Consumers Power Company

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June 25, 1979
Howe-184-79

Director of Office of Inspection
and Enforcement
Att: Mr Victor Stello
US Nuclear Regulatory Commission
Washington, DC 20555

MIDLAND NUCLEAR PLANT - ALAB-106
MONTHLY REPORT FOR MAY 1979
DOCKET NOS 50-329 AND 50-330

In accordance with Condition of Memorendum and Order ALAB-106, dated March 26, 1973 and Amendment No 1 of the Midland Plant Construction permit, enclosed are ten (10) copies of Bechtel Nonconformance Reports, all sheets from the Bechtel Nonconformance Report Log representing nonconformances open during the month, Bechtel Quality Audit Findings, Bechtel Quality Action Requests, Bechtel Management Corrective Action Reports, Babcock & Wilcox Reports of Nonconformity and Consumers Power Company Nonconformance Reports, Audit Finding Reports and Corrective Action Reports written or closed during the month.

Stephen H Howell

CC: JGKeppler, USNRC Region III

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NONCONFORMANCE - REPORT LOG & STATUS BOOK

12. REPORT DATE
PAGE COMPL.
Q.C. ENG. SIGN

* NCR STILL OPEN

1. PROJECT NO 7220

NCR NO.	3. ORIG. DATE	4. PREPARED BY	5. NONCONFORMANCE DESCRIPTION/REMARKS	STATUS 6. ROUTE	7. DATE XMTD	8. DATE RETD	9. DATE CLOSED	10. CLOSED BY
340	9-29 -75	R. A. Moray	M-104A. Rain Splashed dirt on receipt of LS 9030 & LS 9031 ASME 4.104	Field 9-30-75	no	10-6 -75	10-27 -75	H.D.Foster
341	10-2 -75	A.L.Boulden	C-111. Discontinuity in liner Plate Unit #1 130° 1.109	~~Field 10-2-75~~	10-6 -75	10-28 -75	11-11 -75	A.L.Boulden
342	10-8 -75	H.D.Foster	M-204. Cadweld splatter on 2CCR-72-1-1 Reactor Cavity Drain Line ASME 4.343	Field 10-8-75	No	10-29 -75	4-27- 76	P. M. Pitts
343	10-9 -75	L.R.Albert	C-230. Concrete Mixing Water Ph higher than allowed. 1.105,1.205	~~Field 10-9-75~~	10-13-75	DEX-10-14 10-28 -75	10-29 -75	L. R. Albert
344	10-14 -75	R. A. Moray	M-92. Motor Data Sheets not received for RB Crane Motors 4.001	M.S. ~~Field~~ 10-14-75	No	11-7 75	11-12 -75	R. A. Moray
345	10-20 -75	L.R.Albert	C-211. Structural Backfill material failed Gradations. 1.002	~~Field 10-20-75~~	11-12 -75	12-9 -75	12-9 -75	L.R.Albert
346	10-20 -75	L. R. Albert	C-230. Flyash content high, pour CC(670)a' 1.105	~~Field 10-20-75~~	10-29 -75	12-9 -75	12-9 -75	L.R.Albert
347	10-20 -75	L. R. Albert	C-230. Slump to high at end of pumpline, pour A(613.25)a 1.205	~~Field 10-20-75~~	10-29 -75	DEX 11-18 11-26 -75	11-18 75 11-26 -75	L.R.Albert
348	10-20 -75	H. D. Foster	C-111. Liner Plate deep imperfections S2-~~7~~-U-1 /S1-14-U-1 1.109	Field 10-20-75	No	10-24- -75	10-30 -75	H. D. Foster
349	10-20 -75	H. D. Foster	C-111. Liner Plate laminations plates S2-12-U1 /S1-15-U-1 1.109	Field 10-20-75	No	10-27 -75	10-30 -75	H. D. Foster
350 *	10-27 -75	R. A.Moray	M-1. Damage upon reciept of B41-2013-50-1 Reactor Coolant Pipe. ASME 4.018	B&W 10-27-75	NO	11-11 -75	5-11- 79	R. A. Moray
351	10-29 -75	R. A. Moray	R-1-R. Certification for Hilti Fasteners not received with shipment N/A	M.S. 10-29-75	No	11-3- 75	11-26 -75	R.A.Moray

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PROJECT NAME [1] Midland JOB NO. [1] 7220 PAGE [8] 74

2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1067	11-23-77	M-656, sht.1, FW #2. WR-5 not placed at joint, not signed by FWE or LWQCE, no AI witness for hold point.	Rework Use as is	2-9-78	J. S. Savoie
1068	11-25-77	M-104AC. SS pipe spools delivered to the jobsite w/CS chains causing spools to rust.	~~Rework~~ Use as is	6-8-78 ~~5-10-78~~	J. Slifer ~~M. Donovan~~
1069	11-25-77	C-233. MTRs not supplied with 6" SS elbows that were incorporated into an embed.	Doc Rework	2-27-78	J. Slifer
1070	11-28-77	M-104A. Spool Piece mark no. OHBC-80-S657-45-7 delivered to the jobsite damaged.	Rework	3-21-79	M. Donovan
1071	11-28-77	M-104A. Quality Verfication Doc. not rec'd, spool fabbed to unapproved dwg., incorrect fabrication.	Doc Rework Use as is	5-9-79 12-28-78	M. Donovan J. Slifer
1072	11-28-77	Dwg. C-237. Stud locations for Crane Rail Supports vary 1/8" to 1/2" from that given on dwg.	No Nonconformance	2-1-78	D. L. Osborn
1073	11-29-77	M-326. Hanger sketch 2-613-4-18, dimension given is 1'-9 7/8", actual dimension is approx. 3'.	Rework	3-29-78	D. Grosh
1074	11-29-77	M-104A. Spool 1EBB-5-S638-14-1 received with rust and pitting inside.	Rework	2-26-79 ~~5-19-78~~	M. Donovan ~~M. Donovan~~
1075	11-29-77	C-462. Rebar removed from around Fuel Transfer Sleeve Unit #1, Elev. 626'9"	Use as is	Telex. 12-7-77 12-20-77	P. Vanderveer B. I. Cheek
1076	11-29-77	M-204. Pipe spool 2HBC-322-S634-2-7 damaged in laydown area.	Duplicate of NCR 755	12-29-77	J. R. Behres
1077	11-29-77	C-282. Rebar omitted, AuxBldg wall #21 & #22, Elev. 584'.	Repair	12-12-77	M. Foote
1078	11-30-77	M-64. Coating damage, coating peeling off on Emer. Diesel Oil Storage Tanks received.	Repair	2-17-78	D. Osborn
1079	11-29-77	M-305. 3/4" Socket Flanges rec'd do not meet complete marking requirements per spec. req'mts.	Reject	6-2-78	T. Christofferson
1080	11-30-77	C-27. Preheat temp. not maintained during welding of Personnel Lock Ring	Rework	12-15-77	J. S. Savoie
1081	12-2-77	C-304. Attachment plates for class 1E tray supports show evidence of drilled holes filled w/ weld metal.	Reject Use as is	4-4-78	J. Huron
1082	12-2-77	Dwg. C-381 & C-652. E-2 structural embeds located above design drawing elevations.	Rework	3-23-78	P. VanderVeer
1083	12-5-77	M-18. Emergency Diesel Generator Foundation Parts Fabbed w/o PE approved dwgs., incorrect dimensions.	Reject Use as is		
1084	12-5-77	Dwg. C-244. W30 x 132 beam connected to a C-6 embed has incorrect fillet weld dimensions.	Use As Is	2-8-78	J. C. Huron
1085	12-5-77	Dwg. C-1028. Rebar shifted, removed. Diesel-Generator bldg. El. 630'6"	Std. Repair	12-22-77	S. Kirker

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1257	3-6-78	M-104A-AC. Pipe Spool OHBC-15-S618-1-1 delivered to site with documentation discrepancies.	Doc. Rework	3-28-78	M. Donovan
1258	3-6-78	Dwg. C-109. Dike Embankment Soils, 60' of dike cross-section not documented by QC Records.	Use as is	3-17-78	D. Osborn
1259	3-7-78	M-1.16. No documentation received for RCS Makeup Pumps. Space heaters in motors are of wrong wattage.	Doc. Rework Use as is	3-12-79	R. Valentine
1260	3-7-78	M-1.6. Unit I Steam Generator Feedwater Header. No documentation has been received.	Doc. Rework	5-15-79	R. Valentine
1261	3-7-78	J-201. Main Control Board, conduit in sections 1C12/ 1C22, 1C13/1C23. & 2C13/2C23 are not color coded.	Rework		
1262	3-8-78	Dwg. E750. Cable Tray Supports, bracing installed and is not in accordance with dwg.	Use as is	5-11-78	D. Thompson
1263	3-9-78	M-14. Auxiliary Feedwater Pumps 1P05B & 2P05B, missing documentation	Doc. Rework	1-26-79	B. Mac Glashan
1264	3-13-78	C-231 - Service Water Pump Structure, concrete surface out of plumb.	Use as is	3-17-78	D. Osborn
1265	3-10-78	M-106AC. Channel for hanger 2 1/2"-2CCB-28-H18 delivered to site wong size.	Rework	5-4-78	D. Duff
1266	3-13-78	C-231. Indeterminate dry concrete. A(673.5)a'	Use as is	3-31-78	S. Kirker
1267	3-13-78	C-248, C-251. Embed Plates omitted, Tilt Pit Fuel Pool. Aux. Bldg.	Rework	8-18-78	S. Kirker
1268	3-13-78	Dwg. M-183. Sluice Gate frames and slides installed @ incorrect locations. Service Water Pump Structure.	Use as is	11-5-78	S. Kirker
1269	3-13-78	M-305. Mat'l received at the jobsite with illegible markings or none at all.	Reject	5-15-78	H. D. Foster
1270	3-15-78	C-24. SWI Sluice Gate Fasteners do not have required identification marking.	Rework	11-15-78	S. Kirker
1271	3-15-78	M-204. Welder not qualified to the applicable welding procedure. FW 5R1, Aux. Bldg.	Use as is	5-19-78	J. Huron
1272	3-16-78	E-20AC. Electrical Penetrations, cable chaffing, No Documentation.	Doc.Rework use as is		
1273	3-17-78	Dwg. C-473. Missing Rebar Cont. #1 Refueling Canal Slab.	Use as is	3-30-78	P. VanderVeer
1274	3-20-78	C-50. Bolts & Studs for Personnel Locks have no markings, vendor dwgs do not specify type to be used.	Rework		
1275	3-20-78	C-230. Flyash User test failed.	Use As Is	3-22-78	R.K. Siple

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PROJECT NAME [1] Midland JOB NO. [1] 07220 PAGE [8] 21

2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1390	6-22-78	BQAM, Stock ASME-Sec. NF Mat'l PO's issued to Supplier w/o Procurement Insp. Dept. survey being accomplished.	Use as is	8-22-78	J. Slifer
1391	6-22-78	E-11. Elec. Test Reports for Battery Chargers do not include Documentation required by Specification.	Doc. Rework	10-4-78	D. A. Delaney
1392	6-22-78	Dwg. E-750. Cable Tray Hanger is not installed according to the project approved detail. Containment #2	Use as is	8-28-78	D. C. Thompson
1393	6-22-78	Dwg. E-750. Cable Tray Hangers do not have vertical legs installed as detail Dwg. Containment #2	Use as is	9-20-78	R. Amos
1394	6-26-78	M-163AC - Recirculating Air Cooling Units - Missing & illegible documentation for 2VM-56A & B	Doc. Rework	3-13-79	D. Delaney
1395	6-26-78	M-104A. Pipe Spool 2HCB-2-S611-3-7 - Nipple is not welded to 18" elbow as shown in approved Vendor Pront.	N/A	6-28-78	J. Slifer
1396	6-27-78	M-117AC. 4 Motor Operated Valves delivered to the jobsite with an accumulation of dirt/rust/loose screws.	Reject		
1397	6-28-78	C-208. Concrete Test Cylinders stored at nonconforming temperature. 8 Tanks on 6/27/78	Use as is	10-12-78	Thomas Lieb
1398	6-29-78	Dwg. C-95. Anchor Bolts for Panels S-3 & S-4 are 3" off location. SWPS @ 658'6"	Repair Use as is	9-19-78	S. Gelnett
1399	6-30-78	F-28915, 28658, 28759 Nuts & Bolts do not meet marking requirements.	Reject	7-20-78	R. A. Montreuil
1400	7-6-78	F-26720. Stock pipe rec'd with no G-321-D. Spool not put into designated receiving area.	No Nonconformance	7-11-78	H. D. Foster
1401	7-7-78	M-204. 1" Sch 160 SS Pipe - heat traceability missing due to improper marking of 2 pcs of pipe.	Reject	9-7-78	C. Groat
1402	7-10-78	M-1.17 Non-receipt of Recieving documentation Decay Heat Removal Pumps 1p60A and 2P60B	Doc. Rework	7-24-78	J. Slifer
1403	7-10-78	Spec. C-230. Slump @ EOL fell above requirements of specification. Pour A(693.75)b'	Use as is	9-18-78	S. Gelnett
1404	7-13-78	M-163AC. Doc. supplied w/recirculating Air Cooling Units missing, illigible. Numbers vary.	Doc. Rework	5-10-79	D. Delaney
1405	7-13-78	M-163AC. Some documentation for recirculating air cooling units illegible, not traceable.	Doc. Rework	1-9-79	D Delaney
1406	7-13-78	M-163AC. No Quality Verfication Documentation received for recirculating air cooling units.	Doc. Rework	1-23-79	D. Delaney
1407	7-14-78	M-104A. Incorrect amounts of documentation rec'd for spools 2ELB-12-S632-3-1 & OHBC-1-S618-1-2	Doc. Rework	8-1-78	M. Donovan
1408	7-17-78	C-230. Sand gradation had 69% passing the #30 sieve thereby exceeding allowable limit by 9%.	Use as is	8-15-78	T. [illegible] Lieb

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1428	7-26-78	Dwg. M-848. C6x10.5 Mechanical Inserts were installed exceeding the 6" tolerance.	Use as is	9-26-78	P. VanderVeer
1429	7-26-78	M-104A. Pipe Spools - 2CCB-24-S604-4-3 radiographic examination not performed, 2GCB-16-S613-2-2 spool dented.	Doc. Rework Std. Repair	1-5-79	B. Daly
1430	7-26-78	M-104A. Quality Verification Documentation sent is indeterminate.(2 Spools)	N/A	7-31-78	M. Donovan
1431	7-27-78	C-231. Block Wall #18 - Was found with a dry surface Elev. 659'	Use as is	8-30-78	S. Kirker
1432	7-27-78	M-104A. Pipe Spool 1HCB-19-S612-8-4 - No Documentation received for repair work done, rust on the exterior of pipe.	Reject		
1433	7-28-78	M-125C. 3 Nuclear Service Valves - Documentation pkgs contain illegible & untraceable documentation.	Doc. Rework	1-30-79	D. Delaney
1434	7-28-78	J-256AC. Nuclear Service Solenoid Valves - Documentation missing cleaning verification report.	Doc.Rework	8-18-78	D. Delaney
1435	7-28-78	E-7AC. Motor Control Center, MCC-2B23 Sections 1,2,3, 4, & 5 was delivered to the jobsite with the top crushed.	Rework	5-21-79	A. Lobrovich
1436	7-31-78	Dwg. C-99. AWS W18x55 Beams & Stiffners - Welded without a Fit up inspection1. Ser. Water Pump Struc. Elev. 635'	Use as is	8-7-78	J. C. Huron
1437	7-31-78	M-125C. 2 6" HCC-GT-DL Valves - Actual bore of each valve does not agree with that called out by Vendor Dwg.	Reject	9-21-78	J. Slifer
1438	7-31-78	M-204. Flange Connections - Flanges were torqued up without the use of a lubricant.	N/A	9-8-78	L. Brown
1439	7-31-78	M-305, Certification attached to Albert Pipe Letter does not indicate applicable addendum of the code.	Doc. Rework	12-2-78	K. Deitz
1440	7-31-78	M-104A. Illegible or damaged Code Data Report and associated records- ITT Grinnell	Doc. Rework	8-25-78	K. Deitz
1441	7-31-78	FSK-M-OHCC-72-1. Socket weld made withoutan IR written or a WR-6 evident.	Use as is	10-4-78	R. Heron
1442	7-31-78	BQAM, Stock ASME-Sec. NF Mat'l PO's issued to Supplier w/o Procurement Insp. Dept. survey being accomplished.	Use as is	8-22-78	J. Slifer
1443	8-1-78	J-256AC. Nuclear Service Solenoid Valves - Cleaning Verification Reports not included in Doc. Pkg.	Doc. Rework	9-13-78	D. Delaney
1444	8-1-78	F-22282. 3/4" x 4" and 5/8" x 2 3/4 Stud Bolts - are stamped with the wrong heat code.	Doc Rework	12-8-78	R. A. Montreuil
1445	8-1-78	F-28350. 8 pcs. of 1½" x 1'-6" x 1'-4" Shim Plates - Certified Material Test Reports were not received.	Doc. Rework		
1446	8-1-78	F-28055. 20 pcs SS Nuts Grade 8F - Do not meet marking requirements	Reject	9-28-78	R. Montreuil

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1466	8-10-78	J-204. Seismic Instrument Rack - tagging of rack does not agree with Bechtel Dwg. J-393.(panel 20166)	Rework	9-8-78	J. Slifer
1467	8-10-78	J-204. Differential Pressure transmitter - Non-Q documentation was delivered . (1LT-2107A & 2LT-2207A)	Reject		
1468	8-14-78	M-305. Material received against M-305 without the required traceability.	Doc.Rework Reject	3-22-79	K. Deitz
1469	8-14-78	F-26182. 2 pcs 2½" 45° CS Elbows - manufactures name and heat number are illegible.	Reject	2-22-79	M. Moore
1470	8-14-78	M 1.7. Reactor Coolant Pump Motor Flywheel - Data pkg does not have a signed B & W NPGD Cert. of Conformance.	Doc. Rework		
1471	8-15-78	F-18375. Deformed Bar Anchors, do not meet min. tensil strength according to documentation received.	Use as is	9-13-78	T. Christofferson
1472	8-16 78	M-117AC. Nuclear Service Valves - Items # 11.1, 11.2, 11.3, 12.1 have numerous documentation problems.	Doc.Rework	1-19-79	D. Delaney
1473	8-15-78	F-27832. Zone 5A Rip Rap - mat'l received on ticket # 77389 does not meet size requirement called out by PO.	Reject	9-27-78	L. Montreuil
1474	8-17-78	M-125C. Numerous documentation problems on Valve s/n 5205-21-1-9, 10"HCB-GT-DRL	Doc.Rework	1-19-79	D. Delaney
1475	8-17-78	M-125C. Numerous Doc. problems on valves s/n 5205-06-1-1,2,3,4	Doc.Rework	1-19-79	D. Delaney
1476	8-17-78	M-125C. 4 Valves, missing repair verif. reports, paint flaking off valve operator, heat charts not legible/traceable	Use as is Doc. Rework		
1477	8-17-78	M-117AC. Doc. problems on 2 vlaves, s/n 4632-16-1-92 & 4632-16-1-94.	Doc.Rework	1-19-79	D. Delaney
1478	8-17-78	M-117AC . Doc. problems on 4 valves s/n 4632-13-1-90, 88,89,87	Rework Doc.Rework	3-12-79	L. Brown
1479	8-17-78	F-28362. Mainstream Anchors & Restraint Supports - 3 Beams delivered to jobsite with numerous Doc. problems.	Rework	5-17-79	E. Dutton
1480	8-18-78	CRD Primary AC Breaker - Relative humidity at which units were stored exceeded 60% requirement.	Use as is	11-22-78	K. Nilson
1481	8-21-76	Dwg. C-416. Embeds 601-3-12 & 601-3-13 were installed out of Dwg. design elev.	Use As Is	10-13-78	P. Vanderveer
1482	8-21-78	Civil QC (Survey) Settlement in the Diesel Generator Foundations and Structure			
1483	8-21-78	M-215. 4 pcs 6" Sch. 10 Tees - Heat # on Certified MTR does not agree with that stamped on pipe.	Doc.Rework	9-29-78	M. Donovan
1484	8-21-78	M-215. 6 pcs 12" Flanges - Form G-321D was not included on documentation pkg.	Doc.Rework	8-31-78	T. Christofferson

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1504	8-30-78	E-20. Electrical Cable Penetrations - Doc. pkgs & Qualification Test have not been supplied by vendor.	Doc.Rework		
1505	8-30-78	Field Weld #17R2 - Dwg. M612 Sh 8 was excavated & rewelded w/o the W-1.CO being issued to the field.	Use As Is	11-3-78	J. C. Huron
1506	8-31-78	M-64. Emergency Diesel Oil Day Tank - Doc. pkgs contain illegible MTR's, Heat number discrepancies.	Doc. Rework	5-16-79	D. Delaney
1507	8-31-78	J-275. Cabinets, Engineered Safety Isolation Sys - Numerous Documentation problems. Aux. Bldg Level 354	Doc. Rework	12-14-78	D. Delaney
1508	9-1-78	F-29237. Wide Flange Beam - One Beam, Heat # L0647 meets neither yield nor tensile requirements.	Doc. Rework Reject	1-17-79	C. Gwin
1509	9-1-78	F-29202. 1½" A449 Rod - Material is not marked/ certified MTR's do not show required chemical results.	Rework	9-12-78	J. Slifer
1510	9-1-78	C-24. Sluice Gates/Stem Guides - Stem Guides received for OM-91 A & B are not correct size.	Reject	11-6-78	C.Cwinn
1511	9-1-78	C-24. Sluice Gates/Stem Guides - Stem Guides received for OM-96 ABC & D are not correct size.	Rework	11-6-78	C. Gwinn
1512	9-1-78	J-201. Cable Risers - No Quality Verification Documentation has been received.	Doc.Rework	2-20-79	D. Delaney
1513	9-1-78	F-22282. Stud Bolts w/2 nuts - Material received with no C-321D or Quality Verification Documentation.	Doc. Rework	11-6-78	R. A. Montreuil
1514	9-6-78	C-128. Omitted Rebar in the bottom mat of the "Ring Wall" footer. Tank Farm, Tank # 2T-60.	Std.Repair	9-19-78	S. Gelnett
1515	9-6-78	C-384. Struc. Embeds - were moved and are out of tolerance. So. Sec. Shield Wall @ 685', W. Sec. Shield	Wall @ 685'	9-13-78	P. Vander Veer
1516	9-6-78	M-204. FSK-M-2HBC-3-3 - Line has been bent, resulting in a approx. 2 degree permanent set.	Use as is	10-13-78	L. Brown
1517	9-6-78	M-204 Min Wall Thickness is not in accordance with requirements.	Rework	4-6-79	E. Urbanawiz
1518	9-7-78	M-611-5. FW #38 Root Pass was was welded with a purge gas flow rate of 45 CFH (10-15 CFH required)	Use as is		
1519	9-7-78	M-611 sht 7 Fieldwelds #11 & 12 - welder not qualified for the thickness of the material welded. Aux. 605'	Use as is	1-9-79	J. Huron
1520	9-6-78	J-275AC. Analog Isolators - C-321D forms were not received.	Doc.Rework	12-14-78	D. Delaney
1521	9-6-78	J-207AC. Engineered Safety Features Axtuation Sys - Panels painted incorrect color/Elec. Test Reports not recd.	Doc.Rework	10-19-78	J. Slifer
1522	9-7-78	M-104A. 6" 90 L/R Elbows - Documentation & Marking problems	Doc.Rework	10-2-78	L. Brown

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1542	9-15-78	F-29779. NF Hanger Material - Material received without traceability to the proper purchase Order.	Doc. Rework	4-4-79	R. Valentine
1543	9-15-78	F-29257. Welded Beam Attachment - Items were shipped with the wrong size bolt & nut.	Reject	3-16-79	R.Valentine
1544	9-15-78	F-29779, 29777, 29400. Material arrived without documentation.	Doc. Rework	10-24-78	R. Yonekawa
1545	9-15-78	F-29347. Misc. Hanger Components - Quality Verification Documentation has not been supplied by the vendor.	Doc. Rework	2-13-79	R. Montreuil
1546	9-15-78	F-29074. Grade B Pipe - G-321D Forms required by the specifications have not been supplied.	Doc. Rework	11-30-78	R. Yonekawa
1547	9-15-78	Dwg. C-272. Aux. Bldg. Removable Plugs - Bent anchor bolt, distorted or damaged lifting rings, grouting not witnessed.	Rework, Repair & Use As Is		
1548	9-15-78	G-27. Incorrect NDE was performed on Field Welds on Dwg. M-619 Sh.3	Use as is		
1549	9-18-78	F-3107. Recessed Pins - Certification of heat treatment for pins MK 8.3P2 is illegible.	Doc.Rework	10-17-78	C. Gwinn
1550	9-18-78	F-29015. Misc. SS Plates - Form G-321D receiv l was wrong Rev. incorrect no. of pc's listed.	Doc.Rework	9-26-78	C. Gwin
1551	9-18-78	F-29210. Hex. Nuts - Material sent does not agree with what is listed on the Certified Material Test Report.	Doc Rework	11-1-78	J. Gray
1552	9-19-78	E-20. three weld neck flanges have bolt hole wrong position 2Z-102 and 2Z-101	Rework	10-9-78	K. Nutaitis
1553	9-20-78	C-233A-F-28362. The quanities of documentation in the data package does not agree with summaries on G-321-D	Doc Rework	10-25-78	J. Slifer
1554	9-20-78	J-207. Electrical Test Reports have not been supplied for panels 1C43 and 1C44.	#1 Doc Rework #2 Rework		
1555	9-18-78	M-1.6. QA Data pkg. supplied for Main Feedwater Header Assemblies A 122-212-55-1 &2 - No Hydro.	Doc. Rework	3-9-79	R. Valentine
1556	9-21-78	E-20. Replacement Cable, Thermofit & Gaskets - No Form G-321D or Quality Doc. has been received.	N/A Doc. Rework	11-13-78	J. Slifer
1557	9-21-78	C-233. Misc. metal-tank farm embeds - Dwg. list metals as 'Q', embeds were field procured & fabbed per non-Q.	Use AS Is	~~1-12-79~~ ~~10-18-78~~	~~A. Iarach~~ 5-23-79 ~~S. Kirker~~ S. Kirker
1558	9-22-78	F-30185. Bolt heads not marked with manufacturer's Identification mark.	Reject	10-17-78	T. Christoffersen
1559	9-22-78	E-7. No documentation or G-321-D was received for for the material - Control Centers designated Class IE	Doc. Rework	10-26-78	S. Kirker
1560	9-25-78	M-14. Hold down holes drilled to wrong diameter.	Repair	2-8-79	F. Mahala

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1561	9-26-78	M-1.14. Bottom rear drain boss was found uncovered during installation. Foreign object in cooler next to Boss	Rework	10-25-78	C. Fugate
1562	9-26-78	F-28509. Material received without any manufacturers mark	Reject	10-20-78	K. Deitz
1563	9-28-78	Elec. Penetrations - No evidence of QC acceptance as to verify the quality, integrity or physical accep. of the inst.			
1564	9-29-78	F-27314. Items were not furnished in accordance with the requirements of Boiler & Press. Vessel Cde. Pipe out of round	Doc. Rework	11-3-78	J. Gray
1565	9-28-78	F-29257. , Actual eye nut size received is 3/8", while no ½" size has been shipped	Doc. Rework	3-24-79	B. Mac Glashan
1566	9-29-78	Poseyville Storage Area. Storage area key identification markers & numbers are missing, and damaged	Rework	10-26-78	J. Spence
1567	10-2-78	C-230. Excessive slump. 3 cu. yds. on Trk#29Ticket 29966 were placed in DG Bldg. wall#5 with 6 ½" slump	Use as is	10-30-78	S. Kirker
1568	9-29-78	F-25449. Instrument Tubing listed on the IR, with code #'s W040541, W040543, W040593, W042594 hardness below spec.	Use as is	12-26-78	B. McGlassen
1569	10-2-78	F-30536. Carbon steel bolts were received instead of Austenitic Steel as required. no certificate/compliance	Reject	12-20-78	K. Deitz
1570	10-2-78	F-30185. Bolt Heads were not marked by manufactuerer 1,712 ea. 3/8"-16x1", A-307 Screws various sizes.	Reject	11-20-78	J. L. Gray
1571	10-2-78	C-208. Loss on ignition exceeded the max by 0.6% Type II portland cement.	Use as Is	10-9-78	R. Siple
1572	10-3-78	C-230. 3 of 6 c.y. from ticket No. 30027 was placed on placement C(572)a'of 9-29-78 with end temp 77°	Use As Is	10-9-78	P. VanderVeer
1573	10-3-78	F-27314. 2½" Sch 40, 3" Sch 160, 4" Sch 10, 4" Sch 40, #2 N/A ASME SA-312 R.L. Pipe Items not furnished in accord with Boiler and Pressure code.	Doc. Rework	12-26-78	J.L. Gray
1574	10-4-78	E-21, E-22, E-26 Various P.O. Requirements not met for 600V Cable (Control & Power Cable)	Use as is		
1575	10-4-78	F-3107. Documentation required is neither traceable or legible- no mill test report for Heat code 4154.	Doc. Rework	11-3-78	C. Gwinn
1576	10-4-78	E-20. Electrical Penetration Assemblies had leak rates greater than allowed, when tested 9-26-78.			
1577	10-5-78	F-27952. No certificate of compliance for covering material	N/A	11-7-78	J. Slifer
1578	10-6-78	M-4. Make Up Tanks #IT-58 Lower Boss on west side was was found uncovered.	Rework	5-23-79	C. Fugate
1579	10-9-78	C-231. Variation in the plumb Unit 2 North secondary shield Wall	Use as is	1-11-79	D. VanderVeer

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1580	10-9-78	Dwg. M-4 Lower boss on the East side of 2T-58 was found uncapped. violates class C cleanliness	Rework		
1581	10-9-78	F-27660. Support struts are rotated on their axis of aligment not allowing fit up with web flanges	R eject		
1582	10-10-78	F-31368. No G-321-D form supplied for threadolet, stamping does not agree with C of C, wrong ASME code.	Doc.Rework	11-2-78	M. Donovan
1583	10-11-78	M--2.00. 2P-05B Heat shielding on the turbine of 2P-05B was badly damaged	Rework		
1584	10-11-78	Part no. OM91A &OM91B Sandblasted Matwrial and Rust is located on the Gate/Stem lifting Device	Rework		
1585	10-12-78	1P-05B Heat Shielding on Turbine was damaged slightly during corrective work on NCR-1560	Rework		
1586	10-13-78	E-42. Dwgs. E-609,536,532. Conduits show evidence of oxidation @ point of embedment.	Rework	1-23-79	J.Kexel
1587	10-16-78	Dwg. E537. Conduit 2AC012 has been damaged by drilling the concrete slab for dowels at el. 614'	Repair	10-31-78	A.M. Lobrovich
1588	10-16-78	1p-05A. Outboard motor mounting holes have been drilled ½" off location. Aux. feedwater pump.	Rework	5-11-79	M. Guliano
1589	10-[illegible]	F-30537. No manufacturer's identification Mark	Reject	1-30-79	J. Gray
1590	10-[illegible]	[illegible]. Quality Verification Documentation Packages [illegible] not been received from the vendor	Doc Rework		
1591	10-[illegible]	[illegible]-26A. Flued Head 1Z-39 has a large ARC burn and [illegible]	Repair		
1592	10-19-78	E-21. 500' on Reel #7220-E-21-AC-1A-H-1977 had imperfections in the insulation.			
1593	10-19-78	E-12. Battery Racks. A deficiency exists regarding additional Isolation Bars.	Rework		
1594	10-20-78	C-167. #8 Rebar was not embedded in three locations el. 702' and 704'	Repair Rework		
1595	10-20-78	F-28736. No manufacturers identification Mark	Reject	12-1-78	J. Slifer
1596	10-23-78	C-233A. Beam 10B3 was fabricated contrary to dwg.	Reject	5-21-79	S. Colnett
1597	10-23-78	F-27314. 4 pcs. of 20' random lenght pipewere received damaged from the vendor.	Reject Rework		
1598	10-23-78	F-27305. No C of C pipe caps and El's insuficient Doc.	Rework Reject	1-31-79	R. Va[illegible] lemtine

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1599	10-25-78	FSK-MPY-98. 2"-1-HBC-498 and return line and return line 1½-1-HBC-4 are installed outside class I boundary	Rework		
1600	10-25-78	F-29361. 4 U-bolts were shipped without being listed on packing slip and therefore without certification	Doc.Rework	2-20-79	B. McGlashan
1601	10-25-78	J-207. No documentation or G-321D form	Doc. Rework	12-15-78	J. L. Sli
1602	10-25-78	F-29400. supplier has shipped 300 ft. of 1 3/4 diameter bar while certifying only 200 feet.	Doc. Rework	11-30-78	R. Yonekawa
1603	10-25-78	M-64. Incorrect heat numbers on Heat number chart and welding control sheets.	Doc. rework	2-20-79	D. Delaney
1604	10-26-78	M204. 18 inch flange on pipe spool 2GCB-32-611-3-3 has a radial deficiency on the raised portion of flange.	Rework	12-14-78	L. Brown
1605	10-26-78	F-31705. Nuts have no manufactuer's mark.	Reject	11-29-78	J. Gray
1606	10-27-78	J-206. Valve item #4.9 tag # 5M6S2GN2, item #4.13 Tag# 5M15S2Gn2 No Quality Verification Documentation.	Doc.Rework	5-24-79	D. A. Delaney
1607	10-27-78	Spool 1HBC-4-619-6-1. Flange Face mismatched to Butterfly Valve	Rework		
1608	10-30-78	F-3107. 5 pages of certified Material Test Reports instead of the 6 stated on the G-321D.	Doc. Rework	12-7-78	R. A. Montreuil
1609	10-30-78	F-3107. Shop Inspector released 42 pages of Certified Material Test Reports contrary to this 39 were received	Doc. Rework	11-7-78	R. Montreuil
1610	10-30-78	F-3107. Discrepiancies in G-321D.	Doc. Rework	11-7-78	R. Montreuil
1611	10-30-78	M-104A. Base metal repair on Spool 2GCB-16-S613-2 shows linear indication in the horiz. weld seam.			
1612	10-30-78	J-204. Control panels 1C114 and 2C114, No Quality Verification on Doc. Package.	Doc. Rework		
1613	10-30-78	F-3107. Discrepencies in G-321-D.	Doc. Rework	11-14-78	R. Montreuil
1614	10-30-78	J-201. Number One Operator's Desk OC01, the layout of equip. on the operator's desk Tag #OC01 doesnt agree with	Rework; use J-748		
1615	10-31-78	Dwg. E-532 Battery Charger & Inverters, anchored in ½" dia. bolts instead of 3/4" dia bolts	Rework	1-11-79	A.M. Lobrovich
1616	10-30-78	E-205. Modification Equipment for Metal Clad Switch-gear. Mounting brackets arepositioned off bolt center line.	Rework	1-26-79	A. M. Lobrovich
1617	11-1-78	M-117. Four Nuclear Service Valves No Doc. supplied.	Doc. Rework	1-30-79	D. Del aney

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1656	11-17-78	E642 sh. 2. 3/4" Hilti Stud Type Anchors were inatalled with insufficient hole depth, proper angle of holes	Rework	1-10-79	K. Brinster
1657	11-17-78	Anchor wells to OC-180 welding on control panel without QCIR W-1.00 being issued.	Use As Is		
1658	11-20-78	1P-60A. Decay Heat Removal Pump. oil is leaking out of rear bearing and mechanical seal of pumpis laying in shaft	Repair		
1659	11-20-78	1P-64B Reactor Bldg. Spray Pump. tubing that goes from pump heat exchanger to pump mechanical seal broken off.	Rework		
1660	11-20-78	2P-64A. Reactor bldg. spray pump. piping that runs from pump heat exchanger to the suction flange is broken off.	Rework		
1661	11-20-78	1P-60B. Decay Heat Removal Pump. oil is leaking out of rear bearing and mechanical seal laying in shaft support	Repair	4-2-79	F. Mahala
1662	11-20-78	2P-60B. Decay Heat Removal Pump. No oil in the low oil level indicator on the pump. oil level should be full	Use as is	12-8-78	K. Nilson
1663	11-20-78	M-123. Target Rock Valve, using limitorque Actuators ACA GT 1MO-0110-PRL found to be uncrimped and unstaked	Rework	5-4-79	M. Guliano
1664	11-21-78	M-342. 1EBB-5-S638-14-6, 1ELB-10-S631-1-7. Two spools listed above have flaking rust over entire interior surface.	Rework		
1665	11-21-78	M-169. Electric Hydrogen Recombiners certified material test report, supplied is illegible and untraceable.	Doc. Rework	11-29-78	D. A. Delaney
1666	11-21-78	M-75. Service Water Pump Motors. stored outside contrary to requirement they be housed in waterproof structure.	Use As Is	1-23-79	C. Fugate
1667	11-22-78	M-634. Pipe Spool 2HBC-23-634-3-5. has a 2 inch deficiencies on the raised portion of the flange surface.	Rework	3-7-79	L. Brown
1668	11-22-78	F-28736. Two direction Tube clamp QCIR was iniated but material is unavailable for inspection.			
1669	11-28-78	M-18. Emergency diesel generator engine. E-1-519 is stored outside contrary to spec.	~~REwork~~--- Use AS Is	3-22-79	C. Fugate
1670	11-28-78	M-123. Nuclear Service Valves. Wrong revision to the G-321-D forms were used in doc pkg.	Doc Rework	1-19-79	D. Delaney
1671	11-28-78	M-120. Nuclear Service Valves. Quality verification documentation package has not been received for valve.	Doc Rework	1-30-79	D. Delaney
1672	11-21-78	F-30666. Burndy Luga-Type YAV8CL1 No statement of conformance has been received.	Doc. Rework	12-13-78	R. Montreuil
1673	11-29-78	F-30875. 2000 Pcs. $\frac{1}{2}$" x $1\frac{1}{2}$" Hex bolts. No certificate of compliance received for the above.	Doc. Rework	1-30-79	R. Montreuil
1674	11-29-78	C-305. Cut rebar. #6 rebar was cut while removing an expansion anchor cutting was out of spec.	Use as is	1-12-79	B.T. Cheek

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1694	12-8-78	M-1.27 Pressurizer Spray Control Valves. The dial Indicators of F-1-256 were notfunctioning whenvalves were cycled.	Rework	1-26-79	C. Fugate
1695	12-11-78	F-31391 275Pcs. of ASTM-A-449 Bolts Material Test Reports are unavailable due to lack of traceability tospecific lot.	Reject	1-31-79	M. Moore
1696	12-11-78	M-123-C Decay Heat Removal & Core Flood Tank 4-12" ACA-GT-R Valve. Wrong page Number on G-321-D	Rework	1-30-79	K. Deitz
1697	12-11-78	M-125-cc Nuclear Service Valves. No documentation was received on M-125-c.	Doc. Rework	1-29-79	J. Gray
1698	12-11-78	M-120-AC Nuclear Service Valves. Doc. doesn't correspond with G-321-D.	Rework	1-23-79	D. Delaney
1699	12-12-78	M-123-CC Nuclear Service Valve. Documentation doesn't correspond with G-321-D.	Rework	1-19-79	D. Delaney
1700	12-12-78	G-305 ENERPAC Unit w/gauge No. BPC 1444 was used and found to be out of tolerance.	Rework	1-10-79	K. Brinster
1701	12-12-78	M-120-AC Nuclear Service Valves Valve is stamped class 3, and should be class 2.	Rework	1-30-79	D. Delaney
1702	12-13-78	M-342 Two Shop Fabricated Pipe Spools, have flaking rust w/ possible pitting on interior surface of pipe.	Rework	5-10-79	M. Moore
1703	12-14-78	M-326 2½"-1HCC-87-H1, has 4 pcs. improperly identified.	Rework		
1704	12-14-78	E-20 Cable Penetrations Wire N-3 on penetration 2Z133 received pinched at 24 and 25 inches from the end.	#1 rework #2 reject		
1705	12-14-78	F-32187 Expoxy Container for part Aof cono/weld primer was received damaged and leaking.	#1 Use as is #2 Doc Rework	1-30-79	R. Montreuil
1706	12-14-78	E-13 DC Distribution Centers, two pages oftest certification for Esterline Angus Recorders,are illegible.	Doc. Rework		
1707	1244-78	J-258 Nuclear Service Butterfly Control Valve Transducers Name Tags Were wrong.	N/A	3-29-79	D. A. Delaney
1708	12-14-78	M-1.10 Maintenance Inspection, unable to locate material for inspection.	Rework	1-25-79	C. Fugate
1709	12-15-78	F-31834 Carboline 191 HB, Were Received Damaged, and exposed to air.	use as is		
1710	12-15-78	E-39 Seismil Wireway Support, Weld was omitted.	Use As Is	2-5-79	J.C. Huron
1711	12-15-78	G-27 Field Wled No. 26, was welded without a form WR6 or QCIR being issued for Doc.	Rework		
1712	12-15-78	E-7 Four Thermal Mag. Breaker & Rem ote Operators,Bechtel Shop Inspector 337 Released 4 Rotory Breaker Operators.	Reject		

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1713	12-15-78	F-31170. 4 pcs. Type # 185 Horizontal AC Ammeter/ Volt Meter no statement of conformance.	Doc. Rework	1-24-79	M. Moore
1714	12-14-78	F-1-390. Act. 2.3 requires desiccant to be changed in the pipe spools. this requirement not fulfilled.		12-21-78	C Fugate
1715	12-18-78	M-104 Large Pipe Spools, Wrong Weldneck on pipespool.	Use As Is	2-14-79	F. Starr
1716	12-18-78	M-104A. Spool OHBC-19-S619-6-1, &OHBC-20-619-7-7 received with wrong thickness.	Use As Is	2-12-79	J. Cabral
1717	12-18- 78	M-104. Nuclear Pipe Spool/ was received containing water and surface rust,nodesicant was found inside spool.	Rework		
1718	12-18-78	M-127 Nuclear Service Valves,were stamped with wrong identification number	Item#1 Rework Item#2 N/A	1-11-79	K. Deitz
1719	12-18-78	M-20-2-4 Service Water Traveling Screens,chain sprocket was delivered bent out of alignment.	Rework	5-17-79	M. Guliano
1720	12-19-78	E-602 Seismic Junction Box Support, was welded to the embed without a project approved drawing.	Rework		
1721	12-18-78	M-104. 2½"x1½" Concentric Reducer Ht. # HMB-6SE, Material received without G-321-D.	Doc. Rework	1-10-79	J. L. Gray
1722	12-18-78	M-104. 14" Sch 30 Spool pcs.defeciencies in documentation	Rework	2-23-79	M. Moore
1723	12-19-78	2½-HBC-178-H17. 3 pieces improperly identified.	Rework		
1724	12-20-78	F-31749 Bare Stainless Welding Electrodes, were wrong and no CMTR was received.	Reject	1-29-79	K. Deitz
1725	12-21-78	E-12 Station Batteries, numbered cells not traceable to quality verification documentation.	Doc. Rework		
1726	12-21-78	C-23 Cut Rebar,Bond Beam was cut without approval.	Use AS Is	1-9-79	/S. Kirker
1727	12-22-78	E-2.0 Tray,discrepency of tray stenciling.			
1728	12-22-78	C-304 Lower Support Pressurizer Ring , Bechtel NDE Level II did not Include ut report.	Use As Is	2-6-79	B. Daly
1729	12-22-78	C-305 Expansion Anchor Installation, were installed by electricians not so qualified.	use as is		
1730	12-26-78	M-56 Chilled Water Pumps, had an incorrect serial number in block 20.	Doc. Rework	3-7-79	/D. Delancy
1731	12-26-78	E-22&E-26 Cables, maximum tensile applied was greater than it should have been.	Reject		

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[2] NCR NO.	[3] DATE	[4] NONCONFORMANCE DESCRIPTION / REMARKS	[5] DISPO.	[6] DATE NCR CLOSED	[7] CLOSED BY
1750	1-9-79	E-11-AC. Q-mat'l indeterminate in regards to satisfactory completion of qualification test req'mts per spec E-11			
1751	1-9-79	E-13-AC. Q-mat'l indeterminate in regards satisfactory completion of qualification test req'mts per spec E-13			
1752	1-9-79	E-19-AC. Q-mat'l indeterminate in regards to satisfactory completion of qualification test req'mts per spec E-19			
1753	1-9-79	E-21-AC. Q-mat'l indeterminate in regards to satisfactory completion of qualification test req'mts per spec E-21	Use as is	2-23-79	R. Moray
1754	1-9-79	E-22-AC. Q-mat'l indeterminate in regards to satisfactory completion of qualification test req'mts per spec E-22			
1755	1-9-79	E-26-AC. Q-mat'l indeterminate in regards to satisfactory completion of qualification test req'mts per spec E-26	Use as is	2-23-79	R. Moray
1756	1-9-79	E-45-AC. Q-mat'l indeterminate in regards to satisfactory completion of qualification test req'mts per spec E-45			
1757	1-9-79	E-49-AC. Q-mat'l indeterminate in regards to satisfactory completion of qualification test req'mts per spec E-49			
1758	1-9-79	E-205-AC. Q-mat'l indeterminate in regards to satisfactory completion of qualification test req'mts per spec E-205			
1759.	1-9-79	J-201-AC. Q-mat'l indeterminate in regards to satisfactory completion of qualification test req'mts per spec J-201			
1760	1-9-79	J-202-AC. Q-mat'l indeterminate in regards to satisfactory completion of qualification test req'mts per spec J-202			
1761	1-9-79	J-204-AC. Q-mat'l indeterminate in regards to satisfactory completion of qualification test req'mts per spec J-204			
1762	1-9-79	J-207-AC. Q-mat'l indeterminate in regards to satisfactory completion of qualification test req'mts per spec J-207	Use as is	5-18-79	R. A. Moray
1763	1-9-79	J-255-A. Q-mat'l indeterminate in regards to satisfactory completion of qualification test req'mts per spec J-255			
1764	1-9-79	J-256-AC. Q-mat'l indeterminate in regards to satisfactory completion of qualification test req'mts per spec J-603			
1765	1-9-79	J-258-AC. Q-mat'l indeterminate in regards to satisfactory completion of qualification test req'mts per spec J-605	Use as is	5-14-79	R. A. Moray
1766	1-9-79	J-275-AC. Q-mat'l indeterminate in regards to satisfactory completion of qualification test req'mts per spec J-275			
1767	1-9-79	M-14-AC. Q-mat'l indeterminate in regards to satisfactory completion of qualification test req 's per spec M-14			

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	6 DISPO.	DATE NCR CLOSED	CLOSED BY
1823	1-18-79	M-106 ITT GrinnellPipe Hangers,no Quality Veric.. on Documentation was received with shop order (EMD-263)	Doc. Rework		
1824	1-18-79	M-106 ITT Grinnell no Quality Verification Documentation was received with shipment,also material location is unknown.	Doc. Rework	3-16-79	R. Montreuil
1825	1-18-79	C-305 Seismic Conduit &Box Supports, these items have supports attached to block wallswhich is not inacclrdancewith G-305			
1826	1-20-79	J-253 ATmospheric Steam Pump Valves,tags for valves contain the wrong item number and valve I.D. number.	Doc. Rework		
1827	1-20-79	M-106 Bolts, no quality verification documentation was received for ITT Grinnell shop order EMD-149-01.	Doc. Rework	5-8-79	R. Montreuil
1828	1-20-79	C-304 Sleeve MFA 2A&2B, was done without an open Inspection Record.	Use AS Is		
1829	1-22-79	C-304 Fab. of angle frames, was accomplished without an open, inspection record.	Use As Is	2-15-79	J.C. Huron
1830	1-19-79	C-231 Concrete Curing, temperature were to low for to long of time.	Use As Is		
1831	1-22-79	F-32624 Smls Butt Weld Elbows,G-321-D received wrong purchase spec.	Rework Doc. Repair	1-27-79	B. Mac Glashah
1832	1-22-79	G-24 Misc. Metals, inryco has hever submitted sample panels for approval.			
1833	1-23-79	M-204 Voltage Measurements indicated that 3 were welded to less volts.	Use As Is	3-23-79	J. Huron
1834	1-23-79	F-10-205 Station Batteries, Maintainance Deficiency.	Rework	3-22-79	M. Donovan
1835	1-25-79	C-50B-AC Emergency Airlock, Discrepancies for qaulity Verification documentation was found.	Use As Is	3-19-79	B. Mc Glashan
1836	1-25-79	F10-145 Service Water Pump Moters, power supply to motor space heaters has been disconnected since 1/12/79.	Use As Is	3-14-79	C Fugate
1837	1-25-79	C-304 Installation of Cable Tray Supports, voltage measure was outside the WPS specified value.	Use As Is		
1838	1-26-79	M-118 Main Steam Isolation Valve,Wrong Rev. on G321-D was inQVD pkg., valve reducers have wrongheat no. doc. don'tcorrs. with Q.V.D.pkg.	Doc. Rework	5-30-79	D. A. Delaney
1839	1-26-79	C-2 Embeded Channel, was cut out.	Uae As Is	3-6-79	/ J. Moyers
1840	1-29-79	M-134. Page 3 of 3 for Code Data Reports on G-321-D not received with valve shipment.	Doc. Rework	3-20-79	R. Valentine
		C-439 Pump return line restraint e[illegible] embed, were installed	Rework.	12-20-77 6-19-79	P. Vanderveer [illegible] Kirby

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1842	1-29-79	M-342 spool,6" -1DBC-7-633-4-1, has green sealant,on top of pipe., leaving integrity indeterminate.	Rework		
1843	1-29-79	E-7-27-4 Motor Contrâl Center,2B43 is missing one back-plate.	Rework		
1844	1-30-79	F-32915 80 Cubic Ft. of Sauereisen No. 72 Special Casting Grade. Bagsreceived not marked Castable.	Reject	2-9-79	T. Estes
1845	1-31-79	E-36 Conduit2BJA024 ends at raceway 2BBB01 & should end at raceway 2BKP01.	Rework	2-8-79	J. Kexel
1846	2-1-79	F-32022 1pc. 13/4$5' x 10' SA-515 Gr. 70 Plate,certificate of compliance was not received.	Doc. Rework	3-5-79	R. Montreuil
1847	2-1-79	M-204 Pipe Spool 2CCB-24-604-4-6 has a large ARC Burn.	STD Repair		
1848	2-2-79	M-118 Main Steam Isolation Valve, wrong documentation received in Q.V.D. package.	Doc. Rework	5-30-79	D. A. Delaney
1849	2-2-79	C-304 G27, Weld rod Withdrawal &Control ,electrodes were not returned to the rod room within the 4 hour period.			
1850	2-3-79	E-12. Battery rack protective paint has been damaged during installation.	N/A	5-8-79	A. Lobrovich
1851	2-3-79	M-204. FSK-M-2HBC-191-1. SW 1 and 9 were welded without a W-1.00R being initiated.	Use As Is		
1852	2-2-79	M-139 Nuvlear ServiceValves valve no.49.8 bottom page cut off, 49.9 is illegible.	Doc. Rewrk	3-13-79	D. Delaney
1853	2-2-79	C-70 Bearings,no documentation was received & on S/N365645 baringe was indeterminate.	Reject	2-23-79	R. MacGlashan
1854	2-2-79	F-31095. Variable Spring Hangers, no certificate of compliance was received.	Doc. Rework	2-13-79	R. Montreuil
1855	2-5-79	E-60 Q-mat'l indeterminate in regards to satisfactory completion of qualification test req'mts. per spec E-60.			
1856	2-6-79	E-60 Incorrect documentation, & incorrect page ocunt.	Doc. Rework	2-20-79	T. Estes
1857	2-6-79	G-4.1 Crimp Tools were returned with faulty ratchet mechanisms,made terminations on elect.penetration indeterminate.			
1858	2-6-79	F-32161 312 Hvy. Hex Huts Stud Bolts, no documentation was received.	Doc. Rework	2-19-79	T. Estes
1859	2-6-79	M-305 Pipe G-321-D waw not received with documentation on this order.	Doc. Rework	2-7-79	M. Moore
1860	2-6-79	F-30341 Structural Tube was receiv[illegible]d without CMTR no.	Doc. Rework	2-1-79	M. Moore

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1898	2-19-79	E-2.1-60 Cable Tray Seimic Support. DCN 7 Shows section of bottom horizontal member was removed & shouldn't have been.	Rework	3-28-79	D.C. Squires
1899	2-19-79	E-6.6-5c Bolting Material , bolts identified KB7-X1,have notiaable crack in each bolt.	Reject Rework		
1900	2-20-79	M-204 M-632 SH.1 Incorrect welding procedure used on FW-8 ELB-10 and FW-15, ELB-9.	Use As Is	3-16-79	J. Huron
1901	2-21-79	C-208 Preemxed Non-Shrink Grout,no results of the shrinkage tests was received.	Doc. Rework	3-22-79	T. Leib
1902	2-22-79	M-201 1pc. 4"x3" Sch. 10S Concentric Reducer SA-403 WP-304 G-321-D was not received with documentation.	Doc. Rework	4-30-79	M. Moore
1903	2-22-79	M-106 2 Hanger Assemblies, no G-321-D-1A & Quality Verification Documentation was received on ITT Grinnells Shop orders	Doc. Rework	4-25-79	R. Montreuil
1904	2-22-79	Fpg-7.000 Purification DEmeneralizer, has a 3" arch strike on it.	Rework		
1905	2-23-79	M-342 Spools & Valves are covered with a gross coating of concrete.	Rework		
1906	2-23-79	E-755 SH.1 Rev.3/E-750 SH.1 Rev. 6 Tray Support, indeterminatebecause no acceptance criteria for this installation.	Rework		
1907	2-23-79	M-204 Flued Head,has a large Arc Strike inside of it.	Rework		
1908	2-23-79	M-1.16 Makeup Pump-2.P.58 B, Electrical Connection terminal boxhas 2"long split inrear of metal box.			
1909	2-23-79	J-207 Control Panels 1C35, 2C35, 1C43, 2C43, 1C44, 2C44, do not have nameplated identification.	Rework		
1910	2-23-79	E-538 2" GRS Conduit 2BD016, was damaged by drilling the concrete slab.	Std. Repair		
1911	2-23-79	E-42 Electrical Box Supports are welded across flange of beam.	Use As Is		
1912	2-23-79	C-230 Concrete Quality-Excessive Slumps, resulting in 24cu. yds. of indeterminate high slump concrete was placed..	Use As Is	3-7-79	S. Kirker
1913	2-23-79	E-29821 Two Plates are not marked to identify traceability with the CMTR.	Doc. Rework	3-23-79	R. Montreiul
1914	2-26-79	E-616, & E716 MCC Risers, Cable Tray Risers are supported with angle brackets instead of being welded.	Rework	5-8-79	D. Squires
1915	2-26-79	C-304 Seismic Conduit Support was fabricated&installed prior to date.,drawing was used prior to being issued for construction	or Use As Is	3-20-79	J. Miller
		C-233Misc. Support Steel, Items were received without	Rework	2-28-79	R.Montreuil

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2 NCR N.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1917	2-28-79	E-26 600 volt control cable no G-321-D was received with documentation. Reel was sent to site by error.	Doc Rework Reject		
1918	2-28-79	J-253 Atmospheric Steam Dump Valves, tags for valves contain wrong item & valve I. D. Number.	Doc. Rework		
1919	2-28-79	M-204 Pipe Spools. has a large arc burn Approx 8" long & 1/2" wide.	Rework	3-14-79	F. Mahala
1920	2-28-79	M-214 Yard piping lines cannot be established therefore are indeterminate.			
1921	-1-79	E-632 Horizontal and vertical components of tray 1AJR06 welded to "C" section brackets contrary to dwg. detail.	Use As Is	3-28-79	C. Cameron
1922	3-1-79	C-304 Q-listed embed has gouges in excess of 1/32" to 1/8" at el. 634' SW corner Cont.#1 secondary shield wall	Rework		
1923	3-1-79	C-304 Three type 14 conduit supports were not welded per detail 59, case 6 on dwg. E-42.	Use As Is	3-29-79	D.C. Squires
1924	3-1-79	E-621 Cable tray section 2AKA09 has one rung which is not fully secured to the tray.	Rework		
1925	3-1-79	E-36 Conduits 1AJJ003 & 1AJJ012 are not installed per the layout Dwg. E-632, Rev. 5.	Rework		
1926	3-2-79	M-53 Five pumps received with incorrect G-321-D forms	Doc. Rework	5-16-79	R. Valentine
1927	3-2-79	F-32461 purchase order received with no documentation.	Doc. Rework	3-23-79	T. Estes
1928	3-2-79	M-204 Two 3/4" seal weld plugs installed without heat numbers or heat code on line 2HBC-207	N/ A	3-13-79	L. Brown
1929	3-5-79	E-616 Trays, have been installed with only one weld per rail.	Rework		
1930	3-5-79	E-26 2Conductor #14 Cable, doesn't have the asbestos/polyester binder tape betweenouter jacket&individual condc. insulation			
1931	3-6-79	C-230 Concrete, was placed into forms with slumps of 6 1/4 &6", respectively when measured at point of placement.	Use As Is	5-17-79	F. Vanderveer
1932	3-6-79	C-304 Miscellaneous Steel,welds are in violation of C-304 &the close proximity makes welds inaccessable for repair.	Use As Is	4-11-79	D. C. Squires
1933	3-6-79	M-134 Valves, Instructions for installing valves were not followed, leaving integrity of internals of valves indeterminant			
1934	3-7-79	C-304 QListedC/S Embeds, three gouges have been found on Q-Listed Embeds.			

