QUALITY AC
REQUES

FROM: L.H. CURTIS

Priority: 2 Trend: 48548-4 SUS: PGMTTY AI: S-1075

From: T H Young MPQAD - QAE (I&C)		(1)
To: L H Curtis	(2) Control Document ref.: Rev 13 7220-J-218(Q)+SCN 13	(3) QAR Ident. No.: F-118
Action Requested:		(5)
1) SCN 13 page 3 of 3 5.3.7a. indicates that 1-FT-302 and 1-FT-303 are Q _c rather than Q _p . The example should be changed.		
2) The wording in 3.0 of the spec has had something added, deleted, or repeated regarding reference to Midland Project positions (lines 6-11). Please rewrite to clarify.		
3) Section 5.5.3a., b., and c. use wording such as: slightly convex; uniform height; uniform in width; smooth; and free of slag. For inspection purposes, limits must be either specified or referenced. It is understood that a similar question exists for spec C-304. The resolution for J-218 and C-304 should be similar		
Signature: <i>[Signature]</i>		(6) (CONTINUED)
Date: 10/7/81	(7) Reply Requested by: 10/22/81	(8)
Reply: This is project engineering's complete response. (see attached page)		
Written Response Requested: No		
Com Use: Closes Com 045081		
Signature: R.C. Hollar for L.H. Curtis		(10) Date: 11/18/81
Action Verified:		(12) Date:

045081

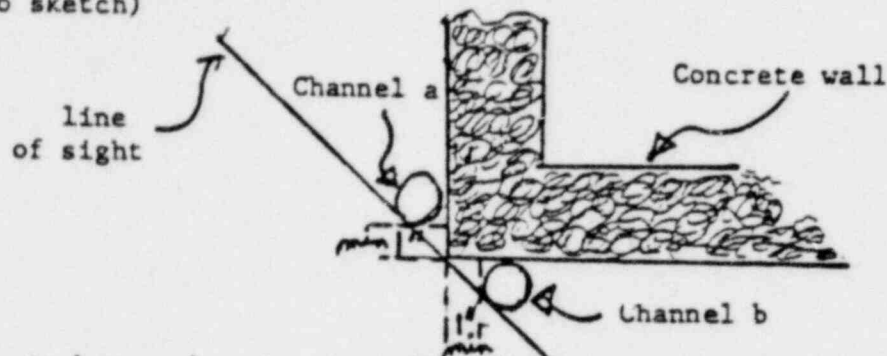
045548

Page 2 of 2
 QAR: F-118
 Date: 10/6/81

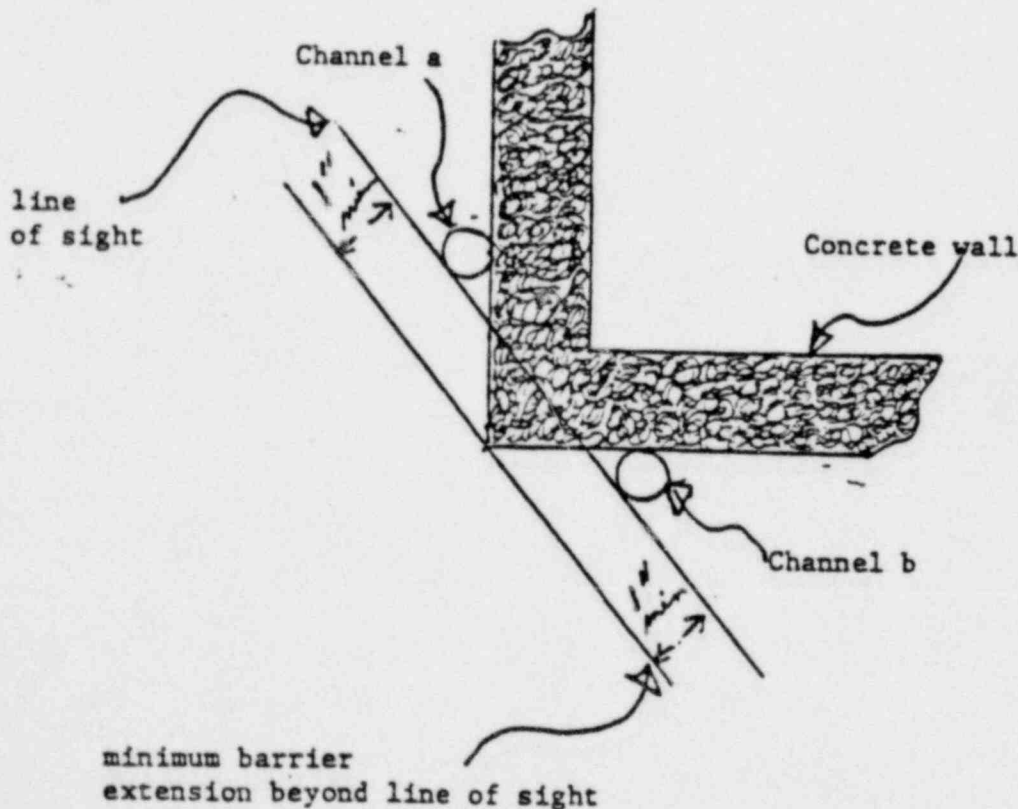
CONTINUED:

ACTION REQUESTED:

4. Section 3.3 $\sqrt{15.63}$ needs to be changed to $\sqrt{15.63\Delta}$.
5. In 7.2 of Appendix A page A-13, second paragraph, the example indicates no torsion on L_3 . Deflection of L_1 would pull L_2 basically in the X direction placing torsion on L_3 unless L_1 and L_2 are so plastic that no moment is transmitted.
6. In Appendix B page B-1, the first example in 1) shows (line of sight added to sketch)



However, to have a barrier extending 1" beyond the line of sight per this specification, the sketch needs to show the wall extending 1" beyond the line of sight eg.:



This is project engineering's complete response.

Item 3: No change to specification 7220-J-218 is necessary. The statements in section 5.5.3a, b and c supplement code visual inspection criteria and are left to the judgement of welding inspectors for each individual situation.

These same phrases have appeared in numerous Bechtel specifications internationally for years and many of these terms are quoted straight from the code without dimensions.

Item 5: A Bechtel staff support group has considered the torsional effects due to the situation described in 7220-J-218(Q) Rev 13, 7.2 of Appendix A, page A-13, second paragraph. The staff support group concluded that the small amount of torsion present in this situation certainly is not sufficient enough to be considered in a simplified approach to installing tubing. Project engineering has decided to delete section 7.2 on Revision 15 of specification 7220-J-218.

CC

WRBird
CAClien/KCH
MADietrich
BWMarguglio
MPQAD Routing
ALAB (2)

REBlackinton
JRDecker
HSGarcha
JLWood
DEHolthaus

QUALITY ACTION REQUEST

FILE: [REDACTED]

2-BNA, 1 & 2 KAC

Priority: 03

Trend: K-3

Start Up: 2-BNA, 2 EAC

AI: S-1018

From: RE Blackinton, MPQAD		(1)
To: LH Curtis, Proj Engineering	(2) Control Document ref.: M-204(Q), Rev 15	(3) QAR Ident. No.: F-111
Action Requested: Bechtel NCR Numbers 3636, 3547, 3501, 3502, 3572, 3224 and 3550 were dispositioned as minor permanent attachments by Project Engineering. MPQAD takes exception to Bechtel Project Engineering's disposition as follows: ASME Section III, NB 4435, defines minor permanent attachments as insulation supports, name plates or location lugs. Based upon this definition, MPQAD does not concur with Project Engineering's disposition. NA 4442.1 states in part: "...measures shall be established for identification and control of materials and parts including partially fabricated assemblies. Those measures shall assure that identification is maintained either on the item or on records traceable to the item (CONTINUED ON NEXT PAGE)		(5)
Signature: <i>REBLACKINTON</i> X551	(6) Date: 09/18/81	(7) Reply Requested by: 09/30/81
Reply:		(9)
See attached Transmittal #162327 for complete response and signature.		
Signature: See Attached Transmittal #162327		(10) Date: See attached T/N
Action Verified: <i>David E. Holthaus</i>		(12) Date: 2-2-82

QAR: F-111
FILE: 16.0

Action Requested (continued):

throughout manufacture or installation. These measures shall be designed to prevent the use of incorrect and defective items and items which have not received the required examination, test or inspection."

MPQAD requests that Project Engineering rescind the stipulation from Specification 7220-M-204(Q), Revision 15, Paragraph 4.1.2.



162327

PLEASE RECEIPT AND RETURN
BLUE COPY IMMEDIATELY

ANN ARBOR

TRANSMITTAL FORM

DATE 11-12-81

* ACTION

SUBJECT

CODE

ACTION FOR VENDORS

ACTION FOR OTHERS

- ☐ BECHTEL DRAWINGS
☐ VENDOR DRAWINGS
☐ MATERIAL REQUISITION
☐ SPECIFICATIONS
☐ BID REQUEST
☐ QUOTATIONS
☐ PURCHASE ORDER
☐ CONFERENCE NOTES
☐ BID SUMMARY
☒ SUBCONTRACTS
☒ QAR

B
V
MR
S
BR
Q
PO
CN
BS
SC
☒ X
Y

1. ☐ WORK MAY PROCEED.
2. ☐ WORK MAY PROCEED. SUBMIT FINAL DOCUMENT.
3. ☐ REVISE AND RESUBMIT. WORK MAY PROCEED SUBJECT TO INCORPORATION OF CHANGES INDICATED.
4. ☐ REVISE AND RESUBMIT. WORK MAY NOT PROCEED.
5. ☐ REVIEW NOT REQUIRED. WORK MAY PROCEED.
☐ FOR INFORMATION ONLY.

6. ☐ FOR APPROVAL
7. ☐ CONSTRUCTION
8. ☐ PRELIMINARY USE
9. ☐ REFERENCE
10. ☒ QAR Response

ATTENTION VENDORS: ALL FINAL DRAWINGS SUBMITTED TO BECHTEL MUST BE CERTIFIED TRANSPARENCIES.