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1935	3-8-79	F-3107 Plates. was shipped without buyer quality surveillance.	Use As Is		
1936	3-8-79	M-168 Reactor building isolation valves data packages has problems with pages. missing count. &illegible.	Doc. Rework	3-22-79	D. Dealney
1937	3-8-79	E-7 Space Heater Assy's. Received as "Q" listed equipment with "Non-Q" Form C-321-D.	Doc. Rework	5-25-79	R. Valentine
1938	3-8-79	M-134 2" Nuclear Service Plug Valves. were received with conflicting tags:	Rework	3-19-79	R. Valentine
1939	3-8-79	E-42 Cable.outer jacket insulation was damaged.	Rework		
1940	3-8-79	E-15 A.C. Inst. & Cnotrol Panels & D.C. Panels,have four knockouts each.	Use As Is	3-23-79	L. Tilson
1941	3-8-79	E-15 A.C. Inst. & Control Panels.have four knockouts ea.	Use As Is	5-2-79	L. Tilson
1942	3-8-79	Raddographs of welds have incorrect pentrameters used oh them.	Rework		
1943	3-8-79	M-204 Pipe Spools M-639 Sh 14 Spools incorrectly installed with check valved & no soclcolets.	Use As Is	3-12-79	L. Brown
1944	3-8-79	C-231. Cont. #2 El. 659'. Rebar exposed beyond 3/4" clear cover or not embedded, violating spec. requirement.	Repair	4-3-79	P. Vanderveer
1945	3-9-79	C-304 W30X116 Beam, cross flange welding was done without approval of project engineering.	Use as is	4-26-79	J. Huron
1946	3-9-79	W-1.00 Spool 1-ELB-10-S-631-1-7,was weldedto and attachments removed without an open QCIR and fillermaterial withdrawel slip WR-6	STD. Repair		
1947	3-9-79	M-106-AC 1 Hanger Assembly Sketch #1-603-2-2 no documentation on ITT Grinnell's shop roder #139.	Doc. Rework	4-25-79	R. Monteruil
1948	3-12-79	M-168 discrepancies found in Quality verification doc.- packages.	Doc. Rework	5-23-79	B. MacGlashan
1949	3-13-79	Per. F.C.R. C-1690; Two Conduit supports were welded to thicken portion of personnal air lock.	Rework		
1950	3-13-79	DWG E-650.sh. 1 Tray section installed w/o project engineering approval to an FCN.-338	Use As Is	5-14-79	R. Amos
1951	3-13-79	M-204 Pipe Spool 2HBC-109-619-1-10 has permanent welded attachments with no material certification.	Non-nonconformance	5-4-79	L. Brown
1952	3-13-79	F-34286 Expansion Type Anchors, Hilti Bolts were improperly marked.	Reject	5-7-79	T. Estes

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1953	3-13-79	7220-6-27-6WS Seismic conduit support, No allowance is made for down fill progression inW.P.S.P1-A-IH-(structural)	Rewmrk		
1954	3-13-79	C-304 Conduit Supports, was painted prior to acceptance by Q.C. welding.	Rework	4-3-79	C. Groat
1955	3-13-79	E-42 Conduit-4 GRS entering same unscheduled pull box(30x48 x18) . the demensions for thesedo not meet standsrds set in E-42.	Use As Is	4-25-79	J. Kexel
1956	3-13-79	E-42 Conduit -3" GRS 2BC001& 2BC002 are not installed as per E-42.	Rework	3-27-79	J. Kexel
1957	3-13-79	E-42 Conduit-3"GRS 2BA013 is in violation of E-42.	Rework		
1958	3-14-79	M-305 Pipe received on freight bill #85 -300540-2 was bent.	Use as is	5-9-79	M. Moore
1959	3-15-79	C-304-601W Concrete was placed without welding Or QC being notified for final inspection.	Rework		
1960	3-15-79	C-304 Beams have one side each htat has not been welded.	No Nonconformance	3-21-79	J. C. Huron
1961	3-15-79	E20 Electrical Penetration Assemblies2Z139,2Z142,2Z143,2Z144, 2Z146,no qualification test was supplied to field for these.	Doc. Rework		
1962	3-15-79	E-6.0 Preferred A.C. Power Supplies have broked meters on front doors.			
1963	3-15-79	C-305 Expansion Anchors tack welded, & drop-in anchors not installed flush.	Repair		
1964	3-15-79	FCR-E-1290 Conduit Supports, approved are not the ones the field has installed.	Rework		
1965	3-16-79	E-6.0 Preferred A.C. Power Supplies, hastwo missing meters.	Rework		
1966	3-16-79	F-21424 5PRImary Shield Liner Plates wrong amount of material was received.	Doc. Rework	5-22-79	R. Montreiul
1967	3-16-79	Dwg. C-264 No project approved dwg. exists for the conduit supports welded to the tube steel.	Use As Is	3-28-79	J.C. Huron
1968	3-16-79	E-650 Conduit/ Tray Support, for two conduits are attached to added channel without project engineering approval.	Rework	5-15-79	R. Amos
1969	3-19-79	A-52 B. W. #25-Vertical Reinforcing Dowels on the intermed-iate slab side was interrupted at the slab.	Use As Is	4-4-79	S. Kirker
1970	3-19-79	C-208 Embecco Masterflow 713 Nonshrink Grout, no final results of shrinkage tests have been received.	Doc. Rework		
		C-304 Seismic Conduit support, sim: Ar to type 20 fabricated			

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1972	3-19-79	E-2.1 Cable Tray Seismic Support I Beam, steel added to floor beam has incorrect detail.	Repair		
1973	3-19-79	F-34094 22 Control Switches, no statement of conformance was received with these items.	Doc. Rework	3-23-79	T. Estes
1974	3-19-79	A-41 Coating Repair-Galvanized Steel, items are being coated with LPS-heat resistance instant cold cont. galvanized without surface preparation			
1975	3-19-79	PSP-G-1.1 Grouted Equipment Pads, were grouted without Quality Control Inspections.			
1976	3-19-79	E-47 Class 1E and Non-Class 1E Cable not employing separation of six inches where cable enters through floor.	Rework		
1977	3-19-79	P-1.30 Valves : 1mo-0316&2mo-0416 manufactures instructions for installation were not followed.			
1978	3-19-79	E-42 Conduit Supports, has been attached to a wall with 1/2" drop-ins and over size washers.	Rework		
1979	3-20-79	M-204 Spool # 2HBC-151-s-617-8-2 shows it being Grinnel fabricated spool in actuality its incorporated pup piece ht# 31594	N/A	5-9-79	T. Aritola
1980	3-20-79	PSP-3.2 Work-Through NCR1949 work was preformed on conduit support after this NCR was written.	Use As Is		
1981	3-20-79	E-42 Conduit Supports are installed with supports that are not approved by E-42, or any of the latest drawings.			
1982	3-20-79	M-204 Drain & Inst. Connections do not have same configuration as shown on the drawing.			
1983	3-20-79	C Temporary Blockout-B.W. #15 was installed with no FCN issued.	Doc. Rework		
1984	3-20-79	M-204 Drains Vents, & INST, Connections, do not have same configuration as shown on drawing.			
1985	3-20-79	M-204 Drain & Vent Connections, do not have same configuration as shown on the drawing.			
1986	3-21-79	M-204 Spool no. 1HBC-96-s-619-5-3 shows to be a grinnel fabricated spool, actually a puppe, ht.#27733 incorporated into spool.	N/A	5-9-79	T. Aritola
1987	3-21-79	M-204 2HBC-110-s619-2-1b spool has a ground area where an ARC strike was previously.			
1988	3-21-79	C-304 Seismic Box Support Box #2BJ374 has wrong dimension.	Use as is		
1989	3-22-79	C111 Unistrut Welded to liner plate, was welded without a project approved drawing.	Use As Is		

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[2] NCR NO.	[3] DATE	[4] NONCONFORMANCE DESCRIPTION / REMARKS	[5] DISPO.	[6] DATE NCR CLOSED	[7] CLOSED BY
1990	3-22-79	M-204 Spool 2[illegible]CB-15-S613-4-7, shows wall thickness on this spool tobe 0.24[illegible]ld be 0.282.			
1991	3-22-79	M-619-8-57A F[illegible]d #57A was welded without QCwelding being notified & [illegible] was not notified.			
1992	3-22-79	M-204 Spool 2HBC-304-S619-8-3 shows Grinnel Fabricated spool actuality a puppc. HT.#42721was incorporated in without ing approval	N/A	5-9-79	T. Aritola
1993	3-22-79	M-204 Spool0HBC-18-S619-8-3 was incorporated into spool without engineering approval.	N/A	5-9-79	T. Aritola
1994	3-22-79	C-305 Exapnsion Anchors had wrong embedment & spaceing is wrong.			
1995	3-23-79	F-31737. 100 pcs. of the Hilti Kwik bolts not stamped for length identification.	Reject		
1996	3-23-79	C-663 Heat Damage of Missle Shield Slabs, extreme heat caused the embedded plate to warp.	Repair		
1997	[illegible]-26-79	C-305 Anchor Installation expansion anchor holes being drilled within the mininum distance as outlined by spec.	Use As Is		
1998	3-26-79	J-218 Asbuilt condition of tubing & fittings for inst. no. 1PT-1021B conflicts wihth design dwg. without engin. approval.	Rework		
1999	3-26-79	M1-204 10" Butterfly Valve, 2TV-1721-B has several nonconformingitems against this valve.			
2000	3-26-79	M-204 Spool no. 1HCC-65-S603-12-1 has incorporated two stock elbows & two stock pup pieces not in accordance with engin. requirements.	Non-conformance	5-9-79	L. Brown
2001	3-26-79	M-204 Spools shows as being Grinnel Fabricated, in actuality/pup pieces was incorporated without prior engin. approval.	Non-conformance	5-9-79	L. Brown
2002	3-26-79	M-204 Spool OHBC-21-S619-9-4 shows to be Grinnel Fabricated actually it has pup piece incorporated withput engineering requirement.	N/A		
2003	3-26-79	FPE 4.000 Class IE Cableno 1AB5529B has been installed such that minimumm bend radius has been exceeded, its indeterminate.	Rework		
2004	3-26-79	M-305 100-1/2" Hex head screwed plugs&100-3/4"hex head screwed plugs G-321-D wasn't transmitted with shipment.	Doc. Rework	4-9-79	R. Valentine
2005	3-26-79	C-231 Core drilled pemetration wqs drilled at wrong angle.	Use as is	4-23-79	K. Gunser
2006	3-26-79	M-204 spool 2HCB-53-S614-10-1 has had piece added to it without engineering approval.			
2007	3-28-79	E-42 Embedded Conduit 1BA023 was damaged by core drilling the slab.	Repair	3-28-79	J. Kexel

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
2008	3-29-79	M-215 ASME SA-106, Grade B Pipe, was delivered without G-321-D.Material purchased on P.O. F-32945 Q, AEO-8341.	Doc. Rework	5-1-79	R. Valentine
2009	3-29-79	M-305 ASME SA-105 Heat code # 778Insert, inserts received on freight bill#CB227916 has no marking on it.	Reject	5-21-79	M. Moore
2010	3-29-79	M-204 Pipe Spool 1HBC-109-S619-14-2,has an ARC strike approx 13" from 45° EL4.	Std. Repair		
2011	3-29-79	M-204 Spool 1-HBC-123-S616-8-3,is heavily pitted on the gasket sealing surface.			
2012	3-29-79	P-2.10-619-9-1 Pipe Hanger8"-OHBC-21-H4, item#1-4" M-beam was used instead of 3"S-Beam,&hanger is resting against pipe spool.	Rework		
2013	3-29-79	M-326 Large bore pipe hanger, item 5 welded to decking support angles,item 2 has damage to lower flangesadjacent clevis.			
2014	3-29-79	C-10177C-1018 Missing Horizontal Curb Dowels, no horizontal dowels dowels were installed, in north wall.	Rework		
2015	3-30-79	E-22. Quality of cables is indeterminate due to the presence of water whtin the cables.	Repair		
2016	3-30-79	FSK-H-2HBC-207-1. Welding and fabrication accomplished w/o QC welding or piping doc. verification or acceptance.	Reject		
2017	3-30-79	M-214 Borated water storage tank 2T-60,line 2HCB-1,Pen. No.2 (18"SS) is out of location.	Use As Is	5-8-79	T. Aritola
2018	3-30-79	C-233 Misc. Fabricated Steel with nuts, Bolts&washerspackages received on invoice#002065 are illegible&signatures cut off.			
2019	3-30-79	M-1.35 1 Differential Pressure Transmitter,was moved without either required documentation or quality control release.			
2020	3-30-79	M-201 4EA. 3"Sch40x2"Sch80 Smls Conc. Reducers.No G-321-D form or documentation was received.	Doc. Rework		
2021	3-30-79	M-201 Pipe received on Grinnell order#KER 10732-P, G-321-D was not signedby supplier or shop inspector.	Doc. Rework	5-7-79	M. Moore
2022	4-2-79	F-29256 Spring Hanger was received without the certificate of conformance.	Doc. Rework	5-1-79	R. Valencine
2023	4-2-79	M-204 Spool#2HCB-322-S634-2-7, wrong size elbows was installed in spool without proper engineering approval.	Non-Nonconformance	5-9-79	L. Brown
2024	4-2-79	M-657 Spool 2HBC-217-657-4-6 a 3"pup pc. Ht.#24951was incorporated into this spool without proper engineering approval	N/A	5-9-79	T. Aritola
2025	4-3-79	C-208 Embecco Masterflow 713 Nonshrink Grout,no final results of shrinkage tests have been received.	Doc. Rework		

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
2026	4-2-79	M-204 Spool#2EBB-15-S634-2-1, has been replaced by a stock pc. of material without proper engineering approval.	N/A	5-9-79	T. Aritola
2027	4-2-79	M-204 Spool #2EBC-1-S634-2-1,stock pup pc. has been incorporated into spool without proper engineering approval.	N/A	5-9-79	T. Aritola
2028	4-3-79	E-6.0 480 V. Loadcenters, faulty crimping tool #BPC-2572, was noted "out of calibration".	Use As I_s	5-10-79	A. Lobrovich
2029	4-2-79	C-618 Unistrut,was welded off center or several inches away from embed.			
2030	4-2-79	M-55 Fuel pool heat exchangers op-76A-D couplings was installed non-vice versa from vender's Dwgs.	nonconformance	4-19-79	M. Guliano
2031	4-4-79	Cable 2AB5541F. Cables overstressed during pull. Pulling cable in opposite direction caused insulation.	Rework		
2032	4-4-79	M-658 Leak Chase,welding completed with E-309 electrode is in violation of the welding procedure.	Std. Repair		
2033	4-4-79	E-60 Instrument & Special purpose cable,no documentation for805&809on MRR9357,P.O.107 shop inspector failed to sign off.	Doc. Rework		
2034	4-4-79	C-231 Void in the concrete base mat of Aux. Bldg. at Elev. 568'.	Std. Repair		
2035	4-4-79	F-30154, 16 Pcs. Lubrite Bearing Plates, lead content is 1.91 per the CMTR received.	N/A	4-20-79	R. A. Montrevil
2036	4-4-79	M-204 Spool 1FCB-29-S619-6-3A, has a gouge in it.	Std. Repair		
2037	4-4-79	M-342 Spool 1CCB-24-603-4-3 has excess amount of paint on it leaving integrity of pipe indeterminate.			
2038	4-4-79	C-304 Type 14 Conduit Supports, was installed with continuous across the flange welds.	Use As Is		
2039	4-5-79	G-34 Conduit and box supports were installed without prior project approved drawing or engineering approval			
2040	4-5-79	E-12 Cleaning and re-terminating caused cracks in the top of the battery near and around the terminal post	Rework		
2041	4-6-79	M-204 21/2"-HCC-CK(404-1-008) S/N19 was rigged with a cable comealong, which could damage &contaminate the valve.			
2042	4-9-79	FPC-7.000 Equipment and material not protected by coverings during concrete chipping, thereby rendered indeterminate.			
2043	4-9-79	A-14 Field testing of grout exceeded 3-day test requirements.			

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2044	4-13-79	QAMgmt. audit-168 (AF/AS-3) 1-9-79. No calculations in evidence for hangers leaving integrity indeterminate.			
2045	4-9-79	E-26 Incorrect C-321-D received for 600 Volt Control Cable 5000 ft. 2/C#14 AWG Reel #B-1826.	Doc. Rework		2691
2046	4-9-79	M-326 Item 3 of hanger 10"-1HBC-136-H2 has been cut to 3½" in length and welded to Item 1, which is 1½" off location.			
2047	4-9-79	M-326 Hanger 10"-1HBC-103-H9 configuration not in compliance with sketch; material cannot be traced to cert. of comp.			
2048	4-9-79	M-326 Hanger 10"-1CCB-25-H3 configuration and location not in compliance with hanger sketch.			
2049	4-9-79	E-21 5000 and 8000 Volt Power Cable, reel #K1221 was not shop inspected prior to shipment as required.	Use AS IS		
2050	4-11-79	M-204. Dwg. M-633 sh. 5 & 7. Installed location of valves have reversed serial numbers.	Rework Use As Is	5-8-79	F. Starr
2051	4-11-79	Dwgs. E-721, E-716, E-42 sh. 111. Welding discrepancies on Seismic tray supports previously reported on DR's			
2052	4-11-79	Spec. C-305. Stud anchors installed by an electrician who was not qualified as required.	Use As Is		
2053	4-11-79	Spec. C-305. Abandoned anchor holes not repaired before new anchor holes were loaded.	Uae /As Is		
2054	4-11-79	Dwg. M-634 sh.1. Gouge in pipe spool 2EBB-14-634-1-7.			
2055	4-11-79	C-208. Final results of shrinkage tests not received from vendor for nonshrink grout.	Doc. Rework		
2056	4-11-79	Dwg. C-400. Welding gap greater than allowed by welding procedure GWS-FM on 1" material.	Use As Is		
2057	4-11-79	Dwg. E-650 sh.1, E-652. Intermittant welds have been replaced with a continuous on seismic conduit supports.	Use as is		
2058	4-12-79	M-18. Quality Verification Documentation not received.	Use as is		
2059	4-12-79	C-306. Rebar cut while core drilling for 5/8" anchor bolts for CRD primary Breakers Aux. Bldg. El. 674'6"			
2060	4-12-79	E-60. Quality Verification Documentation has quantity discrepancies on cable received.			
2061	4-12-79	M-135. Discreprancies in documentation for thermowells items released from warehouse w/o inspection.	Doc. Rework		

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[2] NCR NO.	[3] DATE	NONCONFORMANCE DESCRIPTION / REMARKS	[5] DISPO.	[6] DATE NCR CLOSED	[7] CLOSED BY
2062	4-12-79	F-33375. Pipe mat'l bent upon receipt, marking of pipe illegible and unreadable, heat no. not traceable	1. Use As Is 2. Reject		
2063	4-12-79	Hanger 0-619-4-8. 6"-WF beam bent, indentation in hanger leaving the integrity indeterminate.			8 4
2064	4-12-79	M-1,2. 14" Reactor Vent Valves received without documentation or other identification.			
2065	4-13-79	M-204. Spool 2ELB-10-S632-1-9 under visual inspection was found to have laminations over 40% of the weld end portion.			2 9
2066	4-13-79	M-204. ISO 634 sh.1. spools do not have the same dimensional configuration as the Bechtel Iso.			
2067	4-13-79	M-204. M-512 sh.3. Pup piece attached to flued head. temp. fit-up lugs ground off violating min. wall req'ts.	Std. Rework	5-18-79	D. Fredianelli
2068	4-13-79	Dwg. E-614. Conduit support installed without a project approved drawing.	Rework		
2069	4-13-79	Dwg. E-614. 8 supports constructed of P1001 unistrut were installed w/o prior engineering approval.			
2070	4-13-79	E-614. Project approved dwg. cannot be located for the installation of type 16 SIM conduit supports.			
2071	4-13-79	E-614. Conduit supports constructed with incorrect unistrut			
2072	4-16-79	E-510. Conduit 2BA074 has a stream of water flowing from it.			
2073	4-13-79	Dwg. C-192. Welding on Installed monorails has several discrepancies.	1. Rework 2. Use As Is		
2074	4-16-79	Hanger 1-633-1-22. As built condition is not per pipe support design dwgs. portion of hanger is ID'ed as non-Q			
2075	4-16-79	Dwg. E-732. ½" stud anchors have been installed on tray supports rather than the required 5/8"	Use As is		
2076	4-16-79	M-1,45. Immersion Heating Element cannot be traced to the documentation.			
2077	4-16-79	F-3149. Grout failed to reach the required compressive strength at 3 days.	Use As Is	5-9-79	M. Moore
2078	4-17-79	Hanger 2-657-41-20. Hanger installed with angle that cannot be traced to a certificate of compliance.			
2079	4-17-79	Spool 1CCB-70-603-3-8 has been installed with a 2" sockolet instead of the required reducing insert.	Rework		

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[2] NCR NO.	[3] DATE	[4] NONCONFORMANCE DESCRIPTION / REMARKS	[5] DISPO.	[6] DATE NCR CLOSED	[7] CLOSED BY
2080	4-17-79	Hanger 2-619-2-15. Hanger has welded lug attachment improperly installed per sketh.			
2081	4-18-79	Hanger 2-657-3-18. Hanger not installed in compliance with pipe support design drawings.	non-nonconformance	4-19-79	L. Brown
2082	4-18-79	E-650 Sh. 1. Type 14 supports have continuous welds. E-42 Sh. 335 specifies intermittant welding.			
2083	4-19-79	E-532. Conduit 2AA037 was damaged by core drilling the slab.	Rework	~~4-24-79~~	~~J. Kexel~~
2084	4-19-79	M-1.29. Certificate of conformance is required in the QA Data Package for B & W QRM 48-1239-02.	Doc. Rework		
2085	4-19-79	M-1.2. No documentation received for three tube assemblies.	Doc. Rework		
2086	4-19-79	F-31391. Chemical composition not included in MTR submitted with returned bolts originally rejected on NCR-1695.			
2087	4-20-79	F-34605. G-321-D furnished with Quality Verification Documentation was not signed by vendor.	Doc. Rework	4-30-79	T. Estes
2088	4-20-79	Hanger 2-619-1-3. Inadequate installation of 5/8" expansion anchors.			
2089	4-20-79	M-14. Terminal box 1P-05A (Aux. Feed Water Pump) has burn hole caused by arc strike.			
2090	4-20-79	M-104C. Two pipe spools delivered to jobsite with unapproved Bechetl drawings.			
2091	4-20-79	E-535. Six conduits have incorrect supports as per E-42, Rev. 39.	Rework		
2092	4-24-79	C-231 Cadwelding was done and was not qualified until one day later.	Use As Is	5-8-79	S. Kirker
2093	4-24-79	M-342 PipeSpool 1HCB-1-S-612-8-1 has an excessive amount of contrete splatter near FW 18.	Rework		
2094	4-24-79	M-1.16 Misc. Parts for B&W makeup pump MTR# 1MU-PLC this cannot be located&has not been inspected or released.			
2095	4-24-79	M-204 4" 2HCB-11 (M-608sht.1 FW21) A pitted area was found on this spool.	Std. Repair		
2096	4-24-79	E-42&E-46 Pull Boxes NEMA Type1A, boxes has 4 holes1/2"in diameter &are not repaired per E-42DCN63 pg. 2.	Rework		
2097	4-24-79	E-42 Unscheduled pullbox size, three boxes do not meet criteria of E-42.	Use As Is	5-30-79	R. Amos

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
2098	4-24-79	M-326 Hanger #10"-1HBC-103-H4, items#2&#6 shows1/4" double fillet weld&have 8X6" tube steel& weld cannot be made.	Use As Is		
2099	4-24-79	M-204 Spool 2HBC-109-S619-1-6, has an ARC strike on the south side of pipe.	Std. Repair		
2100	4-25-79	M-204 Lugs on spool 2HCB-109-619-1-6,there wasn't any material that these lugs could be fabricated from.	Non-Nonconformance	5-8-79	L. Brown
2101	4-25-79	C-304 Conduit Support, two type 12 conduit support was installed without prior approval drawings or specifications.	Use As Is		
2102	4-26-79	C-304 Conduit Support, side of a P1000 unistrut was welded across flange of a beam and used as a type 14 sim conduit.			
2103	4-26-79	E-538 2" GRS#2B0034 Conduit has been damaged by drilling the concrete slab.			86
2104	4-26-79	C-304 Structural Steel EL 602, welder I-177 was using electrodes, from container#62, not assigned to him.#36was assigned to him andnotplugged in.			268
2105	4-26-79	E-42 Conduit Support,asupport very similar toa type 12A has been welded to a existing column.	Use As Is		
2106	4-26-79	E-42 Conduit Supports do not conform to detail.	Rework		
2107	4-26-79	E-59 600 Volt 2/C Class H#16 AWG Cu. 649° Cable, no quality verifination doc. was received for P.O. itemS02 (4 Reels-14,695)	No Non-Conformance	5-3-79	T.Estes
2108	4-26-79	J-207 One Glass Door for Panel 1C36, no documentation was received for glass door panel 1C36.			
2109	4-26-79	C-305 Hanger #2 -2-GCB-17 (4)5/8" expansion anchors was installed instead of 3/4"	Non-Nonconformance	5-11-79	J. Spence
2110	4-26-79	E-45 480V Distribution Panels 1BP03,& 2BP03 panels were installed without project approval Dwgs.on eng. approal.	Use As Is	5-24-79	C. Spinks
2111	4-26-79	E-19 2 Each Capacitor, 13 MFD@1000 VAC no quality vertification documentation was received with this item.	Use as is	5-29-79	T. J. Estes
2112	4-26-79	E-47 (1DJ474 & 1BJ471) (1DJ475 & 1BJ476) was installed without a separation between them& calls for (1) inch separation.			
2113	4-26-79	E-47 Pull Boxes 2DJ803&@BJ802 was installed without a inch separation between them.			
2114	4-26-79	C-305 Hanger 6"-2GCB-18-H8 has 2 expansion anchors beyond maximum offset leaving integrity of anchors indeterminate.			
2115	4-26-79	F-3136 Bolts Nuts, washers & Recessed Pinsw/nuts, was received partially or entirely rust covered.	Rework		

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2116	4-27-79	E-42 Box supports do not conform to design drawings.	Rework		
2117	4-27-79	F-34894 Protective coating for tendons has been purchased non-Q and was not furnished with required tests.	N/A	5-14-79	S. Kirker
2118	4-30-79	F-32369 16 each molded case circuit breakers, no G-321-D & Quality Verification Doc. was received on packing list no. 1895[illegible]58.	Doc. Rework		
2119	4-30-79	M-204 10"Flg. on spool 2HBC0134-617-6-1 (Ht#ERim) has a gouge acrossthe face of the gasket seating surface.	Reject		
2120	4-30-79	M-106 FMR IM-2610 shows hanger mark no. to be 21/2" SCCA-4-H1. Plate on hanger shows 21/2"-2CCA-4H1.			
2121	4-30-79	F-34203 (3Each) 2Pole, 600VAC, 250VDC Molded Case Circute Breakers, Westinghouse, Type LA-600 has wrong style no. on purchase order.	Use As Is	5-14-79	D. Delaney
2122	4-27-79	M-125CC. Two valves, P.O. Items 55.2 & 55.4, have incorrect tag number. Documentation also show incorrect tag number.	Use As Is	~~5-15-79~~	~~M. Moore~~
2123	5-1-79	Spool 1HCC-417-S616-4-1. 4 fit-up lugs hammered off result-in cracks in the pipe and violation of min. wall thickness	Reject	5-4-79	K. Roberge
2124	4-27-79	J-605. Instrumentation Packing & Gasket Rings received @ the jobsite without form G-321-D	Reject		
2125	4-30-79	Hanger sketch 0-657-44-77. 3/4" expansion anchors installed instead of 5/8" expansion anchors as called out by dwg.			
2126	4-30-79	Spec. C-305. Hanger 4"-1CCB-79-H3. Hole in bearing plate is not drilled within the 3° tolerance. sk1-603-9-4			
2127	4-30-79	Spec. C-305. sk 1-616-8-19. Hole in bearing plate is not drilled within the 3° tolerance.			
2128	4-30-79	F-34574. Cut-off switch insulations PO Item 3. No Certificate of Compliance received.	Doc. Rework	5-15-79	T. Estes
2129	5-1-79	J-255BC. Discrepancies in the QVD and G-321-D for 1500# Air Operated Nuclear Service Control Valves	Doc. Rework	5-29-79	T. Estes
2130	5-1-79	Dwg. C-379. Radiation Shield split and rewelded without a project approved drawing.	N/A		
2131	5-1-79	Spool 2HCB-1-613-6-11. Gross arc damage to spool, copper mixed in with the stainless where the cable chorted out.	Std. Repair		
2132	5-2-79	C-70AC. Hydraulic Shock Suppressor-Snubber Assy., Sections 9 & 10 of the Doc. Pack, are not traceable.	Reject		
2133	5-1-79	M-204. Valve, S/N 2N-1028, has open indicating limit switch lever that is not connected internally.	Repair		

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
2134	5-1-79	M-326. Hanger, No. 10-1HBC-103-H12, installed improperly and configuration of section B-B is not per sketch.			
2135	5-1-79	E-42. Tray supports installation indeterminate because of no acceptance criteria for this installation.			
2136	5-1-79	E-42. Seismic conduit support installed prior to engineering approval.	Rework		8
2137	5-1-79	F-34259. Jacket repair sleeve kit received with no Statement of Conformance.			
2138	5-2-79	E-805, 806, 811, 815. Wires for the circuit breaker have not been increased to the capacity of the circuit breaker.			2
2139	5-2-79	F-27952. Socket Weld Adapters received without a form G-321-D.	Doc. Rework		
2140	5-2-79	E-26. No quality verification documentation received on MRR 9551 for six cable reels.	Doc. Rework	5-10-79	T. Estes
2141	5-2-79	E-606 Unistrut improperly installed on conduit no. 1AKB002.	Use As Is		
2142	5-2-79	E-611 Box support, type 9E, has been installed with continuous across the flange welds.	Use As Is		
2143	5-2-79	E-607. Unistrut improperly installed on conduit no. 2BC019.	Rework		
2144	5-2-79	E-607. Conduit support, type 14, has been installed with continuous across the flange weld.			
2145	5-2-79	E-613. Four conduit supports, type 12A SIM, have been attached to a floor beam without prior engineering approval.			
2146	5-2-79	E-608. Three type 11 conduit supports have been installed with double P1001A3 cantilevers.			
2147	5-2-79	E-630. Seismic conduit supports to have been attached with anchors; not welded to an existing embed.	Rework		
2148	5-2-79	E-20. Replacement Module Assy. installed in pent. 2Z132, documentation indicates pent. tag no. as 1Z150.			
2149	5-2-79	E-609. Conduit support, type 13, installed by continuous welds across the flange.			
2150	5-3-79	E-656. No approved drawing detail for welding P1001 to the edge of the flanges of Col. 3 to be used as conduit supports.			

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
2151	5-3-79	E-37. #6 Essex Cable have no identification marker conductors.			
2152	5-3-79	E-613. Conduit Support, Type 13, has been attached to a wall; drawing calls for attachment to floor or ceiling.	Rework		
2153	5-3-79	E-613. Conduit support, Type 20 SIM; an inverted type 20 has been attached to a Non-Q cable tray support.	Use As Is	5-30-79	D. Squires
2154	5-3-79	E-652. Four 3/8" stud type expansion anchors installed prior to project engineering approval.			
2155	5-3-79	E-611 & 612. Six Type 12 box supports installed using P3300 unistrut.	Rework		
2156	5-3-79	E-532. Battery Chargers and Inverters have not been re-torqued to required value.			
2157	5-3-79	C-306. 16 grouted anchor bolts cored out for installing relocated hanger, each void in top back portion of each hole.			
2158	5-4-79	E-60. Instr. & Special Purpose Cable; received with no documentation on MRR-9553, 13 cable reels.			
2159	5-4-79	M-125.C. Manual Operated Valve Upper and Lower Limit Switches are identified incorrectly by vendor.			
2160	5-7-79	C-304. Laminations discovered in different locations on underside of the building steel.			
2161	5-7-79	C-304. Lamination, approx. 17" long, discovered on the underside of the building steel.			
2162	5-7-79	F-34870 Incorrect G-321-D received for ASME Section III Class II fittings.	Doc. Rework	5-15-79	B. MacGlashan
2163	5-8-79	F-31911. Eight switches received with no statement of conformance.	Doc. Rework	5-22-79	M. Moore
2164	5-8-79	E-22. 600 volt power cable, item 1 of P.O., Reel No. 4713-2178, not noted in documentation package.			
2165	5-8-79	E-612. Type 11 support has been installed improperly, with 13" P1001A3.			
2166	5-8-79	E-540. Control panels damaged by cutting of wires; six glass lenses for relay, 1C30, have been broken.	Rework		
2167	5-8-79	E-632. Type 11 conduit support installed improperly, without P1000 and P3300.			
2168	5-8-79	E-625 Sht 2. Seismic Conduit Support, incorrect unistrut used for installation.			

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2169	5-8-79	E-617 Sh.2. Four additional conduit supports installed for 2AKA012 thru 2AKA017 were not as shown in drawing.			
2170	5-8-79	M-619 Sh. 3. Spool 2HBC-120-S619-3-1 has a gross amount of concrete on the 90° elbow.			
2171	5-8-79	E-42. Type 11 Conduit support has been installed with P1001A3 substituted for P1000 and P3300.			
2172	5-9-79	F-27952. Fittings certified to ASTM-A276-73 rather than ASME-SA-479 as called out by PO.			
2173	5-9-79	OUM-01A & OUM-01B, Air Handling Units, released from storage without megger testing the motors.			
2174	5-9-79	C-383. Structural steel beam to the north of the reactor headstand opening at El. 656-9 exceeds tolerance of error.	Repair Use As Is		
2175	5-9-79	E-22. 350 MCM 3/C B-11 Cable, several reels are indeterminate on the basis of sampling or use.			
2176	5-11-79	J-201. Dwg. 540. Control Panel, 1C14, five wire terminations loose from soldered connection to individual switches.			
2177	5-11-79	M-326. Hangers are indeterminate because heat no.'s are not traceable to doc., incorrect or illegible numbers.			
2178	5-11-79	M-1.35. Documentation not available for Differential Pressure Transmitters.	Doc. Rework		
2179	5-12-79	M-614 Sh. 10. Valve, 12"HCC-GT-RL, below FW #6 a depression leaves wall thickness indeterminate.			
2180	5-14-79	E-640 Sh. 2. Conduit/box support installed without adequate prior approval or documentation.	Use As Is		
2181	5-14-79	E-624 Sh. 2. Tray support has been installed with continuous across the flange welds.			
2182	5-14-79	A-41. Paint Storage Area, no temperature readings available for 5-12-79 thru 5-14-79.	Use As Is	5-14-79	S. Kirker
2183	5-14-79	E-532. Motor Control Centers, units installed back to back; rear & top compartments rendered inaccessable.	Reject		
2184	5-14-79	F-3107, C-233. Vendor, NPS, descrepancies in NDE reports and inspection processes not documented per requirements.			
2185	5-14-79	E-532. Panelboards, CDP,1 & 2D20, four additional holes for anchors drilled not required by drawing.			

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2186	5-14-79	J-255B. Nuclear Service Control Valves, 2HV-0407 & 2LV-0444, incomplete quality verification documentation.	Doc. Rework	5-30-79	B. MacGlashan
2187	5-15-79	M-631 Sh. 1. Flued head, 1Z-39, has a large arc burn on inside near FW 1.	Std. Repair		
2188	5-15-79	F-27952. Documentation is not traceable to material, G-321D is incomplete and incorrect in some entries.	Doc. Rework		
2189	5-16-79	F-35238. Hex head bolts, washers and nuts, certificate of compliance states conformance to different grade than in P.O.			10-19
2190	5-16-79	F-34998. Washers and caps screws received with no statement of conformance or certificate of compliance.	Doc. Rework		
2191	5-16-79	F-10-204. Safety Related Equipment Rooms, equipment left uncovered during construction work; dirt & dust in panels.	Repair		2-6-9
2192	5-16-79	M-610 Sh. 6. Hairline crack in ss socket for instrument ITE-1029B on pipespool 1FCB-22-S610-6-2.			
2193	5-18-79	E-632. Conduit support installed, specified across-the-flange weld altered by field without project eng. approval.			
2194	5-18-79	E-629. Box support installed without prior project approved drawing.			
2195	5-18-79	E-624. Sh. 2. Box support installed without approved drawing or specification.			
2196	5-18-79	M-129BC. Valve, ½" ECB-GT-DV has fillet weld which is not within drawing specification.			
2197	5-18-79	Hanger Sketch expansion anchors installed with no visually inpsection for correctness.			
2198	5-18-79	M-657 Sh. 38. Pipe Spool 0HBC-78-S657-38-1 has a minimum wall thickness violation.			
2199	5-21-79	E-22. Three conductor 350 MCM Cable, vendor manufacturing flaw in the outer firewall III Jacket.			
2200	5-21-79	E-650 Sh.1. Two anchor bolts installed with no marking or coding.			
2201	5-21-79	M-125C. Nuclear Service Valves, documentation discrepancies involving pages numbered and supplied.			
2202	5-21-79	E-60. Instrument and special purpose cable was received with no quality verification documentation. (Cable I-18)			

LOG OF NONCONFORMANCE REPORTS

PROJECT NAME 1 Midland JOB NO. 1 07220 PAGE 8 135

2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
2203	5-21-79	Hanger 6" 1D5C-5-H8, Item 1 of hanger sketch 1-633-6-13 forced out of perpendicular to base plate.			
2204	5-21-79	Hanger 2½" 2HBC-178-H9, expansion anchor broken off during expansion anchor torque testing.			
2205	5-21-79	INRYCO's field installation manual (C2-146) does not give specific tolerance for post tension wire bends.			
2206	5-21-79	F-3103. Packing slip and documentation discrepancies with material from Wiltse; pieces not available for inspection.			
2207	5-22-79	F-27952. Weld adapters incorrectly stamped "B-33". PO requires "B-32"			
2208	5-23-79	F-3103. Documentation with material from Wiltse shows some pieces shipped without shop inspection.			
2209	5-22-79	Hanger 36" OHBC-1-H2, expansion anchors show chipping and spalling outside base plate.			
2210	5-23-79	Dwg. A-18. During construction joint preparation, letdown cooler walls prepared incorrectly, by use of Busch hammer.			
2211	5-23-79	M-104A. Pipe spools with heat number N32762 failed to meet the physical impact requirements.			
2212	5-23-79	E-26. Conductor #10 cut from 2 cable reels to date does not have asbestos/polyester binder tape at cut points.			
2213	5-23-79	M-163. Recirculating Air Cooling Unit Fans released from warehouse without performance of maintenance activities.			
2214	5-23-79	E-655. Expansion Anchors for conduit support 1AV017, spaced incorrectly; stud anchor not marked/coded.			
2215	5-23-79	M-617-11. Valve 8"HBC-BF has gross arc damage to stem.			
2216	5-24-79	Hanger 10" 2HBC-110-H8, stanchions welded to spool with partial weld, sketch calls for full penetration weld.			
2217	5-25-79	FSK-M-2HBC 57-1, tolerances between fixed points on spool exceed ± 3/8"; FW 3 and 8, FW 13 and 19, FW 23.			
2218	5-25-79	Hanger 2½ 2CCB-1-H18 not installed in compliance with pipe support design drawings.			
2219	5-25-79	F-35384. Discrepancies in documentation; wronge rev. to C-321D, wrong rev.to Spec. on certificate of compliance.			

LOG OF NONCONFORMANCE REPORTS

PROJECT NAME [1] Midland JOB NO. [1] 07220 PAGE [8] 136

[2] NCR NO.	[3] DATE	[4] NONCONFORMANCE DESCRIPTION / REMARKS	[5] DISPO.	[6] DATE NCR CLOSED	[7] CLOSED BY
2220	5-29-79	C-208. PG-B concrete mix using Type I cement had not been approved and was used in pour no. Y(627)B.			
2221	5-30-79	E-42 Conduit Supports, Unistrut attachment to liner on center of L3" x 2" stiffner.			
2222	5-30-79	Hanger 8" LHBC-102-H18, not installed in compliance with sketch, hanger is offset approx. 15°.			
2223	5-30-79	E-42. Conduit/tray support; spacing beteen unistrut and leak chase channels equals 3", supports do not meet requirement.			
2224	5-31-79	E-42. Conduit/tray support; 6" minimum from the end of unistrut to center of conduit, supports do not meet requirement.			
2225	5-31-79	C-111. Unistrut welded to liner 25' NW of Col. 13 [illegible] no welders stamp.			
2226	5-31-79	Hanger 2-619-4-18. Structural tubing installed [illegible] field is not heat traceable.			

NONCONFORMANCE REPORT

1-EGA

1. PROJECT NAME	JOB NO.	19.	20.
MIDLAND	07220	NO. 2123	PAGE 1 OF 2

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
1	M 616 SH. 4		PIPE SPOOL 1HCC-417-S-616-4-1	CONT. #1

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
N/A	N/A	P/N N/A REV N/A SER NO. N/A	CONST.	N/A

11. INSPECTION CRITERIA	IR NO.	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG (X) SPEC ( ) OTHER	P1.10-616-4-1 NO. 07204 FIW-1	(X) YES ( ) NO	( ) YES (X) NO	( ) Insp'g (X) Const ( ) Test	( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION: SPECIFICATION M-204 REV. 10 PARAGRAPH 5.2.6 STATES IN PART "MINIMUM WALL THICKNESS FOR FABRICATED ASSEMBLIES AS FINALLY FABRICATED SHALL BE AT LEAST 75% OF NOMINAL WALL THICKNESS FOR 12" & UNDER HCB & HCC CLASS PIPE ONLY." ALSO FIW-1 ITEM 11 STATES LUG REMOVAL - "WHERE LUGS OR DOGS ARE USED FOR FIT-UP, THEY SHOULD BE GROUND OR BURNED OFF. UNDER NO

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Keith J Roberge	5-1-79	5-1-79	5-1-79

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

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

A SECTION OF PIPE 8" LONG IS TO BE CUT OFF FROM THE DAMAGED END OF SPOOL 1HCC-417-S-616-4-1 DESIGNATED BY F.W. #3 AND REPLACED WITH A PIP PIECE 8" LONG OF SAME CLASS AND SCHEDULE PIPE. AP. 5-1-79 KANilson 5/1/79 RDarnell 5/1/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
	X		

J.J. Kilcrease Jr. 5-1-79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

R.D. Barclay 5-1-79
PROJ. CONSTR. QC ENGINEER DATE

H.W. Kilson Jr. 5-1-79
AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

269 1

BLOCK 16 CONT'D.

CIRCUMSTANCES SHOULD THEY BE HAMMERED OF A PIPE, PLATE, OR STRUCTURAL MEMBER." CONTRARY TO THIS 4 FIT-UP LUGS WERE HAMMERED OFF OF PIPE SPOOL IHCC-417-S-616-4-1. OR ~~FAILS~~ THE RESULTING DAMAGE CONSISTED OF CRACKS IN THE PIPE AND VIOLATION OF MINIMUM WALL THICKNESS IN SEVERAL PLACES.

I HOLD TAG APPLIED Q No. 4.164

269 105

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NONCONFORMANCE REPORT

NON-TESTABLE-UNIT

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
Midland Unit 1 & 2	07220	2130	1 OF 1

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
Cont. 1	C-379	3	Radiation Shield	Approx-A2-90°-640°Elev.

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
N/A	N/A	P/N N/A REV N/A SER NO. N/A	Const.	N/A

11. INSPECTION CRITERIA	IR NO.	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG (X) SPEC ( ) OTHER	NO. C111	( ) YES (X) NO	( ) YES (X) NO	( ) Rec'g (X) Const ( ) Test	( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION: Field procedure FPD, 1.000 paragraph 2.1.3 states: All field engineers and superintendants shall be responsible for ascertaining that the work within their assignment is done in accordance with the latest revision of the drawing and project specification: Contrary to this, the radiation shield was split in two places to aid in fit-up and rewelding using a backing bar and full penetration weld without a project approved drawing.

1 - Hold Tag Applied Hold for Engineering Disposition, Q#-1.105

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Ernest Fuqua	5/1/79	C. D. Barclay	5-1-79

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

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S/O 2-BKA

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NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 7220				19. NO. 2131	20. PAGE 1 OF 2
2. UNIT(S): Unit #2	3. DRAWING/PART NO.: M-613-6	REV: 7/2	4. ITEM DESCRIPTION: 2"CB-1-613-6-11		5. ITEM LOCATION: Aux. Bldg. Elev. 1046'	
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-1 10-613.6-6 NO. M-307	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 (X)E.g ( )FLD		

16. NONCONFORMING CONDITION: Specification M-307 Para. 5.2.1 States in part, "Care shall be taken in handling and installation of piping to prevent surface damage" Contrary to the above, There is gross arc damage to Spool # 2"CB-1-613-6-11 See Continuation Sheet Page #2

17. REPORTED BY: [illegible] DATE: 4-30-79

18. VALIDATED BY: [illegible] DATE: 5-1-79

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

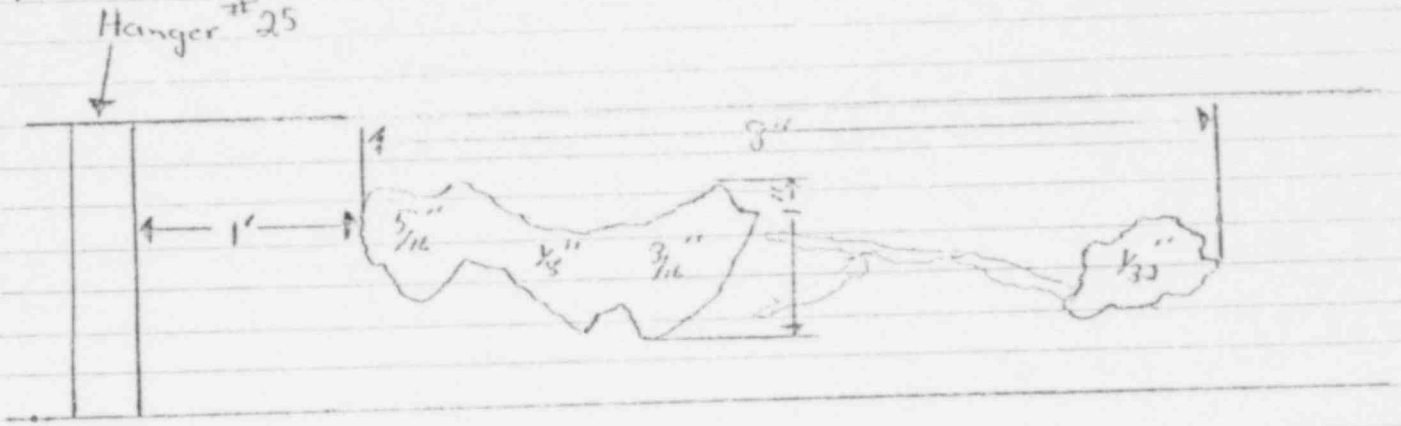
239 197

Block 16 Continuation

This arc damage is located at approx. 12 o'clock on the spool and is approx. 5/16" deep at its deepest point and 1" wide at its widest point, approx. 8" long. It also has copper mixed in with the stainless where the cable started out.

Q List # 4.134

IQC Hold Tag Applied to Spool



269 198

10098 2

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

Start Up Code: 1 + 2 Prior

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland			JOB NO.: 7220			19. NO.: 2132	20. PAGE 1 OF 1
2. UNIT(S): 2	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: Hydraulic Shock Suppressor-Caddisc Assy.			5. ITEM LOCATION: Warehouse # 2	
6. P.O. OR SPEC NO.: 7220-G-70-AC Rev. 3	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N: REV: SER NO.: N/A		9. SOURCE: Supplier	10. CONTRACTOR/SUPPLIER: ITT Grinnell		
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER	IR NO.: R-1.00-0531 NO.: See Blk. 16	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 (X) Eng ( ) FIELD		

16. NONCONFORMING CONDITION:

PQCI-R-1.00 Rev. 1 Activity # 2.1c requires review of the Quality Verification Documentation required by Form G-321 for availability, legibility and traceability. Contrary to the above, Sections 9 & 10 of the Documentation Package covering the Pivot Mount/Cap and the Clevis are not traceable. "Q" number is 1.1016. Hold pending final disposition. 1 hold tag(s) applied to the nonconforming item(s).

17. REPORTED BY: [signature] DATE: 5-2-77

18. VALIDATED BY: [signature] DATE: 5-2-77

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

269 199

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NONCONFORMANCE REPORT

S/U # 1-BCA

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO.: 2133	20. PAGE: 1 OF 1
2. UNIT(S): 1	3. DRAWING/PART NO.: M614 SH4	REV: 9/F2	4. ITEM DESCRIPTION: OPEN INDICATING LIMIT SWITCH	5. ITEM LOCATION: RM 25 Aux. Bldg. ELEV. 568'	
6. P.O. OR SPEC NO.: N/A	7. SERIAL NO.: 2N-1028	8. REPLACEMENT PART P/N ____ REV ____ SER NO. ____	9. SOURCE: Construction	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA ( ) DWG (+) SPEC ( ) OTHER	IR NO. PI.30-612-4-2 NO. M-204, Rev. 10	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: PARA. 5.2.3 OF M-204, REV. 10 STATES IN PART "WHEN HANDLING OR SUPPORTING VALVES, CARE SHALL BE TAKEN TO PREVENT DAMAGE TO THE VALVE OR ITS APPURTENANCES." CONTRARY TO THE ABOVE, THE OPERATING LEVER FOR THE UPPER LIMIT SWITCH (170-31100 TYPE) ON VALVE 412-031 DOES NOT APPEAR TO BE CONNECTED INTERNALLY, OR THERE IS INTERNAL DAMAGE.

"Q" Listed # 4.127 / Hold Tag Affixed To Valve

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
C.L. Feagate	4-27-79	W. Barclay	5-1-79

21. 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

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

269 200

NONCONFORMANCE REPORT

1. Project Name: MIDLAND	Job No.: 07220			19. No.: 2134	20. Page: 1 of 2
2. Unit(s): CONT /	3. Drawing/Part No.: 1-619.3-12 REV 3 SH 3 & 4 FI	Rev: 3	4. Item Description: HANGER # MD-1HBC-103-H12		5. Item Location: CONT / EL 631'
6. P.O. Or Spec No.: N/A	7. Serial No.: N/A	8. Replacement Part P/N N/A REV ___ SER NO. ___	9. Source: CONST.	10. Contractor/Supplier: N/A	

11. Inspection Criteria	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
IR NO. P210-619-13-3	☐ YES ☑ NO	☑ YES ☐ NO	☐ REC'G ☑ CONST ☐ TEST	☐ CLIENT ☑ ENG ☐ FLD
☑ DWG ☑ SPEC ☐ OTHER NO. M326 REV 3				

16. Nonconforming Condition:

SPEC. M326 REV 3 PARA 5.1-1 STATES IN PART, "TO THE GREATEST EXTENT POSSIBLE, PIPE SUPPORTS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH PIPE SUPPORT DESIGN DRWGS." CONTRARY TO THIS, HANGER WAS INSTALLED WITH ITEM 4's MISSING. AND CONFIGURATION OF SECTION B-B IS NOT PER SKETCH. AS BUILT CONDITION PER ATTACHED SKETCH Q. NUMBER IS 4191 / HOLD TAG APPLIED

17. Reported By: D R Smith — Date: 5.1.79

18. Validated By: W B Paraley — Date: 5-1-79 (5-1-79)

21. 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

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJECT CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

25. Disposition Results

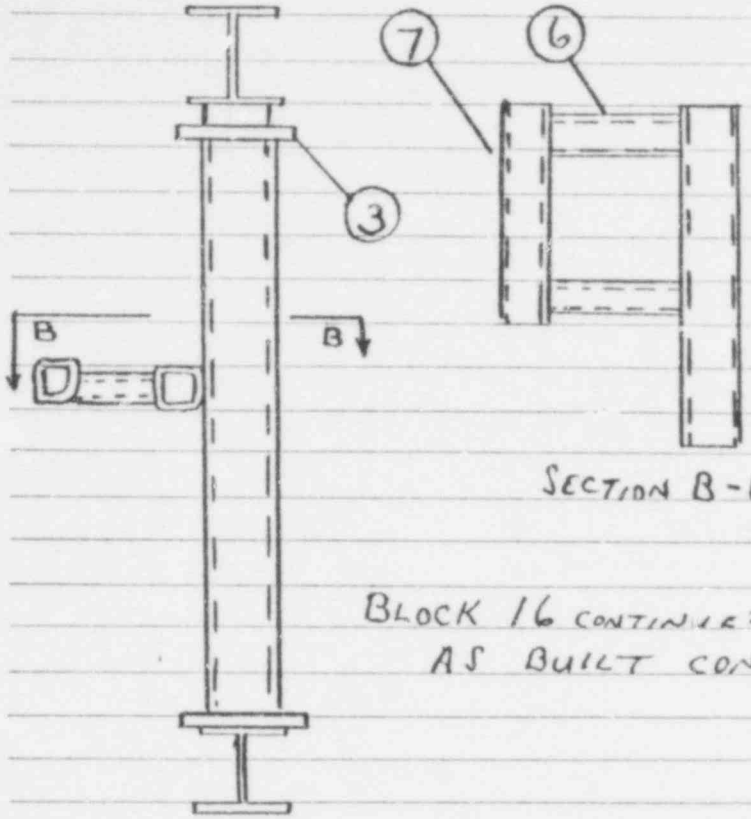
26. QC Acceptance

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

269 20

269 202



SECTION B-B

BLOCK 16 CONTINUED:
AS BUILT CONFIGURATION

QC-G3-3

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

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NONCONFORMANCE REPORT

S/u Nontestable Unit

1. PROJECT NAME	JOB NO.	19. NO. 2135	20. PAGE 1 OF 1
Midland	7220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
II	E-750 Sheet 1	7	Tray Supports	R/B #2 See Block 16

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE	10. CONTRACTOR/SUPPLIER
N/A	N/A		Construction	N/A

11. INSPECTION CRITERIA	IR NO. E-2.1 129 NO. E-42	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
(X) DWG ( ) SPEC ( ) OTHER		( ) YES (X) NO	( ) YES (X) NO	( )Rec'g (X)Const ( )Test	( )Client ( )Eng (X)F L D

16. NONCONFORMING CONDITION:

Small bore mechanical pipe are supported by a W8 x 17 Column added for Seismic tray supports. Added Column is at elevation 626' - 10 1/2" 125° , 8' East of Secondary Shield Wall. (See E-750 Sh. 1, E-750 Sh. 2, Section S) This condition is indeterminate because there is no ~~see~~ acceptance criteria for this installation.

E

Q-List Number 3.006 One (1) Hold Tag Applied Hold For Engineering Dispostion

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Kathryn Jones	4/30/79	W. D. Barclay	5-1-79

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

269 203

Corrected Copy

NONCONFORMANCE REPORT

NON-TESTABLE UNIT

1. Project Name	Job No.	19. No.	20. Page
Midland Units 1 & 2	7220	2136	1 of 2

2. Unit(s)	3. Drawing/Part No.	Rev	4. Item Description	5. Item Location
Aux	E-42Q Sheet 333	1	Seismic Conduit Support	See Block 16

6. P.O. Or Spec No.	7. Serial No.	8. Replacement Prt	9. Source	10. Contractor/Supplier
N/A	N/A	P/N NA REV NA SER NO. NA	Construction	N/A

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. C-304-803W C-304-820W	[ ] YES [X] NO	[ ] YES [X] NO	[ ] REQ'G [X] CONST [ ] TEST	[ ] CLIENT [ ] ENG [X] FLD

16. Nonconforming Condition:

Drawing E-42Q, Rev. 39, Sheet 333, Note #1 states: When connecting to existing ~~steel~~ steel, prior engineering approval is required for each case. The material is specified as P-1001 A3. Contrary to the above, engineering approval was not received, and the supports are made with P-1001. This work does not fall within the scope of Spec. G-34 paragraph 2.3, or paragraph 3.3.4.18. The support locations are as follows: 6 supports between 8.1 and 28' east of 9.4 @ J line, above floor elevation 645'. Supports are on conduits 2AJG009 and 2CE012. Cont'd on page 2.

17. Reported By	Date	18. Validated By	Date
J. A. Harrison	4-30-79	D. Hall for J. Barley	5-1-79

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 Concurrance

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. Disposition Results

26. QC Acceptance

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

2 supports, 10' east of 6.6, one 5' south of H and one 10' south of H, above floor elevation 614'. Supports are on conduit 2AD025.

Hold for engineering disposition.
"Q" number 3.006
8 "HOLD" tags applied

4/4/4/30-79

Corrected Copy

The nonconformance which was deleted on page 1 of this NCR has been given approval in Dwg. E-42Q. However the elevation listed on the exceptions list was incorrect. (supports 1011 through 1016) There is, however, enough information to complete final QC inspection, so only the 2 supports listed above are presently nonconforming.

Scott Hanson 5-4-79

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

Start Up Code: Untestable

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO. 2137	20. PAGE 1 OF 1
Midland	7220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
Indeterminate	N/A	N/A	Jacket Repair Sleeve Kits	Warehouse # 1

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
7220-F-3259	N/A	P/N N/A REV ____ SER NO. ____	Supplier	Raychem

11. INSPECTION CRITERIA	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG ( ) SPEC (x) OTHER IR NO. R-1-00-9353 NO. F-3259 Rev. 0	( ) YES (x) NO	( ) YES (x) NO	(x) Rec'g ( ) Const ( ) Test	( ) Client ( ) Eng (x) FLD

16. NONCONFORMING CONDITION:

Purchase Order F-3259 Rev. 0 requires Statement of Conformance for Raychem Kits, Catalog Numbers- JRS-200-6-G-00, JRS-200-16-G-00, JRS-400-6-G-00, JRS-400-16-G-00. Contrary to this no Statement of Conformance was received. Hold for engineering disposition. "Q" number is indeterminate. 1 hold tag applied to nonconforming item(s).

17. REPORTED BY [signature] DATE 5/1/79

18. VALIDATED BY [signature] DATE 5-1-79

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

8006270607

B55 — 1FHE
B56 — 1FHF
B55 — 2FHE
B23 — 2FHA

Alat

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
Midland	07220	2138	1 OF 2

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
I & II	E-805 (1) E-806 (1), E-811 (1), E-815 (1)	0	Modification to MCC 1B55 MCC1B56 MCC 2B23 MCC 2B55	Aux. Bldg. Area 3 El 614'

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
N/A	N/A	P/N N/A REV N/A SER NO. N/A	Construction	N/A

11. INSPECTION CRITERIA	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG (X) SPEC ( ) OTHER IR NO. Block 16 NO E-7 Rev. 6	( ) YES ( ) NO	( ) YES (X) NO	( ) Rec'g (X) Const ( ) Test	( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION:

Line side wire conductors have not been coordinated with the increased size of circuit breakers for the following modifications:

MCC 1B55, Item 2 E-6.0 41
MCC 1B56, Item 11 E-6.0 42
MCC 2B55, Item 2 E-6.0 27
MCC 2B23, Item 1 E-6.0 21

Direction for modification is: (Continued Page Two)

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
A. M. Gabriel	5/2/79	[illegible]	5-2-79

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

E

2900270697

Block 16 Continued from previous page;

Direction for modification; (con't)

Step 1. "Remove 50A MAG BKr from CUB.———'"

Step 2. "Instr 100A Th MAG BKr."

Contrary to the size of the circuit BKr, the size of the wire for the circuit breaker has not been increased to the capacity of the circuit breaker.

269 208

Q-List Number 3.104 Four (4) HOLD Tags Applied Hold For Engineering Disposition

U

Start Up Code: Indeterminate

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 7220					19. NO. 2139	20. PAGE 1 OF 1
2. UNIT(S): Indeter-minate	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: 18 Pcs. 6-½ & 20 Pcs. 6- 3/4 AW2-SS Socket Weld Adapters			5. ITEM LOCATION: Warehouse # 1	
6. P.O. OR SPEC NO.: 7220-F-27952	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV SER NO.		9. SOURCE: Supplier	10. MANUFACTURER/SUPPLIER: Parker-Hannifin Corporation		
11. INSPECTION CRITERIA ( ) DWG (x) SPEC ( ) OTHER IR NO. N/A NO. J-710 Rev. 2		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:

Specification 7220-J-710 Rev. 2 requires Quality Verification Documentation in accordance with Form G-321-D Rev. 0. Contrary to the above, the Form G-321-D has not been received for the material listed above which was received on AEO's 7669 and 7719. "Q" numbers are indeterminate. Hold pending final disposition. 1 hold tag applied to the nonconforming item(s).

17. REPORTED BY: Dean A. Delaney DATE: 5/1/79

18. VALIDATED BY: [signature] DATE: 5-2-79

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 LD 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

269 209

alab

NONCONFORMANCE REPORT

5/1 Non testable Unit

269 219

1. PROJECT NAME: Midland	JOB NO.: 7220					19. NO. 2141	20. PAGE 1 OF 2
2. UNIT(S): 1	3. DRAWING/PART NO.: E606	REV: 13	4. ITEM DESCRIPTION: Conduit Support			5. ITEM LOCATION: Aux, 568', room 27	
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 (X) DWG ( ) SPEC ( ) OTHER IR NO./NO. 1AKB002 / E42		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:

E42, rev 39, sh 329 specifies P1000 and P3300 for use on type 11 supports. There is no provision for unistrut to be cantilevered from the T.S. Contrary to the above, a type 11 support has been installed on 568', room 27 for conduit 1AKB002 that has a P1001A3 cantilevered for 6" from the T.S. Otherwise, the configuration is that of an 11-2A.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
CA Cameron	5/2/79	WA Whiteley	5-2-79

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

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

NONCONFORMANCE REPORT (CONT'D) PAGE 2 OF 2 NCR NO 2141

Block 16 cont.

Q-List # 3.006 1 Hold Tag Applied Hold For Engineering Disposition

269

NONCONFORMANCE REPORT

s/u NON testable Unit

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 2142	20. PAGE 1 OF 2
2. UNIT(S): 1	3. DRAWING/PART NO.: E611	REV: 11	4. ITEM DESCRIPTION: Box Support	5. ITEM LOCATION: Aux, 599'	
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 [X] DWG [ ] SPEC [ ] OTHER IR NO. IBT 230 NO. E42	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: Spec C-304, rev 5, 6.3.10 states: "No welding shall be done across the flange of the beam without prior approval of project engineering." In addition, I. O. M. dated 3/30/79, from K. L. Castleberry states: "In particular, intermittant across flange welds shall not be replaced with continuous welds." Contrary to the above, a type 9E Box support has been installed

17. REPORTED BY: C A Cameron DATE: 5/2/79

18. VALIDATED BY: [illegible] W Barclay DATE: 5-2-79

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

NON CONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 2 19NCR NO 2142 ~~2141~~

Block 16 cont.

with continuous across the flange welds. Support is for 1BJ230. Location: Just under penetration 12-25 on column closest to containment / at this point, 599'.

Q-List # 3.006 / Hold Tag Applied Hold For Engineering Disposition

2692

NONCONFORMANCE REPORT

5/11 NOV testable unit

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
Midland	7220	2143	1 OF 2

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
2	E607	14	Conduit Support	AUX, 568', room 26

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	construction	NA

11. INSPECTION CRITERIA	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
☒ DWG ( ) SPEC ( ) OTHER IR NO. 2BC019 NO. E42	( ) YES ☒ NO	( ) YES ☒ NO	( ) Rec'g ☒ Const ( ) Test	( ) Client ( ) Eng ☒ FLD

16. NONCONFORMING CONDITION:

E42, rev 39, sh 329 specifies P1000 and P3300 for use on type II supports. There is no provision at all for conduit to be cantilevered from the T.S. Also, table 8 on sh 314 gives the details of configuration for type II supports. Contrary to the above, a type II conduit support has been installed on 568', room 26 for conduit 2BC019 that has a P1001A3 cantilevered 14" from

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
CA Cameron	5/2/79	DRA for JB Barclay	5-2-79

21. 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

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

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 2 19NCR NO 2143

Block 16 cont.

the T.S. In addition, the R is 9"x9"x½", while table 8 calls for a ⅜"x13"x1'-1" R. The general configuration, with the noted exceptions, is type 11-3A.

Q-List # 3.006 1 Hold Tag Applied Hold For Engineering Disposition

NONCONFORMANCE REPORT

S/U NON testable unit

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
Midland	7220	2144	1 OF 2

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
2	~~E606~~ E607	14	Conduit Support	Aux 568', room 28

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART P/N	REV	SER NO.	9. SOURCE	10. CONTRACTOR/SUPPLIER
NA	NA	NA	NA	NA	construction	NA

11. INSPECTION CRITERIA	IR NO. / NO.	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
(X) DWG ( ) SPEC ( ) OTHER	IR NO. C304-8091 / NO. 542	( ) YES (X) NO	( ) YES (X) NO	( ) Rec'g (X) Const ( ) Test	( ) Client ( ) Eng (X) FLD

16. NONCONFORMING CONDITION:

Spec C-304, rev 5, 6.3.10 states: "No welding shall be done across the flange of the beam without prior approval of project engineering." In addition, I.O.M. dated 3/30/79, from R.L. Castleberry states: "In particular, intermittant access flange welds shall not be replaced with continuous welds." Contrary to the above, a type 14 conduit support has been installed

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
C.A. Cameron	5/2/79	D.W. Shewbart	5-3-79

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

269 216

Block 16 cont.

with continuous across the flange welds. Location of this support is: 568', room 28, 3' south of E line and at 7.4.

Q-List # 3.006 1 Hold Tag Applied Hold For Engineering Disposition

269 21

Alat

NONCONFORMANCE REPORT

s/u new testable unit

1. PROJECT NAME: Midland	JOB NO.: 7220				19. NO. 2145	20. PAGE 1 OF 1
2. UNIT(S): 2	3. DRAWING/PART NO.: E613	REV: 11	4. ITEM DESCRIPTION: Type 12A SIM Conduit Support		5. ITEM LOCATION: Aux. Bldg. EL 599	
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 (X) DWG ( ) SPEC ( ) OTHER IR NO. 2BJB043 NO.	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:

Dwg. E42 SH 233 shows Type 12A support to be constructed of P1001A3 uNistrut. Note one of this same sheet requires prior engineering approval when connecting to existing steel. Contrary to this, four (4) Type 12A SIM supports have been attached to a floor beam without prior engineering approval and using P1001 unistrut. Location of supports: EL599', 16' N. of 7.4 and 3' W of 7.4 and 3' W of 7.4 to 13' W of 7.4

QA list #3.006 Hold for engineering disposition 4 Hold Tags Applied

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
DC Squires	5-2-79	QC J Barclay	5-2-79

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

8107070217

Alat

NONCONFORMANCE REPORT

s/u non testable Unit

1. PROJECT NAME	JOB NO.			19. NO. 2146	20. PAGE 1 OF 2
Midland	7720				
2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION	
1	E608	11	Conduit Supports	Aux, 584'	
6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART P/N	REV	SER NO.	9. SOURCE	10. CONTRACTOR/SUPPLIER
NA	NA	NA	NA	NA	construction	NA
11. INSPECTION CRITERIA [X] DWG [ ] SPEC [ ] OTHER IR NO. 304-815 w/ NO. Aux, 816 w/ E42	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:

E42, rev 39, sh 329 specifies P100 and P300 for use on type 11 supports. There is no provision for unistrut to be cantilevered from the T.S. Contrary to the above, 3 type 11 supports have been installed with double P100/A3 cantilevers. (1) general configuration, with the exception of two 9" P100/A3 cantilevers, is type 11-3A. (2) except for two 1' P100/A3

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
CA Cameron	5/2/79	[illegible]	5-3-79

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

22. [ ] Field Engineering Disposition [ ] Field Engineering Recommended Ditposition 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

269 219

Block 16 cont.

cantilevers, configuration is type II-1 with an oversize plate. (3) configuration is type II-3A except for two 1' P1001A3 cantilevers. Location of supports — (1) and (2) are approximately 9' south of C line and 3' west of 5.6 on 584'. (3) is 7' south of C line and 9' west of 6.2 on 584'. Supports (1) and (2) are associated with 1AC045 and 1AC046; and other conduit. Support (3) is associated with 1BJA002 and several other conduits.

Q-List #3.036 3 Hold Tags Applied Hold For Engineering Disposition

022 692

NONCONFORMANCE REPORT

S/U Nontestable Unit

1. Project Name: Midland Units 1 & 2	Job No.: 7220			19. No. 2147	20. Page 1 of 2
2. Unit(s): Aux	3. Drawing/Part No.: E-420 Sheet 329	Rev: 2	4. Item Description: Seismic Conduit Support		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: Construction	10. Contractor/Supplier: NA	
11. Inspection Criteria: [X] DWG [ ] SPEC [ ] OTHER IR NO. C304-1078W No. E 630 Rev 6		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:

Drawing E-420 Sheet 329 shows a type 11 conduit support with a base plate. It is shown attached to the wall with anchors. Contrary to this, 5 type 11 supports on the east wall of the unit 1 containment purge room (elev 673'), have the base plate welded to an existing embed, while the anchors have been omitted. This condition was reported on D.R.#W-657 on 3-21-79. Hold for engineering disposition, "Q"#3.006, 5 "HOLD" tags applied. See sketch on page 2

17. Reported By: Curt Harrison Date: 5-1-79

Validated By: Wm W Barclay Date: 5-2-79

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

PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. Disposition Results

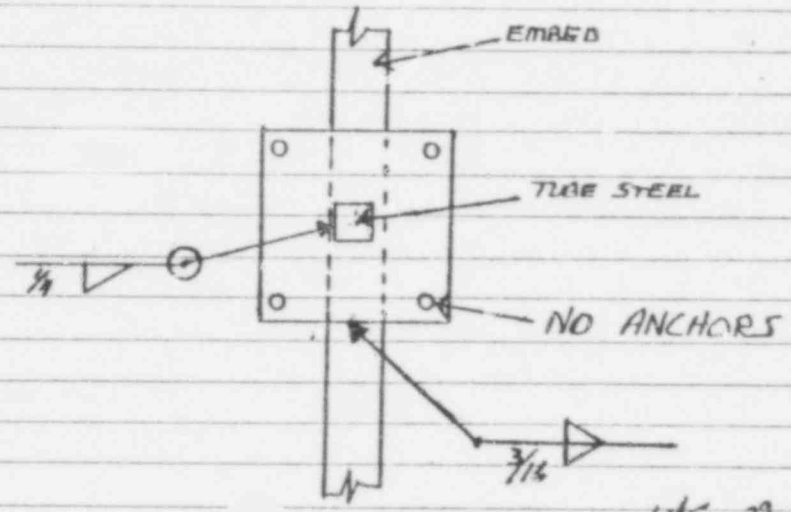
26. QC Acceptance

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

269 221

AS BUILT:



MM 5-1-79

Start Up Code: Untestable Unit

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
Midland	7220	2148	1 OF 2

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
2	See Block 16	N/A	Electrical Penetration Replacement Module Assy.	Containment # 2

6. P.O. ~~CONTRACT NO.~~	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. ~~CONTRACTOR~~/SUPPLIER
7220-E-20	See Blk. 16	P/N N/A REV ____ SER NO. ____	Supplier	Amphenol Sams Division/Bunker Ramo

11. INSPECTION CRITERIA	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG (X) SPEC ( ) OTHER IR NO. N/A NO. E-20 Rev. 5	( ) YES (X) NO	( ) YES (X) NO	( ) Rec'g (X) Const ( ) Test	( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION:

Item 1. Specification 7220-E-20 requires Quality Verification Documentation in accordance with Form G-321-D. The Replacement Module Assemblies listed below have been installed in Penetration 2Z132, however, the Quality Verification Documentation and Form G-321-D's indicate the Penetration Tag No. to be 1Z150.

Continued on Page 2

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Dean A. Delaney	5/2/79	W.T. Barclay	5-2-79

21. 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

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

Item 2. Specification 7220-E-20 Rev. 5 requires Form G-321-D Rev. 5. Contrary to this, Rev. 4 to the form was used for the documentation covering the Replacement Module Ass'y in Penetrations 2Z132 and 2Z150.

2Z132 Module Assembly S/N 781026-1-03, 781026-1-04, 781026-1-05, 781016-1-01, 781108-1-11.
2Z150 Module Assembly S/N 781108-1-10, 781023-1-06, 781024-1-02, 781023-1-05, 781027-1-08.

"Q" number is 3.002. Hold pending final disposition. No hold tag(s) applied.

Atat

NONCONFORMANCE REPORT

s/u now testable unit

1. PROJECT NAME	JOB NO.	19. NO	20. PAGE
Midland	7220	2149	1 OF 2

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
2	E 609	11	Type 13 Conduit Support	see Page 2

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
N/A	N/A	P/N N/A REV N/A SER NO. N/A	Construction	N/A

11. INSPECTION CRITERIA	IP NO.	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
(X) DWG ( ) SPEC ( ) OTHER	NO. E 42	( ) YES (X) NO	(X) YES ( ) NO	( ) Rec'g (X) Const ( ) Test	( ) Client ( ) Eng (X) FLD

16. NONCONFORMING CONDITION: Dwg E42 SH 332 and 363 show a type 13 conduit Support. This type 13 support calls for t.s. to be attached to a plate which is bolted to floor or ceiling with expansion anchors, NO provision is made for welding this plate to existing steel. Contrary to this the support has been attached to the flange of a beam by welding continuously along each of the four edges of the plate, causing two continuous welds across the flange. I hold Type dwld "a" list # 3006 Hold for engineering disposition

17. INITIATED BY: D Rhoades DATE: 5-3-77

18. VALIDATED BY: [signature] DATE: 5-31-77

19. ROUTING: (X) TH FIELD ENGINEERING ( ) TH 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

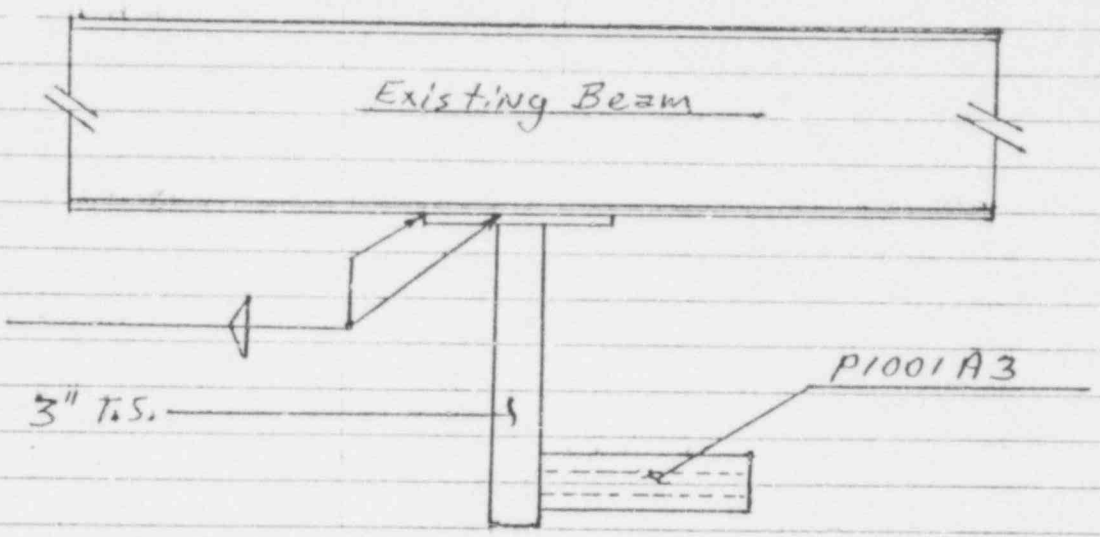
26. QC ACCEPTANCE

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

8205250252

269 226



Box 5 Item Location:
Aux. Building EL 584' 6'N of R ℄ and 1'W of T.4 on ceiling

DCS

NONCONFORMANCE REPORT

S/u Nontestable Unit

1. PROJECT NAME	JOB NO.			19. NO. 2150	20. PAGE 1 OF 2
Midland	07220				
2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION	
Cont. # 1	E-656	8	Conduit ~~Support~~ Supports	Cont. #1 Col. 3, 635', ±	
6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE	10. CONTRACTOR/SUPPLIER	
N/A	N/A		Construction	N/A	
11. INSPECTION CRITERIA (X) DWG ( ) SPEC ( ) OTHER IR NO. 1ALC023 NOE-42		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)F&D

16. NONCONFORMING CONDITION:

There is no approved detail for welding P1001 to the edge of the Flanges of Column #3 to be used as conduit supports, at Two (2) locations.

E

Q-List Number 3.006 Two (2) Hold Tags Applied Hold For Engineering Disposition

17. REPORTED BY J W Mills DATE 5-1-79

18. VALIDATED BY DATE

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

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

21. 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

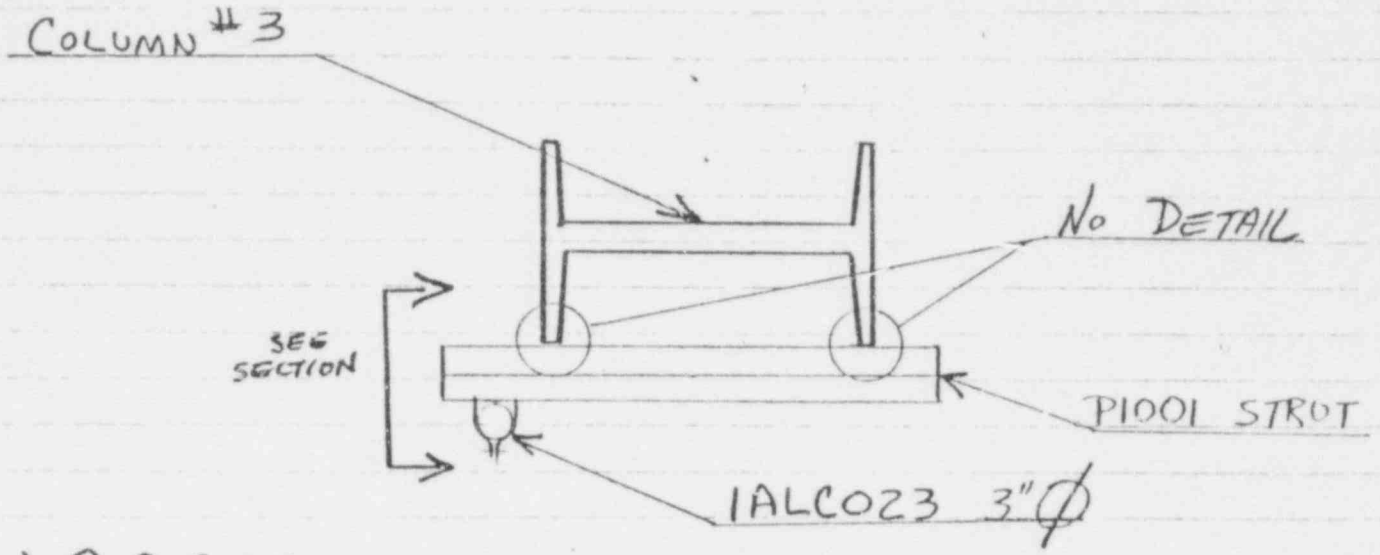
25. DISPOSITION RESULTS

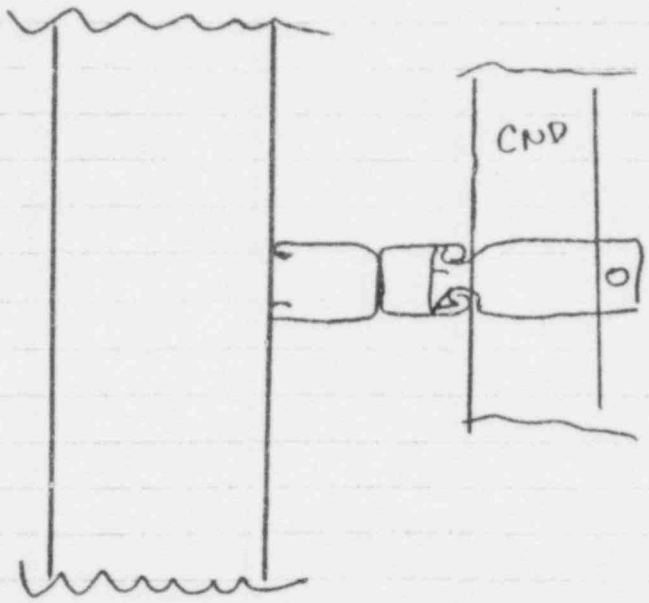
26. QC ACCEPTANCE

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

269 220





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OEAA 2PKD
S/U 1SAB 2PPB
2PFA

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 07220			19. NO. 2151	20. PAGE 1 OF 1
2. UNIT(S): I & II	3. DRAWING/PART NO.: E-37	REV: 26	4. ITEM DESCRIPTION: Cable Essex	5. ITEM LOCATION: Posey Rd. Lay Dn./Combo	
6. P.O. OR SPEC NO.: E-22Q	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: Essex	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. N/A NO. E-22		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:

Specification E-22, paragraph 6.3.2, states in part;

"Conductors shall have a covering of colored components with tracers", contrary to this requirement 2C/#6 Essex Cable has no identification marker on ~~co~~ conductors.

E

The reels are: Cable Code B-30 601, ~~602~~, 604, ~~605~~, ~~606~~.

Q-List Number 3.003 ~~Seventeen (17)~~ Fifteen (15) Hold Tags Applied Hold For Engineering Disposition

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
D L Clayton	5/3/79	[signature]	5-3-79

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

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

Field to ring out and identify using color coded tape.

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

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NONCONFORMANCE REPORT

S/u Non Testable Unit

1. PROJECT NAME: Midland	JOB NO.: 7220					19. NO. 2152	20. PAGE 1 OF 1
2. UNIT(S): 2	3. DRAWING/PART NO.: E613	REV: 11	4. ITEM DESCRIPTION: Typ. 13 Conduit Support			5. ITEM LOCATION: Aux. Bldg EL 599'	
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 (X) DWG ( ) SPEC ( ) OTHER IR NO. 2BKA 008 4 NO. 2BTB040		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: Dwg E42 SH 332 and 363 calls out a type 13 support to be attached to the floor or ceiling. Contrary to this a type 13 support has been attached to a wall using ½" expansion anchors. Other dimensions are 13" x 13" x ½" ℄, 2" x 2" x ¼" T.S. 11" long with a P1001A3 cantilever. Location EL 599' 9' E. of 6.6 – at G

"Q" list 3.006 Held for engineering disposition / Held tag applied

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
QC Inspector	5-2-79	QC Supervisor	5-3-79

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

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S/U Nontestable Unit.

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 07220					19. NO. 2154	20. PAGE 1 OF 1
2. UNIT(S): II	3. DRAWING/PART NO.: E-652	REV: 9	4. ITEM DESCRIPTION: Anchor Installation			5. ITEM LOCATION: R/B #2 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 SER NO. N/A		9. SOURCE: Construction	10. CONTRACTOR/SUPPLIER: N/A		
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. C-1.50 EH 197 NO. C-305, Rev8		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 XX FLD	

16. NONCONFORMING CONDITION:

Specification C-305, Revision 8, SCN 9001 states, "All expansion anchors that are to be placed in the Containment Secondary Shield Walls must have prior approval from Project Engineering". Contrary to the above, four (4) 3/8" stud type expansion anchors were installed between 210° and 230° at Elevation 656' and 644' the outside of the secondary shield wall, without prior Projec t Engineering Approval.

E

Q-List # 1.102 Two (2) Hold Tags Applied Hold For Engineering Dispostion

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
[signature]	5/3/79	[signature]	5-3-79

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

NONCONFORMANCE REPORT

S/u Nontestable Unit.

269 232

1. PROJECT NAME: Midland	JOB NO.: 07220			19. NO. 2155	20. PAGE 1 OF 2
2. UNIT(S): I & II	3. DRAWING/PART NO.: E-611 and E-612	REV: 11/11	4. ITEM DESCRIPTION: Type 12 Box Supports		5. ITEM LOCATION: Aux. Building El. 599'
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: X Construction	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA: (X) DWG ( ) SPEC ( ) OTHER — IR NO. E-1.0, NO. E-42	12. ASME AUTHORIZED INSPECTION REQ'D: ( ) YES (XX) 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:

1) E-42, Revision 39, sheet 605, shows pull box attachment details for a Type 12 floor support. Note one(1) on sheet 605, specifies P1000 Unistrut members are required for pull box attachment. Contrary to the above, six Type 12 supports were installed using P3300 Unistrut members for attaching the boxes.

(Continued following page)

17. REPORTED BY [signature] DATE 5-3-79

18. VALIDATED BY [signature] DATE 5-3-79

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

Block 16 Continued from previous page.....

2) E-42, Revision 39, Sheet 364, shows details for mounting tube steel to the base plate for a Type 12 support. The Six (6) box supports above do not conform to these details, because no Base Plate Braces have been installed.

Location for Supports:

UNIT ONE ELEVATION 599'

a) 6' North of D Line
13' East of 5.6 Line

b) On F Line
13' East of 5.6 Line

c) 17' South of F Line
15' West of 6.2 Line

UNIT TWO ELEVATION 599'

d) 6' North of D Line
11' West of 7.4 Line

e) 3' South of E Line
12' Est(east) of 6.9 Line

f) 10' South of F Line
15' West of 7.4 Line

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Q-List Number 3.006 Six Hold Tags Applied Hold For Engineering Disposition

2-PNC
5/11 #1 1-PKA 1-PKB 1-PNA 1-PNB 1-PND
2-PKA 2-PKB 2-PNA 2-PNB 2-PND

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.			19. NO. 2156	20. PAGE 1 OF 3
Midland	07220				
2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION	
I & II	E-532	13	Battery Chargers and Inverters	Aux. Building El. 614'	
6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE	10. CONTRACTOR/SUPPLIER	
N/A	N/A		Construction	N/A	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. E-6.0 NO.	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 (X)Eng ( )FLD	

16. NONCONFORMING CONDITION:

According to C-305, Paragraph 4.8 , "Expansion anchors shall be seated and expanded by applying the torque,...." Contrary to this the listed equipment have expansion anchors that have not been re-torqued to required value, this is due to space limitation from adjacent walls and equipment. The expansion anchors in question were seated and expanded to the required torque prior to equipment setting subsequently the nuts were removed during equipment setting rendering the quality of the expansion anchors indeterminate. (See page two)

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Louis D. Wilson	5/3/79	K.E. Kirsch	5-3-79

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

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Block 16 Continued from previous page.....

There are grouted anchors incorporated with the expansion anchors that do not have a torque value for the equipment. See attached sketch for locations of inacessible expansion anchors and grouted anchors.

The following is a list of affected equipment:

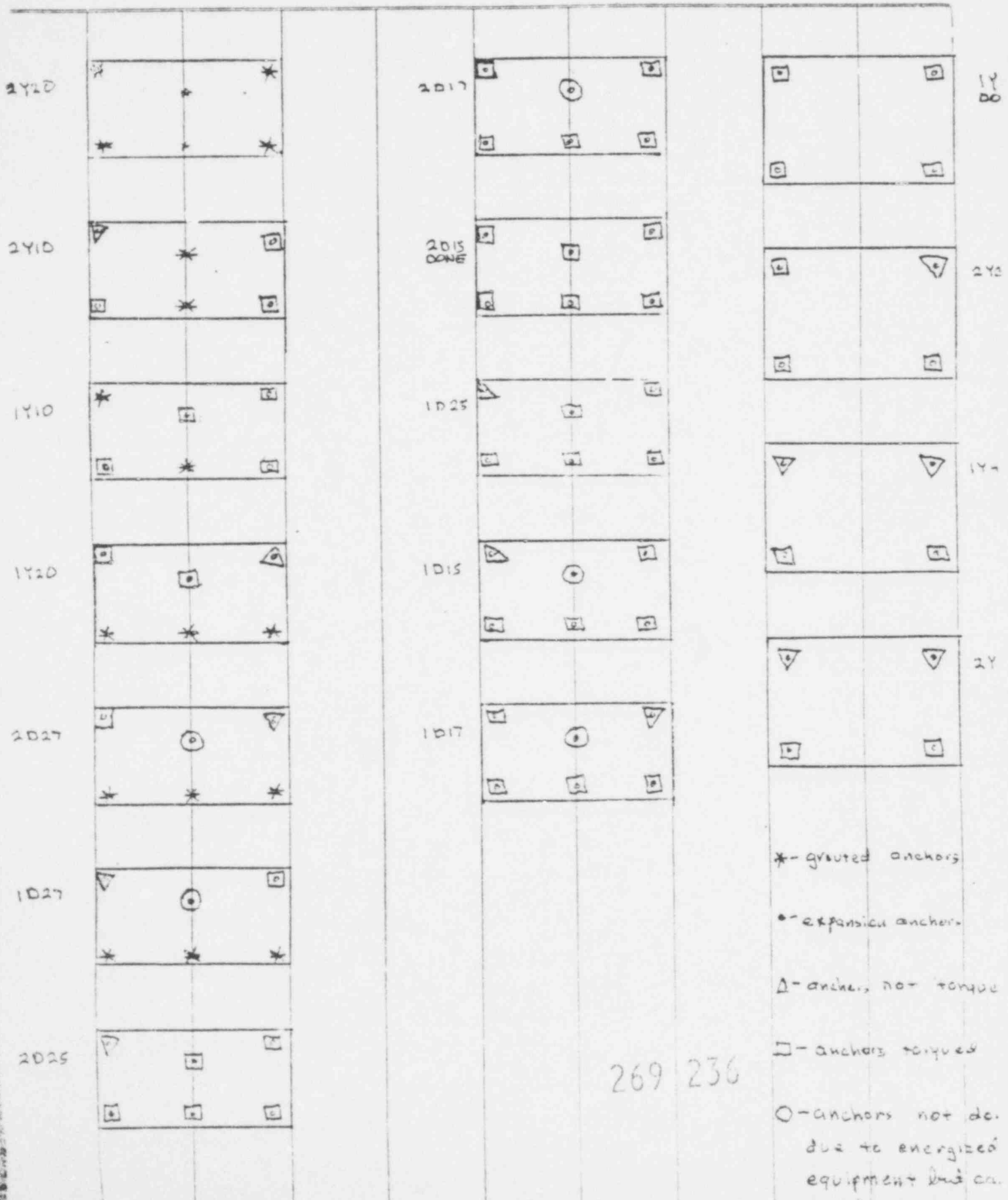
	2D27	2Y10
	1D27	1Y10
	2D25	2Y20
	1D25	1Y20
	2D17	2Y30
	1D17	2Y40
	1D15	1Y40
Applicable Q-List #	3.202	3.301

Fourteen ~~Hedi~~ Hold Tags Applied Hold For Engineering Disposition

69 255

NCR No. 215.

Page 3 of 3



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NONCONFORMANCE REPORT

S/U Non-Testable

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
Midland	7220	2157	1 OF 1

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
Common	N/A	N/A	Grouting of Anchor Bolts for Wall Hangers	Auxiliary Building

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
N/A	N/A	P/N N/A REV N/A SER NO. N/A	Construction	N/A

11. INSPECTION CRITERIA	IR NO.	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG (X) SPEC ( ) OTHER	NO. C-306, Rev.4	( ) YES (X) NO	( ) YES (X) NO	( ) Rec'g (X) Const ( ) Test	( ) Client ( ) Eng (X) FLD

16. NONCONFORMING CONDITION: Specification 7220/C-306, Rev. 4, Sect. 7.0 states in part: "Visual inspection of the process of grouting bolts shall be performed to assure correct installation." Contrary to the above, Hanger #(619-6-1) / 26-OHBC-19-H1 located in the East Wing Wall Elevation 596'+ (6' E/7.9, 6' S/C) was removed due to relocation. 16 (1" Dia.) grouted anchor bolts were used. When the bolts were cored out, each bolt had a void in the top back portion of each hole. "Q"-List #1.105. Hold for Engineering Disposition. 1 Hold Tag Applied.

17. INITIATED BY Kenneth Gunsch DATE 5/2/79

18. VALIDATED BY C.O. Farabee DATE 5-3-79

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

Start Up Code: Untestable Alat

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 7220					19. NO. 2158	20. PAGE 1 OF 1
2. UNIT(S): Indeterminate	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION (S10, I05, I17, S09): Instrument and Special Purpose Cable			5. ITEM LOCATION: Poseyville	
6. P.O. OR SPEC NO.: 7220-E-60	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N ____ REV N/A SER NO. ____		9. SOURCE: Supplier	10. CONTRACTOR/SUPPLIER: Rockbestos		
11. INSPECTION CRITERIA: ( ) DWG (x) SPEC ( ) OTHER — IR NO. R-1.00-9553 NO. E-60 Rev. 2		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 (X) Eng ( ) FLD		

16. NONCONFORMING CONDITION: Technical Specification E-60 Rev. 2 requires Quality Verification Documentation and G-321-D. Contrary to this no Q.V.D. Package was received with MRR-9553, Reels: (S-10)-B-4712, B-4697. (I05)-B-4661, B-4678, B-4676, B-4674, B-4677, B-4675, B-4474, B-4473, B-3737. (I-17)-B-4489. (S09)-B-4309. Hold for engineering disposition. 13 hold tag(s) applied to nonconforming item(s). "Q" number is indeterminate.

17. REPORTED BY: J.E. Estes by J Hunter DATE: 5/3/79

18. VALIDATED BY: T.O. Barclay DATE: 5-4-79

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

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NONCONFORMANCE REPORT

S/U #'S 1BCA & 2BCA

1. PROJECT NAME: Midland	JOB NO.: 7220					19. NO. 2159	20. PAGE 1 OF 2
2. UNIT(S): 1 & 2	3. DRAWING/PART NO.: ANCHOR-DARLING 3287-3	REV: D	4. ITEM DESCRIPTION: MAN. OPER. VALVE LIMIT SWITCHES			5. ITEM LOCATION: 568' Aux. Bldg.	
6. P.O. OR SPEC NO.: 7220-M-125.C	7. SERIAL NO.: 5205-14-1-6, 5205-14-1-3	8. REPLACEMENT PART P/N: N/A REV: N/A SER NO.: N/A		9. SOURCE: Supplier	10. CONTRACTOR/SUPPLIER: Anchor-Darling		
11. INSPECTION CRITERIA (X) DWG ( ) SPEC ( ) OTHER IR NO. N/A NO. See Bl. #3		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: Anchor-Darling drawing 3287-3, REV. D REQUIRES A 120-31100 Type Limit switch FOR the upper Limit switch AND A 120-32100 Type Limit switch FOR THE LOWER LIMIT SWITCH FOR VALVES 4"2-631 (ITEM 36.1) AND 4"3-630 (ITEM 36.2). Quality Control and Field Engineering has determined that The Lower Limit switch (which is Q"-listed #'s 4.127 & 4.137 2 Hold Tags applied to valves

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
C.R. Fagate	5-4-79	T.E. Barclay	5-4-79

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

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Block #16 continued:
IDENTIFIED AS A LOWER LIMIT SWITCH) ON VALVE 412-031 is ACTUALLY AN UPPER LIMIT SWITCH which is IDENTIFIED INCORRECTLY By The VENDOR. Also THE UPPER LIMIT SWITCH (which is IDENTIFIED AS AN UPPER LIMIT SWITCH) ON VALVE 413-030 is ACTUALLY A LOWER LIMIT SWITCH which is IDENTIFIED INCORRECTLY.

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NONCONFORMANCE REPORT

SKI Non-Fissile Unit

1. Project Name: Maxey Units 1+2	Job No. 7220			19. No. 2160	20. Page 1 of 2
2. Unit(s): Cont. #1	3. Drawing/Part No.: N/A	Rev: N/A	4. Item Description: Lamination on Bldg. steel	5. Item Location: El. 684', Approx. AZ. 170°	
6. P.O. Or Spec No.: C-304	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 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:

After removal of an elec. support, laminations, were discovered in different locations on the underside of the bldg steel. These laminations run parallel and perpendicular with the beam. Approx. 6 to 10 of these in a 1 foot sq. area.

Held for Engineering Disposition: 1 Red Tag Applied. @ No. #1.101

17. Reported By: John C Braun Date: 5-4-79

18. Validated By: W. L. Barclay Jr. Date: 5/7/79

21. 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

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. Disposition Results

26. QC Acceptance

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

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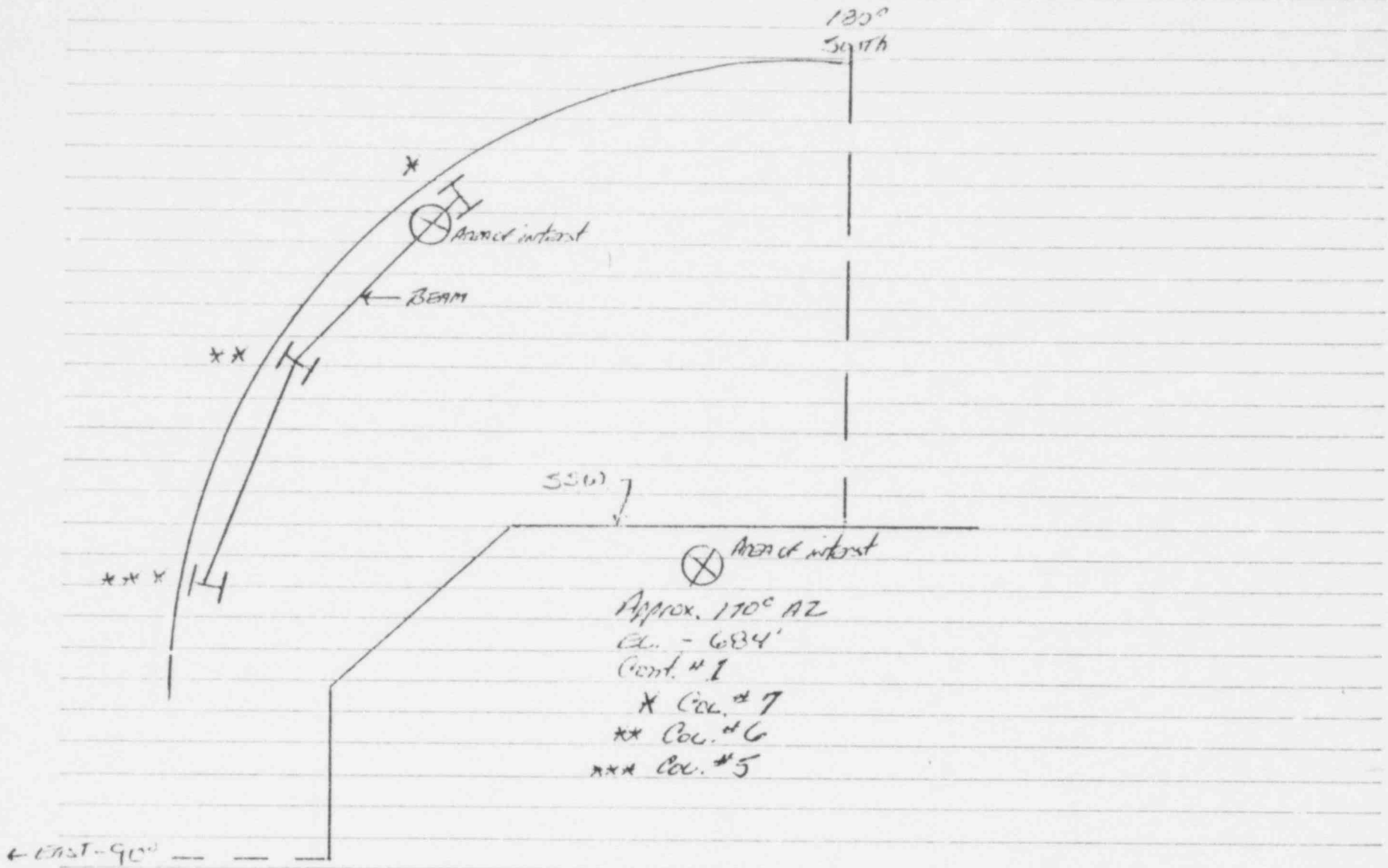

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White Copy – Originator
Canary Copy – Field Engineer
Pink Copy – PQAE
Goldenrod Copy – QC

QC G3 5

NONCONFORMANCE REPORT

Shi Non-Testable Unit

1. Project Name: Midland Units 1&2	Job No.: 7220			19. No. 2161	20. Page 1 of 2
2. Unit(s): Cont. #1	3. Drawing/Part No.: n/a	Rev	4. Item Description: Surface Lamination on Bldg. steel	5. Item Location: E-W25 Approx. 130'	
6. P.O. Or Spec No.: C-304 Rev. 5	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 — NO. n/a

12. ASME AUTHORIZED INSPECTION REQ'D: ☐ YES ☒ NO

13. SKETCH ATTACHED: ☒ YES ☐ NO

14. Discovered During: ☐ RECVG ☒ CONST ☐ TEST

15. Equip Furnished By: ☐ CLIENT ☒ ENG ☐ FLD

16. Nonconforming Condition:

After removal of an elec. support a lamination approx. 1" inches long has been discovered. This lamination runs parallel with the beam on the underside. See attached sketch.

Hold for Engineering Disposition: I hold tag applied. (Q) No # 1.101

17. Reported By: John C Brown Date: 5-4-79

18. Validated By: W L Barclay jr Date: 5/7/79

21. 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

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJECT CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

25. Disposition Results

26. QC Acceptance

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

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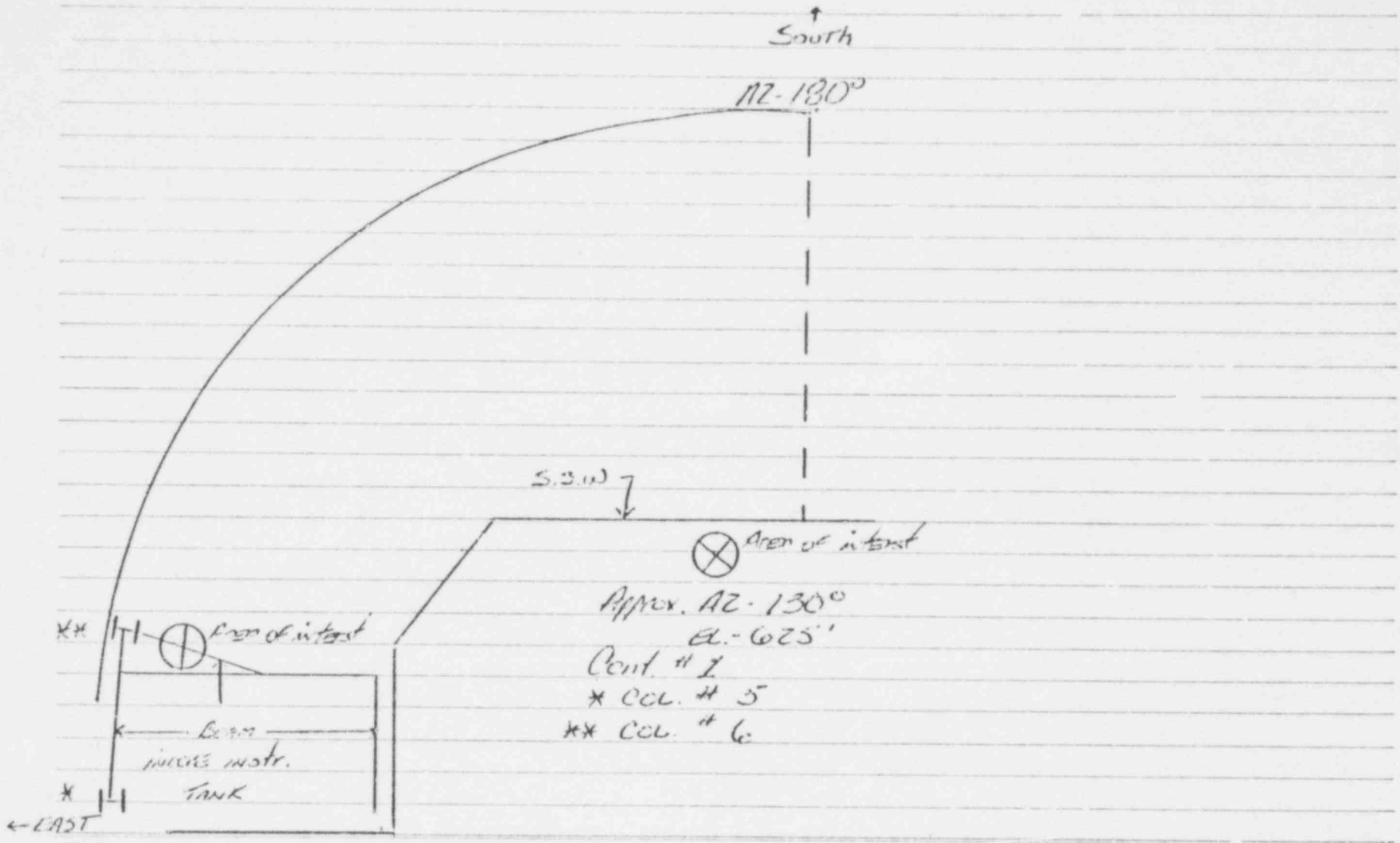
NONCONFORMANCE REPORT (CONT'D) PAGE 2 OF 2 14. NCR NO. 2161

269 244



10098-2

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

QC G13

0

Start Up Code: Untestable

dlat

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO. 2164	20. PAGE 1 OF 1
Midland	7220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
Indeter-minate	N/A	N/A	600 Volt Power Cable	Poseyville

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
7220-E-22	N/A	P/N N/A REV ____ SER NO. ____	Supplier	Essex Group Inc.