QTY	F.P. PREFIX	BECHTEL FOREIGN PR NO	REV NO	TITLE	VENDOR NO	ACTION	CODE
	732			QAR-F-111		10 X	
				QAR-F-101		10 X	
				QAR-F-112		10 X	
				QAR-F-103		10 X	
CONSUMERS POWER COMPANY RECEIVED NOV 16 1981 FIELD QUALITY ASSURANCE MIDLAND, MICHIGAN							

COMMENTS:

ACTION PRINT	REB/JRD
INFO PRINTS	
AREA ROUTING	ONE
PRINT TO FILE	
ORIG TO FILE	16.0

TO
D. TURNBULL
MPPQAD-CPCO
10 DE AND Jobsite

FROM
P.O. Box 1000
777 E. Eisenhower Prkwy
Ann Arbor, Michigan 48106
Attn: Project Engineer
Job No. 7220

TRANSMITTAL
TYPE

- ☐ VENDOR PRINT
☐ OTHER

BY L.H. YLL

ORIGINAL

C WRBird REBlackinto
CAClien/KFH JRDecker
MASteffich HSGarcha
BWMarguglio JLWood
MPQAD Routing QEFile.
ALAB (2) JOAabel

043106

QUALITY ACTION REQUEST

FILE: 16.0

Priority: 03

Trend: K-3

Start Up: 2-BNA, 2 EAC

AI: S-1018

To:	D. Turnbull MPQAD		
From:	(2) LH Curtis, Proj Engineering	(2) Control Document ref.: M-204(Q), Rev 15	(3) CAR Ident. No.: F-111
Action Requested:	Bechtel NCR Numbers 3636, 3547, 3501, 3502, 3572, 3224 and 3550 were dispositioned as minor permanent attachments by Project Engineering.		
MPQAD takes exception to Bechtel Project Engineering's disposition as follows:			
ASME Section III, NB 4435, defines minor permanent attachments as insulation supports, name plates or location lugs. Based upon this definition, MPQAD does not concur with Project Engineering's disposition.			
NA 4442.1 states in part: "...measures shall be established for identification and control of materials and parts including partially fabricated assemblies. These measures shall assure that identification is maintained either on the item or on records traceable to the item (CONTINUED ON NEXT PAGE)			
Signature:	REBELT X551 (6)	Date: 09/18/81	(7) Reply Requested by: 09/30/81
Reply:	This is project engineering's complete response to the above QAR.		
Due to it's design and function, the leakchase channel may be considered as a minor permanent attachment, as discussed in ASME 1971 NB4435 (as stated in M&QS document review form dated 5/8/81, J. Stinehoff to R. Steigerwald)			
It should be noted that "Temporary or minor permanent attachments" are illustrated ("such as"), not "defined" (as stated in the QAR above) as " insulation supports, nameplates, and locating lugs...." in NB4435. For MPQAD to request that M-204 be changed "based upon this definition" is a misinterpretation of (Cont. on att. sheet)			
Signature:	R.C. Holla for L.H. Curtis (10)		Date: 11-6-81
Action Verified:	(12)		Date:

QAR: F-111
FILE: 16.0

043844

Action Requested (continued):

throughout manufacture or installation. These measures shall be designed to prevent the use of incorrect and defective items and items which have not received the required examination, test or inspection."

MPQAD requests that Project Engineering rescind the stipulation from Specification 7220-M-204(Q), Revision 15, Paragraph 4.1.2.

QAR F-111 Reply (Cont.)

the code. Therefore, no change to 7220-M-204(Q) rev. 15 para. 4.1.2 is required.

Written Response Requested: No
Com Use: Closes Com 043106

CC WRBird
DDCochran
MADietrich
BWMarguglio

DMTurnbull
ALAB-2

QUALITY ACTION REQUEST

Priority: 1 Do Not Trend

SUS: 2BBA, 2BNA

AI: S 1095

F: [REDACTED]

From:		D D Cochran		Site O.A.		Job 7220	
To:		L H Curtis		Control Document ref.: 7220-J-201		QAR Ident. No.: F-123	
Action Requested: States Terminal Blocks for schemes 2BQ410 and 2BQ193 are installed with their ends overlapping. Request Project Engineering evaluate the adequacy of this installation vice having the ends butted together and secured to panel wall. 2BQ410 and 2BQ193 are in Control Panel 2C14 in the Control Room. (Spec J-201).							
Signature:		<i>Danny Cochran</i>		Date: 10/20/81		Reply Requested by: 11/1/81	
Reply:		See attached Transmittal 164725 dated 1/18/82.					
Signature:		See attached Transmittal 164725 dated 1/18/82		Date:		See attached Trans #164725	
Action Verified:		<i>Danny Cochran</i>		Date:		2-13-82	



ANN ARBOR

TRANSMITTAL FORM

164725

PLEASE RECEIPT AND RETURN
BLUE COPY IMMEDIATELYDATE Jan 18, 82

* ACTION

SUBJECT

CODE

ACTION FOR VENDORS

ACTION FOR OTHERS

1. ☐ WORK MAY PROCEED.
2. ☐ WORK MAY PROCEED. SUP. DOCUMENT.
3. ☐ REVISE AND RESUBMIT. WORK MAY PROCEED SUBJECT TO INCORPORATION OF CHANGES INDICATED.
4. ☐ REVISE AND RESUBMIT. WORK MAY NOT PROCEED.
5. ☐ REVIEW NOT REQUIRED. WORK MAY PROCEED.
- ☐ FOR INFORMATION ONLY.

6. ☐ FOR APPROVAL
7. ☐ CONSTRUCTION
8. ☐ PRELIMINARY USE
9. ☐ REFERENCE

10. Quality Action
Request Response

- ☐ BECHTEL DRAWINGS
- ☐ VENDOR DRAWINGS
- ☐ MATERIAL REQUISITION
- ☐ SPECIFICATIONS
- ☐ BID REQUEST
- ☐ QUOTATIONS
- ☐ PURCHASE ORDER
- ☐ CONFERENCE NOTES
- ☐ BID SUMMARY
- ☐ SUBCONTRACTS

B

V

MR

S

BR

Q

PO

CN

BS

SC

X

Y

ATTENTION VENDORS: ALL FINAL DRAWINGS SUBMITTED TO BECHTEL MUST BE CERTIFIED TRANSPARENCIES

QTY.	F.P. PREFIX	BECHTEL FOREIGN PR. NO.	REV. NO.	TITLE	VENDOR NO.	ACTION	CODE
	2220			<u>QAR # F-123</u>			10 X
				<u>QAR # F-139</u>			10 X
				<u>S-1095</u>			

CONSUMERS POWER COMPANY

RECEIVED

JAN 21 1982

FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

THIS COPY FOR

ACTION PRINT	DDC
INFO PRINTS	
MPQA ROUTING	DATE
PRINT TO FILE	
ORIG TO FILE	16.8 JMC

COMMENTS:

B. MARGUGLIO

TO

B MARGUGLIO

MPQA

PCO

MIDLAND, JOBSITE

FROM

BAPCTRANSMITTAL
TYPE

- ☐ VENDOR PRINT
- ☐ OTHER

BY LAC/OEB

ORIGINAL

QUALITY ACTION REQUEST

046539

FROM: L.H. CURTIS

Priority: 1 Do Not Trend SUS: 2BBA, 2BNA AI: S 1095 File 16.0

From:		D D Cochran		Site Q.A.		Job 7220	
To:		L H Curtis		Control Document ref.: 7220-J-201		QAR Ident. No.: F-123	
Action Requested:							
States Terminal Blocks for schemes 2BQ410 and 2BQ193 are installed							
with their ends overlapping. Request Project Engineering evaluate the adequacy of							
this installation vice having the ends butted together and secured to panel wall.							
2BQ410 and 2BQ193 are in Control Panel 2C14 in the Control Room. (Spec J-201).							
Signature:		<i>Danny Cochran</i>		Date:		10/20/81	
				Reply Requested by:		11/1/81	
Reply: This is project engineering's complete response. The states terminal blocks							
may be mounted with the ends butted together using two common mounting screws to hold							
the butted ends and another two mounting screws to hold the free end. Based on							
information from control system resident engineer, J. Mayer, field has corrected the							
problem indicated in QAR F-123 during the field modification for panel 2C14, under							
FMP No. 290-1.							
cc: W. Bird R. Hollar							
J. Andersor J. Horsch							
D. Sacqueton D. Taggart							
C. Kost D. Turnbull							
P. Perry							
Written Response Requested: No							
Com Use: N/A							
Signature:		<i>R.C. Hollar for EM Hughes</i>		Date:		1-14-82	
Action Verified:				Date:			

MA Dietrich
HP Leonard
ZM Marguglio
GE Parker

QUALITY ACTION
REQUEST

FILE: 16.0, 12.153
OLD TREND: N-1
NEW TREND: N-6

AI: S988 SUS: Indeterminate Priority: 5

From: WADoig/TWTate MPQAD-HVAC Site O.A. Job 7220		1
To: LHCurtis	(2) Control Document ref.: Drawing C-847(Q) Rev 7	(3) QAR Ident. No.: F-105
Action Requested: Provide clarification of weld requirements for turning vane welding using weld symbols in accordance with AWS A2.4-79 i.e.;		5
1) On the Double Vane Detail, the runner to vane weld symbol "arrows" and "XX's" show weld location on the long radius (R) which		
A) Conflicts with note #2 that specifies weld location on the short radius (R ₁) and		
B) Conflicts with Typical Double Vane Square Throat Elbow detail which requires a fillet weld all around in the same location.		
2) On the Double Vane Detail, the runner to sleeve weld is required		
Signature: <i>[Signature]</i> 9-9-81	(6) Date: 9/09/81	(7) Reply Requested by: 9/30/81
Reply:		
DCN No. 6 to drawing C847(Q) clarifies and answers the three questions asked by this QAR. This DCN was received February 9, 1982		
This QAR is considered closed.		
Signature: DCN No. 6		
Action Verified: <i>[Signature]</i> EJ Riley		(10) Date: February 9, 1982
		(12) Date: February 15, 1982

to be a 1/8" fillet, 1/2" on 4" CC on the arrow side of the joint with a continuous fillet on the other side of the joint, another weld symbol for the same location requires welding in accordance with note #1. Also, it is not possible to place a 1/8" fillet in the specified location due to the material thickness of the runner (14 ga.0785 or 16 ga.0635).