11. INSPECTION CRITERIA	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG (X) SPEC ( ) OTHER IR NO. R-1.00-9577 NO. E-22 Rev. 5	( ) YES (X) NO	( ) YES (X) NO	(X) Rec'g ( ) Const ( ) Test	( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION:

Technical Specification E-22 requires complete Quality Verification Documentation. Contrary to this P.O. Item 1, Reel # 4713-2178 ft. is not noted in Q.V.D. package. Hold for engineering disposition. 5 hold tag(s) applied to nonconforming item(s). "Q" number is 3.003.

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	DATE	18. VALIDATED BY	DATE
(E) E. ESTES by J Hendrix	5/8/79	W Barclay	5-8-79

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

Plat

NONCONFORMANCE REPORT

Nontestable

1. PROJECT NAME: Midland	JOB NO.: 7220					19. NO. 2165	20. PAGE 1 OF 3
2. UNIT(S): 2	3. DRAWING/PART NO.: E-612	REV: 11	4. ITEM DESCRIPTION: Conduit Support			5. ITEM LOCATION: Aux, 599'	
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: (X) DWG ( ) SPEC ( ) OTHER — IR NO. 2AJD010 NO. 2AJD020		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:

E42, rev 40, sh 329 specifies P1000 and P3300 for use on type II supports. There is no provision for unistrut to be cantilevered from the T.S. Contrary to the above, a type II support has been installed with a 13" P1001A3 cantilevered at an angle from the T.S. Support has a 10"X15" PL with 2"X2" T.S. Q conduits attached are 2AJD010 and 2AJD020.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
C A Cameron	5/8/79	B W Barclay	5-8-79

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

8207-6927

Block 16 cont.

Support location: 599', 8' west of 7.9 and 1' north of C.

Q-List # 3.006 1 Hold Tag Applied Hold for Engineering Disposition.

269 247

CALCULATION SHEET

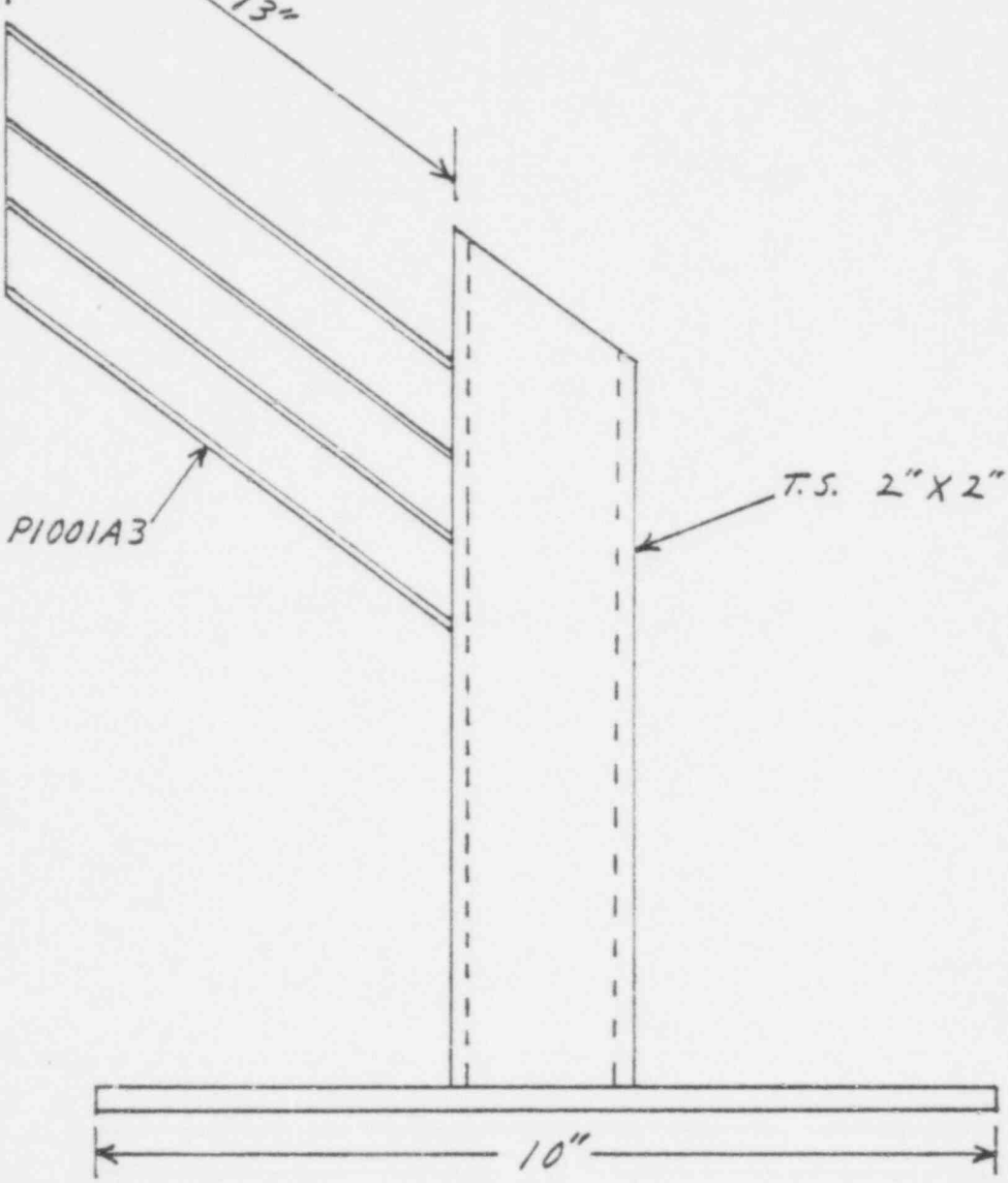
DATE

NCR-2165

DESIGN BY DATE CHECKED BY SHEET NO. 3 of 3

PROJECT JOB NO.

SUBJECT CALCULATION NO. FILE NO.



Not To Scale

269 248

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Al26

NONCONFORMANCE REPORT

SU # not assigned

1. PROJECT NAME: MIDLAND	JOB NO.: 07220					19. NO. 2166	20. PAGE 1 OF 1
2. UNIT(S): I & II	3. DRAWING/PART NO.: E-540	REV: 11	4. ITEM DESCRIPTION: Control Panels 1C14/1C23/1C21/1C30/2C24/			5. ITEM LOCATION: Aux. Building Elv. 659'	
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. See Block 16 NO. J-201 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:

Control panels have been damaged by cutting of wires that have been installed internally. Some of the wires are Vendor furnished, the others have been installed by construction. Six (6) glass lenses for relay in 1C30, have been broken. Control panels that have been ~~vandalized~~ DAMAGED are the following:
1C14 E-6.0 82/ 1C23 E-6.0 80/ 1C30 E-6.0 51/ 1C21 E-6.0 79/ 2C24 E-6.0 58/

E

Q-List Number 5.031 / Five (5) Hold Tags Applied / Hold For Engineering Disposition/

17. REPORTED BY: N. W. Kalwick — DATE: 5/4/79

18. VALIDATED BY: D. W. Barclay — DATE: 5-8-79

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

8212290269

26. QC ACCEPTANCE

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

Alab

S/U: Nontestable

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO. 2167	20. PAGE 1 OF 3
Midland	7220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
1	E632	6	Conduit Support	Aux, 685', unit 1

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	construction	NA

11. INSPECTION CRITERIA	IR NO	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
(X) DWG ( ) SPEC ( ) OTHER	NO 1AFEC002 + 1AFEC001	( ) YES (X) NO	(X) YES ( ) NO	( )Rec'g (X)Const ( )Test	( )Client ( )Eng (X)FLD

16. NONCONFORMING CONDITION:

E42, rev 10, sh 329 specifies P1000 and P3500 for use on type II supports. There is no provision for T.S. To be cantilevered from T.S. on a type II. Contrary to the above, a type II support has been installed on 685' unit 1 with such a cantilever. Plate size is 13"X13" with a 14" 3"X3"X¼" T.S. welded to it. Cantilevered from this first T.S. is a second T.S. 3"X3"X 3/16" that is 15" long. Onto the

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
CA Cameron	5/7/79	WBB WBarclay	5-8-79

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

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

269 250

Block 16 cont.

second T.S. is stitch-welded a length of single unistrut. Two four-inch conduits are attached to this support: 1AFE002 and 1AFC001. Support location: 699', 1'-9" west of the 6.6 wall on the South face of the H wall.

269 251

Q-List # 3.006 1 Hold Tag Applied Hold for Engineering Disposition

CALCULATION SHEET

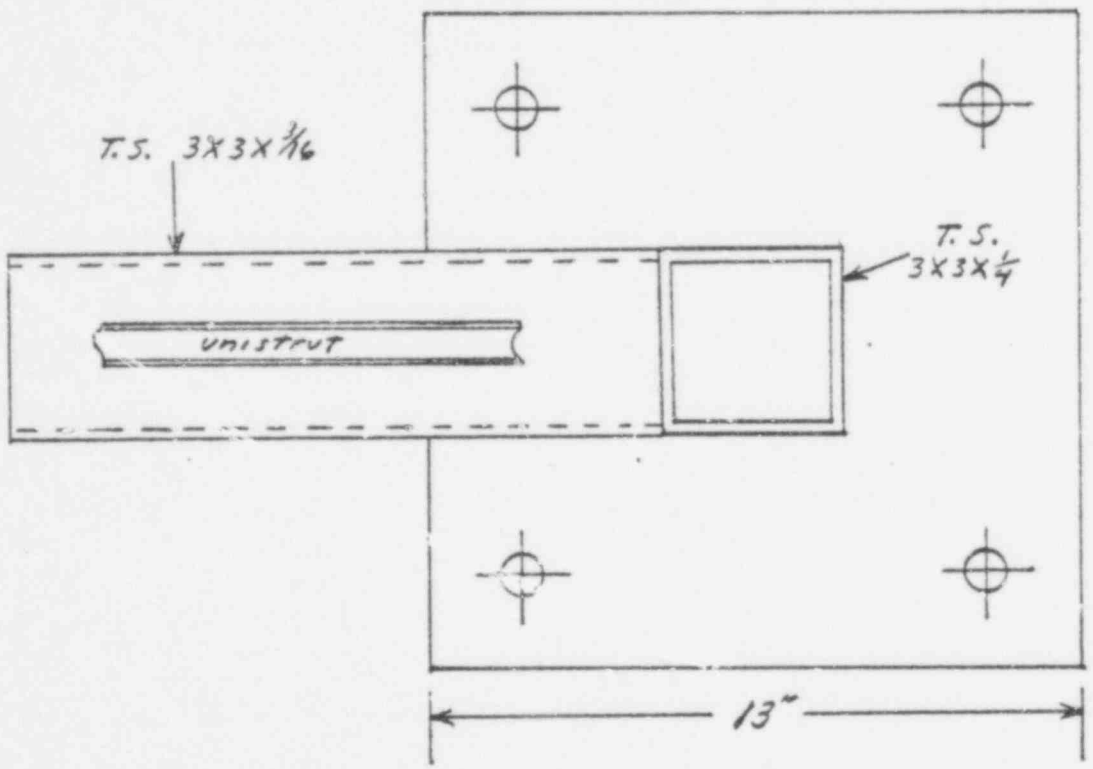
DATE

NCR-2167

DESIGN BY _____ DATE _____ CHECKED BY _____ SHEET NO. 3 of

PROJECT _____ JOB NO. _____

SUBJECT _____ CALCULATION NO. _____ FILE NO. _____



Not To Scale

269 252

alat

NONCONFORMANCE REPORT

S/U: Nontestable

1. PROJECT NAME	JOB NO.			19. NO. 2168	20. PAGE 1 OF 1
Midland	07220				
2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION	
1 Aux. Bldg.	E-625 Sheet 2	4	Seismic Conduit Supports	Aux. Building Elv. 646'0"	
6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART		9. SOURCE	10. CONTRACTOR/SUPPLIER
N/A	N/A	P/N N/A REV N/A SER NO. N/A		Construction	N/A
11. INSPECTION CRITERIA (X) DWG ( ) SPEC ( ) OTHER	IR NO ~~2Ec0129~~ 2CE012 NO E-42	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 ( )Offsht ( )Eng (X)FLD

16. NONCONFORMING CONDITION:

E-42, Revision 40, Sheet 333, specifies the use of P1001A3, Unistrut welded to a structural embed for a Type 12A support. Contrary to this field has used a P1001 Unistrut.

This support is located 1' West of 9.1 and 7' North of K lines.

Q-List # 3.006/ One (1) Hold Tag Attached/ Hold For Engineering Disposition /

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Dale D. Hollenbeck	5-7-79	D. D. Barclay	5-8-79

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

7907230697

S/U: Nontestable

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO. 2169	20. PAGE 1 OF 2
Midland	07220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
I & II	E-617 Sheet 2	10	Conduit Supports	Aux. Building Elv. 614'

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE	10. CONTRACTOR/SUPPLIER
N/A	N/A		Constr/Engr	N/A

11. INSPECTION CRITERIA	IR NO.	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
(X) DWG ( ) SPEC ( ) OTHER	See Block 16 NO. E-42	( ) YES (X) NO	(X) YES ( ) NO	( )Rec'g (X)Const ( )Test	( )Client ( )Eng (X)FLD

16. NONCONFORMING CONDITION:

Supports type 513 were installed as per E-42, sheet 303 as a special case for conduits 2AKA012 through 2AKA017. Since these supports were installed, four (4) additional conduits have been added which is not as per drawing shown in E-42, Sheet 513. Also the MAX WT. 177 PLF has now been exceeded. These supports are located 5'-4"East of 7.2 and 2'-7" south of G- 13'3" west of 7.8 and and 2'-7" south of G 2'2" west of 7.2 and 2'-7" south of G. Conduits added to this support are 1RTB014, 1BJA022, 1BD033 and 1BD034. Continued page two

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
[illegible]	5-7-79	[illegible] C.A. Barclay	5-8-79

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

NONCONFORMANCE REPORT (CONT'D) [20]PAGE 2 OF 2 [19]NCR NO 2169

Block 16 Continued from previous page.....

Q-List Number 3.006 Three Hold Tags Attached Hold For Engineering Disposition

269 255

S.U. # 2-EAC

NONCONFORMANCE REPORT

1. PROJECT NAME: Diablo Canyon	JOB NO.: 7320			19. NO. 2170	20. PAGE 1 OF 1
2. UNIT(S): 2	3. DRAWING/PART NO.: 47-417 sh 3	REV. 6 F2	4. ITEM DESCRIPTION: Spool 2HBC-103-S-019-3-1	5. ITEM LOCATION: 42'N & Cont 2/E 617/32'W &	
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: Contractor	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. 2-10-7 NO. 023372		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: Technical Specification N-245 (Rev 2) States in Part 6.4.2 - Surfaces found to class D requirements shall be inspected visually to ensure freedom from gross foreign materials. Contrary to this a gross amount of material is observed to the 90° elbow of the spool. Ref List No. 4.12. One Weld Tag applied at the elbow.

24. DISPOSITION CONCURRENCE	rework	reject	repair	use as is

17. REPORTED BY: E. Yeh & Stevens	DATE: 5-7-79	18. VALIDATED BY: [illegible]	DATE: 5-8-79

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 QC ENGINEER	DATE
AUTHORIZED INSPECTOR	DATE

26. QC ACCEPTANCE	
QC ENGINEER	DATE
AUTHORIZED INSPECTOR	DATE

269 256

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Alat

NON-TRAIN-UNIT.

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 7220				19. NO. 2171	20. PAGE 1 OF 1
2. UNIT(S): 1	3. DRAWING/PART NO.: E42	REV: 40	4. ITEM DESCRIPTION: Conduit Support		5. ITEM LOCATION: Aux, 599' unit 1	
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 (X) DWG ( ) SPEC ( ) OTHER IR NO C304-7906-52 NO. E42	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		

E/W

16. NONCONFORMING CONDITION:

E42, rev 40, sh 329 specifies P100 and P330C for use on type II supports. Contrary to the above, a type II has been installed with P100A's substituted for P100 and P330C. An unstenciled, 6" conduit is attached. Support location: 602', 6' south of C and 2' west of 5.6.

Q-List # 3006 Hold Tag Applied Held for Engineering Disposition

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
C.C. Corry 2079	5/8/79	W.W. Barclay	5-8-79

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

269 257

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Aab

NONCONFORMANCE REPORT

S/U - Non-Testable Unit

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 2172	20. PAGE 1 OF 1
2. UNIT(S): Indeterminate	3. DRAWING/PART NO.: 6-3/4 AW2-SS	REV: N/A	4. ITEM DESCRIPTION: 12 EA. Socket Weld Adapters 6-3/ AW2-SS		5. ITEM LOCATION: Warehouse # 1
6. P.O. & [illegible]: 7220-F-27952 Rev. 2	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N REV SER NO. N/A	9. SOURCE: Supplier	10. [illegible]/SUPPLIER: Forberg Scientific	
11. INSPECTION CRITERIA ( ) DWG (x) SPEC ( ) OTHER	IR NO R-1.00-4373 NO J-710 Rev. 2	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) FLD

16. NONCONFORMING CONDITION:

Bechtel Purchase Order F-27952 calls for fittings made from bar stock to be certified to ASME-SA-479 Type 316. Upon review of the documentation for the 12 Socket Weld Adapters received on ASO-7964, it was found that Material Test Report certifies these fittings to ASTM-A276-73 Type 316 rather than ASME SA-479 Type 316. "Q" number is indeterminate until installation. Hold pending final disposition. 1 hold tag applied to the nonconforming item(s).

17. REPORTED BY: Michael A. Pilliod DATE: 5-9-79

18. (GH) VALIDATED BY: L.F. Barclay DATE: 5-9-79

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

269 258

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NONCONFORMANCE REPORT

S/u # OGJA

1. PROJECT NAME: Schlumberger	JOB NO.: 7220					19. NO. 2173	20. PAGE 1 OF 1
2. UNIT(S): 142	3. DRAWING/PART NO.: CUAR-018 - CUAT-018	REV	4. ITEM DESCRIPTION: 4½" Heading Units			5. ITEM LOCATION: Aux. Bldg. 685 elev	
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. NO. F-1-314		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: Activity 3.1 of F-1-314 requires nugget testing of welds prior to release from storage. Contrary to the above, CUAT-018 and CUAR-018 were released from the warehouse to the Zack Co. without nugget testing the welds.

"A" listed # 4,655 46 Weld logs affixed.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
D. E. Fugate	5-9-79	J. R. Barclay	5-9-79

19. 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

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

269 259

NONCONFORMANCE REPORT

S/U NON TESTABLE UNIT

1. PROJECT NAME: MID LAND PROJECT	JOB NO.: 7220			19. NO. 2174	20. PAGE 1 OF 2
2. UNIT(S): 1	3. DRAWING (SKETCH NO.): C-383	REV: 6	4. ITEM DESCRIPTION: STRUCTURAL STEEL		5. ITEM LOCATION: REACTOR BLDG. #1 EL. 459-0
6. PO OR SPEC NO.: C-304	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE: CONSTR.	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC ( ) OTHER IR NO. N/A 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 ( ) Eng (X) FLD

16. NONCONFORMING CONDITION:

SECT. 7 PARA. "h" OF THE AISC CODE OF STANDARD PRACTICE STATES IN PART "STRUCTURAL STEEL FOR STRUCTURES ... ARE CONSIDERED PLUMB LEVEL AND ALIGNED IF THE ERROR DOES NOT EXCEED 1:500. CONTRARY TO THIS 1) THE STRUCTURAL STEEL BEAMS IMMEDIATELY TO THE NORTH OF THE REACTOR HEADSTAND OPENING AT EL. 656-9 EXCEED

17. REPORTED BY: W. A. DeVallance DATE: 5/9/79

18. VALIDATED BY: T. Barclay DATE: 5-9-79

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

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

1) THE FIELD PROPOSES TO USE THE STRUCTURAL STEEL "AS IS" BASE ON THE FACT THAT THE BEAMS ARE AT MOST 1" BELOW T.O.S. EL. 656-9 AND THERE IS ONLY A 5/8" MAXIMUM DIFFERENTIAL BETWEEN THE ENDS OF ANY ONE BEAM. THIS

23. PROJECT ENGINEERING DISPOSITION: Project engineering has reviewed the conditions outlined in block [illegible] and concurs with field engineering with respect to part 1 of the non conforming condition. Although the alignment of the steel exceeds the allowable error as outlined in the AISC Code of Standard Practice, the deviation is minimal and the effect of the misalignment will be negligible; therefore, project engineering recommends that part 1 of the condition refered to in block 16 be "use as is." (Con't on page 4)

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
		X #2	X #1

J. J. Bilonick [illegible] 5-15-79
PROJECT FIELD ENGINEER DATE

R. K. Bowman/RLC 5-15-79
PROJECT ENGINEER DATE

T. O. Barclay 5-15-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

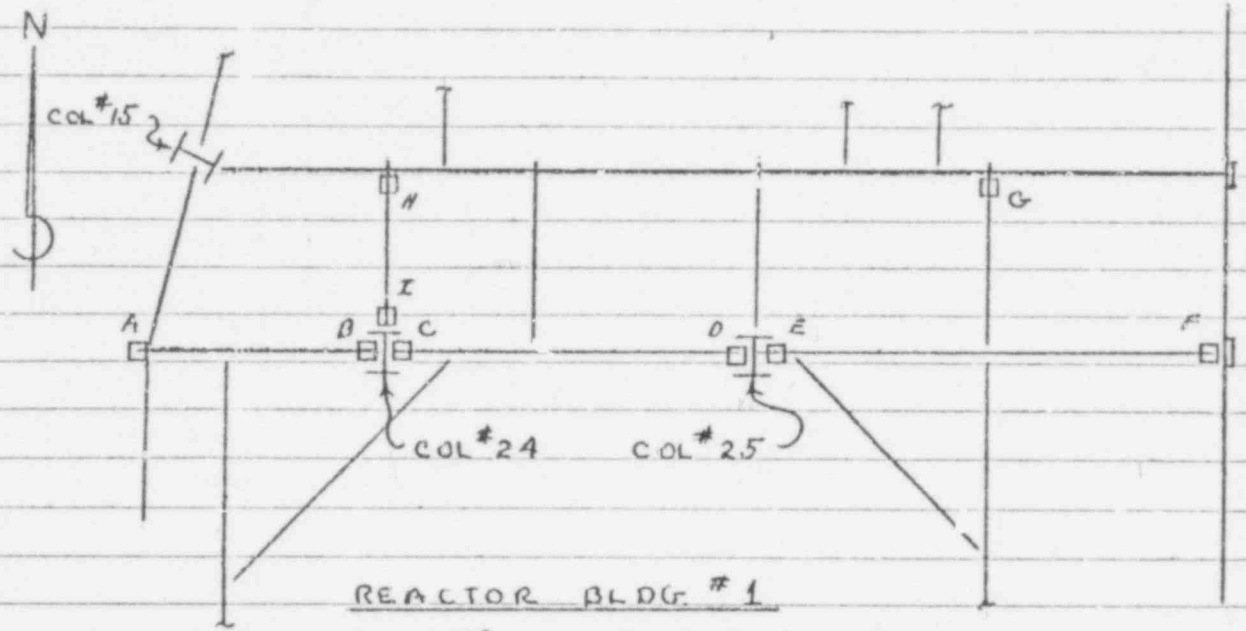
26. QC ACCEPTANCE

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

16. (cont.) THIS TOLERANCE DUE TO COL #24 & #25 BEING SET 1 3/8" LOW. AT PRESENT THE STEEL TO THE NORTH, EAST & SOUTH OF THE OPENING HAS BEEN BOLTED AND WELDED. 2) COL. #26 & #27 ARE SET AT THE SPECIFIED ELEVATION, HOWEVER, DUE TO THE TOP OF THE ANCHOR BOLTS BEING SET AT EL. 636 - 6 5/8 AND 636 - 6 3/8 RESPECTIVELY FULL THREAD ENGAGEMENT ON THE NUTS IS NOT ATTAINED.

"Q" LISTED 1/20/ , HOLD FOR ENG. DISPOSITION, & HOLD TAGS APPLIED.



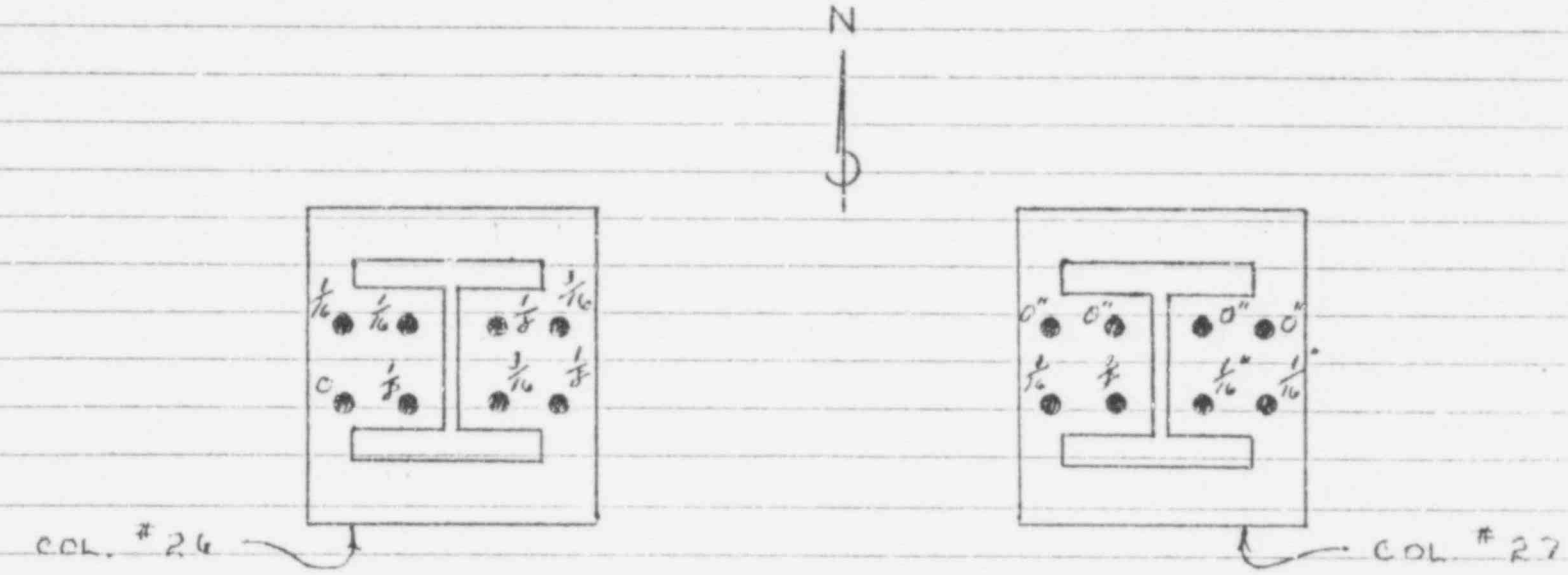
STA.	T.O.S.
A	EL. 656 - 8 7/8
B	656 - 8 5/8
C	656 - 8 1/2
D	656 - 8
E	656 - 8 1/4
F	656 - 8 3/8
G	656 - 9
H	656 - 9
I	656 - 8 5/8

REACTOR BLDG #1
EL 659-0 AS BUILT OF
TOP OF STEEL

22. (cont.)

1) MINOR DIFFERENTIAL WILL NOT AFFECT THE INTEGRITY OF THE STEEL. THE TOP OF CONCRETE WILL BE MAINTAINED AT EL. 459-0.

2) THE FIELD PROPOSES TO UTILIZE THE BOLTS AS IS AND TO USE NUTS WITHOUT WASHERS OVER THE 1 3/16 ϕ BASE PLATE HOLES. THIS WILL RESULT IN THE NUT ENGAGEMENT DEFICIENCIES SHOWN.



NUT ENGAGEMENT DEFICIENCIES WITHOUT WASHERS

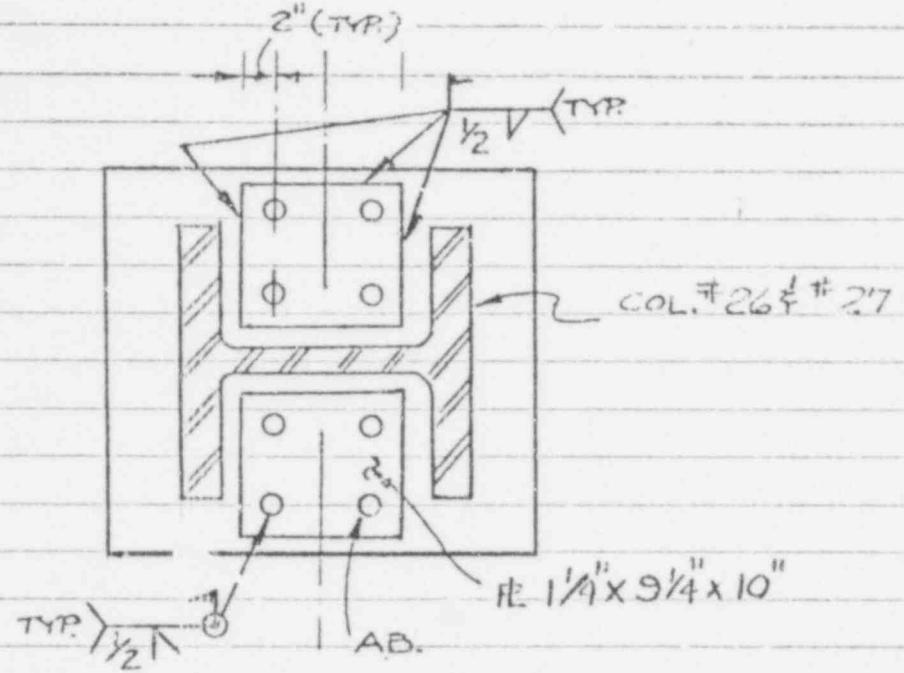
P.B

J. Bell 5/10/79

Block 23 Con't: Project engineering has found the field engineering disposition of part 2 of the non-conforming condition to be unacceptable and recommends that the base plate connection detail for columns 26 and 27 conform to the detail shown below.

5-15-79

ITEM C-2323



BLOCK 16 CONTINUED

A CONDITIONAL RELEASE HAS BEEN GRANTED TO ALLOW THE SLAB ABOVE AT EL. 659'-0" TO BE POURED. CORRECTIONS OR REMOVAL CAN BE ACCOMPLISHED WITHOUT CAUSING DAMAGE OR CONTAMINATION TO ASSOCIATED PLANT EQUIPMENT OR STRUCTURE.

PQE DATE 5/15/79

PQCE DATE 5-15-79

PQME DATE 5-15-79

NONCONFORMANCE REPORT 5/11 System Not Affected

1. PROJECT NAME		19. NO. 2175	20. PAGE 1 OF 2
MIDLAND	07220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
I & II	N/A	N/A	350 MCM 3/C B-11 Cable	Posey Rd./Combo/Installed

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
E-22	N/A	P/N. N/A REV. N/A SER NO. N/A	Vendor	Essex

11. INSPECTION CRITERIA	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG (X) SPEC ( ) OTHER IR NO. N/A NO. E-22	( ) YES (X) NO	( ) YES (X) NO	( ) Rec'g (X) Const ( ) Test	( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION: The quality of the following reels of cable are indeterminate on the basis of sampling or use; 100% of the reels of cable thus far pulled or examined have a problem with intermittent loss of paper separator between the individual conductors and, outer firewall III jacket. Also the individual conductor insulation is bonded to the conductor and, there is evidence of moisture in the cable.

(Continued on the following page)

17. REPORTED BY [signature] DATE 5-8-79

18. VALIDATED BY [signature] DATE 5-9-79

21. ROUTING: (X) TO QUALIFIED 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

269 264

Block 16 continued from previous page.....

LEVEL NUMBER			
585	2 Q Circuits (Empty)	610	FULL
586	No Q Circuits	611	No Q Circuits
587	4 Q Circuits	647	FULL
588	FULL	648	4 Q Circuits
589	8 Q Circuits	649	No Q Circuits (Empty)
590	FULL	650	9 Q Circuits
592	No Q Circuits (Empty)	770	1 Q Circuits (Empty)
593	No Q Circuits (Empty)	771	No Q Circuits (Empty)
594	FULL		
598	No Q Circuits (Empty)		
599	FULL		
609	FULL		

269 265

Q-List Number 3.603 No Hold Tags Applied Hold For Engineering Disposition

S/U No Assigned Number

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO.	20 PAGE
Midland	7220	2176	1 OF 1

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
1	E540	11	Control Panel 1C14	Aux Bldg. El. 659

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
7220 J201 Rev 6	NA	P/N NA REV NA SER NO. NA	Vendor	Magnetics

11. INSPECTION CRITERIA	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG (X) SPEC ( ) OTHER IR NO 56.0-82 NO J201 Rev 6	( ) YES (X) NO	( ) YES (X) NO	( ) Rec'g (X) Const ( ) Test	( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION: "Status Display Panel, (37 Position).
Upon Inspection (5) wire terminations have been noted loose from their soldered connection to the individual switch & (1) Wire is touching the moving member which activates the switch.

"Q" list * 5.031
(1) Hold Tag Applied. Hold for Engineering Disposition.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
A. M. Lebowitz	5/11/79	[illegible] Barclay	5-11-79

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

269 266

X

S/u 2BKA

269 267

NONCONFORMANCE REPORT

1. Project Name: 07220 MIDLAND	Job No.: 07220			19. No. 2177	20. Page 1 of 2
2. Unit(s): CONT 2	3. Drawing/Part No.: SEE BLOCK 16	Rev	4. Item Description: SEE BLOCK 16		5. Item Location: CONT 2 - DOME
6. P.O. Or Spec No.: N/A	7. Serial No.: N/A	8. Replacement Part P/N N/A REV ___ SER NO. ___	9. Source: CONST.	10. Contractor/Supplier: N/A	

11. Inspection Criteria: [X] DWG [X] SPEC [ ] OTHER IR NO. P2A-613-1-1, 2, 3 NO. M326 Rev 3 M209 Rev 7

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:

M326 REV 3 PARA 5.1.1 STATES IN PART: "TO THE GREATEST EXTENT POSSIBLE, PIPE SUPPORTS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE PIPE SUPPORT DESIGN DRWGS." See Bg 2

M209 REV 7 PARA 10.3 STATES IN PART: "MILL TEST REPORTS SHALL BE PROVIDED FOR ATTACHMENT MATERIALS THAT REQUIRE WELDING TO NUCLEAR OR CRITICAL PIPING. THE MATERIAL SHALL BE - cont Bg 2

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: 5-11-79

18. Validated By: [signature] 5-11-79 Date: 5-11-79

19. 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

26. QC Acceptance

QC ENGINEER ___ DATE ___

AUTHORIZED INSPECTOR ___ DATE ___

WHITE

NONCONFORMANCE REPORT (CONT'D) PAGE 2 OF 2 NCR NO. 2171

BLOCK 16 CONTINUED CODED OR STAMPED WITH THE HEAT NUMBER SUCH THAT THE REPORT MAY BE SPECIFICALLY IDENTIFIED WITH THE MATERIAL IT REPRESENTS."
CONTRARY TO THIS INDETERMINATE ITEMS ARE NOTED BELOW:

6"-2GCB-15-H43 - SKETCH 2-613-1-3 REV 3 SUB 4/F1 - SHOWS NO OFFSET
① HANGER IS OFFSET ② HT # OF STANCHION HAS BEEN TRANSFERRED. THE NUMBER READS HT #M0367. THIS NUMBER IS NOT TRACEABLE TO A MILL TEST REPORT.

6"-2GCB-14-H1 - SKETCH 2-613-1-4 REV 3 SUB 4/F1 - SHOWS NO OFFSET - SHOWS ONLY 1 PLATE.
① HANGER IS OFFSET. ② HAS ADDED PLATE NOT SHOWN ON SKETCH. ③ ASSEMBLY IS IDENTIFIED ON PLATE AS 613-1-5 AND ADJACENT TO FW #118 AS 2GCB-16-H3? THESE NUMBERS ARE INCORRECT.

6"-2GCB-13-H1 SK. #2-613-1-5 REV 3 SUB 4/F1 - SHOWS NO OFFSET
① HANGER IS OFFSET.

6"-2GCB-16-H39 SK# 2-613-1-6 REV 3 SUB 4/F1 - SHOWS NO OFFSET
① HANGER IS OFFSET

4"-2GCB-12-H1 SK.# 2-613-1-7 REV 1 SUB 2/F1 - SHOWS NO OFFSET
① HANGER IS OFFSET

4"-2GCB-5-H1 SK.# 2-613-1-13 REV 1 SUB 2/F1 - SHOWS NO OFFSET
① HANGER IS OFFSET ② HT # ON STANCHION IS ILLEGIBLE

HOLD FOR ENG. DISPOSITION QA IS 4-131 6 HOLD TAGS APPLIED

2698

10098-2

QC 615

White Copy -- Originator
Canary Copy -- Field Engineer
Pink Copy -- PG&E
Goldenrod Copy -- QC

Start Up Code: B & W Equipment

NONCONFORMANCE REPORT

1. [illegible] NAME		JOB NO. 7729				19. NO. 2178	20. PAGE 1 of 2
2. [illegible]	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION [illegible] Transmitters			5. ITEM LOCATION Class "A"	
6. [illegible] REQ'D 1.33	7. SERIAL NO. See par. 16	8. REPLACEMENT PART P/N N/A REV	SER NO.	9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Babcock & Wilcox		
11. [illegible] CRITERIA ( ) ASME ( ) [illegible] ( ) OTHER	IR NO. R-2-[illegible] NCR NO. M-1-15	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 (X) Client ( ) Eng ( ) F&D		

16. [illegible] DESCRIPTION/CONDITION: Quality Control Instruction N-2.[illegible] Unit No. 1, Item 2.0

[illegible] work [illegible] documentation shall be available for each item shipped.

Certification, [illegible] is not available for the following transmitters:

Continued on Page 2

17. RECEIPTED BY [illegible] for [illegible] DATE 5/4/79

18. VALIDATED BY [illegible] DATE 5-4-79

22. REFERRED for [illegible] ENGINEERING ( ) TO OTHERS (SPECIFY) ( )

23. ( ) Field Engineering Disposition ( ) Field Engineering Recommended Disposition to [illegible] Engineering

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

21. [illegible] DISCREPANCY DESCRIPTION

26. QC ACCEPTANCE

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

292 692

(3) To Continue:

[illegible]/ICF-LT3A1/LLT-1003A1
620-[illegible]/ICF-LT3A2/LLT-1003A2
[illegible]/ICF-LT3B1/LLT-1003B1
[illegible]/ICF-LT3B2/LLT-1003B2
[illegible]/ICF-LT3A1/LLT-3803A1
[illegible]/ICF-LT3A2/LLT-3803A2
[illegible]/ICF-LT3B1/LLT-3803B1
[illegible]/ICF-LT3B2/LLT-3803B2
[illegible]/ICF-LT3A3/LLT-3803A3
[illegible]/ICF-LT3B3/LLT-3803B3

269 270

(4) Upon disposition, "Q" number is to terminate. 10 hold tag(s) applied to containers.

U

Allat

NONCONFORMANCE REPORT

O-ECD

1. PROJECT NAME: Midland	JOB NO.: 7220					19. NO. 2179	20. PAGE 1 OF 1
2. UNIT(S): 1&2	3. DRAWING/PART NO.: M-618 Sht. 10	REV: 5	4. ITEM DESCRIPTION: VALVE 12" HCC-GT-RL (414-113) S/N 3N781			5. ITEM LOCATION: 210'-F.E. 4-5 & A-B Aux Bldg. Elev. 599'	
6. P.O. OR SPEC NO.: N/A	7. SERIAL NO.: 3N781	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 (X) DWG (X) SPEC ( ) OTHER IR NO: M-30-618-1112 NO: M204 Rev 10		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: Spec. M204 Rev 10 PARA. 5.2.6-C, states in PART "Minimum wall Thickness For Fabricated assemblies as finally fabricated shall be at least: 75% for nominal wall Thickness For 12" and under HCB and HCC class pipe only." Contrary to the above an AREA of Depression (1" x 7/8" x 1/16" App.) was found on valve 414-113, S/N 3N781, just below FW #6. Thus leaving the wall Thk. of the Above valve indeterminate. Q.C. Hold TAG applied to valve.

17. REPORTED BY (SEE 4.145): L.W. Mansfield DATE: 5-12-79

18. VALIDATED BY: T.W. Barclay/FSE DATE: 5/12/79

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 ENGR — DATE

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

1-7-602

X

NONCONFORMANCE REPORT

NON TESTABLE UNIT

1. Project Name: Allard	Job No.: 7220							19. No. 2180	20. Page 1 of 3
2. Unit(s): 1	3. Drawing/Part No.: E-670, Sh 2	Rev: 3	4. Item Description: Conduit/box support					5. Item Location: Aux, unit 1, lower groups	
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: [X] DWG [ ] SPEC [ ] OTHER NO. E42	IR NO. C304-1002-R	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:

Field Procedure FPD-1.000, paragraph 2.1.3 states: "All field engineers and superintendents shall be responsible for ascertaining that the work within their assignment is done in accordance with the latest revision of the drawings and project specifications." Contrary to the above, Type 12 conduit/box support has been installed in the lower irradiation compartment without adequate prior approval

2/10

17. Reported By: J. Cameron — Date: 5/11/79

18. Validated By: W. F. Barclay — Date: 5-17-79

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

PROJECT CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

25. Disposition Results

26. QC Acceptance

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

299.272

Block 16 cont.

and downward rotation. Specifically, this support has a double-cantilever. The support is floor mounted with a 3"X 3" vertical section of T.S. The vertical T.S. has a horizontal 2"X 2" T.S. cantilever. Then the T.S. 2"X2" cantilever has its own W6X8.5 cantilever, also horizontal.
Support location: lower cable spreading room, unit 1, 646', 2'-1.5" S (HK) and 4' E (5.3).

Q-List # 3.006 Hold Tag Applied Hold for Engineering Disposition

269 273

White Copy – Originator
Canary Copy – Field Engineer
Pink Copy – PGAE
Goldenrod Copy – QC

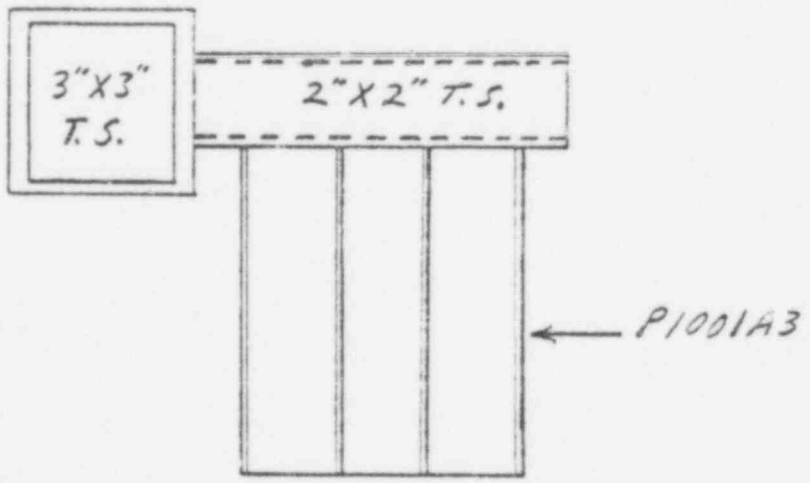
DESIGN BY _____ DATE _____ CHECKED BY _____ SHEET NO 30

PROJECT _____ JOB NO. _____

SUBJECT _____ CALCULATION NO. _____ FILE NO. _____

Basic Configuration: Type 12-6

Sketch shows only the nonconforming aspect of the support.



NONCONFORMANCE REPORT

S/G NOW restable Unit

1. PAGE	JOB NO.			19. NO. 2181	20. PAGE 1 OF 2
Midland	7220				
2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION	
1	E-27, sh 2	4	Tray Support	Aux, 656, (S) at (H/K)	

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	construction	NA

11. INSPECTION CRITERIA	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG (X) SPEC ( ) OTHER IR NO. C-304-5124 NO. C-304	( ) YES (X) NO	( ) YES (X) NO	( ) Rec'g (X) Const ( ) Test	( ) Client ( ) Eng (X) FLD

16. NONCONFORMING CONDITION: Spec C-304, rev 5, 6.3.10 states: "No welding shall be done across the flange of the beam without prior approval of project engineering." In addition, E.D.C. dated 3/30/79, from R.L. Castleberry states: "In particular, intermittent across flange welds shall not be replaced with continuous welds." Contrary to the above, a 2"x 2" T.S. tray support has been

17. REPORTED BY	DATE	IR VALIDATED BY	DATE
C.A. Cameron	5/11/79	W.T. Barclay	5-14-79

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

2275

NONCONFORMANCE REPORT (CONT'D) PAGE 2 OF 2 NCR NO. 2181

...ck of ...

...re filled with continuous welds across the flange welds.
Specification: 656' on flange at ... at (5) and (HK).

Q-List 3.05 Hold Tag Applied Hold for Engineering Disposition

269 276

QC 613

10098-2

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

1B56 - 1PHB
1B24 - 1PHB
2B-24 - 2PHB
2B-56 - 2PHF

2B23 - 2PHE
2B55 - 2PHE
1B55 - 1PHE
1B23 - 1PHA

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO. 2183	20. PAGE 1 OF 2
Midland	07220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
I & II	~~B-52 — B-533~~ E-532	13	Motor Control Centers 1B56,1B24 2B2', 2B56, 2B23, 2B55, 1B55, 1B23	Aux. Building Elv. 614'

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE Engineering ~~Construction~~	10. CONTRACTOR/SUPPLIER
7220 E7 Rev16	N/A			N/A

11. INSPECTION CRITERIA	IR NO.	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG (X) SPEC ( ) OTHER	See Block 16 NO. E-7 Rev.6	( ) YES (X) NO	( ) YES (X) NO	( ) Rec'g (X) Const ( ) Test	( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION:

Motor Control Centers- 2B24 E-6.0 22, 2B56 E-6.0 28, 2B23 E-6.0 28, 2B55 E-6.0 27, 1B55 E-6.0 41, 1B23 E-6.0 37, 1B56 E-6.0 42, 1B24 E-6.0 38. Units have been installed back to back as delinated on E-532 Revision 13, Rear and top compartments have been rendered inaccessible due to the general arrangment and cable tray which runs across the top. PQCI E-6.0 Revision 5, Activity 3.6 "Cleanliness and ~~Damge~~ Damage" cannot be completed in the rear and top compartments, nor can the periodic maintenance per Vendor Manual be complied with.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
A. M. Lebowitz	5/14/77	D. W. Barclay	5-14-77

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

292

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 19NCR NO 2183

Block 16 Continued From Previous page-.....

Q-List Number 3.104 Eight (8) Hold Tags Applied Hold # For Engineering Disposition

269 278

31

X

S/U Non Testable

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 7220				19. NO. 2184	20. PAGE 1 OF 2
2. UNIT(S): 1 & 2	3. DRAWING/PART NO.: Varies	REV: N/A	4. ITEM DESCRIPTION: Misc. pipe whip restraints		5. ITEM LOCATION: Varies	
6. P.O. OR SPEC NO.: F-3107 Q	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: N.P.S. Industries, Inc.		
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. N/A NO. C-233 (Q)	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:

Specification 7220-C-233, Appendix A, Sec. 2.3, states in part "The supplier shall establish and implement a Q.A. program that conforms to the applicable codes and standards as sited in the technical specification". During an audit at N.P.S. Industries, Inc. on 2/16/79 two nonconformance conditions were discovered.

1. The N.D.E. reports and the corresponding N.D.E. (continued on page 2)

c/w

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Steve Harvey	5-7-79	W.J. Barclay	5-14-79

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

269 278

No. 16 continued from page 1:

examiner's ~~PWRX~~ personnel ~~XRCXAXRXd~~ records were reviewed. The records revealed that there was no evidence of certification for R. Hosman between Aug. 1978 to Dec. 1[illegible], 1978. This individual performed ultrasonic examination during this time period. This was reported in Audit Finding #5 and on S.D.D.R. #CC-35 attached. Also, N.D.E. reports no. 7 through 35, and 40 through 45 performed by G. Rowe (and Am. Testing Co.) indicate acceptance criteria as ASTM A-578. The proper acceptance criteria is Specification 7220-C-233 (Q), Sec. 8.4. This was reported in Audit Finding #9 and on N.P.S.I. letter CC-1648 attached.

2. Inspection processes were not documented per N.P.S.'s Q.A.M. requirements. The following inspections/~~WX~~ fabrication operations were not documented on the process control sheets: material cutting and transfer of identification, dimensional inspections, cleaning, painting and final inspection. This was reported on Audit Finding #6 and S.D.D.R. #CC-36, attached.

- No Hold Tags Applied -

1D-20 - 1PKB
2D-20 - 2PKB

NONCONFORMANCE REPORT

1. Project Name: Midland	Job No.: 7220			19. No. 2185	20. Page 1 of 2
2. Unit(s): 1 & 2	3. Drawing/Part No.: E 532	Rev: 13	4. Item Description: 1D20 2D20 CDP Panelboards		5. Item Location: Aux. Bldg ele 614
6. P.O. Or Spec No.: 7220 E13 Rev 6	7. Serial No.: NA	8. Replacement Part P/N na REV na SER NO. na	9. Source: Const	10. Contractor/Supplier: Westinghouse	
11. Inspection Criteria: ☐ DWG ☒ SPEC ☐ OTHER IR NO. E60-147 E60-148 NO. E13 Rev 6		ASME AUTHORIZED INSPECTION REQ'D ☐ YES ☒ NO	13. SKETCH ATTACHED ☒ YES ☐ NO	14. Discovered During ☐ RECG ☒ CONST ☐ TEST	15. Equip Furnished By ☐ CLIENT ☒ ENG ☐ FLD

16. Nonconforming Condition:

CDP Panelboards 1D20, 2D20. Vender Drawings reflect (6) Predrilled 7/16 holes for 3/8" anchors as shown on sketch Page 2 of 2. An additional 4 holes have been drilled to avoid rebar which replaces and relocates the support anchors, & holes. "C" List 3.203

(2) Hold Tags applied Hold for Engineering Disposition.

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 5/14/79

18. Validated By [signature] Date 5-14-79

21. Routing ☒ TO FIELD ENGINEERING ☐ TO OTHERS (SPECIFY)

25. Disposition Results

269 281

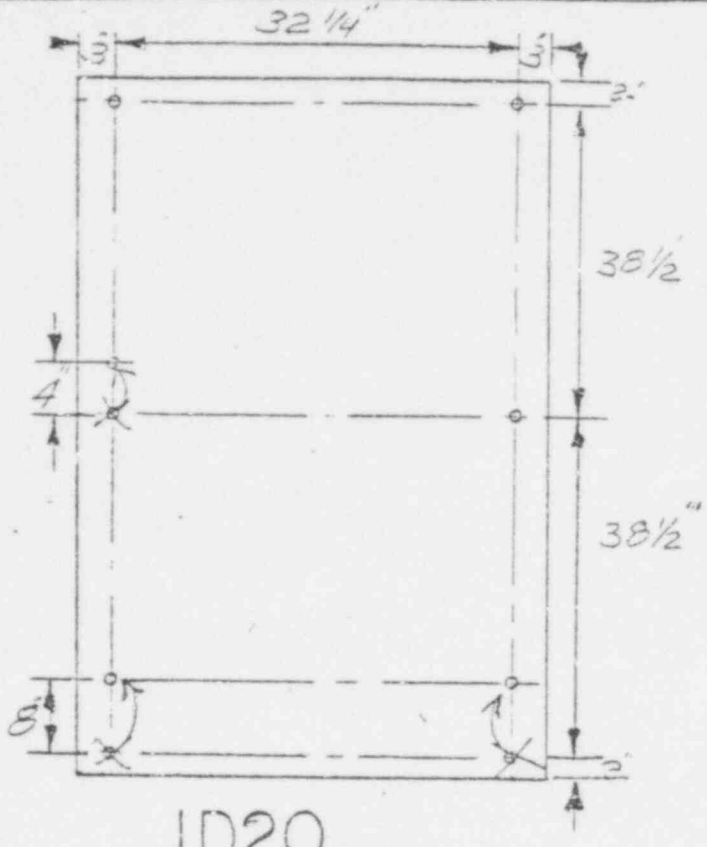
22. ☐ Field Engineering Disposition ☐ FIELD ENGINEERING RECOMMENDED DISPOSITION TO PROJECT ENGINEERING

23. Project Engineering Disposition

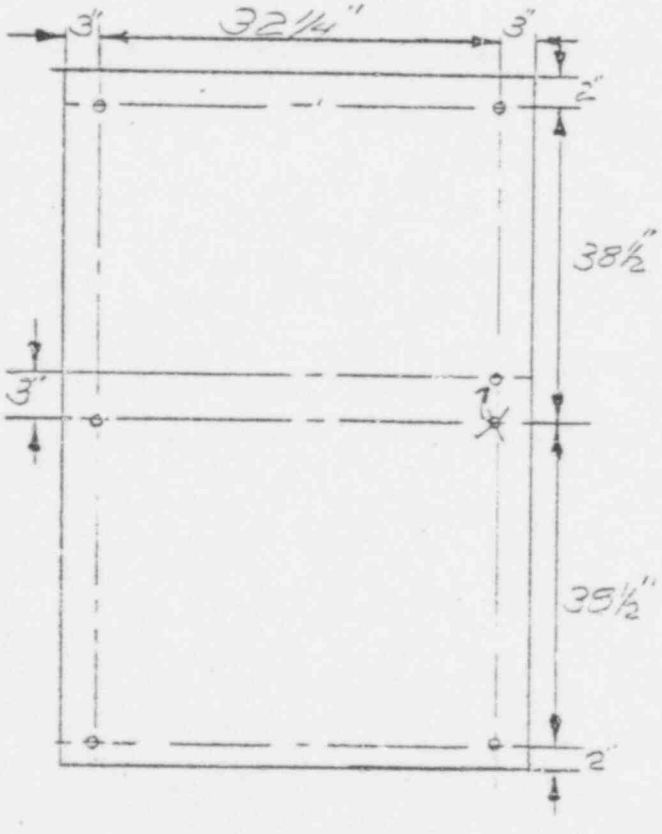
26. QC Acceptance

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE



1D20



2D20

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BECHTEL

NONCONFORMANCE REPORT

1-ABA

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
MIDLAND	07220	2187	1 OF 1

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
1	M 631 SH. 1	3/4	FLUED HEAD 12-39	UNIT 1 ELEV. 707'

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
N/A	N/A	P/N N/A REV N/A SER NO. N/A	CONST.	N/A

11. INSPECTION CRITERIA	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip. Furnished By
( ) DWG (X) SPEC ( ) OTHER IR NO P1.30-631-1-1 NO M 204	(X) YES ( ) NO	( ) YES (X) NO	( ) Rec'g (X) Const ( ) Test	( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION: SPECIFICATION M-204 REV. 10, PARAGRAPH 5.2.1 STATES IN PART "CARE SHALL BE TAKEN IN HANDLING AND INSTALLATION OF PIPING TO PREVENT SURFACE DAMAGE." CONTRARY TO THIS, FLUED HEAD 12-39 HAS A LARGE ARC BURN (APPROX. 3/4" WIDE x 15" LONG) AT 6:00 ON THE INSIDE NEAR FW 1 (M631-2).

1 HOLD TAG APPLIED Q No. 4.313

17. REPORTED BY Keith J. Roberge DATE 5-15-79

18. VALIDATED BY K.B. 5-15-79 C.W. Barclay DATE 5-15-79

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

P

269 283

X

S/U Indeterminate

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 7220				19. NO. 2188	20. PAGE 1 OF 2
2. UNIT(S): Indeter-minate	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: Supplier Part No. 6-6-CW (139 Pcs.) 3/8" Stainless Steel 90° Male Elbows		5. ITEM LOCATION: Q.C. Hold, Whse. # 1	
6. P.O. CONTRACT: 7220-F-27952 Rev. 4	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV SER NO.	9. SOURCE: Supplier	10. MANUFACTURER/SUPPLIER: Parker Hannifin Corporation		
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. R-1.00-9374 NO. J-710 Rev. 2	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) FLD		

16. NONCONFORMING CONDITION:

Purchase Order 7220-F-27952 requires documentation in accordance with Specification 7220-J-710 Rev. 2 and attached G-321-D-AA Rev. 2. Instructions for completing G-321-D-AA are incorporated in J-710. The supplier is required to correctly complete entry numbers 8 and 12 thru 21 of the G-321-D. The supplier is to enter the number of pages of each type of quality verification documentation being submitted in entry number 8.

Continued on Page 2

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
R. G. Matthews	5-15-79	W. A. Barclay	5-15-79

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

299 284

Block 16 Continued

The supplier is to enter the identification number traceable to the material in entry number 20 (Traceable code number for the above fittings is 825B). Contrary to the above, the supplier failed to make identification of the quality verification documentation in entry 8, and put NA in entry number 20.

Hold for engineering disposition. "Q" number is indeterminate, 1 hold tag applied.

269 783

Q-

Alat

Start Up Code: Untestable

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland			JOB NO.: 7220			19. NO. 2189	20. PAGE 1 OF 1
2. UNIT(S): Indeter-minate	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: 50 Hex Head Bolts, Washers, Nuts			5. ITEM LOCATION: Warehouse # 1	
6. P.O. OR SPEC NO.: 7220-F-35238	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: Talley Fasteners		
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (x) OTHER IR NO. R-1.00-9506 NO. F-35238		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) FLD		

16. NONCONFORMING CONDITION: Purchase Order F-35238 requires the nuts and bolts shall be SAE Grade 5 or ASTM 449. Contrary to this the Certificate of Compliance states conformance to J429 SAE Grade 5. Hold for engineering disposition. "Q" number is indeterminate. 1 hold tag applied to nonconforming item(s).

17. REPORTED BY: [signature] DATE: 5/15/79

18. VALIDATED BY: W. L. Barclay/gzk DATE: 5/16/79

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

269 286

Start Up Code: Indeterminate

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 2190	20. PAGE 1 OF 1
2. UNIT(S): Indeter-minate	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: 4000 Pcs. ¼" A325 Washers; 2000 Pcs. ¼" x 1 ½" A307 Cap Screws	5. ITEM LOCATION: Q.C. Hold, Whse. # 1	
6. P.O. 7220-F-34998 Rev. 0	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV ____ SER NO. ____	9. SOURCE: Supplier	10. CONTRACTOR/SUPPLIER: Talley Fasteners	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER	IR NO. R-1,00-9541 NO. F-34998 Rev. 0	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) FLG

16. NONCONFORMING CONDITION:

(1) Purchase Order 7220-F-34998 Rev. 0 requires [illegible]ntation for the above listed material to be in accordance with Specification 7220-[illegible]; Rev. 4. G-33 requires a Statement of Conformance and Certificate of Compliance. Contrary to the above, documentation has not yet been received. Hold for engineering disposition. "Q" number is indeterminate. 2 hold tag(s) applied.

17. REPORTED BY: Rick Montrowl DATE: 5-16-79

18. VALIDATED BY: W. S. Barclay JR DATE: 5/16/79

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

269 287

BECHTEL

NONCONFORMANCE REPORT

S/U 1SDA, 1SAB, 1SAA, 2SDA, 2SAB & 2SAA

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 2191	20. PAGE 1 OF 2
2. UNIT(S): Units 1&2	3. DRAWING/PART NO.: N/A	REV	4. ITEM DESCRIPTION: Safety Related Equipment Rooms 1/2C-41, 42, 43, 44 & 45		5. ITEM LOCATION: El 659'0" Area 3, North of H Line
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 (X) OTHER IR NO N/A NO F-10-204 Rev 0		12. AS-AF 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:

F-10-204 Maintainance Requirements for the Safety Related Equipment Rooms, Item 1.1 states: "Equipment is to be covered except during cable pulling and wire termination." Contrary to the above, the panels in the Safety Related Equipment Rooms had been uncovered while heavy construction activities were being performed in that area, allowing deposits of dirt, dust and other construction debris on the inside of the panels, making the integrity of the panels indeterminate.

Con't Pg. 2

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
M. Duncan	5-16-79	W. J. Barclay for	5/16/79

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

299 288

NONCONFORMANCE REPORT (CONT'D) [20]PAGE 2 OF 2 [19]NCR NO 2191

Block 16 continued

NOTE: The equipment has since been covered but was not cleaned prior to covering.

"Q" number is 5.202. 10 hold tags applied to the nonconforming items.

269 269

NONCONFORMING REPORT

1. PROJECT HAN[illegible]	JOB NO. [illegible]			NR NO. 2192	20. PAGE 1 OF 2
2. UNIT(S) 1	3. DRAWING/PART NO. M-610-6	REV 7-2	4. ITEM DESCRIPTION Socklet on IFCB-22-S-610-6-2	5. ITEM LOCATION 7'-N & 10'-W Rx Bldg Elev 584	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. HC X90153	8. REPLACEMENT PART P/N ____ REV ____ SER NO. ____	9. SOURCE CONSTRUCTION	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA ⋈ DWG ( ) SPEC ( ) OTHER IR NO. P-110-6 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	

16. NONCONFORMING CONDITION: A hairline crack has been revealed by Dye Penetrant check of the stainless steel Socklet for instrument ITE-10293 on Pipe Spool IFCB-22-S610-6-2 rendering the socklet nonconforming. The subject socklet was previously Field drilled to accomadate a tapered B&W thermowell which was subsequently seal welded to the socklet. One Hold Tag applied to the spool. Q list # 4.104 (See page 2 of 2)

17. REPORTED BY E. Urbanowicz DATE 5-15-79

18. VALIDATED BY W. L. Barclay DATE 5/16/79

21. 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

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

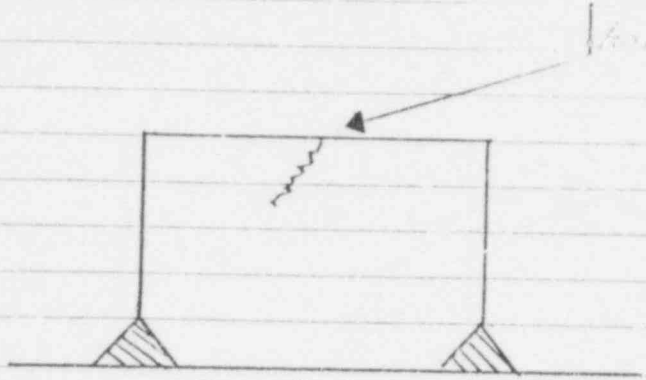
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

269 290

Flow Size 1/4" long / 1/4" wide.

269 291



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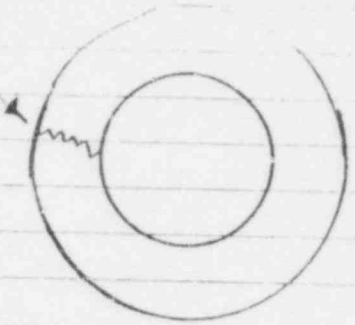

Top View

Alab

BECHTEL

NONCONFORMANCE REPORT

S/U Non Testable Unit

1. Project Name	Job No.			19. No. 2193	20. Page 1 of 2
Midland	7220				
2. Unit(s) 2	3. Drawing/Part No. E632	Rev 6	4. Item Description Conduit Support	5. Item Location Aux, 685'	
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 ☒ SPEC ☐ OTHER IR NO C304-822W NO. C304	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:

Spec C-304, rev 5, 6.2.1 paragraph(e) states in part: "Fillet weld lengths longer than those specified are acceptable." However, 6.3.10 states: "No welding shall be done across the flange of the beam without prior approval of project engineering." The requirement of 6.3.10 supercedes 6.2.1 paragraph(e). i.e. only welds specified by project engineering may be applied across the flange of

W/E

17. Reported By C A Cameron Date 5/17/79

18. Validated By W B Barclay Date 5-18-79

21. 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

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. Disposition Results

26. QC Acceptance

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

7907270

NONCONFORMANCE REPORT (CONT'D) PAGE 2 OF 2 14. NCR NO. 2193

Block 16 cont.

a beam. Contrary to the above, a support has been installed on which the specified across-the-flange weld detail of 5/16 fillet, 2" long was altered by the field. The welds were lengthened to 6½", 8½", 8½", and 10". The support is exception # 1005 in E-42. Support location: 685', 2' W (7.2) and 8' N (K_c).

Q-List # 3.006 1 Hold Tag Applied Hold for Engineering Disposition

269 293

10098-2

QC G1-3

White Copy – Originator
Canary Copy – Field Engineer
Pink Copy – FQAE
Goldenrod Copy – QC

Wab

NONCONFORMANCE REPORT

S/U Non Testable Unit

1. Project Name: Midland	Job No.: 7220			19. No. 2194	20. Page 1 of 2
2. Unit(s): 2	3. Drawing/Part No.: E629	Rev: 7	4. Item Description: Box Support	5. Item Location: Aux, 690', (G) at (74)	
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 ☐ SPEC ☐ OTHER IR NO. 5304-980W NO. E-42	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	

W/E

16. Nonconforming Condition:

Field Procedure FPD4.000 paragraph 2.1.3 states: "All field engineers and superintendents shall be responsible for ascertaining that the work within their assignment is done in accordance with the latest revision of the drawings and project specifications." Contrary to the above, a box support has been installed for which no project approved drawing can be located. The support

17. Reported By: C A Cameron Date: 5/17/79

18. Validated By: W W Barclay Date: 5-18-79

21. 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

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. Disposition Results

26. QC Acceptance

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

269 294

NONCONFORMANCE REPORT (CONT'D) 1. PAGE 2 OF 2 14. NCR NO. 2194

269 295

Block 16 cont.

configuration is 2 lengths of PL6x1 welded between the flanges of a column. Support location: 690', North side of column at intersection of (G) and (7.4).

Q-List # 3.006 1 Hold Tag Applied Hold for Engineering Disposition

White Copy – Originator
Canary Copy – Field Engineer
Pink Copy – PQAE
Goldenrod Copy – JC

QC-513

X

BECHTEL

NONCONFORMANCE REPORT

S/U Non Testable Unit

269 296

1. Project Name: Midland	Job No.: 7220			19. No. 2195	20. Page 1 of 2
2. Unit(s): 1	3. Drawing/Part No.: E624, sh 2	Rev: 4	4. Item Description: Box Support	5. Item Location: Aux, 653', (S-1) and (H-1)	
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 ☐ SPEC ☐ OTHER IR NO. C304-819W NO. E-42		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

W/E

16. Nonconforming Condition:

Field Procedure FPD 1.000 paragraph 2.1.3 states: "All field engineers and superintendents shall be responsible for ascertaining that the work within their assignment is done in accordance with the latest revision of the drawings and project specifications." Contrary to the above, a box support has been installed for which there is no accepted drawing or specification. Support is

17. Reported By: C A Cameron Date: 5/18/79

18. Validated By: M O Barclay Date: 5-18-79

21. 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

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. Disposition Results

26. QC Acceptance

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

NONCONFORMANCE REPORT (CONT'D) 1 PAGE 2 OF 2 14. NCR NO. 2195

Block 16 cont.

basically a type 9D. E42 specifies this support to be floor mounted. Field has installed the support on a wall with minor changes in the configuration details. Support location: 653', at (5-3) and (HA).

Q-List # 3.006 1 Hold Tag Applied Held for Engineering Disposition

269 297

10098-2

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

QC-G1-3

0

Aloo

NONCONFORMANCE REPORT

S/U Undetermined

2797.98

1. Project Name: Midland	Job No.: 7220					19. No. 2196	20. Page 1 of 1
2. Unit(s): N/A	3. Drawing/Part No.: 154ECB1-001	Rev: N/A	4. Item Description: ½" ECB-GT-DV			5. Item Location: Fitters Grob	
6. P.O. Or Spec No.: 1220-M-129-BC	7. Serial No.: 32459, 32451	8. Replacement Part P/N N/A REV N/A SER NO. N/A	9. Source: Vendor	10. Contractor/Supplier: Nuclear Valve Division / Borg Warner			
11. Inspection Criteria: ☒DWG ☐SPEC ☐OTHER IR NO. NO.		12. ASME AUTHORIZED INSPECTION REQ'D: ☒YES ☐NO	SKETCH ATTACHED: ☐YES ☒NO	14. Discovered During: ☐REC'G ☒CONST ☐TEST		15. Equip Furnished By: ☒CLIENT ☐ENG ☐FLD	

16. Nonconforming Condition

Drawing Stipulates a ¼" fillet weld at the reducing inserts to valve body. Contrary to this there are areas which measure from 3/16" to ⅛" fillet size.

Q. No. Undetermined — 2 Hold Tags Applied

17. Reported By: David Fasolino — Date: 5/10/79

18. Validated By: [illegible] — Date: 5-17-79

21. 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

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJECT CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

25. Disposition Results

26. QC Acceptance

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

O

S/U 2-BKA

BECHTEL

NONCONFORMANCE REPORT

1. Project Name: MIDLAND	Job No.: 7220			19. No. 2197	20. Page 1 of 1
2. Unit(s): 2	3. Drawing/Part No.: 2-613-3-28 Sub3	Rev: 2	4. Item Description: HANGER #2 2GCB-17	5. Item Location: 7'-7" W 77-9 1'-9" S/E AUX BLDG. EL 568'-0"	
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 NO. 2-613-3-28 IR NO. C-150-56

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:

HANGER SKETCH 2-613-3-28 CALLS FOR (4) 3/8" ANCHORS. SPEC C-305 REV. 8 PAR. 5.0 STATES IN PART, ALL INSTALLED EXPANSION ANCHORS SHALL BE VISUALLY INSPECTED FOR CORRECT INSTALLATION. CONTRARY TO ABOVE (4) 5/8" EXPANSION ANCHORS HAVE BEEN INSTALLED. THIS DISCREPANCY HAS BEEN NOTED BY CONSUMERS POWER Co. "Q" No. 4.131 1 - HOLD TAG APPLIED TO HANGER.

17. Reported By: Joe Arnold Date: 5-18-79

18. Validated By: 7.B.18.11 Date: 5-18-79

21. 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

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. Disposition Results

26. QC Acceptance

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

6692

X

1GJA

NONCONFORMANCE REPORT

1. PROJECT NAME: MIDLAND			JOB NO.: 7220		19. NO. 2198	20. PAGE 1 OF 2
2. UNIT(S): 1 & 2	3. DRAWING/PART NO.: M-657 SH 38	REV: 3/F1	4. ITEM DESCRIPTION: 78 AB 5-18-79 SPOOL OHBC ~~80~~ S-657-38-1		5. ITEM LOCATION: AUX. BLDG. EL. 659 7" E/7.8 11'4" S/G	
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 1.10-657-38-4 NO. M-204		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: SPECIFICATION M-204 REV. 10 SECTION 5.2.6 STATES IN PART "MINIMUM WALL THICKNESS FOR FABRICATED ASSEMBLIES AS FINALLY FABRICATED SHALL BE AT LEAST a. 87½% OF THE NOMINAL WALL THICKNESS FOR PIPE SPECIFICIED BY NOMINAL WALL." SPECIFICATION M-481 REV 15 SHEET 22 DESIGNATES 2½" THRU 10" CLASS 1160 PIPE AS SCH 40. A 78 ~~80~~ 5-18-79 MINIMUM WALL THICKNESS VIOLATION EXISTS ON SPOOL OHBC ~~80~~ S-657-38-1. THE VIOLATION IS 4" ABOVE FIELD WELD 10

17. REPORTED BY: Michael K Alland DATE: May 16, 1979

18. VALIDATED BY: AB 5-18-79 DATE: 5-16-79

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

269 300

BLOCK 16 CONTINUED.

AT THE 270° POSITION ON THE PIPE. THE SIZE OF THE VIOLATION IS 3/8" X 3/16" X 0.050" DEEP. THE DEPTH WAS MEASURED BY PIT GAGE BPC-M209. THE GAGE WAS CALIBRATED 3-15-79 AND IS DUE FOR CALIBRATION 9-15-79. NOMINAL WALL THICKNESS FOR 3" HBC SCH. 40 PIPE IS 0.216"; 87½% OF 0.216" IS 0.189" AND 0.216" MINUS 0.050" IS 0.166".

Q LIST NUMBER 4.572

ONE QC HOLD TAG APPLIED

269 301

NONCONFORMANCE REPORT

5/4 595" O-PHI

1. PROJECT NAME: Midland	JOB NO.: 07220				19. NO. 2199	20. PAGE 1 OF 1
2. UNIT(S): I	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: Three Conductor 350 MCM (Cable Code B-11)		5. ITEM LOCATION: Partially Installed	
6. P.O. OR SPEC NO.: E-22	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: Essex		
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER — IR NO. 1AB2312A NO. E-22,6.5.3 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: There is a Vendor manufactoring flaw in the outer firewall III Jacket, an area of 1.5 square inch, over an area of 5 square inches. The nature of the flaw is pot marks 1/3 of the way through the outer jacket.
Cable scheme number affected is 1AB2312A.

E

Q-List Number 3.003/ Two (2) Hold Tags Applied Hold For Engineering Disposition

17. REPORTED BY: James A. Henderson DATE: 5/21/79

18. VALIDATED BY: D.C. McBurney DATE: 5-21-79

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

269 302

X

BECHTEL

NONCONFORMANCE REPORT

S/U Non testable Unit

1. PROJECT NAME	JOB NO.			19. NO. 2200	20. PAGE 1 OF 2
Midland	07220				
2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION	
II	E-650 Sheet 1	14	Anchor Installation	N/B #2, See Block 16	
6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER	
N/A	N/A	P/N N/A REV N/A SER NO. N/A	Construction	N/A	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. C-1.50 EH 118 NO. C-305, Rev. 8	12. ASME AUTHORIZED INSPECTION REQ'T ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( )Rec'g XXConst ( )Test	15. Equip Furnished By ( )Client ( )Eng (X)FLD	

16. NONCONFORMING CONDITION:

Specification C-305, Revision 8, SCN 9002, States; "Each stud anchor shall be marked/coded to provide a positive method to identify the length of the anchor after it has been installed." Contrary to the above, two anchors, 3/8" in diameter, 2 3/4" long were installed which had no marking or coding. The anchors were installed at 315°, Elevation 605' - 6", on the West Secondary Shield Wall. These anchors were installed per FCR E-1667.

(Continued Next Page)

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Ralph Jones	5/16/79	R. C. Barclay	5-21-79

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

8207300207

Block 16 Continued from previous page.....

QUALITY OBSERVATION:

The installation of both anchors was witnessed and all requirements of C-305, Revision 8, Section 4.0, Installation, were met. Specifically the minimum embedment of 1 5/8" was achieved and both anchors were expanded satisfactorily with 30 FT-LBS of torque.

Q-List Number 1.102/ (2)Two Hold Tags Applied/ Hold For Engineering Disposition

269 304

X

Start Up Code: 1 BNA
2 BNA

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 2201	20. PAGE 1 OF 2
2. UNIT(S): 1 & 2	3. DRAWING/PART NO.: 7220-M-125C-90-3 & 91-3	REV: N/A	4. ITEM DESCRIPTION: Nuclear Service Valves		5. ITEM LOCATION: Warehouse # 2
6. P.O. [illegible] M-125C, Rev.16 Item 57.1	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N ___ REV ___ SER NO. N/A	9. SOURCE: Vendor	10. CONTRACTOR/SUPPLIER: Anchor Darling	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER — IR NO. R-1,00-9432 NO. M-125C Rev.6		12. ASME AUTHORIZED INSPECTION REQ'D (X) YES ( ) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During (X)Rec'g ( )Const ( )Test	15. Equip Furnished By ( )Client (X)Eng ( )FLD

16. NONCONFORMING CONDITION: Specification 7220-M-125C Rev. 6 requires Quality Verification Documentation as summarized on Form G-321-D. Contrary to the above, the following discrepancies for the Quality Verification Documentation Package have been found. (1.) Valve S/N 2N1486 & 2N1488 Item 20.0 (Radiographic Examination) states 19 pages furnished when in fact 32 pages were received. Item 25.0 (Inspection Procedure) states 22 pages furnished when in fact only 8 pages were received.

Cont. on Page 2

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
[signature]	5/18/79	[signature]	5-21-79

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

269 305

Block 16 Continued

(2.) Valve S/N 2N1490 Item 12.0 (Welding Procedure) states 4 pages furnished, when in fact 5 pages were received. Item 25.0 (Inspection Procedure) states 8 pages furnished when in fact only 7 pgs. were furnished.

"Q" number is 4.0310. Hold pending final disposition. 3 hold tag(s) applied to the nonconforming item(s).

269 306

0

Start Up Code: XXXXXXXXX
Indeterminate

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
Midland	7220	2202	1 OF 1

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
Indeter-minate	N/A	N/A	Instrument & Special Purpose Cable (I-18)	Poseyville

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
7220-E-60	N/A	P/N ____ REV N/A SER NO. ____	Supplier	Rockbestos

11. INSPECTION CRITERIA	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG (X) SPEC ( ) OTHER IR NO. R-1.00-9694 NO. E-60 Rev. 3	( ) YES (X) NO	( ) YES (X) NO	(X) Rec'g ( ) Const ( ) Test	( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION:

Technical Specification E-60 requires Quality Verification Documentation. Contrary to this, Cable Code I-18, Reel # 4943 was received without Q.V.D. Package. Hold for engineering disposition. "Q" number is indeterminate.

1 hold tag applied to nonconforming item.

17. REPORTED BY [signature] DATE 5/21/79

18. VALIDATED BY [signature] DATE 5-21-79

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

269 307

0

269 30 cs S/u 1-ALA

BECHTEL

NONCONFORMANCE REPORT

1. Project Name: MIDLAND	Job No.: 7220				19. No. 2203	20. Page 1 of 1
2. Unit(s): UNIT # 1	3. Drawing/Part No.: N/A	Rev: N/A	4. Item Description: PIPE HANGER 6"-1DBC-5-H8		5. Item Location: 0'-10" E/S.G 3'-0" S/G EL 588'-0" AUX. BLDG.	
6. P.O. Or Spec No.: N/A	7. Serial No.: N/A	8. Replacement Part P/N N/A SER NO. N/A	9. Source: CONSTRUCTION	10. Contractor/Supplier: N/A		
11. Inspection Criteria: ☒ DWG ☐ SPEC ☐ OTHER IR NO. P-2.10-633-6-4 NO. 1-633-6-13	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:

DURING AN INSPECTION OF HANGER 6"-1DBC-5-H8 DAMAGE WAS DISCOVERED. ITEM #1 (2 EACH) ON HANGER SKETCH 1-633-6-13 REV. 1, SHT 2 HAS BEEN FORCED OUT OF PERPENDICULAR TO ITEM #4 (2 EACH) BASE PLATE, LEAVING THE CONDITION OF THIS HANGER INDETERMINATE.

Q-LIST # 4.3B1 1-HOLD TAG APPLIED

17. Reported By: Tom Cunliffe Date: 5-20-79 Validated By: [illegible] Barclay Date: 5-21-79

21. 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

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. Disposition Results

26. QC Acceptance

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

0

S/U 2-GJA

269 307

NONCONFORMANCE REPORT

1. Project Name: MIDLAND	Job No.: 7220			19. No. 2201	20. Page 1 of 1
2. Unit(s): UNIT 2	3. Drawing/Part No.: N/A	Rev: N/A	4. Item Description: PIPE HANGER 2½ - 2HBC-178-H9	5. Item Location: 4'-1" W/14 6'-6" - N/A EL 646'-8" 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. C-1.50-657-42-1 NO. 2-657-42-9	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:

DURING EXPANSION ANCHOR TORQUE TESTING ON HANGER 2½" - 2HBC-178-H9 (SKETCH 2-657-42-9 REV. 2, SUB 3/FL) ONE 5/8" EXPANSION ANCHOR BROKE OFF, N.E. CORNER.

Q-LIST # 4,571 1 - HOLD TAG APPLIED

17. Reported By: Tom Arnold Date: 5-20-79

18. Validated By: J.F. Barclay Date: 5-21-79

21. 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

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. Disposition Results

26. QC Acceptance

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

NONCONFORMANCE REPORT

S/O NON-TESTABLE UNIT

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 2205	20. PAGE 1 OF 1
2. UNIT(S): Unit #2	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: Post Tension Wire Bends		5. IT LOCATION: Cont. #2
6. P.O. OR SPEC NO.: C2-146 Rev. 5	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N n/a REV n/a SER NO. n/a	9. SOURCE: Subcontract	10. CONTRACTOR/SUPPLIER: INRYCO Const, Products Co,	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. NO. C2-146 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: INRYCO's Field Installation Manual 7220-C2-146 Rev. 5 states in section 3.3.A that wires shall be checked for rust and bent wires. No specific acceptance/rejection criteria is given in this manual for this inspection of bends; Tendon number H13-252 was inserted with an "S" shaped bend of approximately 60° a bend and tendon number H13-240 was inserted with a bend of approximately 60° Q-List no. 1.10 Hold for Eng. Disposition. No hold tags 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

25. DISPOSITION RESULTS

17. REPORTED BY [signature] DATE 5/18/79

18. VALIDATED BY [signature] DATE 5-18-79

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

269 310

Start Up Code: Indeterminate

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
Midland	7220	2206	1 OF 2

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
Indeter-minate	N/A	N/A	See Block 16	Q.C. Hold, Poseyville

6. P.O. ~~CONTRACT~~ NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. ~~CONSTRUCTION~~ SUPPLIER
7220-F-3103 Rev. 12 Rel. 49 Rev. 0	N/A	P/N N/A REV ____ SER NO. ____	Supplier	Wiltse and Company

11. INSPECTION CRITERIA	IR NO.	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG ( ) SPEC (X) OTHER	R-1.00-9544 NO See Blk. 16	( ) YES (X) NO	( ) YES (X) NO	(X) Rec'g ( ) Const ( ) Test	( ) Client ( ) Eng (X) FLD

16. NONCONFORMING CONDITION:

Packing slip and Quality Verification Documentation received from Wiltse on their delivery receipt number 002629 indicates 78 pieces of miscellaneous fabricated metal was released by the shop inspector for shipment to jobsite. 69 pieces were found during receipt inspection with the following discrepancies between the packing slip and the material delivered:

Continued on Page 2

17. REPORTED BY: Rick G Warhem DATE: 5-21-79

18. VALIDATED BY: W Barclay DATE: 5-21-79

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

299 311

Block 16 Continued

1.) 21 pieces are not available for inspection, but are received on Material Receiving Report number AEO-9544;
2.) 5 pieces (mark numbers 23B1, 23B2, 5BR1, 21B4 and 22B2) are received but not listed on the MRR or released by the shop inspector.
3.) 7 pieces are received with no material identification.

Hold for engineering disposition. "Q" number is indeterminate. 69 hold tag(s) applied to the nonconforming material.

269 312

Start Up Code: Indeterminate

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO. 7220					19. NO. 2207	20. PAGE 1 OF 1
2. UNIT(S): Indeter-minate	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: 832 Ea. Socket Weld Adapters, Part# 6-3/4 AW2- SS			5. ITEM LOCATION: Warehouse # 1	
6. P.O. 7220-F-27952 Rev. 1	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N: REV: SER NO. N/A		9. SOURCE: Supplier	10. SUPPLIER: Forberg Scientific/Parker Hannifin		
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER	IR NO. R-1, 90-8233 NO. N/A	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) FLD	

16. NONCONFORMING CONDITION

Bechtel Purchase Order F-27952 Rev. 1 requires 3/4" Pipe Weld Adapters to be stamped "B-32." Contrary to the above, the 832 each Weld Adapters received on AEO's 8233 and 8136, as well as, the required documentation were mismarked "B-33" by the supplier. "Q" number is indeterminate until installation. Hold pending final disposition. 1 hold tag(s) applied to the nonconforming item(s).

17. REPORTED BY: Michael J. Moore DATE: 5-22-79

18. VALIDATED BY: (CH) Bob Barclay DATE: 5-22-79

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

Parker
FluidConnectors

May 14, 1979

Parker Hannifin Corporation
Instrumentation Connectors Division
9400 Memorial Parkway South
Huntsville, AL 35802 USA
Phone (205) 881-2040

Bechtel Power Co.
3500 E. Midland Rd.
Midland, MI 48604

Attention: Mr. J.F. Newgent

Subject: Part No. 6-3/4 AW2-SS

Gentlemen:

In regards to the conversation between Mr. Greg Paeth and Mr. Jerry Isaacs, Parker Hannifin offers the following information on the subject material.

The 6-3/4 AW2-SS Weld Adaptors Fittings miss-marked B-33 in leiu of the specified B-32 shipped to Bechtel on P.O. No. 7 220-F-27952Q Rev.1 on 12-9-78 (400 ea.) and 12-8-78 (432 ea.) contained the correct documentation except for the marking note. All other markings and documentation as noted on the Parker documentation package complied totally with all requirements of the Bechtel Purchase Order.

It is trusted that this information will allow acceptance of this material. Further shipments will be closely reviewed to ensure that the correct Bechtel identification markings are applied.

Truly Yours,

PARKER HANNIFIN CORPORATION

E.A. Delorme

E.A. Delorme
Quality Assurance Manager

ED/erh

cc: Mr. Jerry Isaacs (Bechtel)
Mr. Greg Paeth (Forberg)

269 314

Start Up Code: Indeterminate

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.			19. NO. 2208	20. PAGE 1 OF 2
Midland	7220				
2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION	
Indeter-minate	N/A	N/A	See Block 16	Q.C. Mold, Poseyville	
6. P.O. ~~XXXXXXXX~~	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. ~~XXXXXXXXXX~~ SUPPLIER	
7220-F-3103 Rev.12 Rel. 58 Rev. 1	N/A	P/N N/A REV SER NO.	Supplier	Wiltse & Company	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER IR NO. R-1.00-9604 NO. F-3103 Rev.12	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) FLD	

16. NONCONFORMING CONDITION: Purchase Order 7220-F-3103 Rev. 12 requires all materials to be shop inspected except those not requiring fabrication (bulk material). Material and documentation must have shop inspectors release prior to shipment to jobsite. Contrary to the above, 106 pieces of miscellaneous fabricated metals were received from Wiltse on their delivery receipt No. 002639.

Continued on Page 2

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Rick C Montemurro	5-22-79	W. Moriarty	5-23-79

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

267 315

Block 16 Continued

Documentation received for the same shipment indicates the shop inspector released 78 pieces. 28 pieces were shipped with no apparent buyers supplier quality surviellance inspection.

Hold for engineering disposition. "Q" number is indeterminate. 4 hold tag(s) applied to the nonconforming shipment.

269 316

0

S/U O-EAA

BECHTEL

NONCONFORMANCE REPORT

1. Project Name: MIDLAND	Job No.: 7220			19. No.: 2209	20. Page 1 of 1
2. Unit(s): COMMON	3. Drawing/~~Part~~ No.: 0-618-1-28 SUB 1/P1	Rev: 0	4. Item Description: PIPE HANGER 36" OHBC-1-H2	5. Item Location: 11'-0" W/ CORNER 20'-6" V CORNER EL. 627'-6", S.W. 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. C-1.50-618-1-1 NO. C-305 REV. 0		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 ☐ C.F.D

16. Nonconforming Condition:

C-305 REV. 8 PARA. 6.3 STATES IN PART, AN INSTALLED ANCHOR SHALL BE CONSIDERED ACCEPTABLE IF DURING TESTING THE CONCRETE DID NOT BREAK OUT. CONTRARY TO THIS (4) 3/4" EXPANSION ANCHORS OUT OF (16) SHOW CHIPPING AND SPALLING OUTSIDE OF THE BASE PLATE. THE REMAINING (12) ANCHORS CANNOT BE VIEWED DUE TO THE HANGER BEING INSTALLED.

"Q"-LIST # 4.183 1- HOLD TAG AFFIXED TO HANGER

P

17. Reported By: T Arnold — Date: 5-21-79

18. Validated By: [illegible] — Date: 5-22-79

21. 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

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJECT CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

25. Disposition Results

26. QC Acceptance

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

269 317

0

BECHTEL

NONCONFORMANCE REPORT

S/U Non-Testable Unit

269 313

1. PROJECT NAME: Midland	JOB NO.: 07220			19. NO.: 2210	20. PAGE 1 OF 1
2. UNIT(S): Unit # 2	3. DRAWING/PART NO.: A-18	REV: 10	4. ITEM DESCRIPTION: Construction Joint Preparation	5. ITEM LOCATION: Cont. 2 Letdown CoolerWalls	
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. NO. C-231 Rev. 17		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:

Spec. C-231 Rev. 17 with S.C.N. 9004 states in part in Sections 7.3 & 7.4 .... " Construction Joint Prepartion shall be cleaned by Sandblasting, Waterblasting, or light chipping with a chipping gun." Contrary to the above, approx. 120 sq. ft. of concrete in the Letdown Cooler Walls in Cont. # 2 were prepared by use of a Busch Hammer. Hold for Eng. Disposition, Q Listed i.105, 2 hold tags applied.

17. REPORTED BY: [signature] DATE: 5/23/79

18. VALIDATED BY: [signature] DATE: 5-23-79

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

SU-1/2AEA

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 2211	20. PAGE 1 OF 2
2. UNIT(S): 1 & 2	3. DRAWING/PART NO.: M638-13, Rev. 6/F3, M639-13, Rev. 4/F3	REV	4. ITEM DESCRIPTION: See Block #16		5. ITEM LOCATION: Units 1 & 2
6. P.O. OR SPEC NO.: 7220-M-104A	7. SERIAL NO.: See Bl.#16	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE: Vendor	10. CONTRACTOR/SUPPLIER: ITT GRINNELL, Kernersville, N.C.	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. Block #16 NO. M-204 Rev 10	12. ASME AUTHORIZED INSPECTION REQ'D (X) YES ( ) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered XXXXX ( )Rec'g ( )Const ( )Test BY VENDOR	15. Equip Furnished By ( )Client (X)Eng ( )FLD	

16. NONCONFORMING CONDITION: Spec. M-204, Rev. 10, Para. 4.1.2 states in part: "Certification of materials by the manufacturer shall be furnished in accordance with the Nuclear Power Plant Components Code, Para. NB-2130." Contrary to the above, the following pipe spools with Heat Number N32762 failed to meet the physical impact requirements. (Ref. P.O. 7220-M-104A TWX#8102669497-Bechtel Midl. 5/21/79). Block #16 Continued on page 2.

17. REPORTED BY: E/Brown DATE: 5 23 79

18. VALIDATED BY: W Barclay DATE: 5-23-79

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

269 319

Block #16 Continued

NONCONFORMANCE REPORT (CONT'D)

SU-1[illegible]AEA

20PAGE 2 OF 2 19NCR NO 2211

1ELB-1-S-638-13-3	PQCIR No.	P-1.10-5	Approx. Location		Elev. 616'	42' s/℄ & 35' w/℄ - Unit #1
1ELB-2-S-638-13-3	"	P-1.10-2	"	"	Elev. 610'	45' s/℄ & 10' w/℄ - Unit #1
1ELB-2-S-638-13-4	"	P-1.10-2	"	"	Elev. 622'	" " - Unit #1
1ELB-2-S-638-13-5	"	P-1.10-2	"	"	Elev. 611'	" " - Unit #1
1ELB-2-S-638-13-6	"	P-1.10-2	"	"	Elev. 611'	" " - Unit #1
2ELB-1-S-639-13-3	"	P-1.10-4	"	"	Elev. 616'	35' s/℄ & 31' e/℄ - Unit #2
2ELB-2-S-639-13-3	"	P-1.10-1	"	"	Elev. 622'	45' s/℄ & 30' e/℄ - Unit #2
2ELB-2-S-639-13-4	"	P-1.10-2	"	"	Elev. 622'	" " - Unit #2
2ELB-1-S-639-13-3A	"	P-1.10-7	"	"	Elev. 616'	35' s/℄ & 31' e/℄ - Unit #2

269 320

9 Q.C. Hold Tags Applied To Each Pipe Spool (one per pipe spool). "Q" No's 4.383 & 4.393

Hold For Engineering Disposition.

Q

NONCONFORMANCE REPORT

S/U. Indeterminate

1. PROJECT NAME: Midland	JOB NO.: 07220			19. NO. 2212	20. PAGE 1 OF 1
2. UNIT(S): I & II	3. DRAWING/PART NO.: Vendor E-26-8-3	REV: ---	4. ITEM DESCRIPTION: 2 Conductor #10 (Cable Code B-31)	5. ITEM LOCATION: Installed/Storage	
6. P.O. OR SPEC NO.: E-26	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: (Cerro Wire and Cable Company) Rockbestos	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. N/A NO. E-26-8-3	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED XX YES ( ) NO	14. Discovered During ( ) Rec'g XX Const ( ) Test	15. Equip Furnished By ( ) Client XX Eng ( ) FLD	

16. NONCONFORMING CONDITION:

It has been reported by Field Engineering the B-31/2 conductor #10 cut from two (2) cable reels to date does not have the asbestos/polyester binder tape between the outer jacket and the individual conductor insulation at the cutpoints as required by Drawing E-26-8-3. Field Engineering has been placing the cut lengths that exhibit this problem at the cut points in a segregated area and recutting new lengths. As Affected Reels: 608A, G1702, Q-List # 3.007 One (1) Hold Tag Applied Hold For Engineering Disposition

E

17. REPORTED BY: Joseph P. Goodman DATE: 5/23/79

18. VALIDATED BY: D. B. Barclay DATE: 5-23-79

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

NONCONFORMANCE REPORT

S/U #1 GNC & 2 GNC

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 2213	20. PAGE 1 OF 2
2. UNIT(S): 1 & 2	3. DRAWING/PART NO.: See Block #16	REV: N/A	4. ITEM DESCRIPTION: Recirculating Air Cooling Unit Fan		5. ITEM LOCATION: R.B. El. 649' Col. 6-5' & F-2
6. P.O. OR SPEC NO.: A1-163	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE: Procurement	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER IR NO. NO. F-1-482		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: Activities 3.1 and 3.2 of F-1-482 requires greasing of the fan motor bearings and megger-testing of the motor windings at removal from storage per the vendor's storage maintenance procedure 7220-M163-52-1.

Continued on Page #2

"4" listed #'s 4.535 & 4.625 No Hold Tags Applied

17. REPORTED BY: S. Cartwright DATE: 5-23-79

18. VALIDATED BY: W. Barclay DATE: 5-23-79

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

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 2 19NCR NO 2213

Block #16 continued:

CONTRARY TO THE ABOVE, RECIRCULATING AIR COOLING UNIT FANS 1VV-57B, C, + D AND 2VV-57A, C, + D WERE RELEASED FROM THE WAREHOUSE STORAGE 01 5 21 79 TO THE ZACK Co. WITHOUT THE PERFORMANCE OF THESE MAINTENANCE ACTIVITIES.

NONCONFORMANCE REPORT

S/u. Nontestable Unit.

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 2214	20. PAGE 1 OF 2
2. UNIT(S): Cont #1	3. DRAWING/PART NO.: E-655	REV: 8	4. ITEM DESCRIPTION: Expansion Anchors	5. ITEM LOCATION: Cont#1 Missile Shield Wall @Col#7	
6. P.O. OR SPEC NO.: N/A	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV ____ SER NO. ____	9. SOURCE: Construction	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. 1AVA017 NO. C-305 Rev 8		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:

1) Specification 7220-C-305 Rev. 8, Table 4.1 gives center to center spacing requirements for ½" expansion anchors as 5". Contrary to the above, ½" expansion anchors for conduit support for 1AVA017 are spaced at 3 3/4".

2) Specification Change Notice C-305-9002, Section 3 adds to section 3.4, "Each stud ~~ang~~ anchor shall be marked/coded to provide a positive method to identify the length of the stud anchor after it has been installed.

E

17. REPORTED BY: G B Miller DATE: 5-22-79

18. VALIDATED BY: DCJ Barclay DATE: 5-23-79

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

20. ( ) 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

269 324

Block 16 continued

This marking/coding is to be consistant for all stud anchors used, regardless of the manufacturer."

Contrary to the above, ½" expansion anchors for conduit supports for 1AVA017 are not marked/coded.

269 325

Hold for Engineering Dispostion.

Two QC Hold Tags applied.

Q List #3.005

0

P

S/U 2-EGA

269 326

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO. 7220			19. NO. 2215	20. PAGE 1 OF 1
2. UNIT(S): 2	3. DRAWING/PART NO.: M-617-11	REV: 7/1	4. ITEM DESCRIPTION: 8"-HBC-BF(417-2-057) S/N 0-0060-1-1	5. ITEM LOCATION: Aux Bldg. Elev. 665'-8" 12'-6" N/G	
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-130-617-11-1 NO. M-204 Rev. 10	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Insp (X) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FLD	

16. NONCONFORMING CONDITION: Specification M-204 Para 5.2.3 States in part "When handling or supporting valves, care shall be taken to prevent damage to the valve or its appurtenances." Contrary to the above, There is gross arc damage to the stem of 8"-HBC-BF(417-2-057) S/N 0-0060-1-1, this damage is approx. 3/4" wide x 1" long x 5/16" deep.

QList # 4.176

1 QC Hold Tag Applied to Valve

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
M. Hebert	5-22-79	[illegible] Barclay	5-23-79

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

269 327

5/4 2-EAC

NONCONFORMANCE REPORT

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO. 2216	20. PAGE 1 OF 1
2. UNIT(S): CONT #2	3. DRAWING/PART NO.: 2-619-2-8, REV 1, SUB 2/4	REV: 1	4. ITEM DESCRIPTION: HANGER 10"-2HBC-110-H5		5. ITEM LOCATION: CONT #2 ELEV 607'
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: [X] DWG [X] SPEC [ ] OTHER — IR NO.: NO. M326 REV 3	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: SPEC M326, REV 3, STATES IN PART; "TO THE GREATEST EXTENT POSSIBLE, PIPE SUPPORTS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH PIPE SUPPORT DESIGN DRAWINGS." CONTRARY TO THE ABOVE, PRIOR TO RECEIVING A REDLINE, THE STANCHIONS WELDED TO SPOOL 2HBC-110-GR-2-11 ARE AS BUILT WITH A PARTIAL PENNATRATION WELD, WHERE AS THE SKETCH CALLS FOR A FULL PENNATRATION WELD Q# 4,191 2 Q.C. HOLD TAGS APPLIED ON STANCHIONS

17. REPORTED BY: W. Hallerud — DATE: 5-23-79

18. VALIDATED BY: W.F. Barley — DATE: 5-24-79

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

- X

260 328

Alab

NONCONFORMANCE REPORT

S/U 2 EAD

1. PROJECT NAME: Midland			JOB NO.: 7220			19. NO. 2217	20. PAGE 1 OF 7
2. UNIT(S): Two	3. DRAWING/PART NO.: FSK-M-2HBC 57-1	REV	4. ITEM DESCRIPTION: Small Pipe 2" 2HBC 57			5. ITEM LOCATION: Combo Shop	
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: PI. 20 (FSK-M-2HBC 57-1-1 NO. M 204 Rev 10)		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:

Spec. M 204 Rev. 10 Para. 5.2.1 States in part: Bechtel Isometrics are the governing drawings for final spool configuration. Para. 5.2.7 States, unless otherwise specified on the design drawings, dimensional tolerances of fabricated piping assemblies shall not exceed PFI Standards E53. Accumulated tolerances between fixed points shall not total more than ± 3/8" in any direction. Contrary to the above, the following areas listed do not correspond with configuration dimensions on dwg. FSK-M-2HBC 57-1. Between FW 3&8, Between FW 13 & 19, and FW 23 to tie in on 2HBC 57-2.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Jack Lewis	5/24/79	[illegible]	5-25-79

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

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 2 19NCR NO 2217

Q Number 4.192 Six QC Hold tags are applied.

269 327

O

Mad

S/U 2 BGE

269 330

NONCONFORMANCE REPORT

1. Project Name: MIDLAND — Job No.: 07220 — 19. No. 2218 — 20. Page 1 of 1

2. Unit(s): CONT 2 — 3. Drawing/Part No.: 2-604-2-6 REV 1 SUB 2 F1 — Rev: 1 — 4. Item Description: HANGER 2½-2CCB-1-H18 — 5. Item Location: CONT 2 el 617

6. P.O. Or Spec No.: N/A — 7. Serial No.: N/A — 8. Replacement Part P/N N/A REV ___ SER NO. ___ — 9. Source: CONST. — 10. Contractor/Supplier: N/A

11. Inspection Criteria: ☒ DWG ☒ SPEC ☐ OTHER — IR NO. P210-604-2-6 — NO M326 REV 3 — 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 ☒ BECHTEL ☐ FLD

16. Nonconforming Condition:

SPEC M326 REV 3 STATES IN PART, "TO THE GREATEST EXTENT POSSIBLE, PIPE SUPPORTS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH PIPE SUPPORT DESIGN DWGS." SKETCH 2-604-2-6 REDLINE ~~DTED~~ SDA 5-22-79 H399 SHOWS EMBED TO C/L PIPE DIMENSION AS 1'-6." CONTRARY TO THIS AS BUILT CONDITION IS 1'-3 3/8" ± APPROXIMATELY IGM 5-25-79

QA IS 4045 / HOLD TAG APPLIED

17. Reported By: D R Smith — Date: 5-22-79 — 18. Validated By: M A Farley — Date: 5-25-79

21. 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

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER ___ DATE ___

PROJECT ENGINEER ___ DATE ___

PROJECT CONSTR QC ENGINEER ___ DATE ___

AUTHORIZED INSPECTOR ___ DATE ___

25. Disposition Results

26. QC Acceptance

QC ENGINEER ___ DATE ___

AUTHORIZED INSPECTOR ___ DATE ___

Start Up System: Indeterminate

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 7220				19. NO.: 2219	20. PAGE 1 OF 1
2. UNIT(S): Indeter-minate	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: 20-1" 3000 # Threaded FSS Caps		5. ITEM LOCATION: Warehouse # 1	
6. SPEC NO.: M-305 Rev. 4	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV SER NO.	9. SOURCE: Supplier	10. SUPPLIER: McJunkin Corporation		
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER	IR NO. R-1.00-9622 NO. M-305 Rev. 4	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 (X) Eng ( ) FLD	

16. NONCONFORMING CONDITION: Specification M-305 states in part that each shipment will be accompanied by a Form G-321-D, Certificate of Conformance and Certified Material Test Report. The following documentation discrepancies were noted during receipt inspection of the above items on Purchase Order F-35384. Form G-321-D: Wrong Revision to the form. Certificate of Conformance and Certified Material Test Report: Referenced wrong revision to the specification. Hold for disposition. "Q" list indeterminate. 1 hold tag applied to the container.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
R. Valentine	5-25-79	G. Barclay	5-25-79

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

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

269 331

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BECHTEL

NONCONFORMANCE REPORT

Was Instable.

1. PROJECT NAME: Midland, Units 1&2	JOB NO.: 7220			19. NO. 2220	20. PAGE 1 OF 1
2. UNIT(S): common	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: PG-B Concrete Mix		5. ITEM LOCATION: Tank Farm
6. P.O. OR SPEC NO.: C-208 Rev. 15	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. C-4,10-526 NO. C-208 Rev. 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 ( )Eng (X)FLD

16. NONCONFORMING CONDITION:

Spec. C-208 Rev. 15 Sec. 6.4 states in part: "The contractor shall approve the mix designs before production of concrete is allowed to proceed". Contrary to the above concrete mix PG-B using Type I cement has not been approved. However, 90 cubic yards of PG-B using Type I cement was placed in Pour No. Y(627)B. "Q" List No. is 1.004. No Hold Tags applied.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Warren R. Ludt	5-29-79	W. Barclay	5-29-79

19. 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

8205290327

BECHTEL

NONCONFORMANCE REPORT

S/U Non-testable Unit

1. PROJECT NAME	JOB NO.	19. NO. 2221	20. PAGE 1 OF 3
Midland	7220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
2	E-42 Rev. 40/ C-618 Rev.5		Conduit Supports	R/B #2 see block 16

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
N/A	N/A	P/N N/A REV N/A SER NO. N/A	Construction	N/A

11. INSPECTION CRITERIA	IR NO.	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
(X) DWG ( ) SPEC ( ) OTHER	NO. See block 16 B-42, C-618	( ) YES (X) NO	( ) YES (X) NO	( )Rec'g (X)Const ( )Test	( )Client ( )Eng (X)FLD

E

16. NONCONFORMING CONDITION:

E-42 sh.342 note 3 refers to C-618. C-618 sec. A shows unistrut attachment to liner on center of L3"x2" stiffner. The following cases exist which are contrary to the above:

Continued Next Page.....

17. REPORTED BY — DATE: Robert Price 5/30/79

18. VALIDATED BY — DATE: [illegible] 5-30-79

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

Block 16 Continued From previous page.....

SUPPORT TYPE	RACEWAY	LOCATION	PROBLEM
25A	2BG058, ~~2ALA010~~ 2ALA010, 2CVA005, 2DVA006	17' Northwest of Column 13, Elevation 617'	1/2" off stiffner
25	2CG023	10'-6" Southeast of Col. 12, Elevation 615'-1"	3/4" off stiffner
25	2CG023	7' Southeast of Column 12, Elevation 613'-3"	5/8" off stiffner
25	2CG023	7' Southeast of Column 12, Elevation 611'	3/4" off stiffner
25A	2AG080	2'-4" Southeast of Col. 11, Elevation 615'-3"	4 5/8" off stiffner
25A	2AG080	1'-4" Northwest of Col. 11, Elevation 615'-3"	3/4" off stiffner
25	2AG080	3' Northwest of Col. 11 Elevation 613'-3"	3/8" off stiffner
25	2AG080	3' Northwest of Col. 11 Elevation 611'	5/8" off stiffner
25	2DG018	5' Southeast of Col. 11, Elevation 611'	3/4" off stiffner
25	2DG018	5' Southeast of Col. 11 Elevation 605'-6"	3/4" off stiffner
25	2DG018	5' Southeast of Col. 11 Elevation 598'-11"	3/4" off stiffner
25	2DG018	5' Southeast of Col. 11 Elevation 595'-8"	7/8" off stiffner
25	2BVA014, 2AVA010	7' North of Column 13 Elevation 623'-2"	3/4" off stiffner

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NONCONFORMANCE REPORT (CONT'D) 20PAGE 3 OF 3 19NCR NO. 2221

Block 16 Continued from previous page.....

SUPPORT TYPE	RACEWAY	LOCATION	PROBLEM
25A	2BVA006	17' Northwest of Col. 13, Elv. 617'	1/2" off stiffner
25A	2CG021	3'-8" Southwest of Col. 15,Elv. 542'-8"	4 3/4" off stiffner
25	2AVA010,2BVA014	6'-8" Northwest of Col. 13, El. 634'-7"	1 1/8" off stiffner
25	2AVA010,2BVA014	6'-8" Northwest of Col. 13, Elevation 627'-5"	1 1/8" off stiffner

299 33

Q-List Number 3.006 & 1.109
Seventeen (17) Hold Tags Applied/
Hold For Engineering Disposition.

U

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NONCONFORMANCE REPORT

1/EAC

1. Project Name: MIDLAND	Job No.: 07220			19. No.: 2222	20. Page 1 of 1
2. Unit(s): CONT 1	3. Drawing/Part No.: 1-619-12-19 SUB 3	Rev: 2	4. Item Description: HANGER 8"-1NBC-102-H18	5. Item Location: CONT 1 EL 683'	
6. P.O. Or Spec No.: N/A	7. Serial No.: N/A	8. Replacement Part P/N N/A REV ___ SER NO ___	9. Source: CONST.	10. Contractor/Supplier: N/A	
11. Inspection Criteria: ☐ DWG ☑ SPEC ☐ OTHER NO. M326, REV 3 IR NO P2N0-619-12-5		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:

M326 REV 3 PARA 5.1.1 STATES IN PART, "TO THE GREATEST EXTENT POSSIBLE, PIPE SUPPORTS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH PIPE SUPPORT DESIGN DRWGS." SKETCH SHOWS LOCATION AS 43'-3" WEST. CONTRARY TO THIS, LOCATION IS APPROX 43'-0". SKETCH DOES NOT SHOW ANY OFFSET FROM PERPENDICULAR. CONTRARY TO THIS, HANGER IS OFFSET APPROX 15°

QA IS 4.191 1 HOLD TAG APPLIED

17. Reported By: [signature] Date: 5-23-79

18. Validated By: [signature] Date: 5-30-79

21. 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

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. Disposition Results

26. QC Acceptance

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

X

BECHTEL

NONCONFORMANCE REPORT

S/U Nontestable Unit

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
Midland	07220	2223	1 of 2

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
II	E-42, Revision 40/ C-618	5	Conduit/Tray Support	R/B #2 See Block 16

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
N/A	N/A	P/N N/A REV N/A SER NO. N/A	Construction	N/A

11. INSPECTION CRITERIA	IR NO.	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
XX DWG ( ) SPEC ( ) OTHER	See Block 16 NO. C-618, E-42	( ) YES (X) NO	( ) YES (X) NO	( ) Rec'g XX Const ( ) Test	( ) Client ( ) Eng (X) FLD

16. NONCONFORMING CONDITION:

A) Drawing C-618, Revision 5, Note 7, states; "Spacing between unistru. members and leak chase channels equals 3" (TYP. U.N.)".