It is recommended that the discrepancy be corrected by a revision to C-847, reflecting an acceptable design for welding these joints and in addition, identifying any other previously specified weld designs which are also acceptable for use as alternates.

CPCo

Open CAR's

CORRECTIVE ACTION REPORT

Page 1 of 1

Unit S/U System Discip Serial
0 - K E C - M - 001

(2) Description

Part list revision (L-20777 Rev D) provided in PAR Technical Manual (7220-M96-31-2) for the New Fuel Elevator does not correspond to the current Drawing revision (7220-M96-18-5/A-20777 Rev J) or current parts list provided under separate cover (7220-M96-17-4/L-20777 Rev J).

(v) Contd on Attachment

(3) Recommended Corrective Action

Revise the New Fuel Elevator Technical Manual (7220-M96-31) to update the identified parts list.

Due Date

0110182

(v) Contd on Attachment

(4) Related Documents and References

- ① Supplier Document 7220-M96-31-2 New Fuel Elevator Technical Manual
- ② Supplier Document 7220-M96-17-4 / L-20777 Rev J
- ③ Supplier Document 7220-M96-18-5/A-20777 Rev J

(5) Deficiency

- ☐ Design Chg
- ☐ Retest Only
- ☐

(6) Initial Action

B.P.D

Subsequent Action

C.P.C

(7) Category

0.2

Cause

0.1

Retest Req'd

☐ Yes ☒ No

Q-Listed

☒ Yes ☐ No

(8) NRC Reportability 10 CFR 50.55(e)/10 CFR 21

- ☒ Not Reportable *J. Walton 7/8/81*
- ☐ Reportable; MPOA Notified

(9) Signature

Orig:

FE/TE:

PS/PTS:

Name

Time/Date

Date

Time

(10) Corrective Action or Response:

New Fuel Elevator parts list L-20777 Rev.J was submitted by the vendor 9/18/81 (com. 042835) and was incorporated into the technical manual as 7220-M96-31-3. Therefore, this CAR is considered to be closed and implemented. No further action required.

Action Organization Representative

Date

(11) Retest Complete

TE: N/A

Completion Review Signature

FE/TE:

MPOA:

PS/PTS:

Date

Date

Date

Date

(v) Contd on Attachment

2 - F H A - E - 001

PLASTIC LAMINATE I.D. STRIP IS BROKEN
ON STATES BLOCK OTB11 COLUMN 274
BUS 2817

REPLACE BROKEN I.D. STRIP

EG 88(8)2

(11) Retest Complete TE: <u>VIA</u>	Date -
Completion Review Signature QA: <u>[Signature]</u> FE/TE: <u>[Signature]</u> PS/PTS: <u>[Signature]</u>	Date 7/8/81 3/11/81 3/15/81

CORRECTIVE ACTION REPORT

Page 1 of 1

Unit	S/U System	Discip	Serial
1			

② Description THE O-LOTTED BREAKERS IN CUBICLES 135539 (SYN DEGRADATION) FAILED THE MAGNETIC TEST POINT TEST USING THE HEL HIGH CURRENT TEST SET. THE CPCC SYSTEM PROTECTION SETTING SHEET SPECIFIED A TEST POINT AT 1100A IN 4 CYCLES OR LESS.

(v) Contd on Attachment

③ Recommended Corrective Action REPLACE THE O-LOTTED BREAKERS WITH O-LOTTED, 113200, 1100A FRAME TYPE THE BREAKERS.

Due Date

11	11	11	11	11	11
11	11	11	11	11	11
11	11	11	11	11	11

(v) Contd on Attachment

④ Related Documents and References CPCC SYSTEM PROTECTION SETTING SHEET FOR CUBICLES 135539 AND 135540 E-97 (0) SH. 3 REV 7

<p>⑤ Deficiency</p> <p><input type="checkbox"/> Design Chg</p> <p><input type="checkbox"/> Retest Only</p> <p><input type="checkbox"/> _____</p>	<p>⑥ Initial Action</p> <p><u>E.C.D</u></p> <p>Subsequent Action</p> <p><u>E.C.D</u></p> <p><u>C.F.T</u></p>	<p>⑦ Category</p> <p><u>0.1</u></p> <p>Cause</p> <p><u>2.2</u></p> <p>Retest Req'd</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Q-Listed</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>⑧ NRC Reportability 10 CFR 50.55(e)/10 CFR 21</p> <p><input checked="" type="checkbox"/> Not Reportable</p> <p><input type="checkbox"/> Reportable; MPQA Notified</p> <p>Name _____ Time/Date _____</p> <p>⑨ Signature <u>[Signature]</u> Date <u>2-5-83</u> Time <u>1400</u></p> <p>Orig: _____</p> <p>FE/TE: <u>[Signature]</u> Date <u>2-5-83</u> Time <u>1130</u></p> <p>PS/PTS: <u>[Signature]</u> Date <u>2/15/83</u></p>
--	--	--	--

⑩ Corrective Action or Response:

Action Organization Representative

Date

⑪ Retest Complete	Date
TE: _____	
Completion Review Signature	Date
FE/TE: _____	
MPQA: _____	
PS/PTS: _____	

(v) Contd on Attachment

CORRECTIVE ACTION REPORT

Page 1 of 1

Unit S/U System Discip Serial

1 0 - K A A - E - 1115

- 2 Description There is improperly done RayChem heat shrink tubing on splices in the termination head of Air Compressor OK90B. This condition was found on both the 480 volt feeder cable splice and the 120 volt heater cable splice. Bechtel had been made aware of this type of problem prior to when these splices were done. (25 Jan 82) Reference: CAR. 0-PPE-E-003. This case has been rectified. The cables were determined and reterminated in accordance with RayChem recommended procedures. Redoing splices is a very costly and time consuming job.

CAR 0-PPE-E-003 WAS CLOSED OUT & COMPLETED PRIOR TO ABOVE TERMINATION BEING ACCOMPLISHED & THIS CAR INITIATED 3/3/82

(v) Contd on Attachment

- 3 Recommended Corrective Action 1. Ensure Bechtel incorporates applicable sections of RayChem procedures in their terminating/splicing procedures.

Due Date

06/01/82

2. Ensure Bechtel craft and field personal are aware of and follow these procedures.

(v) Contd on Attachment

4 Related Documents and References

1. Applicable RayChem procedures for application of heat shrink tubing. (attached)

2. Closed CAR OPPE-E-003

5 Deficiency

☐ Design Chg☐ Retest Only☐ _____

6 Initial Action

B.P.C.

Subsequent Action

7 Category

0.7

Cause

1.2

Retest Reqd

☐ Yes ☒ No

Q-Listed

☒ Yes ☐ No

8 NR: Reportability 10 CFR 50.65(e)/10 CFR 21

☒ Not Reportable☐ Reportable; MPQA Notified

Name

Time/Date

9 Signature

Orig:

FE/TE:

PS/PTS:

D. J. Valley D.V. 2-3-82 13:55
K. L. Hite K.L.H. 3/1/82 13:50

2745
13:55
13:50

10 Corrective Action or Response:

Action Organization Representative

Date

11 Retest Complete

Date

TE:

Completion Review Signature

Date

FE/TE:

MPQA:

PS/PTS:

(v) Contd on Attachment

CORRECTIVE ACTION REPORT

Page 1 of 1

Unit	S/U System	Discip	Serial
① 2	P.N.A	E	0.04

- ② Description: The Q listed breaker in cubical 2B3339 failed the magnetic test point test using the EFL High current test set. CPSC system protection setting sheet spaced at 1100A in 4 cycles of lock.

(v) Contd on Attachment

- ③ Recommended Corrective Action: Replace breaker with Q listed, HE 3B040 100,000A frame type TM.

Due Date:

04/08/82

(v) Contd on Attachment

- ④ Related Documents and References: EFL system protection setting sheet.

⑤ Deficiency <input checked="" type="checkbox"/> Design Chg <input type="checkbox"/> Retest Only	⑥ Initial Action G.P.D. Subsequent Action A.P.D. C.P.S.T.	⑦ Category G.C. C.A.S. P.R. Retest Req. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No OE Listed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	⑧ NRC Reportability 10 CFR 50.55(a)/10 CFR 21 <input checked="" type="checkbox"/> Not Reportable <i>at all</i> 3/8/82 <input type="checkbox"/> Reportable: MPOA Notified	
			⑨ Signature Original: <i>[Signature]</i> Date: 3/8/82 Time: 1200 FE/TE: <i>[Signature]</i> Date: 3/8/82 Time: 1200 PS/PTS: <i>[Signature]</i> Date: 3/8/82 Time: 1200	

- ⑩ Corrective Action or Response:
- Action Organization Representative: _____
Date: _____

⑪ Retest Complete	Date
TE: _____	Date
Completion Review Signature	Date
FE/TE: _____	Date
MPOA: _____	Date
PS/PTS: _____	Date

(v) Contd on Attachment

CORRECTIVE ACTION REPORT

Page 1 of 1

Unit

S/U System

Discip

Serial

① 0 - P.H.M. - E - 002

② Description

The schematic indicates a condition of the Breaker operation that has been functionally verified to exist. The reference logic diagram for this schematic is not in agreement with the actual condition. Additionally, there is a question in regard to the intent of the design and the proper operation of the control circuit. #44

Note! A SCRE_A was initiated to evaluate the reportability of this CAR

(v) Contd on Attachment

③ Recommended Corrective Action

Review and correct.

Due Date

04/01/82

(v) Contd on Attachment

④ Related Documents and References

E-83 SH-3A Rev-4
J-891 SH-3 Rev-1

⑤ ☒ Deficiency☐ Design Chg☐ Retest Only☐ _____

⑥ Initial Action

B.P.D

Subsequent Action

C.P.T

⑦ Category

07

Cause

03

Retest Req'd

☐ Yes ☒ No

Q-Listed

☒ Yes ☐ No⑧ NRC Reportability 10 CFR 50.55(e)/10 CFR 21, 90-A 3/3☐ Not Reportable ali al-Digaili 3/1/82☒ Reportable; MPQA Notified 1230 3/4/82

Name Time/Date

⑨ Signature Orig: ali al-Digaili 3/1/82 1300FE/TE: ali al-Digaili 3/1/82 1300PS/PTS: [Signature] 3/4/82 1230

⑩ Corrective Action or Response:

Action Organization Representative

Date

⑪ Retest Complete

Date

TE:

Completion Review Signature

Date

FE/TE:

MPQA:

PS/PTS:

(v) Contd on Attachment

CORRECTIVE ACTION REPORT

Page 1 of 1

Unit 0 - S/U System P H N - Discip E - Serial 002

2 Description

The schematic indicates a condition of the Breaker operation that has been functionally verified to exist. The reference logic diagram for this schematic is not in agreement with the actual condition. Additionally, there is a question in regard to the intent of the design and the proper operation of the control circuit.

Note: A SCRE⁴⁴ WAS initiated to evaluate the reportability of this CAR.

(v) Contd on Attachment

3 Recommended Corrective Action

Review and correct.

Due Date

04/01/82

(v) Contd on Attachment

4 Related Documents and References

E - 83 SH. 3A Rev. 4
J - 891 SH. 3 Rev. 1

5 ☒ Deficiency

- ☐ Design Chg
☐ Retest Only
☐ _____

6 Initial Action

B, P, D

Subsequent Action

C, P, T

7 Category

0.7

Cause

0.3

Retest Req'd

☐ Yes ☒ No

Q-Listed

☒ Yes ☐ No

8 NRC Reportability 10 CFR 50.55(e)/10 CFR 21, A.O.A. 3/12

☒ Not Reportable ~~ali al-Diyabi 3/1/82~~☒ Reportable; MPQA Notified ~~W. Ross 12/3/4/82~~

Name Time/Date

9 Signature

Orig: ali al-Diyabi 3/1/82 1230

FE/TE: ali al-Diyabi 3/1/82 1200

PS/PTS: 3/4/82 1230

10 Corrective Action or Response:

Action Organization Representative

Date

11 Retest Complete

Date

TE:

Completion Review Signature

Date

FE/TE:

MPQA:

PS/PTS:

(v) Contd on Attachment

CORRECTIVE ACTION REPORT

Page 1 of 1

Unit	S/U System	Discip	Serial
① 0	4PE	E	004

② Description

SCREWS AT BOTTOM OF FRONT PANEL OF 0X93
ARE STRIPPED OUT.

(✓) Contd on Attachment

③ Recommended Corrective Action

RETAP HOLES & INSTALL NEW SCREWS.

Due Date:

0	3	1	5	8	2

(✓) Contd on Attachment

④ Related Documents and References

E 97 SH.1 REV. 4

⑤ ☒ Deficiency☐ Design Chg☐ Retest Only☐ _____

⑥ Initial Action

C.I.O.M

Subsequent Action

E.C.O

C.P.T

⑦ Category

E.O

Cause

H.O

Retest Req'd

☐ Yes ☒ No

Q-Listed

☒ Yes ☐ No

⑧ NRC Reportability 10 CFR 50.55(e)/10 CFR 21

☒ Not Reportable de al - Dugali 2/23/82☐ Reportable; MPQA Notified _____

Name _____ Time/Date _____

⑨ Signature

Orig: D. SartainFE/TE: de al - DugaliPS/PTS: de al - Dugali

Date

Time

1-28-82

1600

2/23/82

1015

2/23/82

1030

⑩ Corrective Action or Response:

Action Organization Representative

Date _____

⑪ Retest Complete	Date
TE: _____	
Completion Review Signature	Date
FE/TE: _____	
MPQA: _____	
PS/PTS: _____	

(✓) Contd on Attachment.

CORRECTIVE ACTION REPORT

Page 1 of 1

Unit	S/U System	Discip	Serial
10	2-1-1	2	

② Description: THE SCRM SWITCH BARGE IN ACIS
IS BENT.

(✓) Contd on Attachment

③ Recommended Corrective Action

1. REPAIR OR REPLACE THE SCRM
SWITCH.

Due Date

0	3	2	1	2	2

(✓) Contd on Attachment

④ Related Documents and References

ESS 513 R.6

⑤ Deficiency

☐ Design Chg☐ Retest Only☐ _____

⑥ Initial Action

C.O.M

Subsequent Action

E.C.O

C.P.T

⑦ Category

C.1.6

Cause

2.1.2

Retest Reqd

☐ Yes ☒ No

Q-Listed

☒ Yes ☐ No

⑧ NRC Reportability 10 CFR 50.55(e)/10 CFR 21

☒ Not Reportable 2/15/82☐ Reportable; MPQA Notified _____

⑨ Signature

Orig: [Signature] 2/15/82 10:35FE/TE: [Signature] 2/17/82 10:15PS/PTS: [Signature] 2/17/82 10:35

⑩ Corrective Action or Response:

Action Organization Representative

Date

⑪ Retest Complete	Date
TE: _____	
Completion Review Signature	Date
FE/TE: _____	
MPQA: _____	
PS/PTS: _____	

(✓) Contd on Attachment

CORRECTIVE ACTION REPORT

Page 1 of 1

Unit	S/U System	Discip	Serial
1	1	1	1

2 Description

Control print E97 (Q) SH/H Rev 5 does not show any ground connection on X2 of Transformer CX95. There should be a ground connection at this point. Ground was installed with Temporary alteration.

(v) Contd on Attachment

3 Recommended Corrective Action

Due Date

Correct print to show a ground connection on X2 of Transformer CX95. Make Temporary alteration permanent.

(v) Contd on Attachment

4 Related Documents and References

E97(Q) SH/H Rev 5

5 Deficiency

☒ Design Chg

☐ Retest Only

6 Initial Action

B.P.D.

Subsequent Action

C.P.T.

7 Category

0.3

Cause

0.7

Retest Req'd

☐ Yes ☒ No

Q-Listed

☒ Yes ☐ No

8 NRC Reportability 10 CFR 50.55(e)/10 CFR 21

☒ Not Reportable See al - Design 2/23/81

☐ Reportable; MPQA Notified

Name Time/Date

9 Signature

Orig:

FE/TE:

PS/PTS:

Date

Time

10 Corrective Action or Response:

Action Organization Representative

Date

11 Retest Complete

TE:

Completion Review Signature

FE/TE:

MPQA:

PS/PTS:

Date

Date

(v) Contd on Attachment

CORRECTIVE ACTION REPORT

Page 1 of 1

Unit

S/U System

Discip

Serial

② Description

THE BARK OPERATOR IN BOMB 6045-15
IS BROKEN.

(✓) Contd on Attachment

③ Recommended Corrective Action

Due Date

2/23/83

1. REPLACE THE BARK OPERATOR.
2. ECO TO Recheck.

(✓) Contd on Attachment

④ Related Documents and References

VA 7225-E7
E8E SIA 23

⑤ Deficiency

☐ Design Chg☐ Retest Only☐ _____

⑥ Initial Action

C.O.M

Subsequent Action

E.C.O

C.I.P.T

⑦ Category

2.6

Cause

2.2

Retest Req'd

☐ Yes ☒ No

Q-Listed

☒ Yes ☐ No

⑧ NRC Reportability 10 CFR 50.55(e)/10 CFR 21

☒ Not Reportable Ali M. Dugali 2/23/83☐ Reportable; MPQA Notified _____

Name:

Time/Date

⑨ Signature

Orig:

FE/TE: Ali M. Dugali 2/23/83 10:00PS/PTS: Ali M. Dugali 2/23/83 1040

⑩ Corrective Action or Response:

Action Organization Representative

Date

⑪ Retest Complete

Date

TE:

Completion Review Signature

Date

FE/TE:

MPQA:

PS/PTS:

(✓) Contd on Attachment

CORRECTIVE ACTION REPORT

Page _____ of _____

1	Unit	S/U System	Discip	Serial

2 Description

(✓) Contd on Attachment

3 Recommended Corrective Action

Due Date

(✓) Contd on Attachment

4 Related Documents and References

5 ☐ Deficiency

☐ Design Chg

☐ Retest Only

☐ _____

6 Initial Action

Subsequent Action

7 Category

Cause

Retest Reqd
☐ Yes ☐ No

Q-Listed
☐ Yes ☐ No

8 NRC Reportability 10 CFR 50.55(e)/10 CFR 21

☐ Not Reportable

☐ Reportable; MPQA Notified

Name Time/Date

9 Signature

Orig:

FE/TE:

PS/PTS:

Date Time

10 Corrective Action or Response:

Action Organization Representative

Date

11 Retest Complete

Date

TE:

Completion Review Signature

Date

FE/TE:

MPQA:

PS/PTS:

(✓) Contd on Attachment

CORRECTIVE ACTION REPORT

Page 1 of 1

1	Unit	S/U System	Discip	Serial
	E	K.F.I.	E	C.C.C.

2 Description: THE TWO MOST COMMON AND THE MOST PROBABLY CAUSE FOR THE COVER OPEN/CLOSE INDICATOR

(v) Contd on Attachment

3 Recommended Corrective Action: NOTICE THE COVER, REPLACE THE COVER OR REMOVE THE COVER SO THAT THE COVER OPEN/CLOSE INDICATOR CAN BE SEEN

Due Date

(v) Contd on Attachment

4 Related Documents and References: NP 7220-E7

5 Deficiency	6 Initial Action	7 Category	8 NRC Reportability 10 CFR 50.55(e)/10 CFR 21
<input type="checkbox"/> Design Chg	<input type="checkbox"/> Subsequent Action	<input type="checkbox"/> Cause	<input checked="" type="checkbox"/> Not Reportable
<input type="checkbox"/> Retest Only	<input type="checkbox"/> Retest Req'd	<input type="checkbox"/> Q-Listed	<input type="checkbox"/> Reportable; MPOA Notified
<input type="checkbox"/>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	9 Signature
			Orig: [Signature]
			EE/TE: [Signature]
			PS/PTS: [Signature]
			Name
			Time/Date
			Date
			Time

10 Corrective Action or Response:

Action Organization Representative

Date

11 Retest Complete	Date
TE:	
Completion Review Signature	Date
FE/TE:	
MPQA:	
PS/PTS:	

(v) Contd on Attachment

CORRECTIVE ACTION REPORT

Page 1 of 1

Unit	S/U System	Discip	Serial
1	P.P.G.	E	01015

2 Description

Found improper application of Ray Chem heat shrink tubing on
splices in transformer CX 95 400V CONNECTION.