Contrary to the above, the following conduit supports do not meet this requirement.

1) 2CG023, 1 1/8" from leak chase, Elv. 629'-8", 8'-6" Northwest of Column 11.

2) 2CG023, 7/8" from leak chase, Elv. 625', 8'-6" Northwest of Column 11.

(Continued following page)

E

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Kalisi Amos	5/30/79	JWBarclay	5-30-79

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

Block 16 Continued from previous page.....

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3) 2CG023, 1" from leak chase, Elv. 615', 8'-6" Northwest of Column 11.
4) 2CG023, 7/8" from leak chase, Elv. 613', 9'-2" Southeast of Column 12.
5) 2CG023, 1" from leak chase, Elv. 611', 9'-2" Southeast of Column 12.
6) 2AG030, 1 1/4" from leak chase, Elv. 629'-8", 10'-4" Southeast of Column 11.
7) 2AG080 1 1/4" from leak chase, Elv. 619'-4", 10'-4" Southeast of Column 11.
8) 2AG080, 1 1/4" from leak chase, Elv. 624', 10'-4" Southeast of Column 11.
9) 2ALA010,2BG058,2CVA005,2DVA006, 2" from leak chase, Elv. 617', 17' Northwest of Column 13.
10) 2ALA010,2BG058,2CVA005,2DVA006, 2" From leak chase, Elv. 617', 21'-6" Northwest of Column 13.
11) 2ALA010,2BG058,2CVA005,2DVA006, 2" from leak chase, Elv. 617', 10'-10" Northwest of Column 13.

B) C-618, Note 6, states, "All unistruts will be cut off 6" above and/or below intermediate grating platforms U.N." Contrary to the above, unistrut for tray support, located 6'-10" Southeast of Column 11, at Elv. 626', passes through and extends approximately 1" below the grating. (I.R. # E-2.1 190)

Q-List Number 1.109, 3.006, and 3.005/ Twelve (12) Hold Tags Applied/ Hold For Engineering Disposition

X

BECHTEL

NONCONFORMANCE REPORT

S/U Non testable

1. PROJECT NAME	JOB NO.			19. NO. 2224	20. PAGE 1 OF 3
Midland	07220				
2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION	
II	E-42, Revision 40		Conduit/Tray Supports	R/B #2 See Block 16	
6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE	10. CONTRACTOR/SUPPLIER	
N/A	N/A		Construction	N/A	
11. INSPECTION CRITERIA (X) Dwg ( ) Sp ( ) OTHER	IR NO. See Block 16 NO. E-42, Rev. 40	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Rec'g XX Const ( ) Test	15. Equip Furnished By ( ) Client ( ) Eng (X) FLD

16. NONCONFORMANCE CONDITION:

A) E-42, Sheet 342A, requires 6" minimum from the end of the unistrut to the center of the conduit. Contrary to the above, the following supports do not meet this requirement:

1) 2ALA010, 2BG058, 2CVA005, 2DVA006, 10'-10" Northwest of Column 13, Elevation 617', lacks required 6" at the top and bottom of support unistrut.

Continued following pages.....

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Kalwick Amal	5/30/79	T.O. Barclay	5-31-79

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

Block 16 Continued from previous page.....

A).

2) 2ALA010,2BG058,2CVA005,2DVA006; 17' Northwest of Col. 13, Elv. 617'; lacks required 6" at the top and bottom of support unistrut.

3) 2ALA010,2BG058,2CVA005,2DVA006; 21'-6" Northwest of Col. 13, Elv. 617'; lacks required 6" at the top and bottom of support unistrut.

4) 2DVA004, 10' 10" Northwest of Col. 13, Elv. 616'; unistrut is only 9" long, thus support has 4 1/2" from center of conduit to end of strut, top and bottom.

5) 2DVA004, 17' Northwest of Col. 13, Elv. 616'; unistrut is only 9" long, thus support has 4 1/2" from center of conduit to end of strut, top and bottom.

6) 2DVA004, 21'-6" Northwest of Col. 13, Elv.616'; unistrut is only 9" long, thus support has 4 1/2" from center of conduit to end of strut, top and bottom.

~~7)~~ 7) 2AVA009, 1'-2" Southeast of Col. 11, Elv. 629'-9", conduit attached 4 1/2" from end of existing unistrut.

8) 2AVA009, 4' - 6" Southeast of Col. 11, Elevation 629'-9", conduit attached 4" from end of existing unistrut.

~~9)~~

B) E-42, Sheet 342 requires 5" minimum from center of horizontal strut to end of ~~vertical~~ vertical strut. Contrary to the above the following supports do not meet this requirement:

1) 2AVA010, 1'-2" Southeast of Col. 11, Elv. 626'-6", 3 1/2" from center of horizontal strut to end of existing vertical unistrut.

2) 2AVA010,2BVA014; 7' Northwest of Col. 13, Elv. 646'-5", 4 1/2" from center at horizontal to end of vertical strut.

(Continued following page)

Block 16 Continued from previous page.....

C) E-42 Sheet 342, specifies 12" between attachments to liner. The following cases exist which are contrary to above:

1) Conduit support ~~for~~ attachment for 2CG023, and tray support attachment for 2CVA01 (E-2.1 190) to existing unistrut on liner are 8 1/2" on center. 8'-6" Northwest of Col. 11, Elv. 629'-8".

2) Conduit support attachment for 2AVA010 and tray support attachment for 2AVA01 (E-2.1 190) to existing unistrut on liner are 6 1/2" on center . Southeast of Col. 11, 2'-4". Elevation 629'.

D) E-42, Sheet 342, specifies maximum load for a Type 25A as 225 lbs. for 1 ft. section. Contrary to this, a 20" section has 510 lbs. on it. Maximum allowed for 20" is 375 lbs. 17' Northwest of Col. 13, Elv. 617'

E) E-42, Sheet 342 details horizontal member bolted through the middle to vertical members. Contrary to this all Type 25 supports are using a "U" bracket (PS613) with three (3) bolts to attach horizontals to verticals. There is NO approval for this detail.

F) Lower end of existing unistrut on liner has been bent. Unistrut supports 2AVA010 at this location 1'-2" Southeast of Col. 11, Elv. 626'-6".

Q-List Numbers 1.109, 3.005, and 3.006 / Twelve (12) Hold Tags Applied / Hold For Engineering ~~Dis~~ Disposition/

NONCONFORMANCE REPORT

S/U Non Testable

1. PROJECT NAME: Midland	JOB NO.: 07220			19. NO. 2225	20. PAGE 1 OF 1
2. UNIT(S): II	3. DRAWING/PART NO.: N/A	REV	4. ITEM DESCRIPTION: Welding on Liner	5. ITEM LOCATION: ~~R/B~~ R/B 92 See blk 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: Construction	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. NO. C-111		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:

FIW - 1.110 requirement 15, states; "Each welder is responsible for stamping his work whether it be a partial weld or a completed weld. Stamping will be done with the welders assigned symbol." Contrary to the above, a 24" unistrut was welded horizontally to the liner 25' Northwest of Column 13 at elevation 646'-6" with no welders stamp.

Q-List Number 1.109 One Hold Tag Applied Hold For Engineering'S Disposition

17. REPORTED BY: Kathryn Oren DATE 5/31/79

18. VALIDATED BY: [illegible] Barclay DATE 5-31-79

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

S/U 2-EAD

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NONCONFORMANCE REPORT

1. Project Name: MIDLAND	Job No.: 7220			19. No. 2226	20. Page 1 of 2
2. Unit(s): II	3. Drawing/Part No.: GRINNELL DWG 2-619-4-18 SUB 4 FIG.	Rev: 3	4. Item Description: HNGR 10"-2HBC-95-H7	5. Item Location: EL. 623'-3" UNIT II 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: CONSTR.	10. Contractor/Supplier: N/A	
11. Inspection Criteria ☐ DWG ☒ SPEC ☐ OTHER — ID NO. P-210-619-4-1 NO. M-321 REV. 3	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:

SPEC M-321 PARA. 3.2 STATES IN PART "IF THE ORIGINAL IDENTIFICATION MARKINGS ARE CUT OFF OR THE MATL IS DIVIDED, THE MARKS SHALL BE ACCURATELY TRANSFERRED TO THE PARTS OR A CODED MARKING SHALL BE USED TO ASSURE IDENTIFICATION OF EACH PIECE OF MATL ..." CONTRARY TO SPEC, 2 PCS (ITM 5 PER SKETCH) OF ... CONT'D PAGE 2

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	Date	18. Validated By	Date
[signature]	5-22-79	[signature]	5-31-79

25. Disposition Results

21. Routing ☒ TO FIELD ENGINFERING ☐ 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 CONT'D

--- 2"x2"x¼" STRUCTURAL TUBING MARKED HT# 794209 BY FIELD HAS BEEN INSTALLED. REVIEW OF FIELD PURCHASE ORDERS AND DOCUMENTATION RECD INDICATES NO 2"x2"x¼" T.S. WITH THIS HT# 794209 HAS BEEN RECD BY FIELD.

"Q" Nº 4.191

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NONCONFORMANCE REPORT

5/11 1-B89

1. PAGE 1 OF 2 — 2. NCR NO. 350

2. DRAWING/PART NO. B&W Spec. FS-III-3	REV. 3	7. PROJECT NO. 07220	12. REPORTED BY J. K. Gray	DATE 10-27-75	25. DISPOSITION CONCURRENCE: REWORK / REJECT / REPAIR / USE AS IS / DOC.
3. ITEM DESCRIPTION Reactor Coolant Pipe		8. ITEM LOCATION "F" Laydown Area	13. VALIDATED BY J. P. Connolly	DATE 10-27-75	PROJECT FIELD ENGINEER B. C. Lahoda — DATE 1-2-76
4. SERIAL NUMBER B41-2013-50-1		9. STARTUP SYSTEM NO. N/A	14. REPLACEMENT PART NO. N/A	REV.	PROJECT ENGINEER — DATE
5. PURCHASE ORDER NO. B&W		10. QC FIELD INSPECTION PLAN NO. MRI-1-[illegible]	16. REPLACEMENT SERIAL NO. N/A		PROJECT FIELD QC ENGINEER — DATE
6. CONTRACTOR/LOCATION B&W/Jobsite		11. ASME CODE ITEM [X] YES [ ] NO	17. SOURCE Vendor		AUTHORIZED INSPECTOR Ben Lahoda — DATE 3-2-76

18. ROUTING INSTRUCTIONS: [ ] ROUTE TO FIELD ENGINEERING [ ] ROUTE TO MATERIAL SUPERVISOR X - B&W - Jobsite

19. NONCONFORMING CONDITION:

B&W Specification FS-III-3 Para. 2.2 states, "Verify that the shipment has not sustained physical damage or surface deterioration." Contrary to the above Reactor Coolant Pipe Spool B41-2013-50-1 was noted to have a one foot long scratch approx. 1/32 inch in depth on the elbow near the stainless steel end. "Q" No. is 4.018. Nonconformance noted during receipt inspection. 1 Hold Tags applied.

20 [ ] FIELD DISPOSITION [X] FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

The attached field correspondence dated 11/10/75 to J. P. Connolly from V. N. Asgaonkar indicates recommended action by B&W for corrective action on Reactor Coolant Pipe spool B41-2013-50-1. David Palmer 12-31-75

21. FIELD DISPOSITION RESULTS:

Dispositioned by Letter & TT prepared. Disposition B&W NCR No. 456 & TT reports No. 5087 & 5088 attached. FINAL 5-11-76

22. ENGINEERING DISPOSITION

23. ENGINEERING DISPOSITION RESULTS:

24. IS DESIGN CHANGE REQUIRED [ ] NO [ ] YES, SEE ATTACHED: DRAWING ____ REV. ____ DCN ____ SPEC. ____ REV. ____ ADD ____

25. REJECTED MATERIAL DISPOSITION [ ] RETURN TO SUPPLIER [ ] SCRAP

REMARKS

27. QC INSPECTOR J. K. Gray — DATE 5-17-79
ENGINEER W. D. K. Stokes Jr. — DATE 5-18-79
AUTHORIZED INSPECTOR — DATE

10038-1

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

QC-G1-2

269 345

MILLER

269 346

BDS 1743-3

FIELD CORRESPONDENCE-B&W CONSTRUCTION COMPANY

TO:	CUSTOMER	
Mr. J. P. Connolly, Bechtel Power Corporation	Consumers Power Company	
	JOB NO. 13	DATE 11/10/1975

Re: NCR # 350 on Reactor Coolant Pipe spool B41- 2013-50-1

Touch up the surface indication with a file and clean the area with wirebrush. The repaired area should be checked by magnatic particle test (MT). Please advise about the results of magnatic particle test.

V. N. Asgaonkar

cc: A.R.Anderson, V.N.Asgaonkar

T.C. Cooke,

C.H.Fife,

File

NCR 350
Page 2 of 4

COPY SENT TO:

NCR 350 pg 346

269 347

BECHTEL

Telephone call

ROUTE _____

BY H. Foster OF Bechtel Job.

TO George Hauer OF Harper Insurance

DATE 1-7- 19 76 TIME 10:30 A.M.

SUBJECT N.C.R. Conference with the Repair Job No. 722C
disposition stated on NCR # 350.

M/r. George Hauer concured, (via Telecon)
with the disposition as stated on NCR # 350

H. C. Foster
L.M.G.O.E.
1-7-76.

P.L.

3

112-671

1612

REPORT OF NONCONFORMITY

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

NCR 350 pg 4 of 6

TO BE COMPLETED BY FIELD QC

1 SYSTEM OR PART NAME: Reactor Coolant System Unit #1		2 JOB NO.: CL-238	3 DATE: 2/27/79
4 DRAWING VIOLATED & REV.: N/A	5 VENDOR NAME: B&W	6 REJECT TAG NOS.: #145	
7 PROC/SPEC. VIOLATED: FS III-3	8 P.O. NO.: M1-9	9 PART NO.: B41-1	10 SYSTEM DESIGNATION: Pump Return Line
11 CORRECTIVE ACTION REQUIRED: ☐ YES ☒ NO		12 REPORTED BY: J. Rheinhardt / J Rheinhardt	

13 CONDITION DETAILS

Spool has a one foot long scratch approximately 1/32 inch in depth on the elbow near the stainless steel end.
Reference: Bechtel NCR #350, dated 10/24/75.

14 CONDITION DETAILS VERIFIED BY B&W QC SUPV. R W Shaw DATE 2-27-79	15 DISPOSITION REQUESTED FROM ☒ B&W CONSTRUCTION ☐ BY R W Shaw DATE 2-27-79

TO BE COMPLETED BY F.P. ENGINEERING

16 REPORTABILITY PER 10 CFR 50.55 (E): ☐ REPORTABLE ☒ NON-REPORTABLE BY R. E. Kinsinger DATE 2-27-79

17 DISPOSITION INSTRUCTIONS

ACTION: ☐ ACCEPT AS IS ☐ SCRAP ☒ REWORK ☐ RETURN TO VENDOR

Remove defect by hand filing.
NOTE: Do not increase depth of defect.
Clean with wire brush.
Inspect to assure defect removal per 9-MT-103. — REPORT # 5087
Visually inspect for arc burns and remove by filing.
Inspect per 9-MT-105. — REPORT # 5088

18 DISPOSITION APPROVED BY

B&W QC SUPV. R W Shaw DATE 2-27-79
B&W FPE R. E. Kinsinger DATE 2-27-79
OTHER L E Weaver DATE 3/1/79
OTHER _____ DATE _____

19 DISPOSITION DETAILS BY: V. N. A 11-10-75 BM 2-27-79

ACTION COMPLETED

20 BY D Ballinger DATE 3-28-79

TO BE COMPLETED BY FIELD QC

21 REWORK INSPECTION ☒ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE ☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE
BY James L Jones DATE 3-28-79 REPORT OF NONCONFORMITY _____

22 NON CONFORMITY CLOSED B&W QC SUPV. R W Shaw DATE 3-29-79

TO BE COMPLETED BY F.P. MANAGER

23 CORRECTIVE ACTION DESCRIPTION

269 348

FIELD PROJECT MANAGER

ANI

24 ANI ACCEPTANCE DATE 3-21-79

SEQUENTIAL NUMBER № 486

BWCC 31809-1

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

NCR 350 pg 596

MAGNETIC PARTICLE & LIQUID PENETRANT INSPECTION REPORT

MAGNETIC PARTICLE REPORT

JOB NUMBER CL-238 WELD NUMBER N/A DATE 2-28-79
SYSTEM NUMBER Pump Return Line B41-1 M.T. PROCEDURE NUMBER 9-MT-103
WELD REPAIR NUMBER N/A SEQ. NUMBER N/A P.C.P. NUMBER NCR 426

INSPECTION LEVEL	MATERIAL INSPECTED	SURFACE CONDITION	APPLICABLE CODE
☐ ROOT ☐ FINAL ☐ PARTIAL ☒ REPAIR	☐ WELD ☒ BASE METAL	☐ AS WELDED ☒ GROUND ☐ MACHINED	☐ ASME I ☒ ASME III ☐ ASME VIII ☐ B 31.1 ☐ OTHER

CURRENT	EXAMINATION METHOD		EQUIPMENT	MAGNETIC PARTICLE
☐ A.C. ☐ D.C. ☒ D.C. RECTIFIED AMPERES 450-650	☒ PROD ☐ Y-6 YOKE	☐ WET ☒ DRY	MAKE Wesco MODEL 1500 SERIAL NUMBER 78267	☐ FLOURESCENT ☒ RED ☐ GRAY

☒ ACCEPT ☐ REJECT
COMMENTS:

Lighting Acceptable

INSPECTOR James L. Jones
CERTIFIED LEVEL II

LIQUID PENETRANT REPORT

JOB NUMBER _____ WELD NUMBER _____ DATE _____
SYSTEM NUMBER _____ L.P. PROCEDURE NUMBER _____
WELD REPAIR NUMBER _____ SEQ. NUMBER _____ P.C.P. NUMBER _____

INSPECTION LEVEL	MATERIAL INSPECTED	SURFACE CONDITION	APPLICABLE CODE
☐ ROOT ☐ FINAL ☐ PARTIAL ☐ REPAIR	☐ WELD ☐ BASE METAL TYPE _____	☐ AS WELDED ☐ GROUND ☐ MACHINED	☐ ASME I ☐ ASME III ☐ ASME VIII ☐ B 31.1 ☐ OTHER

PRE EXAM. CLEANING	PENTRANT APPLICATION	PRE DEVELOP CLEAN	DEVELOPER APPLICATION	POST EXAM. CLEANING
☐ SPRAY ☐ WIPE BATCH NO. _____ DRY TIME _____	☐ SPRAY ☐ BRUSH BATCH NO. _____ DWELL TIME _____	☐ CLOTH WIPE ☐ TOWEL WIPE ☐ SOLVENT WIPE BATCH NO. _____ DRY TIME _____	☐ DUST ☐ SPRAY BATCH NO. _____ DEV. TIME _____	☐ FLUSH ☐ SOLVENT WIPE BATCH NO. _____

☐ ACCEPT ☐ REJECT TEMPERATURE _____ CASE NUMBER _____
COMMENTS:

269 349

INSPECTOR _____
CERTIFIED LEVEL _____

N/A = NOT APPLICABLE

SEQUENTIAL NUMBER № 5087

BWCC 31809-1

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

NCR 350 pg. 1

MAGNETIC PARTICLE & LIQUID PENETRANT INSPECTION REPORT

MAGNETIC PARTICLE REPORT

JOB NUMBER CL-232 WELD NUMBER N/A DATE 3-28-79

SYSTEM NUMBER Pump Return Line B41-1 M.T. PROCEDURE NUMBER 9-MT-105

WELD REPAIR NUMBER N/A SEQ. NUMBER N/A F.C.P. NUMBER NCR 426

INSPECTION LEVEL	MATERIAL INSPECTED	SURFACE CONDITION	APPLICABLE CODE
☐ ROOT ☐ FINAL ☐ PARTIAL ☒ REPAIR	☐ WELD ☒ BASE METAL	☐ AS WELDED ☒ GROUND ☐ MACHINED	☐ ASME I ☒ ASME III ☐ ASME VIII ☐ B 31.1 ☐ OTHER

CURRENT	EXAMINATION METHOD		EQUIPMENT	MAGNETIC PARTICLE
☒ A.C. ☐ D.C. ☐ D.C. RECTIFIED AMPERES	☐ PROD ☒ Y-5 YOKE	☐ WET ☒ DRY	MAKE MAGNAFLUX MODEL Y-5 SERIAL NUMBER Y-100	☐ FLOURESCENT ☒ RED ☐ GRAY

☒ ACCEPT ☐ REJECT

COMMENTS:

LIGHTING ACCEPTABLE

INSPECTOR James R. Jones

CERTIFIED LEVEL II

LIQUID PENETRANT REPORT

JOB NUMBER ____ WELD NUMBER ____ DATE ____

SYSTEM NUMBER ____ L.P. PROCEDURE NUMBER ____

WELD REPAIR NUMBER ____ SEQ. NUMBER ____ F.C.P. NUMBER ____

INSPECTION LEVEL	MATERIAL INSPECTED	SURFACE CONDITION	APPLICABLE CODE
☐ ROOT ☐ FINAL ☐ PARTIAL ☐ REPAIR	☐ WELD ☐ BASE METAL TYPE ____	☐ AS WELDED ☐ GROUND ☐ MACHINED	☐ ASME I ☐ ASME III ☐ ASME VIII ☐ B 31.1 ☐ OTHER

PRE EXAM. CLEANING	PENTRANT APPLICATION	PRE DEVELOPER CLEAN	DEVELOPER APPLICATION	POST EXAM. CLEANING
☐ SPRAY ☐ WIPE BATCH NO. ____ DRY TIME ____	☐ SPRAY ☐ BRUSH BATCH NO. ____ DWELL TIME ____	☐ CLOTH WIPE ☐ TOWEL WIPE ☐ SOLVENT WIPE BATCH NO. ____ DRY TIME ____	☐ DUST ☐ SPRAY BATCH NO. ____ DEV. TIME ____	☐ FLUSH ☐ SOLVENT WIPE BATCH NO. ____

☐ ACCEPT ☐ REJECT TEMPERATURE ____ GAGE NUMBER ____

COMMENTS:

269 350

INSPECTOR ____

CERTIFIED LEVEL ____

N/A = NOT APPLICABLE

SEQUENTIAL NUMBER No 5038

NONCONFORMANCE REPORT

269 351

1. PROJECT NAME [illegible]	JOB NO. 7320					19. NO. 1071	20. PAGE 1 OF 6
2. UNIT(S) [illegible]	3. DRAWING/PART NO. See Block 16	REV N/A	4. ITEM DESCRIPTION Fabricated Pipe Spools			5. ITEM LOCATION Roseyville Laydown	J-1 thru 5-N
6. P.O. NO. [illegible]	7. SERIAL NO. See Block 16	8. REPLACEMENT PART P/N N/A REV SER NO.		9. SOURCE Supplier	10. MANUFACTURER/SUPPLIER Southwest Fabricating, Houston, Texas		
11. INSPECTION CRITERIA (X) DWG ( ) SPEC ( ) OTHER	IR NO. B-1.00-2103 NO. See Block 16	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES ( ) NO	13. SKETCH ATTACHED (X) YES ( ) NO	14. Discovered During (X) Rec'g ( ) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FELD		

16. NONCONFORMING CONDITION

A. Pipe Spool [illegible] mark no. 3" [illegible] (1) was fabricated to an unapproved Rev. 1 Drawing (4th Rev. 20, Submittal 3, Approval Level 9 (Revision not approved, manufacturer may continue work in accordance with notes, revise and resubmit drawing), (2) was received at the jobsite with a crack (See Attachment "A") that has been repaired over, making the status of the spool indeterminate.

Con't Pg. 2

17. REPORTED BY Marion Donovan DATE 11-25-77

18. VALIDATED BY [illegible] DATE 11/28/77

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

20. (X) Field Engineering Disposition (X) Field Engineering Recommended Disposition Project Engineering

A. Rework: ~~Damaged 90° elbow to be removed & replaced. Project Engineering to provide procurement approval.~~ (CONTINUED PAGE 3)

B. Rework Documentation: Procurement supervisor to prof- provide corrected documentation. Spool sheet has Bechtel comment o- for correction.

(Continued on Page 3)

23. PROJECT ENGINEERING DISPOSITION (A)(1) Engineering shall request resubmittal of 0-6149 Sht 20 to resolve Level 9 approval, (2) field to replace damaged elbow. (B) Engineering shall request resubmittal of 0-6147 Sht 55 to resolve incorrect mark number shown on the sketch. (C) Use as is, engineering to request revision and resubmittal of 0-6147 Sht 104 to agree with spool received, ISO to be revised to reflect change. (D) Engineering concurs.

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

PROJECT FIELD ENGINEER DATE 4/11/78

PROJECT ENGINEER DATE 4-12-78

PROJ CONSTR QC ENGINEER DATE 4-14-78

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Item B: Documentation corrected, received and accepted 7-18-78 Rev. Drawing revision stamp received 7-18-78

Item C: Spool may be used as is, in accordance with approved FCR-1380, 9-26-78

Item A: was replaced and welded in accordance of (-2) Rework 10/1/78

Item B: Certification received by the Traveler Packet [illegible] 10-18-78

26. QC ACCEPTANCE

QC ENGINEER DATE 3/27/79

AUTHORIZED INSPECTOR DATE 11/2/78

* See page 3 of this NCR for Block 26. M. Donovan 3/27/79

269 352

a. One spool piece mark no. 6"-HPC-216 [illegible] was delivered to jobsite with Quality Verification documentation that incorrectly identified the piece mark no. should be 6" [illegible] 3527-1-3, making the status of the spool indeterminate.

b. One spool piece mark no. 6"-HPC-235 3527-1-3, Drawing 0617 Sht. 10h, was fabricated to Vendor Drawing [illegible] (See Attachment "A"). Contrary to the above, Bechtel approved Drawing 0617 Sht. 10h, Rev. 2, identified 3 sheet that piece #, a 3/4" 3000# S.W.P. should be added to the opposite side of the pipe (See Attachment "B").

c. There was no Quality Verification Documentation received for the following gaskets:

SIZE	MATERIAL	GRADE	QUANTITY
6" 150"	Flexitallic Gasket	CG	3
6" 150"	"	"	3
6" 150"	"	"	2
6" 150"	"	"	2
6" 150"	"	"	2
6" 150"	"	"	2
6" 300"	"	"	3
6" 150"	"	"	2
6" 300"	"	"	3
3" 150"	"	"	3

3" [illegible] mark no. h.372 and h.192. Hold pending final disposition. 3 hold tags Wed 9-29-78 hold tag(s) applied to piece receiving items.

10098-2

QC G1-1

White Copy – Originator
Canary Copy – Field Engineer
Pink Copy – FQAE
Goldenrod Copy – QC

Item #22 Continued:

C. Report Documentation: Project Engineering to provide approval to Vendor Drawing Q6147, Sh. 104, Rev. 4 and revise Drawing M-657, Sh. 39 accordingly.

D. Report Documentation: Procurement supervisor to obtain required documentation.

J. Mundy 1/10/78 J. L. Dame 1/16/78

A. (1) USE AS IS PROCEED WITH WORK TO PROVIDE REQUIRED NON-CONFORMANCE

(2) REJECT MATERIAL SHOWN IN SKETCH TO BE REMOVED AND REPLACED

J. C. Mundy 2/9/78

Block 5 Nonconformance continued: Spool 24BC-216-S657-41-1 Conbo Shop Hold 5-10-78

A conditional release has been granted to allow installation of pipe spool no. 6"-IBBC-216-S657-1-3. Corrections or removal can be accomplished without damage or contamination to associated plant equipment or structure.

and W. L. Bowling by pse 12/28/78

PEE DATE PFQCE DATE

L A Dewsbach 12-28-78

POAE DATE

BLOCK 26 CONTINUED QC ACCEPTANCE

M. Donovan 5-9-79

QC ENGINEER DATE

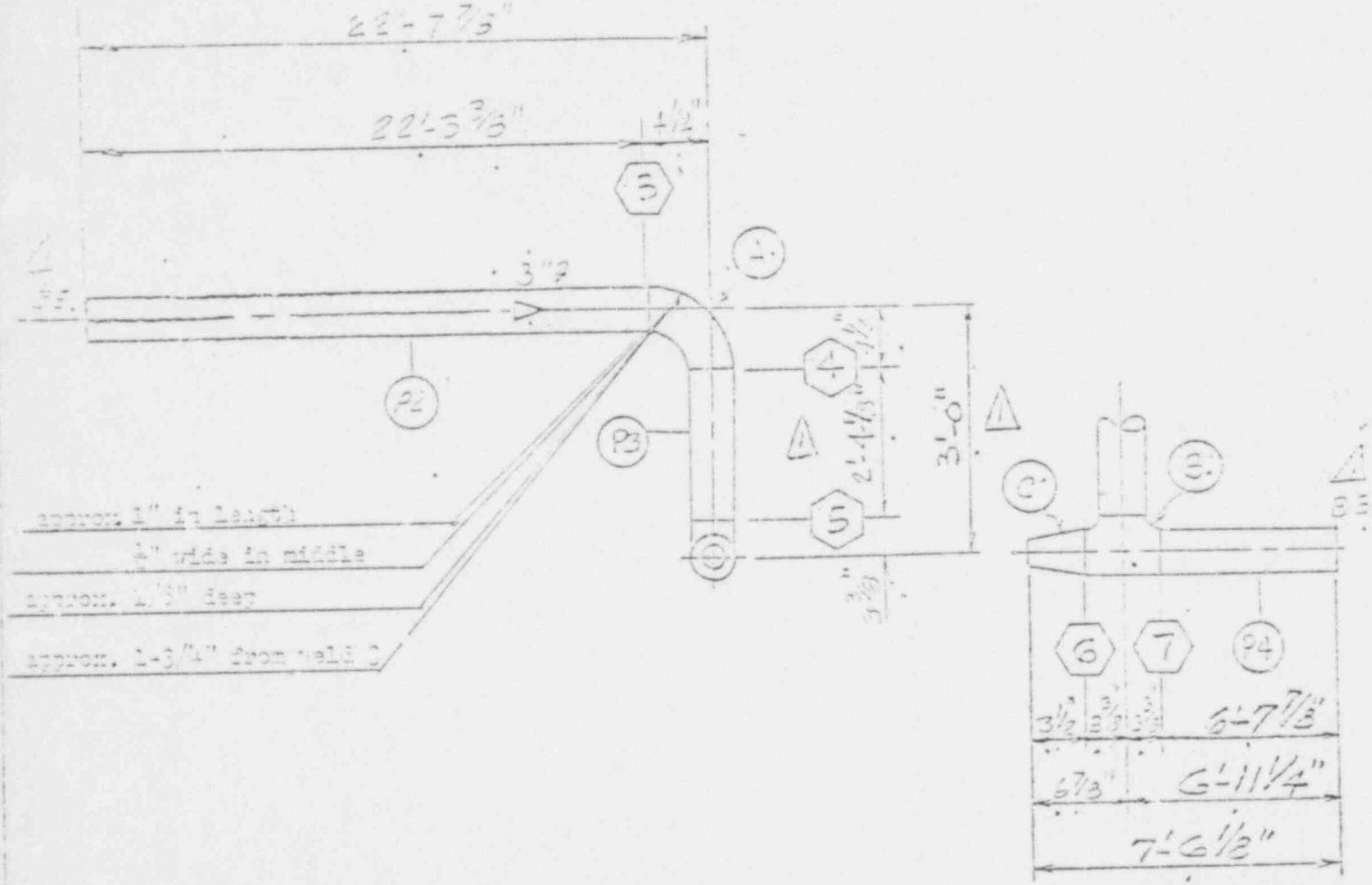
NOTE: NCR INADVERTENTLY SIGNED OFF AND UNAPPROVED DRAWINGS FOR ITEM A & B STILL UNRESOLVED. THESE ITEMS TRANSFERRED TO NCR # 2090. M. Donovan 5-9-79

ATTACHMENT "A"
WOR # 1071
Page 1 of 5

SOUTHWEST FABRICAL AND WELDING CO.
(Name of Manufacturer)

9472
(Manufacturer's Serial No.)

1977
(Year Built)

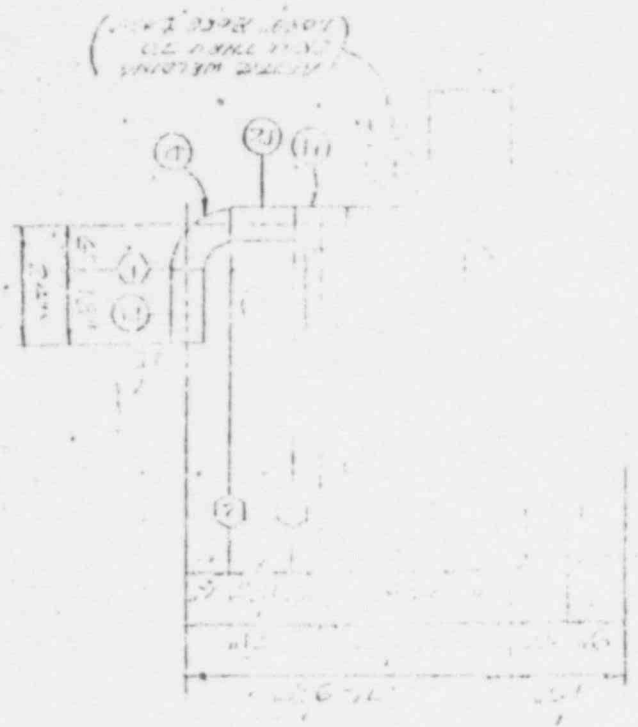


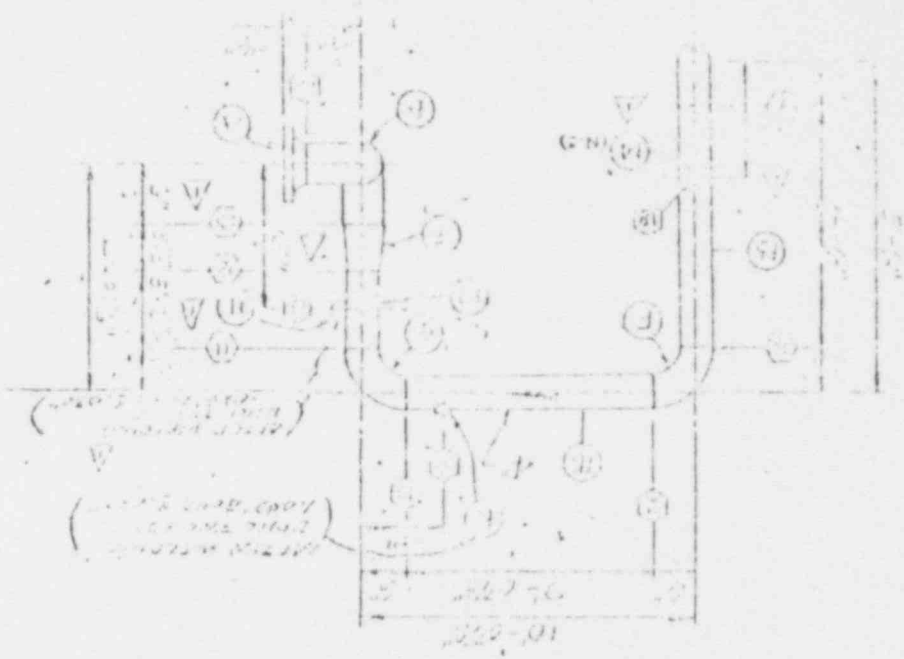
1-REQ'D MK: 3"-2HBC-21E - 565T-41-1

269 354

QTY	DWG	DESCRIPTION	ASTM	QUAL	UNIT	TOTAL	DISC.	NET
		· ALL BEVELS 37½°						
		· SA-234-WPB (SMLS)						
		3"-300# STD. WT. L.P. ELL						
		· HT= 61AM9						
		3"-300 STD WT. STR. TEE						
		· HT= 99W						
		· 3"-XH 2"EK-HY-DRILLED-(3"=STD.) · USE X-HVY - MAKE 3" END STD						
		· HT= C8L0RS						

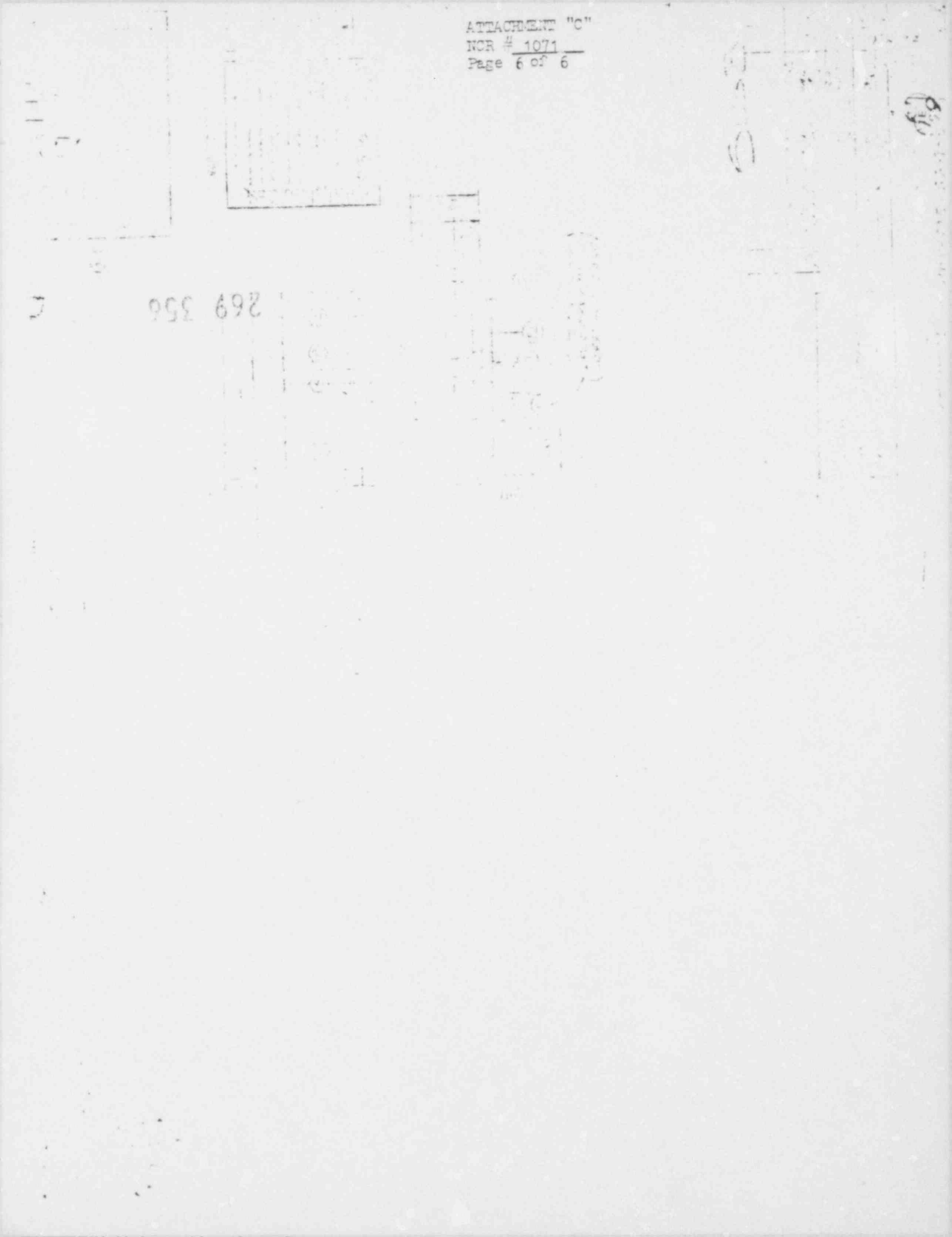
UNCONTROLLED
NOT TO BE USED
FOR CONSTRUCTION





ATTACHMENT "B"
MOD. # 1071
Page 5 of 6

269 692



NONCONFORMANCE REPORT

269 357

S/U 1-BBD

1. PROJECT NAME	JOB NO.			19. NO. 1260	20. PAGE 1 OF 5
Midland	7220				
2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION	
Unit I	7220-M 1.6-25-2	N/A	Unit I Steam Generator Feedwater Header	Poseyville Laydown	
6. P.O.	7. SERIAL NO.	8. REPLACEMENT PART P/N N/A REV. SER NO.	9. SOURCE	10. SUPPLIER	
M 1.6	See Block 16		Supplier	Babcock & Wilcox	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER	IR NO R-2.00-32 1-53 NO See blk. 16	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 (X) Client ( ) Eng ( ) FLD

16. NONCONFORMING CONDITION:

QCI R-2.00 Rev. 3 Act 2.1 requires the review of the Material Certificate of Conformance and Code Data Report(if applicable) or a TWX identifying the material and stating that the missing documentation has been sent prior to the release of the equipment to storage. Contrary to the above, no documentation has been received for the material listed on pages 2 thru 4.

"Q" number is 4.011. Hold pending final disposition. RH hold tag(s) applied to to the nonconforming item(s). 3-9-78

17. REPORTED BY	DATE	18 VALIDATED BY	DATE
John R Shepherd	3-7-78	R A Watson	3-7-78

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

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

Field procurement supervisor to contact Babcock & Wilcox's on site Technical Director; Mr. Walt Lee and obtain the missing documentation as listed in Block 16.

Wes Gunther 6-23-78 R Ward 6/23/78

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
Dcc			

PROJECT FIELD ENGINEER — 2-13-79 DATE

PROJECT ENGINEER — DATE

PROJ CONSTR QC ENGINEER — 2-15-79 DATE

AUTHORIZED INSPECTOR — DATE

25 DISPOSITION RESULTS

Box 31-N-1120-1" Heavy Hex Nuts, Stamped - 1-A1, 2H, FY, May Be Released due To The Closing Of NCR 1555 On 3-9-79 (RH) 5/16/79

Documentation Received and Reviewed

R Valentine 5.15.79

26. QC ACCEPTANCE R Valentine 5.15.79

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

Block 16 Con't.

A conditional release has been granted to allow ~~relocation of XX-storage~~ SUBJECT HEADER TO BE STORED IN PLACE with the exclusion of any installation effort, i.e. welding. Corrections or removal can be accomplished without causing damage or contamination to associated plant equipment or stucture. 5/2/79

PFE 5-22-79 DATE PFQCE 3-22-79 DATE

PQAE 3-22-79 DATE

A conditional release X has been granted to allow removal from storage of the Header accessories. 1) To B&W Kelly enclosure for cleaning. 2) To be XXXX stored in place with the subject Header. This release excludes any installation effort. Corrections or removal can be accomplished without causing damage or contamination to associated plant equipment or structure.

PFE 5/4/79 DATE PFQCE 5-11-79 DATE

PQAE 5-11-79 DATE

for L A Dieterich

269 353

BOX 342A-1173

THE BABCOCK & WILCOX COMPANY

POWER

PACKING LIST

DATE SHIPPED	PAGE	SHIPPED BY	SHIPPED FROM WORKS AT	CUSTOMER'S ORDER	B & W ORDER
11	1	SS	BARBERTON, OHIO	37710	620-00'3-55

WEIGHT	COLLECT	PREPAID	PARTIAL	COMP	SHIPPED VIA	CAR NO.
9,535#		X	X		G.R. MYERS	

DATE PACKED	PACKED BY	CONTAINER NUMBER

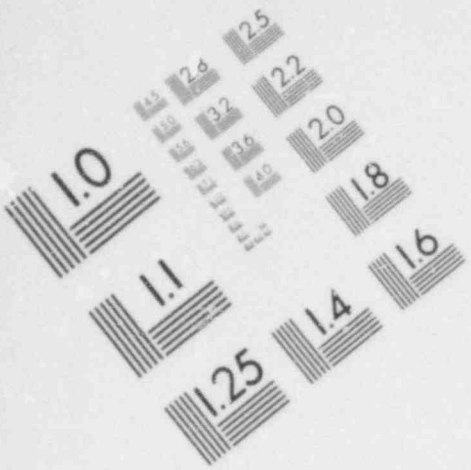
BECHTEL POWER CORPORATION
3500 E. MILLER RD.
MIDLAND, MICHIGAN 48640

MCR# [illegible] Page 2 of 4

PAGE	LINE	QUANTITY	DESCRIPTION OF ITEMS SHIPPED	MARK OR PATTERN NO.
10	92	64	SPEC. BOX 25-4A "A" UNITS 152 3" FEEDWATER PIPE SUB-ASSY'S A-134-2013-55-1 THRU 64	84-A-134
		32	SPEC. BOX 25-77 "A" FEEDWATER SPRAY PIPE SUB-ASSY 84-A137-2013-55-1 THRU 32	84-A137
		32	SPEC. BOX 25-77 "B" FEEDWATER SPRAY PIPE SUB-ASSY 84-A137-2013-55-33 THRU 64	84-A137
		512	BOX 31N-1127 1" HVY. HEX. NUTS STAMPED "A.A.I" FZ 2H	148
		232	BOX 31N-1032 FEEDWATER STUDS UNIT 2 STAMPED BSW B-16 F N	324
		23	F.W. STUDS (UNIT 00) STAMPED CTS H	324
		256	BOX 31N-1220 FEEDWATER STUDS UNIT 1 STAMPED BSW B-16 F N	324
		22	FEEDWATER STUDS UNIT 2 STAMPED C.S.T. B-16 H	324
		32	BOX 31N-527 UNIT 1 BOLTING RING S/N 84-323-2013-55-1 THRU 32	84-323
		32	BOX 31N-528 UNIT 2 BOLTING RING S/N 84-323-2013-55-33 THRU 64	84-323

269 [illegible]

FIELD COPY



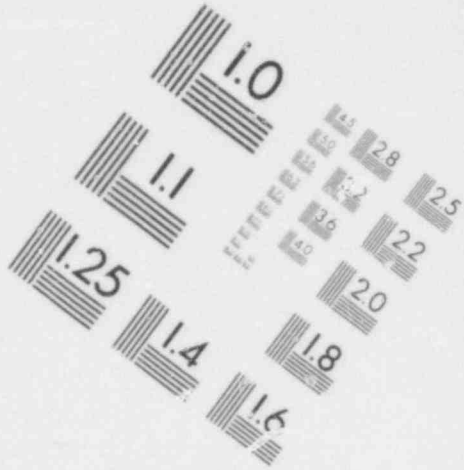
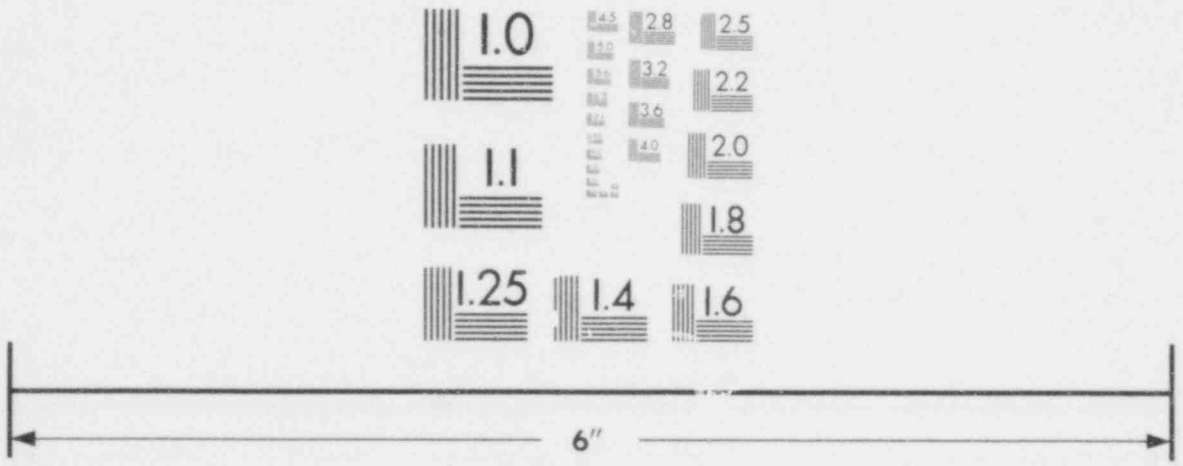
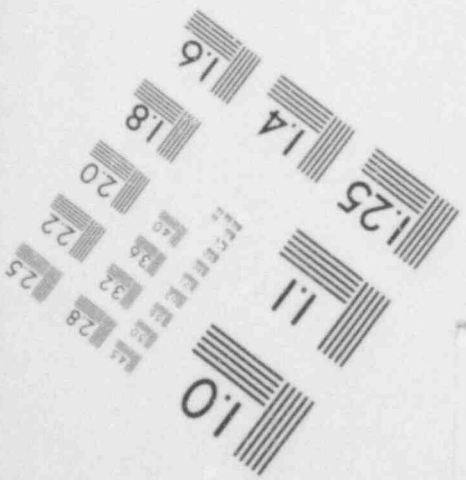
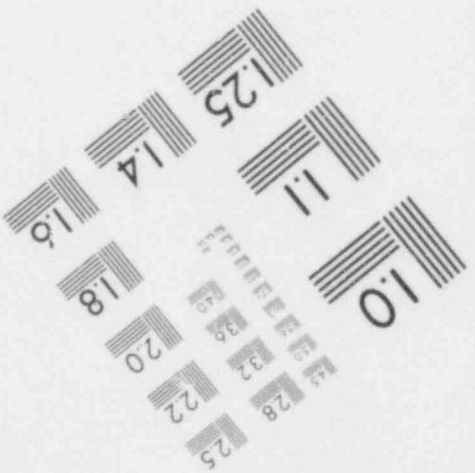
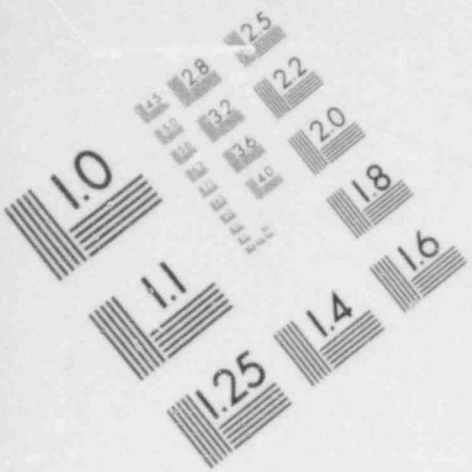


IMAGE EVALUATION TEST TARGET (MT-3)







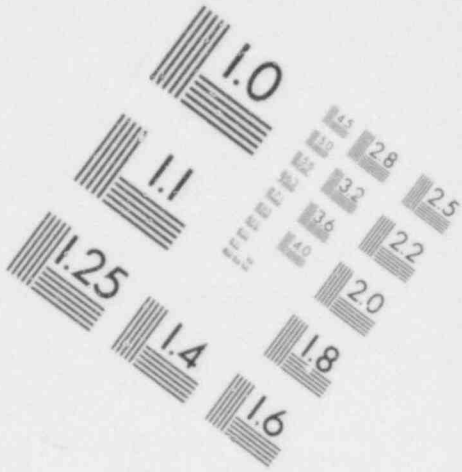
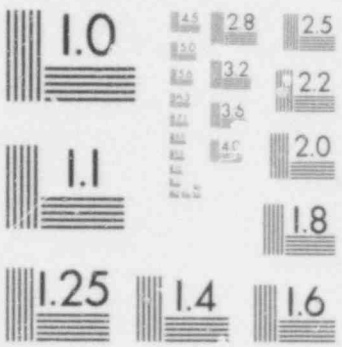
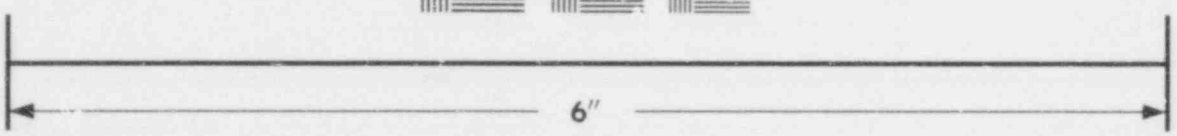
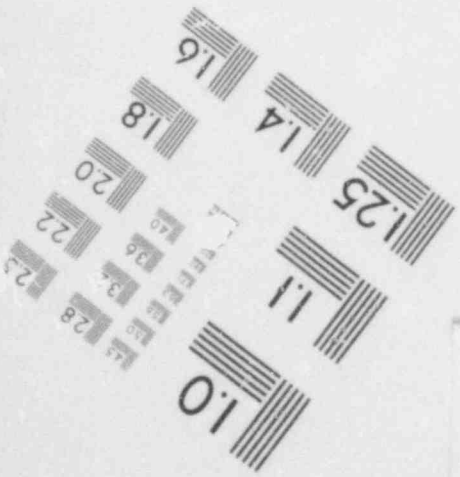
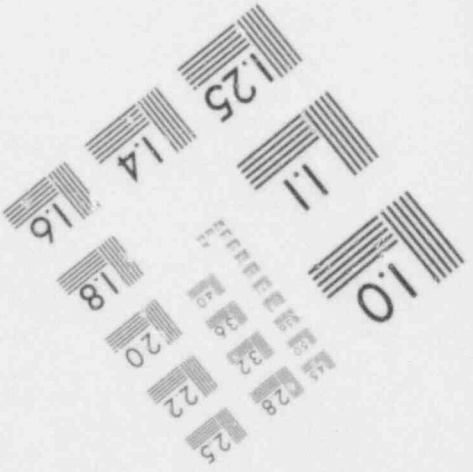


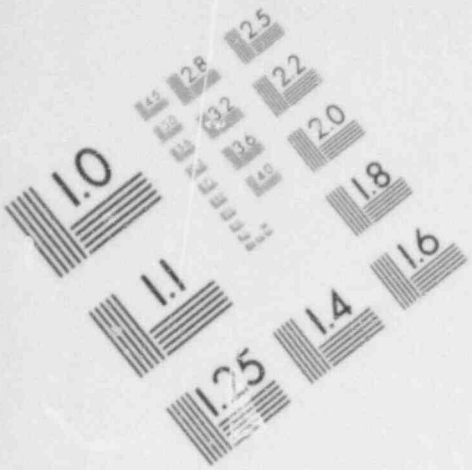
IMAGE EVALUATION TEST TARGET (MT-3)











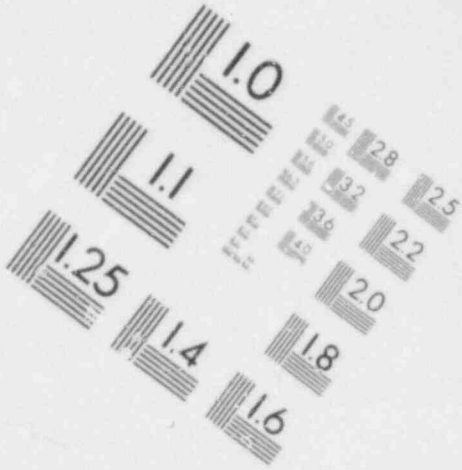
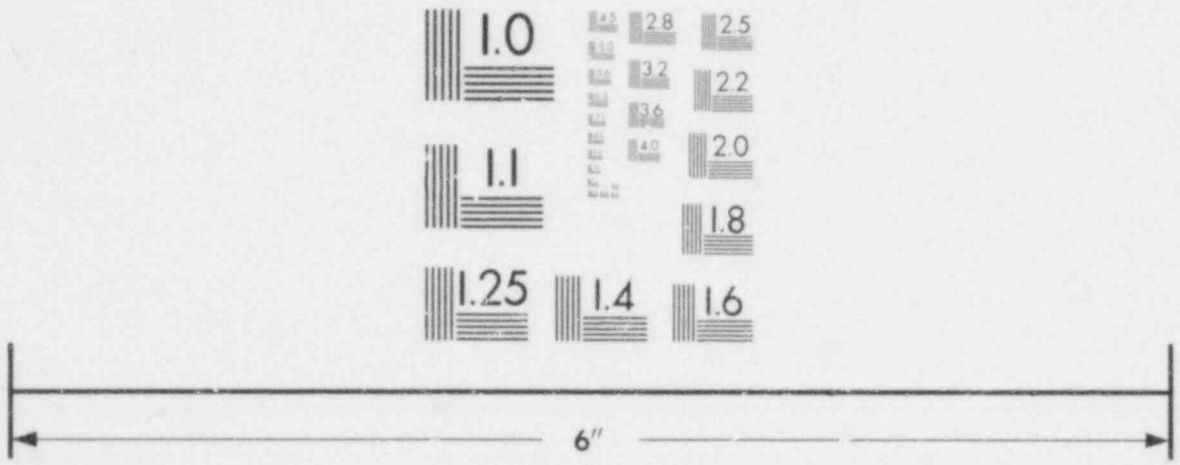
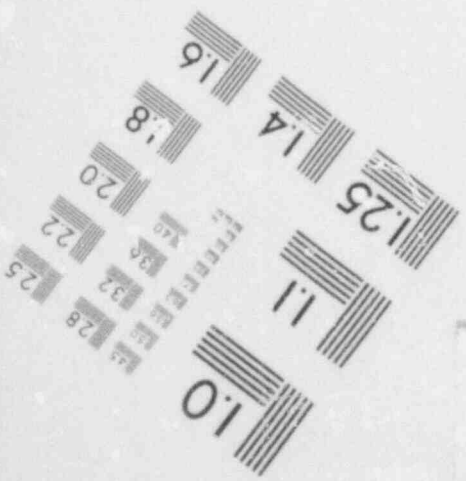
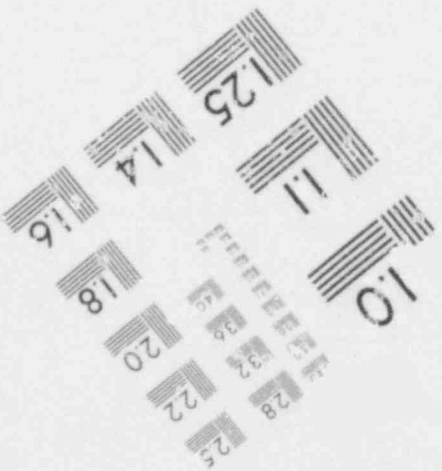


IMAGE EVALUATION TEST TARGET (MT-3)







THE BABCOCK & WILCOX COMPANY

POWER

PACKING LIST

DATE SHIPPED	PAGE	SHIPPED BY	SHIPPED FROM WORKS AT	CUSTOMER'S ORDER NO.	B & W ORDER
-77	1 of 1	SS	BARBERTON, OHIO	37710	620-0012-55

WEIGHT	COLLECT	PREPAID	PARTIAL	COMP	SHIPPED VIA	CAR NO.
2463		X	X		G.R. MYERS	

DATE PACKED	PACKED BY	CONTAINER NUMBER

BECHTEL POWER CORPORATION
3500 E. MILLER RD.
MIDLAND, MICHIGAN 48640

NCR # 1260 Page 3 of 4

PACKAGE	LINE	QUANTITY	DESCRIPTION OF ITEMS SHIPPED	MARK OR PATTERN NO.
		256	BOX 31H-1120 1" HEAVY HEX NUTS STAMPED - 1.A1 2H FV	143
		256	1" HEAVY HEX NUTS STAMPED - 1.A1 2H FV	143

G-list

VENDOR Babcock & Wilcox
P.O. NO. 01-da MRI NO.
MRR NO. 4022 DATE REC'D 8-11-77
VIA G.R. Motor GT. NO. 1463
CHECKED BY
FIELD INSPECTION Leo Rucker
PARTIAL ☐ COMPLETE ☐
STORAGE Whse #1

TQ

270 001

FIELD COPY

11286

NCR #1260 Page 4 of 4

PRINTED BY THE STANDARD REGISTER

BDX-428-5 7-72

PACKING LIST

THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP

Walter Lu

FROM WORKS AT

[X] BARBERTON OHIO [ ] BRUNSWICK GEORGIA [ ] LYNCHBURG VIRGINIA [ ] MT. VERNON INDIANA [ ] PARIS TEXAS [ ] WEST POINT MISS. [ ] WILMINGTON N. C.