[Signature]
2/FEB/82

(v) Contd on Attachment

3 Recommended Corrective Action

Cut off heat shrink tubing and redo according to
Ray Chem procedures

Due Date

0	1	2	3	4	5	6	7	8	9	10	11	12

(v) Contd on Attachment

4 Related Documents and References

Applicable Ray Chem procedures for application of heat
shrink tubing.

5 Deficiency

☐ Design Chg

☐ Retest Only

☐ _____

6 Initial Action

G.O.M.

Subsequent Action

E.C.O.

C.I.P.T.

7 Category

P.T.

Cause

1.2

Retest Reqd

☐ Yes ☒ No

Q-Listed

☒ Yes ☐ No

8 NRC Reportability 10 CFR 50.55(e)/10 CFR 21

☒ Not Reportable per 21.23(b)(1) 2/23/82

☐ Reportable; MPQA Notified _____

Name _____ Time/Date _____

9 Signature

Orig: D. Whalley Date 2-23-82 Time 0730

FE/TE: John A. Dwyer Date 2-23-82 Time 1055

PS/PTS: [Signature] Date 2/23/82 Time 1145

10 Corrective Action or Response:

Action Organization Representative

Date _____

11 Retest Complete	Date
TE: _____	
Completion Review Signature	Date
FE/TE: _____	
MPQA: _____	
PS/PTS: _____	

(v) Contd on Attachment

CORRECTIVE ACTION REPORT

Page 1 of 1Unit 0 - S/U System P.P.F. - Discip E - Serial 0104

② Description

Found improper application of Ray Chem heat shrink tubing on splices in transformer OX 94 480V connection

(v) Contd on Attachment

③ Recommended Corrective Action

cut off heat shrink tubing and re do according to Ray Chem procedures

Due Date

03/31/82

(v) Contd on Attachment

④ Related Documents and References

Applicable Ray Chem procedures for application of heat shrink tubing

⑤ ☒ Deficiency☐ Design Chg☐ Retest Only

⑥ Initial Action

COM

Subsequent Action

E.C.O

C.P.T

⑦ Category

0.7

Cause

1.2

Retest Req'd

☐ Yes ☒ No

Q-Listed

☒ Yes ☐ No

⑧ NRC Reportability 10 CFR 50.55(e)/10 CFR 21

☒ Not Reportable As it is - 2/23/82☐ Reportable; MPQA Notified

Name

Time/Date

⑨ Signature

Orig:

FE/TE:

PS/PTS:

D. L. Valley

Date

Time

1-29-82

0800

2/23/82

1100

2/23/82

1145

⑩ Corrective Action or Response:

Action Organization Representative

Date

⑪ Retest Complete

Date

TE:

Completion Review Signature

Date

FE/TE:

MPQA:

PS/PTS:

(v) Contd on Attachment

Page _____ of _____

Serial

2 Description This is a regulator system consisting of a control valve, which is actuated by an air line, and a control panel. The control panel is actuated by the air line, and the control panel is actuated by the air line (ASTF) actuated duct. Space for personnel passage is not less than 10 inches.

③ Recommended Corrective Action: Either reposition the carrier, or if a partial tunnel is possible, reposition the vertical duct to permit freer access between the pump and duct.

[illegible]

④ Related Documents and References

20-2 - NRCG - 2155 - 7-1, 2400-2 - Roger Day, 22-7-1-17 - New Mexico
Program, G.E.

114 *Journal of Management Inquiry* 16(1)

Response:

Q-Listed
☒ Yes ☐ No

Time/Date

PS/PTS: 600A-178-1

--	--

(10) Corrective Action or Response:

Date _____

Date _____

Date _____

PS/PTS

(✓) Contd on Attachment

PS/PTS

CORRECTIVE ACTION REPORT

Page 1 of 1

Unit

S/U System

Discip

Serial

①

2G.S.B.E2114

- ② Description The position switches for 2MO-6254 & 2MO-2FV-6244 (E-440-28) are such that the hydrogen vent exhaust fan could not run (E-440-20) because contacts would open when the discharge damper opened.

(v) Contd on Attachment

- ③ Recommended Corrective Action Change ZS Development for 2MO-6254 & 2FV-6244 by making the ZS for 2MO-6254 the same as 1MO-5354 and making the ZS for 2FV-6244 the same as 1FV-5344

Due Date

08/01/82

(v) Contd on Attachment

- ④ Related Documents and References E-440 sh 27 Rev 4
E-440 sh 28 Rev 4
E-440 sh 20 Rev 4

- ⑤ ☒ Deficiency

☐ Design Chg☐ Retest Only☐ _____

- ⑥ Initial Action

B.P.D.

Subsequent Action

- ⑦ Category

2.6

Cause

0.3

Retest Reqd

☐ Yes ☐ No

Q-Listed

☒ Yes ☐ No

- ⑧ NRC Reportability 10 CFR 50.55(e)/10 CFR 21

☒ Not Reportable Dean A Bruck☐ Reportable; MPQA Notified

Name

Time/Date

- ⑨ Signature

Orig: Dean A Bruck

Date

Time

FE/TE: DA Bruck LMM

Date

Time

PS/PTS: DA Bruck

Date

Time

- ⑩ Corrective Action, or Response:

Action Organization Representative

Date

- ⑪ Retest Complete

Date

TE:

Completion Review Signature

Date

FE/TE:

MPQA:

PS/PTS:

(v) Contd on Attachment

CORRECTIVE ACTION REPORT

Page 1 of 1

Unit

S/U System

Discip

Serial

①

2

PNA

E

0103

② Description

TIE BKR, FEEDING 2X51, LOCATED IN 2B5539
IS DEFECTIVE, THE MAGNETIC TRIP UNIT IS INOP.

GOLD CAT # HE3B&40

(✓) Contd on Attachment

③ Recommended Corrective Action:

1. REPLACE TIE BKR IN 2B5539
2. ECO TO RETEST

Due Date

0	1	2	0	1	2

(✓) Contd on Attachment

④ Related Documents and References

⑤ ☒ Deficiency☐ Design Chg☐ Retest Only☐ _____

⑥ Initial Action

DISC

Subsequent Action

ECOC.F.T

⑦

Category

016

Cause

212

Retest Req'd

☐ Yes ☒ No

Q-Listed

☒ Yes ☐ No

⑧ NRC Reportability 10 CFR 50.55(e)/10 CFR 21

☒ Not Reportable no m. action 2/17/82☐ Reportable; MPQA Notified _____

Name

Time/Date

⑨ Signature

Orig:

FE/TE:

PS/PTS:

Date

Time

⑩ Corrective Action or Response:

Action Organization Representative

Date

⑪

Retest Complete

Date

TE:

Completion Review Signature

Date

FE/TE:

MPQA:

PS/PTS:

(✓) Contd on Attachment

CORRECTIVE ACTION REPORT

Page 1 of 1Unit 1 - S/U System X, D, Z - Discip ✓ - Serial 0, 1, 7

② Description

White states link marker tags fit states link studs too tight. When tags are moved during checkout many tags are being broken.

(✓) Contd on Attachment

③ Recommended Corrective Action

Due Date

01/19/82

01/19/82

future installed
BPCo Have all tags made with larger diameter holes.
(We understand tags are drilled by field)
CPCo is correcting on T/O systems when found.

(✓) Contd on Attachment

④ Related Documents and References

⑤ ☒ Deficiency☐ Design Chg☐ Retest Only

⑥ Initial Action

B.P.C

Subsequent Action

C.P.T

⑦ Category

5.0

Cause

1, 2

Retest Req'd

☐ Yes ☒ No

Q-Listed

☒ Yes ☐ No

⑧ NRC Reportability 10 CFR 50.55(e)/10 CFR 21

☒ Not Reportable ali al-Diyab☐ Reportable; MPQA Notified

Name

Time/Date

⑨ Signature

Orig:

D. L. Valley

Date

Time

FE/TE:

ali al-Diyab

1/26/82

1500

PS/PTS:

ali al-Diyab

2/2/82

1220

⑩ Corrective Action or Response:

* We consider that BPCo-BPC action will be complete when instructions to drill future tags to fit without problem have been given to field personnel and attested to by signoff of this CAR.

Action Organization Representative

Date

⑪ Retest Complete

Date

TE:

Completion Review Signature

Date

FE/TE:

MPQA:

PS/PTS:

(✓) Contd on Attachment

CORRECTIVE ACTION REPORT

Page 1 of 1Unit 1 - S/U System P.N.D - Discip E - Serial 0.02

② Description

IN 1X52, THE LUGS ON CABLE 1BB5639B ARE THE WRONG SIZE. THE TERMINATING STUD IN 1X52 IS $\frac{1}{4}$ ". THE HOLE IN THE LUG IS $\frac{1}{2}$ "

(v) Contd on Attachment

③ Recommended Corrective Action

INSTALL THE CORRECT SIZE LUGS ON CABLE 1BB5639B

Due Date

0.3 | 0.2 | 8.2

(v) Contd on Attachment

④ Related Documents and References

FPE - 7000 - 7.1
E97 543 R4

⑤ ☒ Deficiency☐ Design Chg☐ Retest Only☐ _____

⑥ Initial Action

GSO

Subsequent Action

E.C.D

⑦

Category

0.7

Cause

3.2

Retest Req'd

☐ Yes ☒ No

Q-Listed

☒ Yes ☐ No

⑧ NRC Reportability 10 CFR 50.55(e)/10 CFR 21

☒ Not Reportable ali al-Diyari 2/18/82☐ Reportable; MPQA Notified

Name

Time/Date

⑨ Signature

Orig:

FE/TE: ali al-Diyari 2/18/82 1100PS/PTS: [Signature] 2/18/82 1400

⑩ Corrective Action or Response:

Action Organization Representative

Date

⑪ Retest Complete

Date

TE:

Completion Review Signature

Date

FE/TE:

MPQA:

PS/PTS:

(v) Contd on Attachment

CPCo

Closed CAR's

CORRECTIVE ACTION REPORT

Page 1 of 1

Unit

S/U System

Discip

Serial

1

1

EAD

M

C20

② Description Inadequate pressure indication to perform Section II IWP pump operability. This testing is required by Midland Technical Specifications and 10 CFR 50 on a monthly basis. At the present time there is no pressure indication on either the suction or the discharge of the Recirculating Air Cooling Unit Booster Pumps 1P-232 A&B

(v) Contd on Attachment

③ Recommended Corrective Action Install pressure indicators at pressure points 1PP-1997 A&B and install pressure points and indicators between pump discharges and valves 414-538 (1VSW501) and 414-537 (1VSW508)

Due Date

03/01/81

(v) Contd on Attachment

④ Related Documents and References

P&ID M-414 A&B
Midland Technical Specification 16.4.05

⑤ <input checked="" type="checkbox"/> Deficiency <input checked="" type="checkbox"/> Design Chg <input type="checkbox"/> Retest Only <input type="checkbox"/> _____	⑥ Initial Action B.P.D Subsequent Action C.P.C	⑦ Category Cause 0.5 0.3 Retest Req'd <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Q-Listed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	⑧ NRC Reportability 10 CFR 50.55(e)/10 CFR 21 <input checked="" type="checkbox"/> Not Reportable <input type="checkbox"/> Reportable; MPQA Notified Name _____ Time/Date _____ ⑨ Signature Orig: [Signature] 9/10/81 9:10 FE/TE: [Signature] 9/15/81 12:00 PS/PTS: _____
--	---	---	---

⑩ Corrective Action or Response:

RECOMMENDED CORRECTIVE ACTION DOES NOT MEET 3-POINT CRITERION SPECIFIED IN OPCA LETTER SERIAL 7553 DATED 9-5-79

PRESSURE POINTS ON THE SUCTION SIDE OF ALL PUMPS HAVE BEEN PROVIDED WHICH ARE INTENDED FOR USE IN TESTING PUMP DISCHARGE PRESSURE MEASUREMENT CAN BE MADE AT THE VENT CONNECTION CURRENTLY LOCATED BETWEEN THE PUMP DISCHARGE AND DISCHARGE VALVE

NO ENGINEERING CHANGE IS REQUIRED

Action Organization Representative

[Signature] Date 9/25/81

⑪ Retest Complete	Date
TE: N/A	---
Completion Review Signature	Date
FE/TE: _____	_____
MPQA: _____	_____
PS/PTS: _____	_____

(v) Contd on Attachment

CORRECTIVE ACTION REPORT

Page 1 of 1

Unit 0 - P P E - E - 003

(2) Description

The heat shrink on the high side windings of OX93 was improperly installed in that too small tubing was used and was heated improperly. This case has been rectified. XFMR was determined for testing and reterminated in accordance with RayChem recommended procedures.

(✓) Contd on Attachment

(3) Recommended Corrective Action

Ensure Bechtel Construction is aware of RayChem installation procedures.

Use Date

01/15/82

(✓) Contd on Attachment

(4) Related Documents and References

RayChem procedures for heat shrink installation and inspection. (attached)

(5) ☒ Deficiency☐ Design Chg☐ Retest Only☐ _____

(6) Initial Action

CPT

Subsequent Action

(7)

Category

0.7

Cause

1.2

Retest Req'd

☐ Yes ☒ No

Q-Listed

☒ Yes ☐ No

(8) NRC Reportability 10 CFR 50.55(e)/10 CFR 21

☒ Not Reportable☐ Reportable, MPQA Notified

(9) Signature

Orig:

SETT:

PS/PTS:

Name/Time/Date

Vov Date Time

11 DEC 81 1300

30 DEC 81 1200

1/6/82 1220

(10) Corrective Action or Response:

BPC's Elimination Engineer (Gene Quayle) has been provided a copy of the attached Raychem documents for information. Mr Quayle said that BPC is in process of obtaining services of a Raychem representative to review BPC's present installation methods to ensure BPC is following latest Raychem installation procedures. J.V.

Action Organization Representative

Date 1-6-82

(11) Retest Complete

TE: NA

Completion Review Signature

SETT: J.V. Quayle

MPQA: J.V. Quayle

PS/PTS: J.V. Quayle

Date

Date

1-6-82

1-11-82

1/13/82

(✓) Contd on Attachment

Introduction

The inspection and determination of a correctly installed heat-shrinkable splice sleeve is a relatively simple procedure. The nature of heat-shrinkable products is such, that by definition, the material to be shrinkable must be an acceptably void and pinhole free, homogeneous material.

Since material properties are carefully inspected during the manufacturing processes, the determination of an acceptable installation can be described as one of three conditions:

A.
Correctly installed. See photos #1 and 2 for description and Raychem Field Installation Guide 1050.

B.
Underheating. In this case, sufficient heat has not been applied to properly complete the shrinking action and, therefore, an environmental seal may not have been achieved. Photo #3 shows typical underheating. Corrective action is relatively simple in that reheating to complete a shrinking action may be performed at any time.

C.
Overheating. This is the worst of the two negative conditions that may exist in an improperly installed sleeve.

Overheating is evidenced by visual surface damage in the form of blistering or charring of the shrinkable sleeve. Lack of any visible surface defect clearly means no overheating took place.

Overheated sleeves, if they have not split, may be used for noncritical applications. Where maximum reliability is required or desired, removal and replacement is recommended. See photo #4 for typical case.

Note:

Any minor surface conditions that can be removed by solvent cleaning with a standard cable cleaner are considered to be acceptable for critical applications.

1.
Shows completed sleeve satisfactorily installed.

Note:

- a. Adhesive showing at each end. See photo #2 for closeup.
- b. No evidence of burning or blistering on surface of shrinkable sleeve.
- c. Sleeve is in intimate contact with substrate. Surfaces at cable interfaces are smooth.
- d. Verify size selection and installation per Field Installation Guide 1050.

1



2.
Shows closeup of good adhesive flow at end of shrunk sleeve.

Adhesive flow indicates complete shrinking and intimate contact with cable, ensuring a positive, environmental seal.



3.
Shows typical underheating.

Note:

- a. No adhesive flow at ends of sleeve.
- b. Lack of intimate, smooth contact with substrate.

Corrective Action: Reheat and continue shrinking until completed in accordance with photo #1.

2

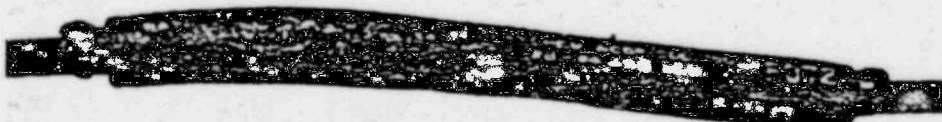


4.
Shows overheated sleeve.

Note obvious blistering of surface.

Corrective Action: Sleeve should be removed and replaced.

3



4

Introduction

The correct procedure for the selection and installation of WCSF type splicing sleeves is an easy and simple process. Reliable splicing can be performed with completed splices being equal to or better than a cable insulation itself.

To select and install WCSF sleeves for installation in containment applications or other applications requiring the highest degree of reliability, two essential steps are required:

A. Selection of the correct size. See size selection guide attached, Appendix 1, and Drawing #47005-006-03.

B. Proper shrinking through correct cable preparation and shrinking of the sleeve itself.

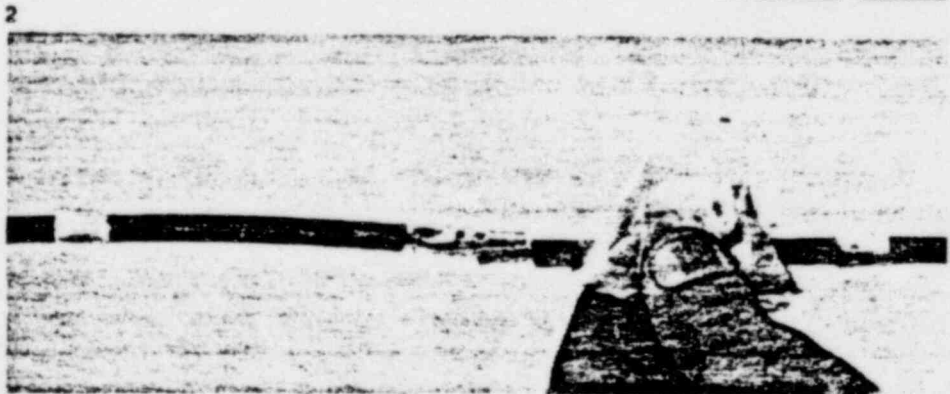
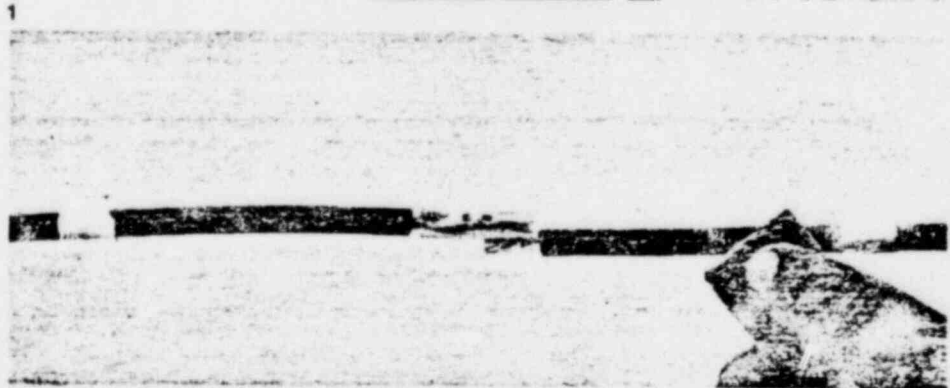
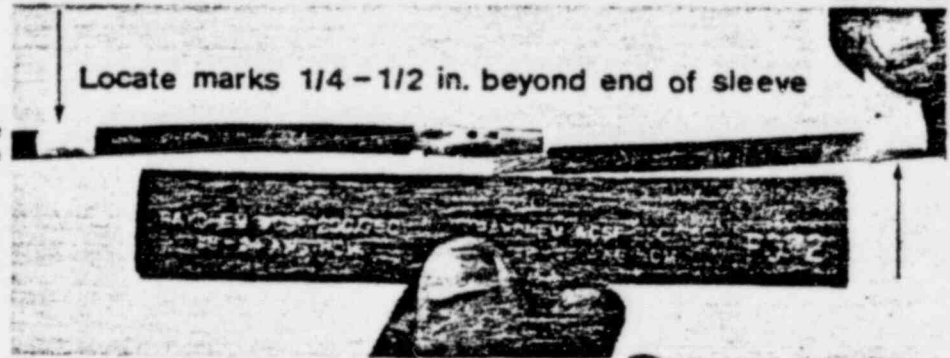
The procedures for shrinking are covered in the following pages in photo sequence. Proper adherence to these recommended procedures will ensure a reliable connection.

1. Prepare cable ends, crimping one end and locate heat-shrinkable sleeve to approximate centering. Mark cable with any type of tape or cable marker. Use area between marks to define surface to be cleaned and in centering of sleeve during shrinking operation.

Note:
Marks should be located approximately 1/4" to 1/2" past end of sleeve. Verify that sleeve has 2" minimum seal area at each end.

2. Abrade cable per cable manufacturer's or engineering recommendation.

3. After abrading, clean all surfaces thoroughly, using a good commercial cable cleaning solvent or 1,1,1. Trichloroethane.



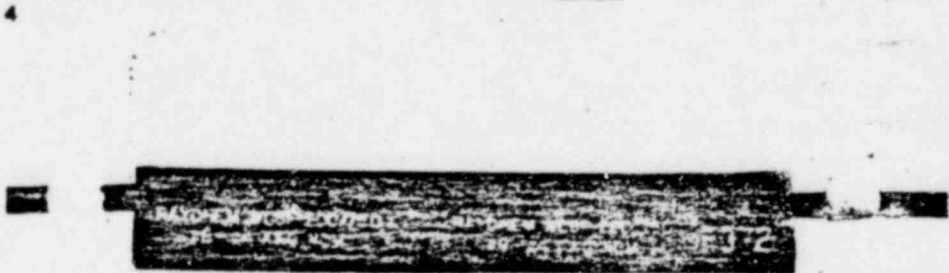
WCSF Type In-Line Field Splices

2

4.
Position sleeve onto cable and then complete crimping operation.



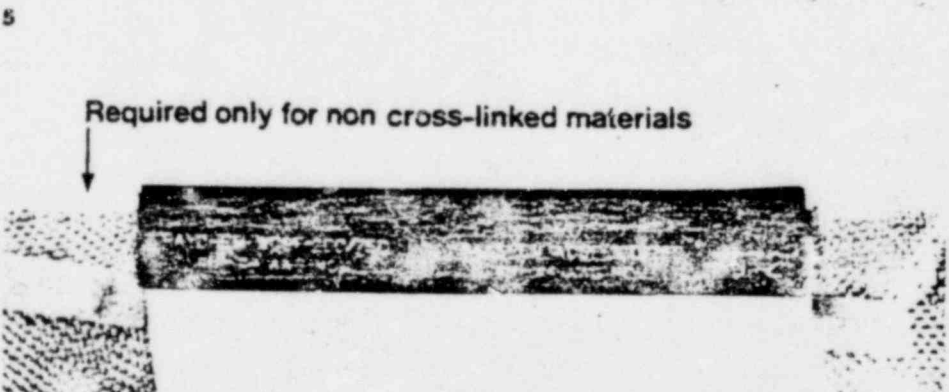
5.
Locate sleeve, centering on previously installed tape or other locating marks.



6.
Position glass heat shield cloth over exposed cable when shrinking onto noncrosslinked or nonvulcanized insulating material.

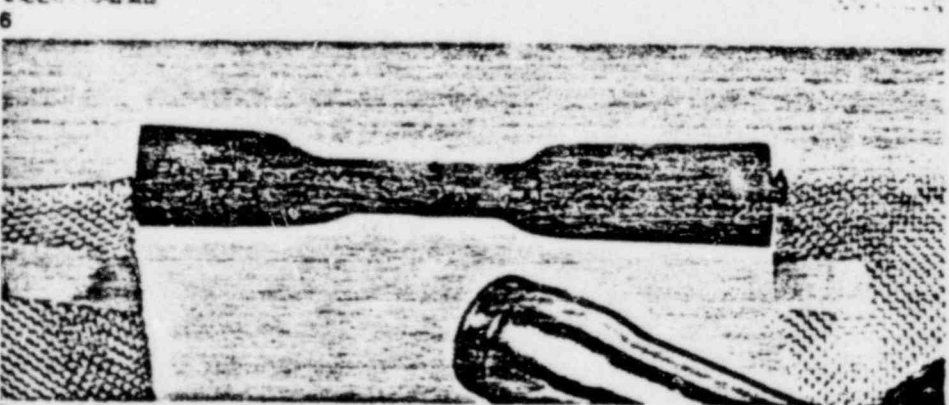
Note:
If cable construction is dual type (i.e., the outer layer is crosslinked but the inner is not), then heat shields are not required.

Required only for non cross-linked materials



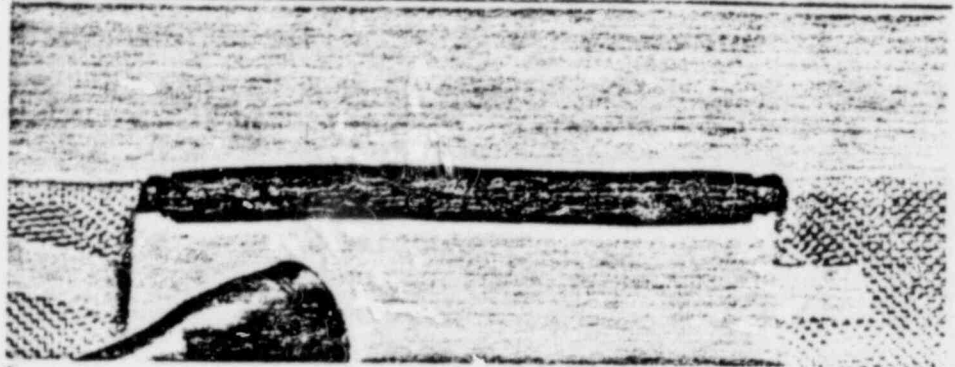
7.
Shrink sleeve by starting shrinking action at approximate center of sleeve. Work heat gun from center towards each end, using a waving action of the heat gun. This back and forth motion helps ensure reliable installation.

Note:
Heat should be applied to all sides. Where access to all sides is not feasible, installation with a heat reflector attachment will allow heating of all sides with heat applied from one position.



8.
Complete shrink action until:

- a. Sleeve is smoothly shrunk onto cable surface.
- b. A visible flow of adhesive is evident from each end of the sleeve.



9.
Photo shows typical adhesive flow that should be present at each end of the sleeve.



10.
Completed splice with a properly installed sleeve showing:

- a. Positive indication of adhesive flow at each end of the heat-shrinkable sleeve.
- b. Intimate surface contact is made along the length of the cable splice. The sleeve should show smooth contact with no surface wrinkles along the contact area of the cable jacket.



WCSF-N

Category

Nuclear

Description

Radiation-resistant, flame-retarded, heat-shrinkable tubing for insulating and sealing electrical connections.

Nuclear Sleeves

Product Features

Flame-retarded, heavy-wall WCSF-N cable sleeves are specially formulated for electrical insulating and sealing applications up to 2000 volts where maximum flame retardancy and radiation resistance are required.

These highly reliable, flexible sleeves are used both individually and as kit components to produce heat-shrinkable configurations which remain functional within typical design environments of IEEE 383 for use in nuclear power plants. An independent test report states: "The (Raychem WCSF-N) splices on these specimens... appear to be capable of demonstrating satisfactory performance during the exposures simulating normal service, a LOCA and associated cooldown; plus demonstrating a substantial margin of life in the specimen by withstanding a post-LOCA bend and a high-potential withstand test with the specimen in water."*

Adhesive

Raychem WCSF-N cable sleeves are pre-coated inside with a unique heat-activated,

crosslinking adhesive designed to provide optimum radiation and thermal stability at elevated temperatures. Type-N adhesive will adhere to polyolefin, most synthetic cable jackets and to many metals, including copper, lead and aluminum.

Applications

WCSF-N cable sleeves are a highly cost effective as well as highly reliable method of making in-line penetration splice connections in nuclear power plants. They seal and insulate connections in minutes, allowing substantial time savings.

WCSF-N sleeves can also be supplied in kits with heat-shrinkable nuclear grade cable breakouts to insulate and seal multiconductor splices.

Raychem in-line penetration splicing kits offer these advantages:

Nuclear-rated

WCSF-N sleeves have been functionally tested within the design environments of IEEE 383 for in-containment area use.

Compact size

A minimum amount of Category 1 space is required and minimum penetration spacing can be maintained because splices are compact. In addition, installation requires minimum clearance.

Individually insulated and isolated connections

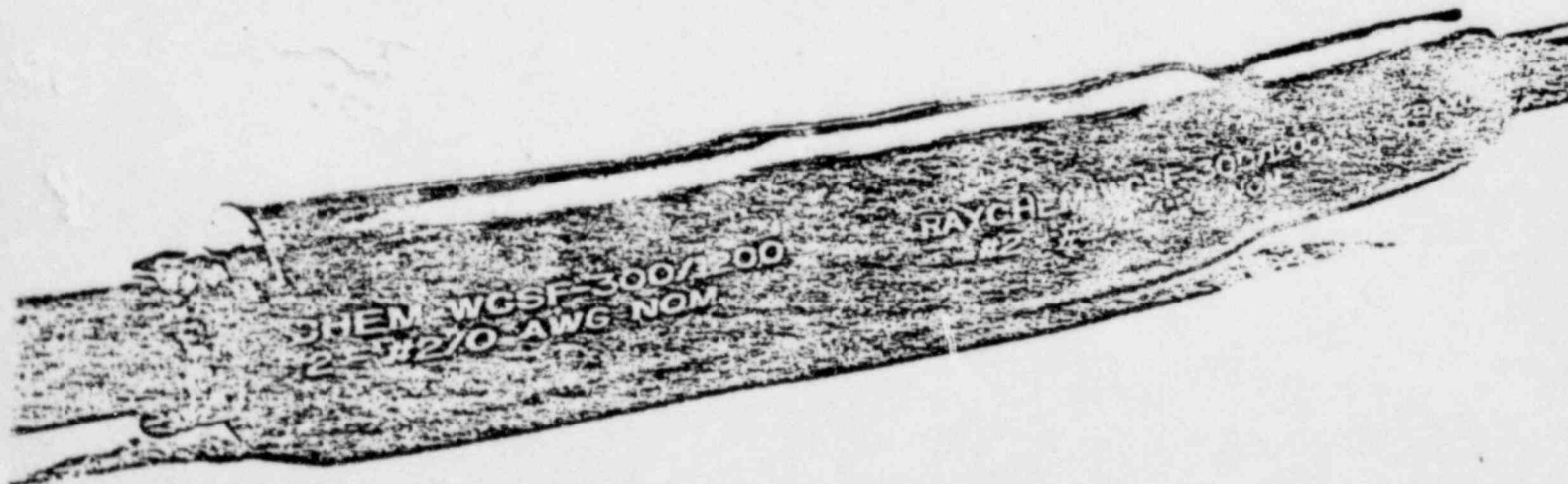
Each splice has a tight environmental seal.