CUSTOMER ORDER NO.	DATE PACKED	PACKED BY	PACKED FOR	B & W ORDER NO.
37710	1/27/77	Kovack	Consumers Power Co.	620-0013-

CON'T NO.	PIECE NO.	BUNDLE NO.	CRATE NO.	SKID NO.	BARREL NO.	BAG NO.
25-1,2,3,4						

PAGE	LINE	QUANTITY	DESCRIPTION OF MATERIAL PACKED	MAN HR ST PATTERN
		2	Feedwater Header (A123-2013-55-1, 2)	A123
		2	Feedwater Header (A122-2013-55-1,2)	A122

VENDOR B E W (Steam Generator)
P.O. NO. M1-6 M2I NO.
MRR NO. 5357 DATE RCVD. 12-4-28
VIA L.R. Meyers FGT NO. 157
CHECKED BY Dave Lindsay
FIELD INSPECTION BY Van Leeuwen QAE
PARTIAL ☐ COMPLETE ☐
STORAGE Davenport

COPY 2

SHIP TO:

BECHTEL POWER CO.

3500 E. Miller Rd.

Midland, Michigan 48646

UPGRADE RELEASE FOR PARTS

D.S. Lentz 1-10-78
(QUALITY ASSURANCE) (DATE)

REQUIRED Q.A. CERT. SUBMITTED

270 002

X

NONCONFORMANCE REPORT

S/U 2 ENC.

1. PROJECT NAME	JOB NO.	19. NO. 1404	20. PAGE 1 OF 2
Midland	7220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
2	2V156C & D	N/A	Recirculating Air Cooling Units	QC Hold, Whse. # 2

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART P/N N/A REV SER NO.	9. SOURCE	10. CONTRACTOR/SUPPLIER
7220-M-163AC Rev. 5	01A011 01A012		Supplier	CVI Corporation

11. INSPECTION CRITERIA	IR NO.	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG (X) SPEC ( ) OTHER	R-1,00-3003 NO. M-163 Rev. 6	(X) YES ( ) NO	( ) YES (X) NO	(X) Rec'g ( ) Const ( ) Test	( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION:

Specification 7220-M-163 Rev. 6 requires Quality Verification Documentation according to Form G-321-D. Quality Control Instruction PQCI-R-1.00 Rev. 7 requires documentation required by Form G-321-D to be available, legible and traceable. Contrary to the above, the Quality Verification Documentation Packages for the above listed units contain a considerable amount of missing and illegible documentation. ~~Traceability for the documentation back to Form G-321-D can be~~ 7/12/78

Cont. on Page 2

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Dean A. Delaney	7/11/78	H W Kelley	7-13-78

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

22. (X) Field Engineering Disposition ( ) Field Engineering Recommended Disposition To Project Engineering

Project Procurement Supervisor to ship documentation back to vendor and have vendor resubmit the proper documentation. Rejected 7/12/78 Dean A. Delaney 7/11/78

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
X			

PROJECT FIELD ENGINEER — DATE 7/12/78

PROJECT ENGINEER — DATE

PROJ CONSTR QC ENGINEER — DATE 7/20/78

H W Kelton — AUTHORIZED INSPECTOR — DATE 7-21-78

25. DISPOSITION RESULTS

CORRECTED DOCUMENTATION RECEIVED & ACCEPTED. Dean A. Delaney 5/10/79

26. QC ACCEPTANCE

Dean A. Delaney — QC ENGINEER — DATE 5/10/79

H W Kelton — AUTHORIZED INSPECTOR — DATE 5/10/79

R

270 003

Block 16 Continued

~~maintained only through the use of the index which breaks the documentation packages down by page numbers.~~ DELETE: EA 7/19/78
(Documentation packages in their present form are not traceable.) David A. Delaney 7/5/78 A 7/19/78
ASME Form N-1 (Page # 68 in the documentation package) reads S/N 03A399 and National Bd. No. 485. The code data plate attached to the cooling coil unit reads S/N 03A339 and National Bd. No. 485.

"O" number is 4,624. Hold pending final disposition. 2 hold tag(s) applied to nonconforming item(s).

A conditional release has been granted to allow installation of Recirculating Air Cooling Units. Corrections or removal can be accomplished without causing damage or contamination to associated plant equipment or structure.

2700 004

[signature] DATE
PFE

DNO W. S. Barclay by proc 12/28/78 DATE
PFQCE

WA Welch 12-28-78
PQAE DATE

A. A. Kelter Jr. 12/28/78
A.I. DATE

NCR

NONCONFORMANCE REPORT

Sht 2 CAA

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 1435	20. PAGE 1 OF 3
2. UNIT(S): Unit II	3. DRAWING/PART NO.: 7220-E-7-13(1)	REV: 4	4. ITEM DESCRIPTION: Motor Control Center	5. ITEM LOCATION: Ulise. # 1 QC Hold	
6. P.O. OR SPEC NO.: 7220-E-7AC Rev. 3	7. SERIAL NO.: 2B23	8. REPLACEMENT PART P/N N/A REV SER NO.	9. SOURCE: Supplier	10. CONTRACTOR/SUPPLIER: ITE Gould	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER	IR NO. R-1.00-3520 NO. E-7 Rev. 3	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 (X) Eng ( ) H E D

16. NONCONFORMING CONDITION:

Specification E-7 Rev. 3 para 10.0 states: "The method of preparation for shipment shall adequately protect the control centers and all accessories against injury caused by corrosion, dampness, breakage, or vibration that might be encountered during transportation and handling. Packaging shall prevent tampering or pilfering and shall be acceptable to transportation companies." Contrary to the above, MCC-2B23 Sections 1, 2, 3, 4, & 5 was delivered to the jobsite with the top

Cont. on Page 2

17. REPORTED BY: John E Kelly DATE: 7-28-78

18. VALIDATED BY: A W Barclay DATE: 7/28/78

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

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

Vendor to replace damaged parts. Field to install per vendors instructions. ~~Vendor to inspect per "Q" requirement.~~ das 1/16/79

Obtain parts for rear section repair from MCC2B43. Remaining parts will be installed when recieved for MCC2B23 & 2B43 ~~disposition~~

Bruce Matthews 6-1-78

Bruce Matthews 1-16-79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
X			

C W Fort 8/11/78
PROJECT FIELD ENGINEER DATE

Project Engineering 1-15-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Damaged Parts have been replaced & Complete
R.F. Gabrielek 5/24/79

26. QC ACCEPTANCE
QC ENGINEER DATE 5/24/79

AUTHORIZED INSPECTOR DATE

8007270005

2 pgs

Block 16 Continued

crushed as shown in Attachment "A".

"Q" number is 3.104. Hold pending final disposition. 1 hold tag(s) applied to the nonconforming item(s)

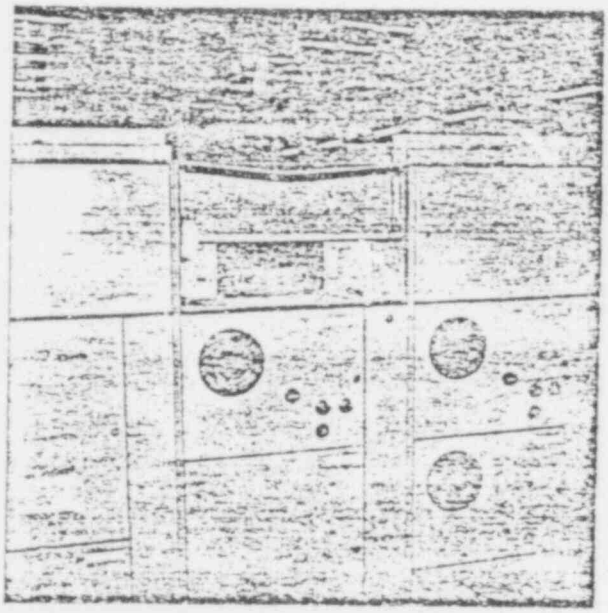
Block 16 con't.
A conditional release has been granted to allow installation of Motor Control Center 2B23. Corrections or removal can be accomplished without causing damage or contamination to associated plant equipment or structure.

J J Chamberlain 1/16/79
QAE DATE

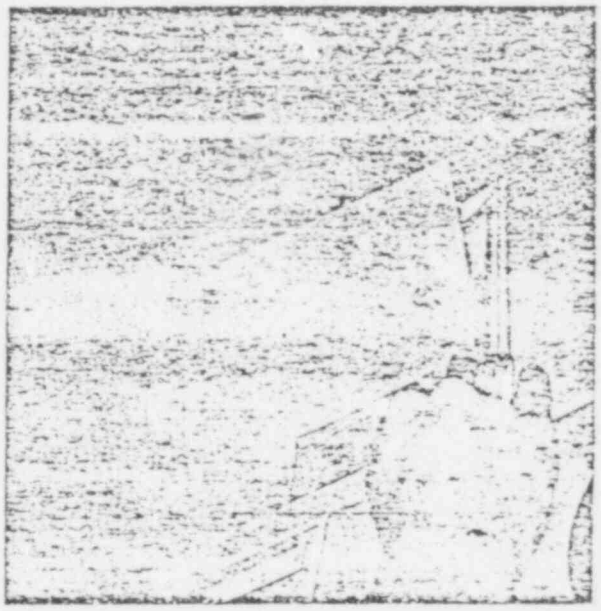
W C Berclay 1-16-79
PFQCE DATE

W D Smith 1-16-79
PQAE DATE

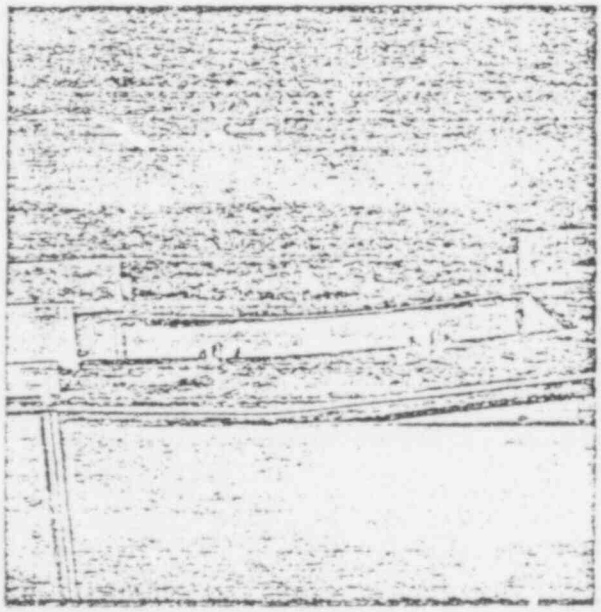
ATTACHMENT "A"
NCR 2425
PAGE 3 OF 3



DAMAGE TO TOP OF SEC 3 MCC 2323 CRUSHED. FRONT PANEL REMOVED SURROUNDING DOORS JARRED OUT OF ALIGNMENT



= DAMAGE TO TOP FRONT PANEL SEC. 3 MCC 2323



Damage look from rear of panel. MCC-2323

270 007

NONCONFORMANCE REPORT SM Non-Fasteners Welds

1. PROJECT NAME	JOB NO.	19. NO. 1479	20. PAGE 1 OF 3
Midland	7220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
Common	F-7220-C233A-F-28362-30-1, 31-1	N/A	Mainsteam Anchors & Restraint Supports	Poseyville, Grid L93

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
7220-F-28362 Rev. 5	See Blk. 16	P/N N/A REV SER NO. 3575, 3595	Supplier	Schreiber Manufacturing Company, Inc.

11. INSPECTION CRITERIA	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG (X) SPEC ( ) OTHER IR NO. R-1.00-3574 NO.	( ) YES (X) NO	( ) YES (X) NO	(X) Rec'g ( ) Const ( ) Test	( ) Client ( ) Eng (X) FLD

16. NONCONFORMING CONDITION:

1. Specification 7220-C-233 Rev. 13 para. 7.2 states in part: "Details, fabrication, shall be in accordance with the drawings. ..... Welded joints shall be made in accordance with Code for Welding in Building Construction, AWS D1.1-72, and Section on Welded Joints of AISC Manuel of Steel Construction." Contrary to the above, three beams were delivered to jobsite in the condition described in Attachment "A".

Continued on Page 2

17. REPORTED BY: John R Alli Jr DATE: 8-14-78

18. VALIDATED BY: A.A. Fortier for W.E.D. DATE: 8/17/78

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

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

2. Supplier Quality Representitive to obtain correct documentation from Vendor.

1. Field to repair the welds and weld splatter in accordance with Specification C-304. Steve Harvey 8-21-78 J P Bello 8-21-78

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
X			

J Boor 8-22-78
PROJECT FIELD ENGINEER DATE

W A Fortier 8-22-78
PROJECT ENGINEER DATE
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Item 2: Corrected Quality Verification Documentation has been received and reviewed for all beams. John R Alli Jr 8-22-78

ITEM 1: ALL WORK WAS ACCOMPLISHED AND FOUND SATISFACTORY. WELDING WAS DOCUMENTED ON QCIR C304-939W. J C Hudson 5/17/79

26. QC ACCEPTANCE [illegible] 5-17-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

Continue Block 16

2. Specification 7220-C-233 Rev. 13 Appendix A para. 3.0 states in part: "The Seller/Subcontractor shall furnish documentation in accordance with the specification as summarized and directed by Form G-321-D." Contrary to the above, the Quality Verification Documentation Packages have been supplied in the following conditions:

A. Data Package for Beams B2-1, B2-2, 2B2-1, 2B2-2, 2B1-1, 2B3-1.

1.) The documentation present in the Data Package does not agree with the summary supplied on the G-321-D for document categories 17.1, 17.4, 25.0.

2.) MTR's for Heat No. IT 7872-3W1 and IT 7872-4W1 are illegible.

3.) Document category 17.2 on Form G-321-D was initial in Column 9 by the Shop Inspector, but in Column 8 the supplier has left it blank.

4.) The Certificate of Conformance for Nondestructive Examination states that Ultrasonic and Magnetic Particle tests are in accordance with Bechtel Specification 7220-C-233 Rev. 14. However the Purchase Order 7220-F-28362 Rev. 5 requires the work to be done in accordance with Specification C-233 Rev. 13 with SCN C-233-8002.

B. Data Package for Beams B1-1, 2B1-2, B3-1, B3-2, 2B3-2.

1.) The documentation present in the Data Package does not agree with the summary supplied on the G-321-D for document categories 17.1 and 17.4.

2.) Document Category 17.2 on G-321-D was not filled out by supplier or initialed by the Shop Inspector.

3.) MTR's for Heat No. IT 7872-3W1 and IT 7872-4W1 are illegible.

4.) The certificate of conformance for Nondestructive Examination references Bechtel Specification C-233 Rev. 14 where as the Purchase Order F-28362 Rev. 5 requires only Spec. C-233 Rev. 13 with SCN C-233-8002.

C. Data Package for Beams B1-2, B1-3, B4-1, B4-2, B4-3, B4-4, 2B4-1, 2B4-2, 2B4-3, 2B4-4.

1.) This Data Package has the discrepencies noted for the Data Package itemized under paragraph B.

"Q" numbers are 4.311 and 4.321. Hold pending final disposition. 21 hold tag(s) applied to the nonconforming be ns.

270 009

Attachment "A"
NCR # 147 Page 3 of 3

FIELD INSPECTION REPORT

3. RECORD CONTROL
CONTROL NO. _____
FILE NO. _____

1. PROJECT NO. 07220 2. DATE 8/10/78 PAGE _____ OF _____

4. ITEM INSPECTED THREE SHIPMENTS OF STRUCTURAL STEEL BEAMS AND MISCELLANEOUS STRUCTURAL SHAPES FABRICATED BY SCHREIBER MANUFACTURING CO., INC. AND DELIVERED TO THE POSEYVILLE LAYDOWN RECEIVING AREA (E-2836R-Q) ON SHIPPER'S ORDER NO. 11972. DELIVERY DATE 8/7/78 PER TOM HENDERSON.

5. LOCATION POSSEYVILLE LAYDOWN AREA

6. TYPE OF INSPECTION VISUAL AND MEASUREMENT 100%.

7. STANDARD / CODE / PROCEDURE / DRAWING / SPECIFICATION G-27, C-304 AND AWS-D1.1

8. INSPECTION EQUIPMENT USED FILLET WELD GAGE

270 010

9. RESULTS OF INSPECTION: SATISFACTORY ☐ UNSATISFACTORY ☒ (3 BEAMS ONLY)

10. ACTION TAKEN IF UNSATISFACTORY
BEAM NO. 2B1-1 ① TWO(2) FPGW'S ARE NOT FLUSH WITH THE PARENT METAL IN THE GUSSETS. EACH UNACCEPTABLE WELD IS ½" LONG.
② WELD SPLATTER WAS NOT REMOVED IN AREAS SURROUNDING GUSSETS PRIOR TO PAINTING.
BEAM NO. 2B1-2. ① WELD SPLATTER WAS NOT REMOVED IN AREAS SURROUNDING GUSSETS PRIOR TO PAINTING.
BEAM NO. 2B1-1 ① ONE(1) VERTICAL WELD 2-8" LONG HAD WELD SPLATTER THAT WAS NOT REMOVED PRIOR TO PAINTING.
B. C. RECEIVING IS IN THE PROCESS OF TAKING CORRECTIVE ACTION.

Distribution:
White – QC Files
Canary – Originator

11. ENGINEER A. W. Wilson
QC Welding Eng.

2514 (7-73) QC-GT-1

NONCONFORMANCE REPORT

270 011 S/A 152-SEH

1. PROJECT NAME	JOB NO.			19. NO. 1506	20. PAGE 1 OF 3
Midland	7220				
2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION	
Common	See Block 16	N/A	Emergency Diesel Oil Day Tank	Poseyville, OpE	
6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER	
7220-M-61-AC Rev. 10	See Blk. 16	P/N N/A REV SER NO.	Supplier	Richmond Engineering Company, Inc.	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC (X) OTHER	IR NO. R-1.00-3548 NO. See Blk. 16	12. ASME AUTHORIZED INSPECTION REQ'D (X) YES ( ) NO	13. SKETCH ATTACHED (x) YES ( ) NO	14. Discovered During (x)Rec'g ( )Const ( )Test	15. Equip Furnished By ( )Client (x)Eng ( )FLD

16. NONCONFORMING CONDITION:

Specification 7220-M-6h Rev. 7 requires Quality Verification Documentation according to Form G-321-B. PQCI-R-1.00 Rev. 7 requires documentation required by Form G-321-B to be available, legible and traceable. Contrary to the above.

Item 1. The documentation packages, for the tanks listed below, each contain an illegible copy of the Certified Material Test Report from Alan Wood Steel Company

Cont. on Page 2

17. REPORTED BY: Dean A. Delaney DATE: 8/30/78

18. VALIDATED BY: R M Baley DATE: 8-31-78

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

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

(1) Procurement Supervisor to obtain legible documents.

(2) Procurement Supervisor to obtain corrected charts or documents.

R M Baley 8-31-78
A Ward 9/1/78

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

C Boor 9.1.78
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

R M Baley 9-5-78
PROJ CONSTR QC ENGINEER DATE

A L Miller 9-5-78
AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

CORRECTED DOCUMENTATION RECEIVED & ACCEPTED.
Dean A. Delaney 5/16/79

26. QC ACCEPTANCE
Dean A. Delaney 5/16/79
QC ENGINEER DATE
A L Kelsay 5/23/79
AUTHORIZED INSPECTOR DATE

Block 16 Continued

with Ht. # 41061. (See attachment "A")

Item 2. Heat Number Chart for tank part number N-2204.80 shows the heat number for the Shell Course to be 402B1571 and for a 2" slip on flange to be GDGZ, however the CMTR's indicate the heat numbers to be 402F1571 and GBBZ, respectively.

The Heat Number Charts for tanks N-2204.60 and N-2204.70 have the same heat number problem for the Shell Course material as does tank N2204.80.

Item No.	Part No.	National Board No.
1T-77A	N-2204.50	76039
1T-77B	N-2204.60	76040
2T-77A	N-2204.70	76041
2T-77B	N-2204.80	76042

"Q" number is 4.526. Hold pending final disposition. 4 hold tag(s) applied to the nonconforming item(s).

LAN WOOD STEEL COMPANY
TESTING LABORATORY

BUYER'S ORDER [illegible] SHIPPED [illegible]

TEST RECORD OF 1" PLATES IN FVQ ASTM A-285 GR C SHRD EDGE XII STEEL

A.W.S. CO'S. ORDER NO. P-3734 FURNISHED RICHMOND ENGINEERING COMPANY

HOLYOKE, PA 13 November 19 75 SHIPMENT NUMBER 10446-51 CAR RECO

HEAT NO	CHEMICAL ANALYSIS CARBON	MANGANESE	PHOSPHORUS	SULPHUR	SI				YIELD PER SQ. IN. POUNDS	T.S. PER SQ. IN. POUNDS	% ELONG. 2"	% ELONG. 8"	BEND TESTS	SLAB NO.	REPRESENTS
41061	.16	.41	.003	.030	.03	mk	4-1,4-6,4-7, 5-1,5-6,5-7,30,	30-1	34300	58400		26.0	OK	1302	3plts 3/3 X 97 X 250
* DARKENED FOR REPRODUCTIVE PURPOSES ONLY, 5-3-78. Paul D. Casey RECO QA Receiving Inspection									36200	59200		26.0	OK	1303	3plts Ditto
									36700	59400		26.0	OK	1304	3plts Ditto

Heat # 41061
Slab # 1303

NUCLEAR MATERIAL
DOCUMENT REVIEWED AND ACCEPTED
DATE: 5-3-78 BY: P. D. CASEY QC

We certify that [illegible]

SECTION 226

PAGE 9A

I HEREBY CERTIFY THAT THE ABOVE FIGURES ARE CORRECT AS CONTAINED IN THE RECORDS OF THE COMPANY

James W. Yerkey
METALLURGICAL ENGINEER

FORM NO. 42-11-17

Attachment "A"
NCR # 1506
Page 3 of 3

X

Corrected Copy

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 1557	20. PAGE 1 OF 2
2. UNIT(S): Common	3. DRAWING/PART NO.: C-127	REV: 3	4. ITEM DESCRIPTION: Misc. metal-tank farm enbeds	5. ITEM LOCATION: Poseyville Laydown Area	
6. P.O. OR SPEC NO.: C-233	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N ____ REV N/A SER NO. ____	9. SOURCE: Construction	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA (X) DWG ( ) SPEC ( ) OTHER IR NO. N/A NO. C-127	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:

Drawing C-127 Rev. 3 list misc. metals as "Q".
Contrary to above the angle embeds for the valve Pit 1 & 3 roof slabs were field procured and fabricated per the Non Q section of specification 7220-C-233 Hold for Eng. Disp. Q list #1.003 2-HOLD TAGS APPLIED

17. REPORTED BY: Jerry Morris DATE: 9/20/78

18. VALIDATED BY: DATE: 11-8-78 9-21-78

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

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

EARLY LEQUESTED BY 9/18

The welds for these embeds were inspected by field engineering and found to be satisfactory. Field engineering recommend to "use as is".

9-21-78

9-21-78

23. PROJECT ENGINEERING DISPOSITION

Since Field Engineering's inspection indicates that the welds are satisfactory, the Class I piping in this area will not be affected. Therefore, Project Engineering concurs with the Field Engineering Recommended Disposition to "Use As Is."

Project Engineering has evaluated the conditions described in Blocks 16 and 22 and has determined that the non-Q embeds are acceptable

(Cont. on Page 2)

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

PROJECT FIELD ENGINEER DATE 12-7-78 10-16-78

PROJECT ENGINEER DATE 10-13-78

PROJ CONSTR QC ENGINEER DATE 10-17-78

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

REPAIR IS COMPLETE & SATISFACTORY PER QCER# C-2.20-717 QCIR# C-5.10-355 REM# C-1935

Albert Kenneth 1-12-79

REPAIRS WERE ACCOMPLISHED PER BLOCK 23. DISPOSITION AND REM C-1935 AND DOCUMENTED ON QCIR C 304-1058W.

1-12-79

26. QC CONCURRENCE 10/18/78

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

(Block 23 Cont.)
and that the Class I piping in this area will not be affected. Therefore, Project Engineering concurs with the Field Engineering recommended disposition to "Use As Is."

M D Rowa 10-10-78 R Schulman 10/13/78

Block 23 Project Engineering Disposition:
Project Engineering has revaluated the condition described in Blocks 16 and 22 and recommends that Field Engineering document the angle embeds with mill certs and that Quality Control inspect mill certs/embed welds. Project Engineering has determined that the angle embeds are in a low stress area and that the Class I piping in this area will not be affected. Project Engineering concludes that the angle embeds are acceptable and concurs with the Field Engineering disposition to "Use As Is"

REM C-1878 J. Hartman Jr. 12-6-78 R Schulman 12-6-78

TITLE: CONDITIONAL RELEASE
ANGLE EMBED FOR VALVE PIT NO 3 WILL BE REPAIRED PER REM C-1935, AND DRAWING C-144 REV. 6. ITEM WILL BE REPAIRED IN ON SITE COMBINATION SHOP & HENCE IT IS FULLY RETRIEVABLE

Corrected Copy

12-27-78
FFC

T.F. Bereday 12/27/78
PGCE

12-27-78
QA

CONFORMED COPY

NONCONFORMANCE REPORT (CONT'D)

1. PAGE 3 OF 10 (CPS 533) 14. NCR NO 1557

24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS
			X

C. T. Fuller — 12-7-78
PROJECT FIELD ENGINEER — DATE

R. R. Brauman/RLC — 12-6-78
PROJECT ENGINEER — DATE

[illegible] — 12-8-78
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

MIDLAND PROJECT

RESIDENT ENGINEER MEMORANDUM

NCR # 1557
pg 4 of 86 ccs 5-25-79

RE- C-1935

DATE 12-27-78

SUBJECT: FIELD ERECTED TANKS
ANGLE EMBEDS

REF: NCR 1557, DWG. C-127

AAO COORDINATION: Date ___ /Time ___ /AAO Contact ___

PROJECT ENGINEERING HAS EVALUATED THE ATTACHED FIELD ENGINEER'S REPORT AND HAS FOUND ITS CONTENTS TO BE ACCEPTABLE.

ATTACHMENTS:

1 PAGE FIELD ENG'RS REPORT BY J. MORRIS DATED 12-26-78.

RESIDENT ENGINEER J. Kautsman Jr.

---

270 017

AAO Review: Group Supervisor ___

Date: ___

FIELD ENGINEER'S REPORT FORM

NCR # 1557
MIDLAND UNITS 1 & 2
MJ 5-1576
CRS 5-2577

JOB 7220 DATE 12-26-78 PAGE 1 OF 1

ITEM NO.	INSPECTION DESCRIPTION	ACTION REQUIRED/TAKEN
1	FIELD ERECTED TANKS DRAWING P-127(Q) REV. ANGLE EMBEDS FOR VALVE PITS 1 & 3 NCR 1557	RES. ENGR. J. Hartman Jr. 12-27-78 REM C-1935
	THE ABOVE MENTIONED ANGLE EMBEDS WERE INSPECTED BY CIVIL FIELD ENG., WELDING FIELD ENG., Q.C. WELDING INSPECTION AND RESIDENT ENGINEERING.	
	THE ANGLE EMBED FOR VALVE PIT No. 1 WAS FOUND TO BE SATISFACTORY	
	THE ANGLE EMBED FOR VALVE PIT #3 HAS QUESTIONABLE WELDS; 2-DECK STUDS AND 4 OF THE 3/16" FILLET 1½" LONG @ 8" OC.	
	THE EMBED FOR PIT #3 WILL BE TAKEN TO THE COMBO SHOP AND BE REPAIRED AS REQUIRED. THE DAMAGED GALVANIZING WILL BE PAINTED WITH GALVANOX.	

REMARKS:

270 018

Jerry Wilson
SIGNATURE

ROUTE
J. DEAN
J. BETTS
B. CHEEK
FILE

BLOCK 25 CONT.
REVIEW OF MILL CERTS HAS BEEN COMPLETED BY Civil QC.
S. Gilbreath 5/23/79

BLOCK 26 CONT.
5/23/79
QC ACCEPTANCE BY

270 010

NONCONFORMANCE REPORT

270 020 Sht 1-BFC 2 KCB 10-B 79

1. PROJECT NAME: MIDLAND	JOB NO. 7220-1-7 E1			19. NO. 1578	20. PAGE 1 OF 1
2. UNIT(S): 1	3. DRAWING/~~PART NO~~: Dwg M-4	REV: 8	4. ITEM DESCRIPTION: MAKE-UP TANK #1T-58	5. ITEM LOCATION INSTALLED: Aux. Bldg. El. 614'	
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 (X) OTHER IR NO. N/A NO. N/A	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: During routine inspection the lower boss on the west side of 1T-58 was found uncovered. Further investigation revealed two (2) bolts and other debris on the inside of the internal pipe that attaches to the boss. One of the bolts was removed by the Q.C.E.

Q. No. 4,039 ONE HOLD TAG AFFIXED TO TANK

17. REPORTED BY: C.R. Fugate DATE: 10-6-78 (FR)

18. VALIDATED BY: KAP 10/10/78 T.H. Barclay DATE: 10-9-78 10-6-78

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

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

Lower Boss on the west side: Remove remaining bolt. To clean out the loose debris, tape a piece of small tubing in the end of a vacuum cleaner hose and vacuum out the pipe. Recover the opening. This will reinstate class C cleanliness. 10-10-78

Boss on the south side: redress damaged thread and ~~recover the opening~~ remove plastic cap in pipe, and recover the opening.

23. PROJECT ENGINEERING DISPOSITION: D. Short 10/10/78 T.D. MacDonald 10-10-78

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
X			

C.J. Ross 10/10/78
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE
T.H. Barclay 10-12-78
PROJECT CONSTRUCTION MGR DATE

H.W. Kelton 10-12-78
AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS: The remaining bolt that was in the lower boss on the west side of the tank has been removed by Q.C. C.R. Fugate 5-22-79. The boss of the west side has been cleaned to class "C" cleanliness. The plastic cap has been removed from the south boss. The damaged thread has been redressed. Both bosses are sealed shut. C.R. Fugate 5-22-79

26. QC ACCEPTANCE C.R. Fugate 5-23-79
QC ENGINEER DATE
AUTHORIZED INSPECTOR DATE

Block 16 (CONTINUED).

UPON INSTALLATION OF THE hold Tag ON IT-58, IT WAS NOTED THAT AN ADDITIONAL BOSS ON THE SOUTH side OF IT-58 had BEEN UNCOVERED SINCE THE PREVIOUS INSPECTION. INVESTIGATION REVEALED THAT A PLASTIC CAP has BEEN Pushed BACK INTO THE BOSS APPROXIMATELY 1½ INCHES. THERE IS A NICK (gouged AREA) ON THE FIRST THREAD OF THE BOSS.

27022

Charles R. Fugate 10/9/78
10-9-78

Corrected Copy

NONCONFORMANCE REPORT

Corrected Copy

1. PROJECT NAME	JOB NO.	19. NO. 1588	20. PAGE 1 OF 1
Midland	7220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
1	1P-05A		Elec. Driv. Aux. F.D. Water Pump 1P-05A	Aux. Bldg Elev 534

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE	10. CONTRACTOR/SUPPLIER
N/A	N/A		Construction	N/A

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. M-2.00-11 CS 1/3 NO. 7220 M14-4-8	(X) YES ( ) NO	( ) YES (X) NO	( )Rec'g (X)Const ( )Test	( )Client (X)Eng ( )FLD

16. NONCONFORMING CONDITION: The Two (2) outboard motor mounting holes have been drilled approx. ½ inch off location. The holes have been tapped.

D" List No. 4.382 1 Hold Tag Affixed To Rep

17. REPORTED BY (Castagneto) DATE 10-16-78 — 18. VALIDATED BY (Shelley) DATE 1-25-79 (Shelley) 10-16-78

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

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

Correct mis-located mounting holes as follows:
a) Check and record flatness of base plate at hole location. b) Drill out holes to 1⅛" c) Weld backing plates to bottom of holes per Fig.A d) Fill in holes with weld metal, use weld procedure P1-A-LH. e) Grind top of holes to flatness recorded in step "a". f) Redrill and tap holes per installation manual. Ref. TWX dated 12/28/78. Skip Augusto 1/5/79

23. PROJECT ENGINEERING DISPOSITION Dale Short 1/5/79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
X			

QC Engineer 1-25-79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE 3-28-79
PROJ CONSTR QC ENGINEER DATE 5-12-79

AUTHORIZED INSPECTOR DATE

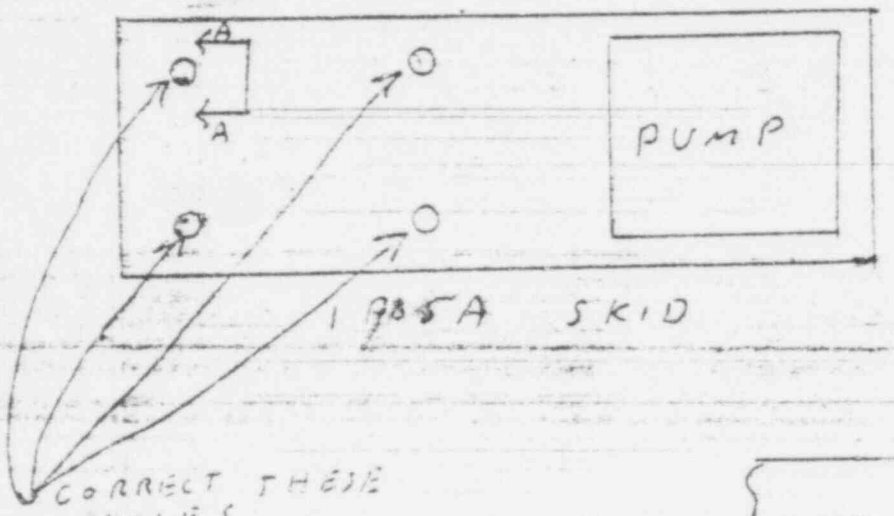
28. DISPOSITION RESULTS

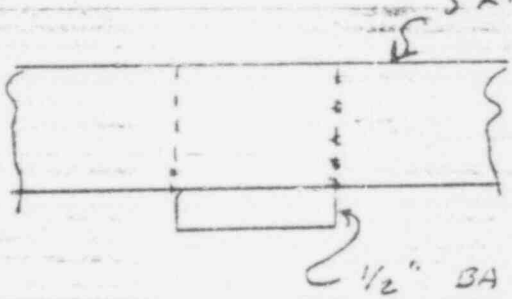
REWORK COMPLETED SATISFACTORILY PER Block 22
M Gibson
5-11-79

26. QC ACCEPTANCE M J Gibson 5-11-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

Processed Copy





VIEW A-A

270 023

FIG A

NCR # 1586
PAGE 2 OF 2
FILE 25-79

[redacted]

4(I) m-14

Ship Side

Telex/TWX
western union

BECHTEL 11DL

BING WILL DV
12/23/78
ATTN: MR. SKIP SCHNEIDER
REF: P.O. 7220-[redacted]
DWG 15210276

CONFIRMING PREVIOUS TELECONS, WE ACKNOWLEDGE THAT
THE OUTBOARD "MOTOR MOLE DOWN BOLTS HAVE BEEN
DRILLED "OFF PROPER LOCATION."

WE CONCUR WITH YOUR INTENDED CORRECTION OF FILLING THE
EXISTING HOLES WITH WELD METAL AND REDRILLING IN THE
PROPER LOCATION USING APPROVED
PROCEDURES, QUALIFIED WELDERS, AND APPROPRIATE WELD
METAL (A36-W74). APPROPRIATE MOD TO ACCOMODATE YOUR SITE NEEDS
SHOULD BE DIPLOMED.

R. LOGAN
DIAMAN-WILLAMETTE COMPANY

BING WILL DV

BECHTEL 11DL

270 024

Approved/Corrected Copy

NCR # 1588
PAGE 3 OF 4
Att. 1-2579
6 sheets

NONCONFORMANCE REPORT (CONT'D) 20PAGE 4 OF 6 19NCR NO 1588

BLOCK #16 CONTINUATION:

CONTRARY TO BLOCK #22 DISPOSITION, ALL FOUR (4) MOTOR MOUNTING HOLES HAVE BEEN DRILLED OUT INSTEAD OF THE TWO (2) HOLES AS SHOWN IN FIGURE "A". ALSO, NEITHER THE VENDOR'S INSTALLATION MANUAL OR TWX (DATED 12-28-78) SPECIFY REQUIRED SIZE OF MOUNTING HOLES.

C. Malala
1-25-79

270 025

Block 22 Con't.

Feedwater pump motor holdown bolts should be 3/4" A-193B5 or better per attached TWX. Field determined that all four mounting holes were mislocated. Corrective action was taken and sketch was revised.

A. Lyz Schmidt 3/27/79
D. Short 3/27/79

Corrected Copy

Block 16 Con't.

A conditional release has been granted to allow grouting of subject pump. Corrections or removal can be accomplished without causing damage or contamination to associated plant equipment or structure.

C. J. Doe 1-6-79
PEE DATE

W. T. Beasley 4/6/79
PEOCE DATE

N/A W. T. Beasley 4/6/79
POAE DATE

TELEX/TWX
western union

BECHTEL MIDL

BECHTEL ARB
810-223-6002 CLG 810-266-9497
TWX 4391 3/6/79 10:01

ATTN: J.F. NEWGEN
BEBC-2744
SUBJECT: CPCO/MIDLAND PLANT JOB 7220
AUXILIARY FEEDWATER PUMPS INSTALLATION
FILE: 0274, M-14
REFERENCE: 1) BCBE-2156-R DATED 1/29/79
2) BCBE-2180-R DATED 2/14/79

REGARDING REFERENCE 1, BINGHAM-WILLAMETTE HAS ADVISED THAT MOTOR HOLDDOWN BOLTS FOR AUXILIARY FEEDWATER PUMP MOTORS SHOULD BE 3/4-INCH A-193 B5 OR BETTER.
BINGHAM-WILLAMETTE AGREED TO DRILLING 1/4-INCH DIAMETER HOLES IN THE AUXILIARY FEEDWATER PUMP BED PLATES TO FACILITATE GROUTING AS REQUESTED IN REFERENCE 2.

M ROTHWELL FOR
RL CASTLEBERRY
ANN ARBOR/7PE2118/7220-001/ER

BECHTEL MIDL
0

270 026

FIELD INSPECTION REPORT

3. RECORD CONTROL
CONTROL NO.
FILE NO.

1. PROJECT NO. 7220 2. DATE 4-26-79 PAGE 1 OF 6

4. ITEM INSPECTED
ELECT DRIVEN AUX FEEDWATER PUMP 1P-25A

5. LOCATION
AUX BLDG EL 584

6. TYPE OF INSPECTION
CHECKING FLATNESS

7. STANDARD / CODE / PROCEDURE / DRAWING / SPECIFICATION OTHER
STEP "A" OF FIELD ENGINEERING DISPOSITION FOR NCR 1588

8. INSPECTION EQUIPMENT USED
MACHINIST LEVEL AND FEELER GA.

9. RESULTS OF INSPECTION: SATISFACTORY ☐ UNSATISFACTORY ☐

270 027

10. ACTION TAKEN IF UNSATISFACTORY

.003 ROLL	○	.005 ROLL
.008 PITCH		.0065 PITCH
.015 WILL NOT GO	○	.015 WILL NOT GO
PUMP ←		
.LESS .015 ROLL	○	.005 ROLL
.0095 PITCH		.0[illegible] PITCH
.002 WILL GO	○	.002 WILL GO

Distribution:
White – QC Files
Canary – Originator

11. ENGINEER M. Gibson

2514 (7-73) BBS FORM 12999-1 QC-G1-1

X

NONCONFORMANCE REPORT

QA Std N/A 1596

1. PROJECT NAME: Midland Project		JOB NO.: 7220		19. NO. ~~1596~~	20. PAGE 1 or 2
2. UNIT(S): R/B #1&2	3. DRAWING/PART NO.: C233A-3103-84	REV: 4	4. ITEM DESCRIPTION: Misc. structural steel beam		5. ITEM LOCATION: Containment 2
6. P.O. OR SPEC NO.: C233 (Q)	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: Wiltse Co.	
11. INSPECTION CRITERIA (X) DWG ( ) SPEC ( ) OTHER IR NO. N/A NO C233A-3103-84		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: Section 7.1 to Spec. C-233 (Q) Rev. 14 states in part "pieces shall be cut, formed and shaped to sizes and work points shown on the drawings... . Contrary to this, one beam "10B3" (a 1 of 16 marked 10B3) was fabricated as shown on the attached sketch. This does not agree with the fabrication detail drawing C-233A-3103-84-4.

17. REPORTED BY: A. Williams DATE: 10/18/78

18. VALIDATED BY: T. Burchby DATE: 10-23-78

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

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

Reject: Return beam "10B3" to the vendor for re-fabrication.

A. Williams 10/29/78
J. F. Betts 10/29/78

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
	X		

PROJECT FIELD ENGINEER: [signature] DATE: 10/29/78

PROJECT ENGINEER: DATE:

PROJ CONSTR QC ENGINEER: for T. Burchby DATE: 10-25-78

AUTHORIZED INSPECTOR: DATE:

25. DISPOSITION RESULTS

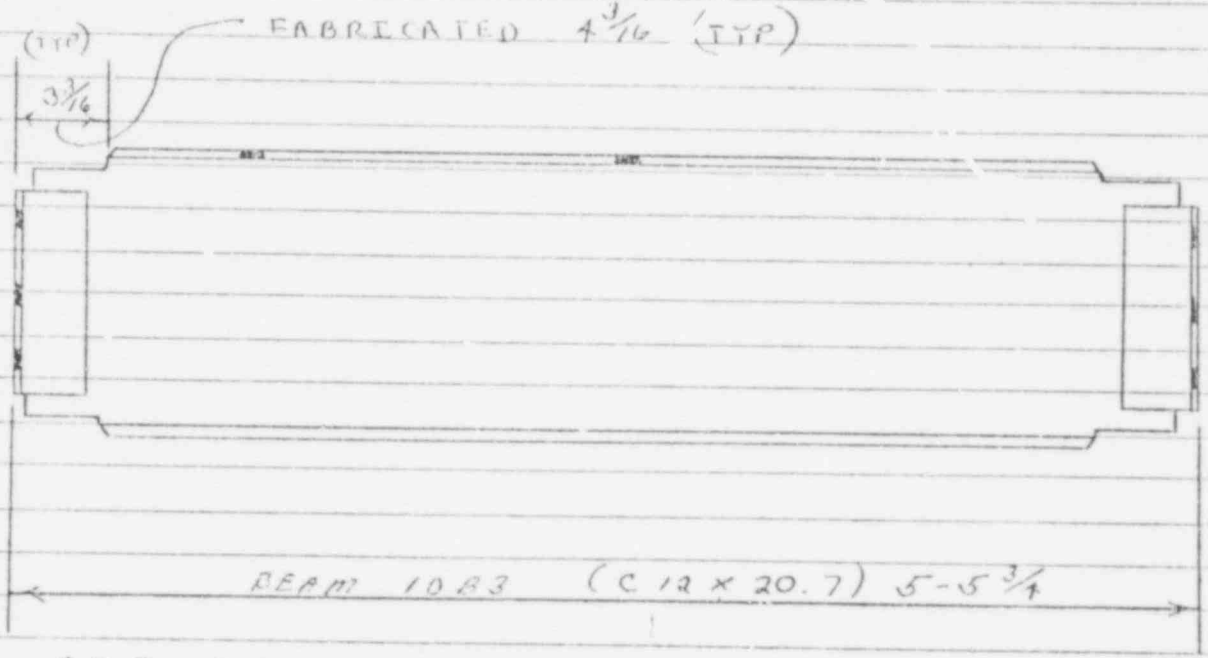
Inspected & Accepted per QCIR C-2-10-C654-76. 39 5/21/79

26. QC ACCEPTANCE: S. Gehl 5/21/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

BECHTEL

NONCONFORMANCE REPORT (CONT'D) 1. PAGE 2 OF 2 14. NCR NO 1596



REF. DRAWING C-233A-3103-84-4

270 028

10098-2

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

QC-G3-3

NONCONFORMANCE REPORT

S/U N/A 330

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 1606	20. PAGE 1 OF 2
2. UNIT(S): Indeterminate	3. DRAWING/PART NO.: See Block 16	REV: N/A	4. ITEM DESCRIPTION: Instrument Valve Manifolds	5. ITEM LOCATION: Q.C. Hold, Whse. # 1	
6. P.O. OR SPEC NO.: 7220-J-260-AC Rev. 3	7. SERIAL NO.: See Blk. 16	8. REPLACEMENT PART P/N N/A REV SER NO.	9. SOURCE: Supplier	10. CONTRACTOR/SUPPLIER: Dragon Valves, Inc.	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER — IR NO. R-1.X0-3869 NO. J-705 Rev. 4	12. ASME AUTHORIZED INSPECTION REQ'D (X) YES ( ) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During (X) Rec'g ( ) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FLD	

16. NONCONFORMING CONDITION:

Specification 7220-J-705 Rev. 4 requires Quality Verification Documentation in accordance with Form G-321-D. The Quality Verification Documentation supplied for the valves listed below, contain the following discrepancies:

1. Valve item # 4.9, tag # 5M632GH2, S/N's DH 1936-DH 1945 - The CMTR for the valve body shows Ht. # A 16488 while the Assembly Process Sheet, the Code Data Report and the Manufacturing Process Sheet lists the body heat number as X 16488.

Con't on Page 2

17. REPORTED BY: Dean A Delaney — DATE: 10/25/78

18. VALIDATED BY: D E Barclay — DATE: 10-27-78

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

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

Procurement Supervisor is to obtain corrected documentation from the vendor.

R J Hogg 10-30-78

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
DD			

PROJECT FIELD ENGINEER: D E Barclay — DATE: 10/30/78

PROJECT ENGINEER — DATE

PROJ CONSTR QC ENGINEER: D E Barclay — DATE: 11-1-78

AUTHORIZED INSPECTOR: H W Kelley — DATE: 5/23/79

25. DISPOSITION RESULTS

DOCUMENTATION RECEIVED AND ACCEPTED.
Dean A Delaney 5/24/79

26. QC ACCEPTANCE

QC ENGINEER: Dean A Delaney 5/24/79 — DATE

AUTHORIZED INSPECTOR: H W Kelley 5/23/79 — DATE

NONCONFORMANCE REPORT (CONT'D) 051 20PAGE 2 OF 2 19NCR NO 1606

270

Block 16 Continued

2. Valve item # 4.13, tag# 5M8582GN2, S/N's DM 1946 - DM 1970 - Documentation for these valves contain the same discrepancies as noted in item 1, plus the wrong Part Number is reported on the Acceptance Test Data Report.

"Q" number is 5.0117. Hold pending final disposition. / hold tag(s) applied to the nonconforming item(s).