Pre-engineered insulation

Factory-engineered components eliminate variability of field taped or cast insulation. High reliability over the lifetime of plant is assured, and expensive seismic analysis and testing can be eliminated.

Certified quality

All components and materials are fabricated under a strict quality program, conforming to Specifications 10CFR50 appendix B and ANSI N 45.2.



*Franklin Institute Research Laboratories,
Final Report F-C 4033-3.

Raychem

Raychem Corporation
300 Constitution Drive
Menlo Park, California 94025
415) 329 4022 TWX 910 373 1728

CORRECTIVE ACTION REPORT

Page 1 of 1

Unit

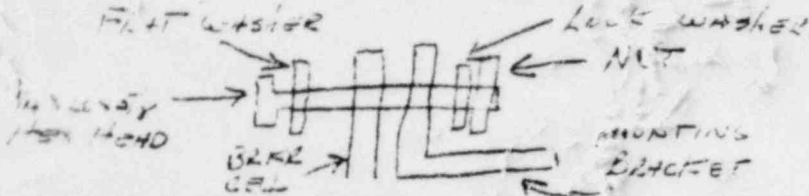
S/U System

Discip

Serial

- 2 Description IN 182312, THE UPPER LEFT CELL MOUNTING HOLE IS STRIPPED.

NOTE: THIS WAS REPAIRED UNDER TEMP ALT # E32-11 USING A 4X20X3/8 BOLT PER THE FOLLOWING SKETCH.



(v) Contd on Attachment

- 3 Recommended Corrective Action

USE AS IS

Due Date

02	23	82

(v) Contd on Attachment

- 4 Related Documents and References

VP 7220-E7

- 5 ☒ Deficiency

☐ Design Chg
☐ Retest Only

- 6 Initial Action

CPT
Subsequent Action

- 7 Category

C.6
Cause

1, 2

Retest Req'd

☐ Yes ☒ No

Q-Listed

☒ Yes ☐ No

- 8 NRC Reportability 10 CFR 80.55(e)/10 CFR 21

☒ Not Reportable: ali al-Duraidi 2/23/82☐ Reportable; MPOA Notified

Name

Time/Date

- 9 Signature

Orig: ali al-Duraidi 2/23/82 1400FE/TE: ali al-Duraidi 2/23/82 1135PS/PTS: ali al-Duraidi 2/23/82 1200

- 10 Corrective Action or Response:

USE AS IS

A.O.A. 2/23/82

Action Organization Representative

ali al-Duraidi Date 2/23/82

- 11 Retest Complete

Date

TE: NA

Completion Review Signature

Date

FE/TE: ali al-Duraidi 2/23/82

MPOA:

PS/PTS:

(v) Contd on Attachment

CORRECTIVE ACTION REPORT

Page 1 of 1

Unit S U System Discip Serial
1 - GNC - M - 007

2 Description

DRAWING E-438 SHEET 1 SHOWS 3 - 100 AMP HFCEP
FUSES FOR CIRCUITS.

THESE CIRCUITS PRESENTLY HAVE 6 FUSES, 2 IN
PARALLEL PER PHASE INSTALLED.

(v) Contd on Attachment

3 Recommended Corrective Action

EVALUATE AND IF REQUIRED
CHANGE DRAWING TO SHOW 6 FUSES, TWO IN
PARALLEL PER PHASE. NOTIFY CPCO TECH. DEPT.
IF 3 FUSES ARE REQUIRED.

Due Date

070182

(v) Contd on Attachment

4 Related Documents and References

E-438 SHEET 1

5 Deficiency

☐ Design Chg☐ Retest Only

6 Initial Action

B.P.D

Subsequent Action

C.P.T

C.P.Q

C.P.T

7

Category

50

Cause

0.1

Retest Req'd

☐ Yes ☒ No

Q-Listed

☒ Yes ☐ No

8 NRC Reportability 10 CFR 50.55(e)/10 CFR 21

☒ Not Reportable *R. L. Boman*☐ Reportable; MPQA Notified

Name

Time/Date

9 Signature

Orig:

FE/TE:

PS/PTS:

Date

Time

1/4/82

1300

1/4/82

1310

1/4/82

1350

10 Corrective Action or Response:

FINAL RESPONSE

THESE CIRCUITS DO NOT HAVE TWO FUSES
IN PARALLEL PER PHASE, BUT ACTUALLY THEY
HAVE 100A, 3POLE HFCEP LIMITER PACKAGE AS SHOWN
ON E-438(Q) SH.1. SO DRAWING
REVISION IS NOT REQUIRED.

Action Organization Representative

DISCUSSION WITH J. AVERBECK
& ALAN GARRISON (BECHTEL).

David K. Jukka

11 Retest Complete

TE:

Completion Review Signature

FE/TE:

MPQA:

PS/PTS:

Date

Date

2/11/82

2-17-82

2/15/82

(v) Contd on Attachment

CORRECTIVE ACTION REPORT

Page 1 of 1

Unit S/U System Discip Serial

10 - ANB-M - 0122

- ② Description M449 SHIB has the safety related portion of the Demin Water Header entering the Unit 1 containment labelled as 2" 1HCB-122 (At F-1). The isometric drawings indicate that this is really 2" 1HCB-022.

(✓) Contd on Attachment

- ③ Recommended Corrective Action Relabel the appropriate line.

Due Date

12/15/81

(✓) Contd on Attachment

- ④ Related Documents and References

FSK-M-1HCB-022

FSK-M-1HCB-122

M449 SHIB Rev. 4

- ⑤ ☒ Deficiency

☐ Design Chg☐ Retest Only☐ _____

- ⑥ Initial Action

B.P.D

Subsequent Action

C.P.Q

C.P.T

- ⑦ Category

5.0

Cause

4.0

Retest Req'd

☐ Yes ☒ No

Q-Listed

☒ Yes ☐ No

- ⑧ NRC Reportability 10 CFR 50.55(e)/10 CFR 21

☒ Not Reportable PDA 10-21-81/1030☐ Reportable; MPQA Notified

Name Time/Date

- ⑨ Signature

Orig: PDA 10-21-81 1030

FE/TE: PDA 10-21-81 1030

PS/PTS: PDA 10/22/81 0740

- ⑩ Corrective Action or Response:

PER REQUEST OF 10/30/81 FROM
KEN WANDLING, THIS CAR IS
BEING RETURNED W/O ACTION
AND IS CONSIDERED CLOSED

This revision will be done
per an FCN from the Bechtel
Field Engineer. PDA 11-30-81

FCN 4111 was issued 2-3-81 PDA
2-7-82

SURVEILLANCE

(✓) Contd on Attachment

Action Organization Representative

Date 11/13/81

⑪ Retest Complete	Date
TE: N/A PDA	11-30-81
Completion Review Signature	Date
FE/TE: PDA MCF	11-30-81
MPQA: PDA	2/12/82
PS/PTS: PDA	2/16/82

CORRECTIVE ACTION REPORT

Page 1 of 1

Unit ~~1~~ - K E I - M - C C 3
2 Shw w/1/81

2 Description

Out-of-Date Dwg Revision:

Vendor dwg # 7220-M1.30-34-1 (Fuel Transfer System Hydraulic Power Unit) appears to be an out dated revision of the dwg (Stears Roger Dwg # L-22360 shw 71, Rev E). The Field Erection Manuals (7220-M1.29-30-1 and 7220-M1.29-31-1) provide a more recent revision of the same dwg (Stears-Roger Dwg L-22360, shw 71, Rev K)

(v) Contd on Attachment

3 Recommended Corrective Action

Determine the proper revision of the dwg and update the document files appropriately.

Due Date

01/01/82

(v) Contd on Attachment

4 Related Documents and References

7220-M1.29-30-1

7220-M1.29-31-1

7220-M1.30-34-1

5 Deficiency

☐ Design Chg☐ Retest Only

6 Initial Action

B.P.D

Subsequent Action

C.P.T

C.P.G

C.P.T

7 Category

02

Cause

01

Retest Read

☐ Yes ☒ No

Q-Listed

☒ Yes ☐ No

8 NRC Reportability 10 CFR 50.55(e)/10 CFR 31

☒ Not Reportable☐ Reportable; MPQA Notified

Name Time/Date

9 Signature

Orig:

FETE:

PS/PTS:

Date

Time

11/17/81

1300

11/17/81

1300

11/23/81

1200

10 Corrective Action or Response:

The current Stears-Roger drawing L22360, sheet 71, revision K, will be submitted by B&W to update our document files with a forecast date for submittal of 1/11/82.

PS

WHL

J.A. Clements 12-16-81

V.P. 7220-M1.30-34-2 (S/R L22360, sheet 71, Rev.G) was submitted by B&W 1/11/82 to update our document files. Revision G is the current revision for Midland.

Action Organization Representative

Date

11 Retest Complete

TE: N/A CCOD

Completion Review Signature

FETE:

MPQA:

PS/PTS:

Date

Date

2/1/82

2/1/82

2/12/82

2/16/82

SURVEILLANCE

(v) Contd on Attachment