0

NONCONFORMANCE REPORT

All Sht Systems Using 7/123B Addenda

1. PROJECT NAME: MIDLAND	JOB NO.: 7220				19. NO. 1663	20. PAGE 1 OF 1
2. UNIT(S): N/A	3. DRAWING/PART NO.: SEE BLOCK # 16	REV: N/A	4. ITEM DESCRIPTION: TARGET ROCK VALVE USING LIMITORQUE ACTUATORS			5. ITEM LOCATION: WAREHOUSE #2
6. P.O. OR SPEC NO.: 7220 M 123 A(Q)	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE: PROCUREMENT	10. CONTRACTOR/SUPPLIER: TARGET ROCK		
11. INSPECTION CRITERIA: ( ) DWG ( ) SPEC (X) OTHER IR NO. N/A NO QA FLYER 78-16	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: LIMITORQUE CORPORATION STATES THAT ALL VALVE MANUFACTURERS, AFTER MATING VALVE WITH LIMITORQUE ACTUATORS OF THE SMB TYPE, SHALL HAVE THE TOP THREAD CRIMPED AND STAKED IN (2) TWO PLACES TO PREVENT THE STEM LOCKING NUT FROM LOOSING. CONTRARY TO THE ABOVE ONE VALVE 2½" - AKA GT-1M0-0110-PRL ON P.O. 7220-M-123B(Q) WAS FOUND TO BE UNCRIMPED AND UNSTAKED. ITEM # 4.1 "Q" LIST ~~NON-CONFORMANCE~~ 4.012 Rev 11-20-78 / HOLD TAG ATTACHED TO VALVE

17. REPORTED BY: M. Julian DATE: 11-20-78

18. VALIDATED BY: RAP 11/20/78 W. J. Barclay for DATE: 11/20/78

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

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

DRJ 11/24/78

Field Engineering to ~~inspect and repair~~ REWORK all SMB Limitorque operators supplied by Target Rock on P.O.7220-M-123B(Q). (Note: that Target Rock previously notified Bechtel that this problem may exist and offered personnel to inspect and repair. Field Enginnering is currently working with Target Rock to establish an inspection date.) Dal Shat 11-27-78

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
X			

PROJECT FIELD ENGINEER: 11/27/78 DATE: 11/27/78

PROJECT ENGINEER: 11/27/78 DATE: 11-27-78

PROJ CONSTR QC ENGINEER: DATE:

AUTHORIZED INSPECTOR: DATE:

25. DISPOSITION RESULTS

ALL TARGET ROCK VALVES ON P.O. 7220-M-123B HAVE BEEN REWORKED SATISFACTORY

M. Julian 5/4/79

26. QC ACCEPTANCE

QC ENGINEER: M. Julian DATE: 5/4/79

AUTHORIZED INSPECTOR: DATE:

P

NONCONFORMANCE REPORT

1. PROJECT NAME: Kay Wd	JOB NO.	19. NO. 1702	20. PAGE 1 OF 1
2. UNIT(S): Unit 1	3. DRAWING/PART NO.	REV.	4. ITEM DESCRIPTION: 10" SHOP FABRICATED PIPE SPOOLS	5. ITEM LOCATION: Unit 1 Roxville Lavinia
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: Procurement	10. CONTRACTOR/SUPPLIER: N/A
11. INSPECTION CRITERIA: ( ) DWG (X) SPEC ( ) OTHER IR NO. NO.	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: ( ) Cbest (X) Eng ( ) FLD

16. NONCONFORMING CONDITION:

Pipe spools [illegible] cleanliness [illegible] on drawing [illegible] Specification M-342, Cleanliness Level A, [illegible] Pipe shall be flushed with grade [illegible] water. Upon completion of flushing, pipe shall be dried with inert gas. When drying is complete, all openings are to be covered. Cleanliness acceptance shall be Class C per M-342(6.3). These directions per spec. M-342, sections 7.6.2, 7.6.3, 7.6.4, 7.6.5, & 4.5

17. REPORTED BY: [signature] DATE: 12/13/78

18. VALIDATED BY: [signature] DATE: 12/13/78

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

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

Pipe to be sent offsite for chemical cleaning. After cleaning, pipe to be flushed with grade I or II water. After flushing, pipe to be dried with inert gas. When drying is complete, all openings are to be covered. Cleanliness acceptance to be class C per M-342(6.3). These directions per spec. M-342, sections 7.6.2, 7.6.3, 7.6.4, 7.6.5, & 4.5

Daily Sheet 12-19-78
[signature] 12/19/78

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
X			

[signature] 12/18/78
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

[signature] 12/21/78
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Two spools sent offsite for cleaning on shipping notice number 6687

[signature]
4-3-79

Spool # 10"B-10-S-631-1-6 Rejected
on DCIC R-109-9340 [signature] 4-11-79
Spool # 10"B-10-S-631-1-9 [signature] 4-10-79

26. [signature] 5-10-79
26. QC ACCEPTANCE [signature] 4-3-79 [signature] 4-11
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

NONCONFORMANCE REPORT

270 034 S/U QA

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 1719	20. PAGE 1 OF 2
2. UNIT(S): Common	3. DRAWING/PART NO.: 7220-M-20-2-4	REV: N/A	4. ITEM DESCRIPTION: Service Water Traveling Screens	5. ITEM LOCATION: (Service Water East Side Building)	
6. P.O. OR SPEC NO.: 7220-M-20 Rev. 3	7. SERIAL NO.: OF55A & B	8. REPLACEMENT PART P/N N/A REV ____ SER NO. ____	9. SOURCE: Supplier	10. CONTRACTOR/SUPPLIER: FMC Corporation	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER	IR NO. R-1.00-4370 NO. M-20 Rev. 3	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED (X) YES ( ) NO	14. Discovered During (X) Rec'g ( ) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION:

Specification 7220-M-20 Rev. 3 para. 3.B.2 states in part "The Seller shall provide protection for the equipment during shipment." Contrary to the above, the chain sprocket shown in Attachment "A" was delivered bent out of alignment with the drive shaft and keyway on the drive shaft gouged out for traveling screen OF55A S/N JK-2882-3-B.

"Q" number is indeterminate. Hold pending final disposition. 1 hold tag applied to the nonconforming item.

17. REPORTED BY: John R Alfaro Jr. DATE: 12-18-78

18. VALIDATED BY: B W Barclay DATE: 12-18-78

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

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

Bent sprocket bracket to be straightened and drive shaft to be filed smooth This will be performed during drive chain installation to assure sprocket alignment.

S Shrivastava 12/20/78
P Ward 12/20/78

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

J D Gilmartin 12/22/78
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

B W Barclay 12/22/78
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

REWORK HAS BEEN COMPLETED SATISFACTORY PER BLOCK 22
M Juliano 5-17-79

26. QC ACCEPTANCE
M Juliano 5/17/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

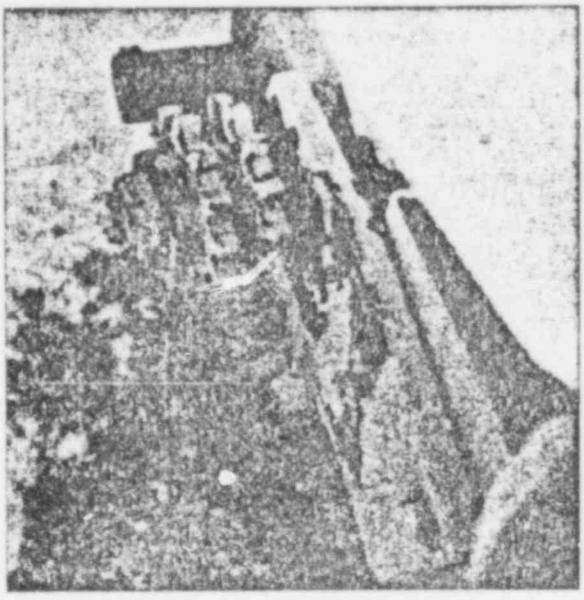
A conditional release has been granted to allow installation of the Service Water Traveling Screens. Corrections or removal can be made without damage or contamination to associated plant equipment or ~~XXXXXXXX~~ Structure.

J. J. Quarles AEO 12/26/78
PQE DATE

OK J. T. Barclay 12/26/78
PFQCE DATE

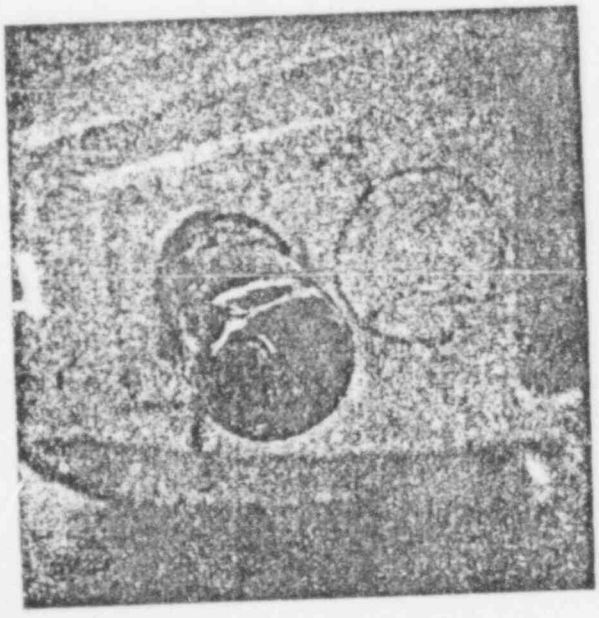
R. W. Prusoch 12-26-78
PQAE DATE

270 035



BENT SPROCKET BRACKET
OFSSA S/N JKZ882-3-B

BENT SPROCKET BRACKET
OFSSA S/N JKZ882-3-B



GOUGED KEY WAY
OFSSA S/N JKZ882-3-B

GOUGED KEY WAY
OFSSA S/N JKZ882-3-B

NONCONFORMANCE REPORT

270 057

1. PROJECT NAME: Midland		JOB NO.: 07220		19. NO. 1762	20. PAGE 1 OF 2
2. UNIT(S): 1&2	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: Engineered Safety Features Actuation System		5. ITEM LOCATION: N/A
6. P.O. OR SPEC NO.: J-207 - AC	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: Automation Industries Vitro Laboratories Div.	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER IR NO. N/A NO. BEBC 2606		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:

Q Material on this PO has been identified by Project/ Quality Engineering to be indeterminate in regards to satisfactorily completion qualification test requirements per spec. J-207.

Q # 5.202. No hold tags applied.

17. REPORTED BY: Robert A Wray DATE: 1-9-79

18. VALIDATED BY: R.F. Barclay DATE: 1-9-79

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

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

Project engineer to evaluate

V K Gruden 1-12-79

23. PROJECT ENGINEERING DISPOSITION DW 4/30 9/6/79 JM Cushman

ADDITIONAL REVIEW OF VENDOR DOCUMENTS BY ENGINEERING CONFIRMS THAT QUALIFICATION REQUIREMENTS HAVE BEEN SATISFIED.

OPEN QUESTIONS ON THE QUALIFICATION TEST REPORTS HAVE BEEN RESOLVED AS INDICATED ON THE ATTACHED.

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

G. Miller PE 5-14-79
PROJECT FIELD ENGINEER DATE

L. Miller for Russell PE 5/14/79
PROJECT ENGINEER DATE

R.F. Barclay 5-18-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE R.F. Barclay 5-15-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

Block 16 Continued.

A conditional release is granted to install the Q Material on this NCR. Corrections or removal can be accomplished without causing damage or contamination to the associated plant equipment or structure.

A. Nuss AIB 1-12-79
PFE Date

T.B. Barclay 1-12-79
PFQCE Date

E. Smith 1-12-79
for LQAE Date

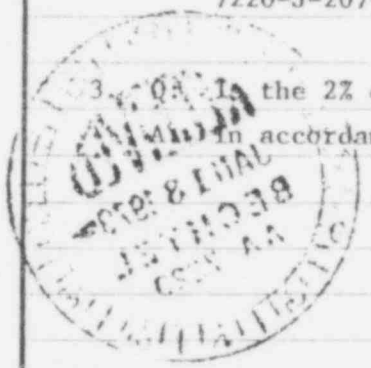
270 039

Block 23 Continued.

1. Q: Do the seismic test procedures require post vibration functional testing?
   A: Vitro Laboratories has submitted an ammendment to the seismic test procedures (7220-J-207-85-3) which reflects the appropriate post vibration functional testing required.

2. Q: Has radiation qualification analysis been performed for the ESFAS? Has it been submitted for review? Is it Acceptable?
   A: Radiation qualification analysis has been submitted by Vitro Laboratories (Vendor document 7220-J-207-225-1) and found acceptable code 1.

3. Q: Is the 2% damping value utilized for the seismic test acceptable?
   A: In accordance to IEEE STD 344-1975, 2% damping is acceptable.



NONCONFORMANCE REPORT

270 039

1&2 EGA
S/G - 1&2 BCA
1&2 EAD

1. PROJECT NAME	JOB NO.	19. NO. 1765	20. PAGE 1 OF 2
Midland	07220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
1&2	N/A	N/A	Butterfly Control Valves	N/A

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
J-258 - AC	N/A	P/N N/A REV N/A SER NO. N/A	Supplier	Fisher Controls

11. INSPECTION CRITERIA	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG ( ) SPEC (X) OTHER IR NO. N/A NO. BEBC 2606	( ) YES (X) NO	( ) YES (X) NO	( ) Rec'g (X) Const ( ) Test	( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION: Q Material on this PO has been identified by Project/ Quality Engineering to be indeterminate in regards to satisfactorily completion qualification test requirements per spec. J-605.

Q # 5.024. No hold tags applied.

17. REPORTED BY John X May DATE 1-9-79

18. VALIDATED BY T.B. Barclay DATE 1-9-79

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

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

Project engineer to evaluate

I.R. Gruber 1-12-79

23. PROJECT ENGINEERING DISPOSITION

OPEN QUESTIONS ON THE QUALIFICATION TEST REPORTS HAVE BEEN RESOLVED AS FOLLOWS:

A. Limitorque value actuator was tested to IEEE 323-71 not IEEE 323-74

A. Supplier has evaluated actuators for conformance to IEEE 323-74 and found them compatable to IEEE 323-74 for its intended use.

B. An incorrect spray chemestry was used in environmental testing

B. Spray chemestry is not applicable as the valves are located outside containment

C.V. Newton for JM Farley 1/17/79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

A. Muller AB 5-7-79
PROJECT FIELD ENGINEER DATE

Rathbun 4/20/79
PROJECT ENGINEER DATE

T.B. Barclay 5-14-79
PROJ. CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER DATE 5-14-79

AUTHORIZED INSPECTOR DATE

Block 16 Continued.

A conditional release is granted to install the Q Material on this NCR. Corrections or removal can be accomplished without causing damage or contamination to the associated plant equipment or structure.

W. T. Tilson AIB 1-12-79
PFE Date

R. Barclay 1-12-79
PFQCE Date

E. Smith 1-12-79
LQAE Date

270 049

NONCONFORMANCE REPORT

SM NR 1827

1. PROJECT NAME: Midland	JOB NO.			19. NO. ~~1824~~	20. PAGE 1 OF 1
2. UNIT(S): Intermediate	3. DRAWING/PART NO.: n/a	REV: n/a	4. ITEM DESCRIPTION: (4) 9/16" x 2" SA 193 GR B8 bolts	5. ITEM LOCATION: QC hold Whse #1	
6. P.O. OR SPEC NO.: P.O. 6AC-50218	7. SERIAL NO.: n/a	8. REPLACEMENT PART P/N N/A REV SER NO.	9. SOURCE: SUPPLIER	10. CONTRACTOR/SUPPLIER: ITT Cannell, Warren, Ohio	
11. INSPECTION CRITERIA: ( ) DWG (X) SPEC ( ) OTHER IR NO. Elec. Spec NO. M-251	12. ASME AUTHORIZED INSPECTION REQ'D: ( ) YES ( ) NO	13. SKETCH ATTACHED: ( ) YES (X) NO	14. Discovered During: (X) Rec'g ( ) Const ( ) Test	15. Equip Furnished By: ( ) Client (X) Eng ( ) FLD	

16. NONCONFORMING CONDITION: Purchase Order 1-50218/SC requires quality verification documentation in accordance with Item 6 Sect B. Contrary to the above, Item 6 Sect B and quality verification documentation for (4) Cannell shop rods (our P.O. 6AC-50218) were not received. Not reading Grade B7 marked on alternate. Item held by & subject to the nonconforming hardware.

17. REPORTED BY: R.H. (Bob) Montrowl DATE: 1-25-79

18. VALIDATED BY: R.B. Starcher DATE: 1-26-79

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

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

Procuement SM½ Supervisor to obtain proper documentation.

O.M. Markham 1/29/79
D. Stout 1/29/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
		Date	

W. T. Miller 1-25-79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

W. J. Bailey Jr. 2-1-79
PROJ CONSTR QA ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Documentation is received and reviewed. Inspection is complete and satisfactory.
Rob. C. Montrowl 5-8 79

26. QC ACCEPTANCE
Rob. C. Montrowl 5-8 79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

Alab

270 042

S/L 2-A03

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.			19. NO. 1838	20. PAGE 1 OF 2
Midland	7220				
2. UNIT(S)	3. DRAWING/PART NO. Tag No.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION	
2	36"-AIF-BL-2XV-3211B-R	N/A	Main Steam Isolation Valve	Combo Shop	
6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART P/N N/A REV SER NO.	9. SOURCE	10. CONTRACTOR/SUPPLIER	
7220-M-118-A Rev. 2	6228		Supplier	Energy Products Group	

11. INSPECTION CRITERIA	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG (x) SPEC ( ) OTHER IR NO. R-1.00-8743 NO. M-118A Rev. 4	(X) YES ( ) NO	( ) YES (X) NO	(X) Rec'g ( ) Const ( ) Test	( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION:

Item 1. Specification 7220-M-118A Rev. 4 requires Quality Verification Documentation in accordance with Form G-321-D. Page 1 of 3 of Form G-321-D should be Rev. 4, however, Rev. 3 has been supplied in Q.V.D. package. Form G-321-D Doc. Cat. # 28.0 has been incorrectly completed by the vendor.

Item 2. Code Data Report in Q.V.D. package indicates valve reducers to have Ht. # 215846 S/N 3 & 4, however, the CMTR and RT Inspection Report for the reducers

Continued on Page 2

17. REPORTED BY: Dean A. Delaney DATE: 1/25/79

18. VALIDATED BY: W. Barclay DATE: 1-26-79

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 ~~XXXXXXXX~~ correct documentation.

D. Shook 2/1/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
OK			

C. Exon 2-2-79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

A. Barclay 2/1/79
PROJ CONSTR QC ENGINEER DATE

W. O. Kelton Jr. 5/23/79
AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

CORRECTED DOCUMENTATION RECEIVED & ACCEPTED.
Dean A Delaney 5/30/79

26. QC ACCEPTANCE

Dean A. Delaney 5/30/79
QC ENGINEER DATE

W. O. Kelton Jr 5/30/79
AUTHORIZED INSPECTOR DATE

Block 16 Continued

Indicate the heat number to be 215246 S/N 3 & 4.

Item 3. Documentation requirements of Form G-321-D for Document Categories 12.0 (Welding Verification Reports), 14.0 (Repair Verification Reports), 16.0 (Heat Treatment Verification Reports) and 17.4 (Material Certificate of Compliance) don't correspond with documentation present in Q.V.D. package.

"Q" number is 4.323. Hold pending final disposition. / hold tag applied to the nonconforming item.

A conditional release is requested in order that the valve can be installed. This valve remains retrievable, after installation.

A.J. Boos PFE 1-26-79 ~~1-26-79~~

W.L. Barclay PFQCE 1-26-79 ~~1-25-79~~

L.A. Driesbach PFQAE 1-26-79 ~~1-25-79~~

H. Ketron AI 1-26-79 ~~1-25-79~~

NONCONFORMANCE REPORT

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO. 1841	20. PAGE 1 OF 1
2. UNIT: 2	3. DRAWING/PART NO.: C-439 (Q)	REV: 3	4. ITEM DESCRIPTION: PUMP RETURN LINE RESTRAINT EMBED	5. ITEM LOCATION: 634' SLAB U#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: CONST.	10. CONTRACTOR/SUPPLIER: NA	
11. INSPECTION CRITERIA: [X] DWG [ ] SPEC [ ] OTHER — IR NO. NA, NO. C-439	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:

SECTION "H" ON DWG. C-439 SHOWS 8-2" ø EMBEDDED BOLTS THAT RUN PARALLEL TO THE FLANGES OF THE CONNECTING W14×370. CONTRARY TO THE ABOVE, THE EMBEDDED BOLTS LOCATED ON THE NORTH-WEST CORNER OF THE 630' SLAB (AS SHOWN IN SECT. "E") WERE INSTALLED 90° OFF, AND RUN PERPENDICULAR TO THE FLANGES OF THE W14×370. Q-LIST #L102. HOLD FOR ENGINEERING DISPOSITION. ON HOLD TAG APPLIED TO EMBED. HOLD TAG APPLIED

17. REPORTED BY: Steve Harvey — DATE: 1-29-79

18. VALIDATED BY: [signature] — DATE: 1-29-79

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

22. [ ] Field Engineering Disposition [X] Field Engineering Recommended Disposition to Project Engineering

REWORK: REWORK THE EXISTING 2"×30"×30" BASE PLATE USING THE FOUR EXISTING CORNER BOLT HOLES AND DRILLING FOUR NEW HOLES PARALLEL TO THE WEB OF THE ATTACHED W14×370. PROJECT ENGINEERING TO EVALUATE.

S Harvey 1/29/79

[signature] 1/29/79

23. PROJECT ENGINEERING DISPOSITION: Project Engineering has evaluated the nonconformance condition and has determined that the forces acting on the embedded bolts are such that the orientation of the bolts will have no significant effect on the support. Project Engineering recommends to rework the existing 2" x 30" x 30" base plate to accommodate as-built bolt configuration.

J. Hastings Jr. BI-M C-2014 1-30-79

R Schulman 1/31/79

24. DISPOSITION CONCURRENCE

[ ] rejected	[ ] repair	[X] use as is

[signature] 2-6-79
PROJECT FIELD ENGINEER DATE

[signature] 2-1-79
PROJECT ENGINEER DATE

[signature] 2-27-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

[signature] 4/18/79
26. QC ACCEPTANCE
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

NONCONFORMANCE REPORT

270 045

STN 1ACB

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 1848	20. PAGE 1 OF 1
2. UNIT(S): 1	3. DRAWING/PART NO.: Tag No. 36"-ALB-BL-1XV-3111B-R	REV: N/A	4. ITEM DESCRIPTION: Main Steam Isolation Valve		5. ITEM LOCATION: Poseyville P21W
6. P.O. OR SPEC NO.: 7220-M-118-A Rev. 2	7. SERIAL NO.: 6178	8. REPLACEMENT PART P/N N/A REV ____ SER NO. ____	9. SOURCE: Supplier	10. CONTRACTOR/SUPPLIER: Energy Products Group	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER	IR NO. R-1.00-4407 NO. M-118A Rev. 4	12. ASME AUTHORIZED INSPECTION REQ'D (X) YES ( ) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During (X) Rec'g ( ) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION: Item 1. Specification 7220-M-118A Rev. 4 requires Quality Verification Documentation in accordance with Form G-321-D. Page 1 of 3 of Form G-321-D should be Rev. 4, however, Rev. 3 has been supplied in Q.V.D. package.

Item 2. Quantity requirements of Form G-321-D for documentation in Doc. Cat. 12.0 (Welding Verification Reports) and 14.0 (Repair Verification Reports) don't correspond with the documentation present in the Q.V.D. package. "Q" number is 4.313. Hold pending final disposition. 1 hold tag(s) applied to the nonconforming item(s).

17. REPORTED BY / DATE: Dean A. Delaney 2/2/79

18. VALIDATED BY / DATE: A. Barclay 2-2-79

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

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

Procurment Supervisor to obtain correct documentation.

D. Short 2/5/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
DQC			

PROJECT FIELD ENGINEER / DATE: D. Short 2/5/79

PROJECT ENGINEER / DATE: M. Bercia 2/6/79

PROJ. CONSTR. QC ENGINEER / DATE: W. W. Kolan Jr. 5/25/79

AUTHORIZED INSPECTOR / DATE

25. DISPOSITION RESULTS

Corrected Documentation Received & Accepted

Dean A Delaney 5/30/79

26. QC ACCEPTANCE

Dean A. Delaney 5/30/79

QC ENGINEER / DATE

W. W. Kolan Jr. 5/30/79

AUTHORIZED INSPECTOR / DATE

A conditional release is requested in order that the valve can be installed. This valve remains retrievable after installation.

A. Nelson BO	2-2-79	® W Barclay	2-2-79
PFE	DATE	PFQCE	DATE
W/H E. Smith for L.A. Darenbach	2/2/79	H.W. Kelton Jr.	2-2-79
PFQAE	DATE	AI	DATE

270 048

NONCONFORMANCE REPORT

S/11 192 13AB

1. PROJECT NAME: Midland	JOB NO.: 7220					19. NO. 1850	20. PAGE 1 OF 3
2. UNIT(S): 1&2	3. DRAWING/PART NO.: E-637	REV: 16	4. ITEM DESCRIPTION: Battery Racks 1D01, 2D01, 1D02, 2D02			5. ITEM LOCATION: Aux. Bldg El. 614	
6. P.O. OR SPEC NO.: E-12 4C	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE: Contractor	10. CONTRACTOR/SUPPLIER: E.S.B. Inc		
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO NO. E-12 Rev. 3		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: Specification E-12 Rev 3 Paragraph 8.1.1 requires that the rack "be furnished with a minimum of two coats of acid resisting paint". Also Paragraph 8.1.2 requires the vendor to supply one quart of finish paint. Contrary to the above the battery racks protective paint has been damaged during installation.
QA-QC # 3.201 & Hold Tags Applied Held for Engr. Disposition

17. REPORTED BY: W. Mitchell DATE: 2/3/79

18. VALIDATED BY: W. L. Barclay/fax DATE: 2/3/79

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

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

~~This is not in accordance with the specification as it does not call for paint & is a direct violation of form QA 324 A~~

SEE PAGE 2

C. Peck 2/6/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE N/A

rework	reject	repair	use as is

C. Peck 2/6/79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

~~SEE PAGE 3~~
PROJ/CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS
Touch up paint has been located and the paint has been applied to the damaged surface. Complete.
A. M. Labovich 3/8/79

26. QC ACCEPTANCE
A. M. Labovich 3/8/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

Block 22 Revised:

Field will recoat all damaged areas of racks after installation. Acid resistant paint will be used in the touch-up work. T. Thomas D. Scheffele 4/6/79

[illegible] 4/6/79

[illegible] 5/3/79

270 043

NONCONFORMANCE REPORT (CONT'D)

20. PAGE 3 OF 3

19. NCR NO. 1850

4/5/79

24. Disposition Concurrence Item N/A

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER DATE 4/5/79

PROJECT ENGINEER DATE

PROJECT CONSTR QC ENGINEER DATE 5-2-79

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

U

2050

NONCONFORMANCE REPORT 2 Sh Fire Extinguisher Unit

KEB 3-5-79 C.A. 3/6/79

1. PROJECT NAME	JOB NO.	19. NO. 1914	20. PAGE 1 OF 7
Midland	7220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
1	E 616 Sh. 1 & E 716 Sh. 1	8/6	MCC Risers	Aux Bldg. El. 614'

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
N/A	N/A	P/N N/A REV N/A SER NO. N/A	Construction	N/A

11. INSPECTION CRITERIA	IR NO.	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
(X) DWG ( ) SPEC ( ) OTHER	1BJH01-11 1BKE01, 1BKF01 1BJJ01	( ) YES (X) NO	( ) YES (X) NO	( )Rec'g (X)Const ( )Test	( )Client ( )Eng (X)FLD

16. NONCONFORMING CONDITION

Cable Tray Risers located above the switch gear are to be welded per detail on Dwg. E-795 Sh. 2. The following Cable Tray sections are supported with angle brackets 1BJH01 through 1BJH11, 1BKE01, 1BKF01, and 1BJJ01.

"Q" list number 3.005

14 "HOLD" tags placed, one at each tray section

Hold for Engineering disposition

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
D C Spuill	2-26-79	[illegible]	2-26-79

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

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

Rework Tray Risers to be welded per detail on dwg. E-795 Sh.2

[illegible] D A Schuppler 2/28/79

B L Matthews 2-28-79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
X			

[illegible] 3/1/79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

S D W S Barclay 3/1/79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

All Trays except 2AJH08 and 2AJH10 have been reworked. 5-8-79 DCS

5-8-79 DCS

All cable tray risers have been reworked per Dwg. E-795 Sh 2. 5-8-79 DC Spuill

26. QC ACCEPTANCE D C Spuill 5-8-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

NONCONFORMANCE REPORT START-UP SYSTEM NOS. OEGA, 1EGA, & 2EGA

1. PROJECT NAME: Midland	JOB NO.: 07220			19. NO. 1926	20. PAGE 1 OF 2
2. UNIT(S): 1 & 2	3. DRAWING/PART NO.: See Blk 16	REV	4. ITEM DESCRIPTION: 4 each Horizontal Centrifugal Pumps and 1 each Comp. Cooling Water Pump		5. ITEM LOCATION: Els 584 & 599 - Aux
6. P.O. OR SPEC NO.: M-53 Rev 3	7. SERIAL NO.: See Blk 16	8. REPLACEMENT PART P/N N/A REV ____ SER NO. ____	9. SOURCE: Supplier	10. CONTRACTOR/SUPPLIER: Bingham-Williamette Company	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. See Blk 16 NO. M-53 Rev 3	12. ASME AUTHORIZED INSPECTION REQ'D (X) YES ( ) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During (X) Rec'g ( ) Const ( ) Test	15. Equip Furnished By ( ) Client ( ) Eng ( ) FLD	

16. NONCONFORMING CONDITION: Specification M-53, Rev. 3 requires that a completed Form 321-D be included as part of the documentation package. Contrary to this requirement, the following pumps (Inspection Record Nos.) were received with entries on the Form G-321-D not agreeing with the actual documentation page count: 2P73B & 1P73B (R-1.00-8954), 2P73A & 1P73A (R-1.00-8899), and OP73 (R-1.00-8933). "Q" List No. 4.173. Hold for engineering disposition. Five(5) Hold Tags applied.

17. REPORTED BY / DATE: R. Valentine 3.2.79

18. VALIDATED BY / DATE: R.B. Barclay 3-2-79

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 correct documentation.

D. Shoat 3/6/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
DCC			

W T Dees RAB 5-6-79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

R.B. Barclay 3-7-79
PROJ CONSTR QC ENGINEER DATE

H W Kelton Jr 5-16-79
AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Documentation corrected as required.

R. Valentine
5-16-79

26. QC ACCEPTANCE R. Valentine 5-16-79
QC ENGINEER DATE

H W Kelton Jr 5-16-79
AUTHORIZED INSPECTOR DATE

BECHTEL

NONCONFORMANCE REPORT (CONT'D) 1 PAGE 2 OF 2 14 NCR NO. 1926

Block 16 Con't.

A conditional release has been granted to allow MX grouting and installation of subject pumps. Corrections or removal can be accomplished without causing damage or contamination to associated plant equipment or structure.

PFE	DATE	PFQCE	DATE
for PQAE	DATE	A.I.	DATE

270 052

Block 16 Con't.

A conditional release has been granted to allow installation of piping TO THE PUMPS. Corrections or removal can be accomplished without causing damage or contamination to associated plant equipment or structure.

PFE	DATE	PFQCE	DATE
PQAE	DATE	A.I.	DATE

10098-2

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

QC 613

NONCONFORMANCE REPORT

NON-TESTABLE UNIT

1. PROJECT NAME	JOB NO.	19. NO. 1931	20. PAGE 1 OF 3
Midland	7220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
Unit #1	N/A	N/A	Concrete	c(687.75)a

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
C-230 Rev.14	N/A	P/N N/A REV N/A SER NO. N/A	Subcontractor	Champion, Inc.

11. INSPECTION CRITERIA	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG (X) SPEC ( ) OTHER IR NO. C-1,30-746 NO. C-230 Rev14	( ) YES (X) NO	( ) YES (X) NO	( ) Rec'g (X) Const ( ) Test	( ) Client (X) Eng ( ) FLD N/A

16. NONCONFORMING CONDITION:

Spec. (7220) C-230 Rev 14 section 9.1, with Table 9.1 gives the criteria for the acceptance of concrete. Contrary to the provisions of the part of this section that deals with concrete slump; A total of 12 C.Y. of concrete from Batch Tickets numbered 31423 and 31424 were placed into the forms with slumps of 6 1/4", and 6" respectively when measured at point of placment. " Q-List" No. 1.105, Hold for Engineering Disposition

2 Hold Tags Applied, One to each pad.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Paul VanderVen	3/6/79	[illegible]	3-6-79

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

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

DISP. REQUESTED BY: 4/9/79

"Use as is" twelve (12) cubic yards of E-1 (6000 psi @ 90 days) concrete was placed at pour C(687.75)A out of a total placement of 42 cubic yards with a high nonconforming slump as noted in block 16 and shown on the attached In-Process Concrete Test Report. It should be noted that immediate corrective action was taken after th (con)

23. PROJECT ENGINEERING DISPOSITION

Project engineering has reviewed the nonconformance condition discribed in block 16 and concludes that high slump concrete will tend to increase shrinkage while decreasing strength and durability. 12 C.Y. of concrete placed with slumps of 6" and 6 1/4" in lieu of the specified 5" limit will tend to have an insignifi - cant effect on the 42 C.Y. of concrete placed. The average 28 day compressive strength results are 5870 psi for the batch plant cylinders and 6600 psi for the field cast cylinders, which indicate the specified strength of 6000 psi at 90

24. DISPOSITION CONCURRENCE

reject	repair	use as is
		X

PROJECT FIELD ENGINEER — DATE 4/5/79

PROJECT ENGINEER — DATE 4-20-79

PROJ CONSTR QC ENGINEER — DATE 4-26-79

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER — DATE 5/17/79

AUTHORIZED INSPECTOR — DATE

(cont. page 2)

BECHTEL

NONCONFORMANCE REPORT (CONT'D) PAGE 2 OF 3 3/14/79 14 NCR NO. 1931

Block 22 continued:

receipt of the forementioned nonconforming test results to insure subsequent batches of concrete were acceptable. Concrete placed at this pour (ticket no. 31421) had an average compressive strength of 3925 psi at 7 days of age for batch plant cylinders and 4175 psi at 7 days of age for field cast cylinders.

RP Kowalczyk 3/14/79
D.D. Hunnicutt 3/14/79

Block 23 continued:

days will be met.

The concrete that was "remixed" for approximately 30 minutes prior to placing is not consistant with good concrete practice, it will have no detremental effects on the concrete characteristics since the design quantities were not altered. Therefore, based on the above, project engineering recommends the concrete specified above be "as is". BECM C-2181

No drawing change required.

J. Hartmann 1-20-79 RS

270 054

10098-2

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

QC-611

LCCA 1931

IN-PROCESS CONCRETE TEST REPORT

Q.C. Acceptance ____ Date ____

Control No. ____ File No. ____

1. Inspection Record No. C-130-746 2. Date 3/2/79 3. Page ____ of ____

CONCRETE PLACEMENT IDENTIFICATION

4. Placement Identification C(687.75) & Thin Section ☐ Thick ☐ Mass ☒

5. Concrete Class I 6. Mix No. E-1 GROUT / E-1 7. Entrained Air Content Limits 4-6

8. Slump Working Limits 3" 9. Inadvertancy Margin 2"

10. Concrete Placing Temperature Limits 40°-60° 11. Weather Conditions Applicable Hot ☐ Cold ☒

12 Ticket No.	Truck No.	13 Time	14 Cum. Yardage	15 Sampling Point	16 Slump ASTM C-143-74	17% Air Ent. ASTM C-231-74	18 °F Conc. Temp.	19 °F Air Temp.	20 Unit Wt. ASTM C-138-74	21 Conc. Cyls. ASTM C-31-69 Test No.	Amt.
31422	51	1002	①	GROUT							
				TAILGATE	4¼"	5.6	45	34			
				TD	4¼"	4.8	47				
31421		1001	6	EOL	4½"	4.6	48				
31423		1023	12	EOL	6"/5¼"						
31424		1031	18	EOL	6"/5¼"						
			24	TD	6"	8.0	45				
			24	TD	4¾"	6.2	46				
31425		1041	24	EOL	3¼"	5.4	51				
			30	TD	2¾"	5.2	44				
31426		1053	30	EOL	3¼"	4.6	46				
31427		1121	36								
31428		1145	42								

* THIS TRUCK PULLED TO THE SIDE AND REMIXED FOR APPROX. 30 MINUTES.

22. TESTING EQUIPMENT

Slump Rod	N/A	Calibration	Due Date
Slump Cone	N/A	Calibration	Due Date
Air Meter No. TD - 89 / 315 - EOL		Calibration	Due Date 4/26/79 / 4/30/79
Unit Wt. Cont. No.	N/A	Calibration	Due Date
Scale No.	N/A	Calibration	Due Date
Thermometer No.	429 / 427	Calibration	Due Date 8/21/79 / SAME

23. Concrete Rejected Cu. Yards —

24. Concrete Sampled & Tested by R.H.

25. Quality Control Engineer [signature] 26. Date 3/2/79

7220-QCF-15 Rev. 1

270 055

3/4/79

Start Up Code: Indeterminate

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO. 1937	20. PAGE 1 OF 1
Midland	7220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
Indeterminate	See Block 16	N/A	Space Heater Assy's	Warehouse # 1

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
7220-S-7 Rev. 5	See Blk. 16	P/N N/A REV ____ SER NO. ____	Supplier	ITE Imperial

11. INSPECTION CRITERIA	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG (X) SPEC ( ) OTHER IR NO. R-1.00-8999 NO. E-7, Rev. 5	( ) YES (X) NO	( ) YES (X) NO	(X) Rec'g ( ) Const ( ) Test	( ) Client (X) Enig ( ) FLD

16. NONCONFORMING CONDITION:

Para. 3.0, Specification E-7, Rev. 5, requires that written certification be provided for each shipment. Specification E-7 also contains "Q" and Non-Q G-321-D Forms which are filled out and submitted with each shipment as applicable. Contrary to this requirement, twelve (12) Space Heater Assy's were received as "Q" listed equipment with "Non-Q" Form G-321-D. One (1) hold tag applied to box. "Q" list number is indeterminate. Hold for engineering disposition.

17. REPORTED BY R Valentine DATE 3-7-79

18. VALIDATED BY J.W. Barclay DATE 3-8-79

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

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

Procurement Supervisor to obtain correct "Q" form.

B. Matthews 3-8-79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
X			

C. Nuhfer 3-9-79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

J.W. Barclay 3-12-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Corrected Documentation Received and Reviewed.

R. Valentine
5-25-79

26. QC ACCEPTANCE R. Valentine 5-25-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

0

OY84 - Indeterminate
OY85 - OPF
OY86 - OPF

NONCONFORMANCE REPORT 5/1

1. PROJECT NAME	JOB NO.	19. NO. 1941	20. PAGE 1 OF 1
Midland	07220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
0	E-599	4	A.C. Inst. & Control Panels	Service Water Building

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
E-15-45 Y-4 IX-11	N/A	P/N N/A REV N/A SER NO. N/A	Vendor	Square - D

11. INSPECTION CRITERIA	IR NO. E-6.0 NO. E-45-36-2	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
(x) DWG ( ) SPEC ( ) OTHER		( ) YES (x) NO E-45 3C 4/25/79	( ) YES (x) NO	( )Rec'g (x)Const ( )Test	( )Client (x)Eng ( )FLD

16. NONCONFORMING CONDITION:

Specification E-15, Rev. 4, paragraph 6.1.1 states in part that the enclosure shall be fabricated "without knockout." The vendor drawings E-45-36-2, states "no knockouts." Contrary to the requirements, the following panels have 4 knockouts each; OY84, OY 85, OY 86. Q list 3.109, 3 Hold tags applied, hold for eng. disposition.

E

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

A. Miller RB 4-20-79
PROJECT FIELD ENGINEER DATE

R.R. Buzunkas/RLC 4-18-79
PROJECT ENGINEER DATE

[illegible] 4-26-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

17. REPORTED BY DATE
Louis W. Tilson 3/6/79

18. VALIDATED BY DATE
[illegible] Barclay 3-8-79

25. DISPOSITION RESULTS

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

22. (X) Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering
[illegible] 4/12/79

SDDR #1014 provides the necessary documentation for the deviation from the specification.

W.S. Hagan 4-16-79

23. PROJECT ENGINEERING DISPOSITION

Project Engineering has reviewed this NCR. SDDR #1014 does provide documentation for the deviation from the spec, " use as is".

[illegible] 4/18/79

26. QC ACCEPTANCE
Louis W. Tilson 5/2/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

270 057

Start Up Code: 2-GTE, 2-GTC

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 1948	20. PAGE 1 OF 2
2. UNIT(S): 1 & 2	3. DRAWING/PART NO.: 7220-M-168-31-5	REV: N/A	4. ITEM DESCRIPTION: 48" Butterfly Valves-2HO-6216 A, 2MO-6209 A		5. ITEM LOCATION: Whse. # 2
6. P.O. OR SPEC NO.: 7220-M-168 Rev. 6	7. SERIAL NO.: D-0097-1-3 D-0097-1-4	8. REPLACEMENT PART P/N N/A REV ____ SER NO. ____	9. SOURCE: Supplier	10. CONTRACTOR/SUPPLIER: Henry Pratt Company	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. R-1.00-0069 NO. M-168 Rev. 6	12. ASME AUTHORIZED INSPECTION REQ'D (X) YES ( ) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During (X) Rec'g ( ) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FLD	

16. NONCONFORMING CONDITION

Specification 7220-M-168 Rev. 6 requires Quality Verification Documentation as summarized on Form G-321-D. Contrary to the above, the following discrepancies for the Quality Verification Documentation Package have been found. 2 Valves have been cataloged in one document. Discrepancies for Item 2.6 S/N D0097-1-3 Category No. 25.0 states 38 pages furnished when in fact only 37 pages were received.

Cont. on Page 2

17. REPORTED BY: [signature] DATE: 3-12-79

18. VALIDATED BY: [signature] DATE: 3-12-79

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 correct documentation.

D. Short 3/14/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
DOT			

[signature] PROJECT FIELD ENGINEER 3/14/79 DATE

[signature] PROJECT ENGINEER 3-16-79 DATE

[signature] PROJ CONSTR QC ENGINEER 3-16-79 DATE

[signature] AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

corrected G-321-D

Recieved, reviewed & accepted.

[signature] 5-23-79

26. QC ACCEPTANCE [signature] 5-23-79

[signature] QC ENGINEER DATE

[signature] AUTHORIZED INSPECTOR 5-23-79 DATE

8005070 058

NONCONFORMANCE REPORT (CONT'D) PAGE 2 OF 2 NCR NO 1948

Block 16 Continued

Category 26.2 states 4 pages furnished when in fact 2 pages received.

Item 2.8 S/N D0097-1-4 category 15.0 states 1 page furnished when in fact 2 were received. Category 25.0 states 38 pages furnished when in fact only 37 furnished. Category 26.2 states 4 pages furnished when in fact only 2 pages were received.

2. Specification 7220-M-168 Rev. 6 Paragraph 10.1.9 states "Radiographic Film shall be submitted as part of the verification documentation. Contrary to the above, no Radiographic Film has been received.

"Q" numberis 4.626. Hold pending final disposition. 2 hold tag(s) applied to the nonconforming item(s).

NONCONFORMANCE REPORT

S/U Non Testable Unit.

1. PROJECT NAME: Midland	JOB NO.: 07220			19. NO. 1950	20. PAGE 1 OF 1
2. UNIT(S): 2	3. DRAWING/PART NO.: E-650, Sh. 1, Rev. 13/G-34	REV: 7	4. ITEM DESCRIPTION: Added Tray Section/Field Use of FCN's		5. ITEM LOCATION: Cont. #2, 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 SER NO. N/A	9. SOURCE: Construction	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA (X) DWG (X) SPEC ( ) OTHER — IR NO. N/A 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 ( ) Eng (X) FLD	

16. NONCONFORMING CONDITION: 1.) Tray section was installed between El. 615'-3" and El. 620'-0" @ 220° approximately 4' northeast of Liner between 2BLA01 and 2BLB01. Added tray is welded to 2BLA01 and 2BLB01 with no other means of support. There is no project engineering approval to install this tray. (2.) Field Engineering is using Field Change Notices outside the scope of G-34. Conduit 2BLB014, El. 615' @ 220°, approximately 4' northeast of Liner, was deleted and this tray ~~section~~ section installed based on FCN-338. Q-List 3.005 and 3.006 (1) One Hold Tag Applied

17. REPORTED BY: Kalish Caros DATE: 3/13/79

18. VALIDATED BY: for R. Barclay DATE: 3-13-79

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

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

Recommend to "Use As Is" See FCN#E-338 approved by A.A.O.

B. Matthews 3-26-79

23. PROJECT ENGINEERING DISPOSITION: Project engineering had authorized issuing FCN #E-338 to install subject tray section. Per FCN #E-338 and G-34 Para. 3.3.1.2, project engineering approves "use as is".

J. Lak 3/29/79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

A. Fuller PE 5-30-79
PROJECT FIELD ENGINEER DATE

JR Baumle/RLC 3-21-79
PROJECT ENGINEER DATE

for R. Barclay 4-3-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Tray section has been installed and all details agree with FCN # E-338
K Caros 5/14/79

26. QC ACCEPTANCE Kalish Caros 5/14/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

270 060

E

U

S/U 2-EAC

270 061

NONCONFORMANCE REPORT

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO. 1951	20. PAGE 1 OF 1
2. UNIT(S): TWO	3. DRAWING/PART NO.: M619-SH1	REV: C/4	4. ITEM DESCRIPTION: PIPE SPOOL 2HBC-109-619-1-10		5. ITEM LOCATION: UNIT-2 ELEV 659'
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-110-619-1-3 NO M204 REV 9	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: SPECIFICATION M-204, REV 9, PARAGRAPH 4.1.2 STATES: "CERTIFICATION OF MATERIALS BY THE MANUFACTURER SHALL BE FURNISHED IN ACCORDANCE WITH NUCLEAR POWER PLANT COMPONENTS CODE, PARAGRAPH NB-2130. CONTRARY TO THE ABOVE, PIPE SPOOL 2HBC-109-619-1-10 HAS PERMANENT WELDED ATTACHMENTS AT F.W.'S 54, 65, 65, 66 WHICH MATERIAL CERTIFICATION HAS NOT BEEN FURNISHED. QA# 4,192, ONE QC HOLD TAG APPLIED AT F.W 54

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
W. Hallstead	3-13-79	F.B.R. Barclay	3-13-79

21. 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

rework	reject	repair	use as is

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJ CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

A REINSPECTION AND REVIEW OF THIS MATERIAL WAS DONE AND THIS MATERIAL WAS FOUND TO BE ACCEPTABLE ACCORDING TO SPEC M-204 REV 10 AND SCN #29

W. Hallstead 5-4-79

26. QC ACCEPTANCE — 5-4-79
QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

Start Up Code: Non-Testable Unit

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
Midland	7220	1952	1 OF 1

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
1 & 2	N/A	N/A	Expansion Type Anchors 3/8" x 2 3/4"	Whse. # 1

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART P/N	REV	SER NO.	9. SOURCE	10. CONTRACTOR/SUPPLIER
7220-F-3286	N/A	N/A	N/A	N/A	Supplier	Hilti Fastening Company

11. INSPECTION CRITERIA	IR NO. / NO.	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG ( ) SPEC (x) OTHER	IR NO. R-1.CO-9156 NO. F-3286	( ) YES (x) NO	( ) YES (X) NO	(X) Rec'g ( ) Const ( ) Test	( ) Client ( ) Eng (X) FLD

16. NONCONFORMING CONDITION: Purchase Order F-3286 states that all Kwik Bolts shall be clearly stamped in accordance with manufacturers length identification system. Contrary to the above, 100 3/8" x 2 3/4" Hilti Bolts were improperly marked with a "F" instead of the correct "C" mark. "0" number is indeterminate. Hold for engineering disposition. 1 hold tag applied to the nonconforming item.

17. REPORTED BY [signature] DATE 3/13/79

18. VALIDATED BY [signature] DATE 3-13-79

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

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

REJECT: REJECT THE 100-3/8" x 2 3/4" KWIK BOLTS AND RETURN TO THE VENDOR FOR REPLACEMENT. RELEASE REMAINDER OF PROPERLY MARKED BOLTS FOR CONSTRUCTION.

D. Hawley 3/13 [signature] 3/13/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
	X		

[signature] 3/13/79
PROJECT FIELD ENGINEER DATE

[signature] 3-13-79
PROJECT ENGINEER DATE

PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

MATERIAL Returned to vender on Shipping Notice #7220-6725

[signature] 5-7-79

26. QC ACCEPTANCE [signature] 5/7/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

270 062

R

Stark Un Code: Non-Testable Unit

NONCONFORMANCE REPORT

1. PROJECT NAME [illegible]	JOB NO. 7920			19. NO. 1958	20. PAGE 1 OF 1
2. UNIT(S) [illegible]	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION 10 Pcs. (200') of 3/4" Sch. 40 Smls. C.S. Pipe		5. ITEM LOCATION [illegible]yville
6. P.O. OR SPEC NO. 72 [illegible]3375	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N REV SER NO. N/A	9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Chicago Tube and Iron	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. R-1.00-[illegible] NO. M-305 Rev. 3	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) FLD	

16. NONCONFORMING CONDITION Pechtel Spec. M-305 Rev. 3 Item 9.0 requires delivery of pipe in accordance with field requirements. PGCI-R-1.00, activity #3.2a. requires a visual inspection for freedom from damage due to rough handling or shipping. Contrary to the above, 10 Pcs. of the 3/4" pipe received on freight bill #05-300540-2 were found to be bent upon receipt. "O" number is indeterminate until installation. Held pending final disposition. 2 hold tag(s) applied to nonconforming item(s).

17. REPORTED BY Michael J. Moore DATE 3-13-79

18. VALIDATED BY [illegible] DATE 3-14-79

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

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

"Use As Is" Pipe is slightly bowed from banding but there are no surface discontinuities.

D. Shaft 3-21-79

23. PROJECT ENGINEERING DISPOSITION Project engineering concurs with the field disposition to "use as is" based on: no sharp discontinuties or ovality, and any bowing of the pipe being distributed evenly over the total length not exceeding an angle of 10 degrees over the 20 foot length. (Per R. Papps of project engineering, 4/3/79; M & O's concurrence via DJF-049-017 dated, 4/6/79.)

A. Barnes 4/17/79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

[illegible] 4/19/79
PROJECT FIELD ENGINEER DATE

A Barnes/RLC 4-17-79
PROJECT ENGINEER DATE

[illegible] 4-20-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE Michael J. Moore 5-9-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

270 063

Start Up Code: Non-Testable Unit

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO. 1966	20. PAGE 1 OF 3
Midland	7220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
Indeterminate	N/A	N/A	5 Primary Shield Liner Plates	R-11-N Q.C. Hold, Poseyville

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
7220-F-2142h Rev. 2	N/A	P/N N/A REV SER NO.	Supplier	Inland Ryerson Construction Company

11. INSPECTION CRITERIA	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG ( ) SPEC (X) OTHER IR NO R-1.00-9016 NO See Blk. 16	( ) YES (X) NO	(X) YES ( ) NO	(X) Rec'g ( ) Const ( ) Test	( ) Client ( ) Eng (X) FLD

16. NONCONFORMING CONDITION:

Documentation package and shipping list received from Inland Ryerson for their shipment No. 22* indicates the following material was shipped:

Quantity	Mark No.	Heat Code No.
1	IPSLP6	BEC
1	IPSLP7	BEC
3	IPSLP8	BEC (Cont. Pg. 2)

17. REPORTED BY / DATE: Rick G Montevue 3-14-79

18. VALIDATED BY / DATE: D.W. Barclay 3-16-79

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

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

Field Eng. has determined that what was recieved(quanities of1,2,&2) was correct in order to complete that portion of the order. Procurement Supervisor to obtain revised documentation package from vendor:

D. Hemelby 3/19/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
X			

J.D. Quattrokey 3/19/79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

W.J. Barclay JRC 3/21/79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR 3/21/79 5/22/79 DATE

25. DISPOSITION RESULTS

Revised documentation package to reflect correct quantities is received and reviewed.
Rick G Montevue
5-22-79

QC ASSISTANCE
Rick G Montevue 5-22-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

270 064

Block 16 Continued

Contrary to the above, the following material is received:

Quantity	Mark No.	Heat Code No.
1	IPSLP6	BEC
2	IPSLP7	BEC
2	IPSLP8	BEC

Hold for engineering disposition. "Q" number is indeterminate. 5 hold tag(s) applied to the nonconforming material.

* See Attachment A

** ASME AUTHORIZED INSPECTION IS NOT REQUIRED. Rick A Montemuro 5-22-79
RM 5-22-79

NCR#15

Shipping release & packing list

CONSTRUCTION SPECIALTIES DIVISION

Inry.

CUSTOMER Bechtel Power Corp	SHIPMENT NO. 22
PROJECT MIDLAND	CONTRACT 21C630
P. O. OR JOB NO. 7220-F-21424 Rev 1	FABRICATOR Industrial
PREPARED BY	DATE 2/7/79

Documentation to satisfy Quality Assurance requirements have been reviewed and found acceptable.

BECHTEL 235

E M Hogan (QP)
QUALITY ASSURANCE REPRESENTATIVE

2-16-79
DATE

QUANTITY	PART NO.	DESCRIPTION
1	VPSLP6	PRIMARY Shield Liner Plates
1	1PSLP7	
3	1PSLP8	

ATTACHMENT "A"
PAGE 3 OF 3
NCR # ____

TOTAL PIECES: 5

TOTAL WEIGHT: NA. = 17,650 =

270 066

PAGE

Q. C. FORM

Form 790.08-10 February, 1976

NONCONFORMANCE REPORT 7u Non Tutable Unit 3

1. PROJECT NAME	JOB NO.	19. NO. 1968	20. PAGE 1 OF 2
Midland	07220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
2	E-650 SH 1	13	Conduit / Tray Supports	R/B # 2 see block # 16

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
N/A	N/A	P/N N/A REV N/A SER NO. N/A	Construction	N/A

11. INSPECTION CRITERIA	IR NO.	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
X DWG ( ) SPEC ( ) OTHER	2A6018/2BLB003 NO.	( ) YES (X) NO	X YES ( ) NO	( ) Rec'g X Const ( ) Test	( ) Client ( ) Eng X FLD

16. NONCONFORMING CONDITION: Conduit supports for two conduits [2A6018(2"), El. 623', 335°, outside Sec. Sh. Wall; 2BLB003(3"), El. 615'-10", 307°, outside Sec. Sh. Wall] are attached to added channel for seismic tray supports without project engineering approval. This condition is indeterminate because there is no acceptance criteria for these installations. Further FCRE-1498, which addresses 2BLB003, specifically directed the support be located off the added channel.
Q List 3.005 and 3.006 (2) Two hold tags applied.

17. REPORTED BY Kaleigh Amos DATE 3/15/79

18. VALIDATED BY [illegible] DATE 3-16-79

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

(1) Field Engineering Disposition (2) Field Engineering Recommended Disposition to Project Engineering

Field Change Request #E-1667 adressed to Civil Resident Engineers.
Approval granted with detailed reinforcement to existing tray support channel for conduit 2BLB003 (3") ~~Support for conduit~~ SUPPORT FOR CONDUIT 2AG018(2") will be removed.

[illegible] 4.19.79 W.B. Hayes 3/29/79

23. PROJECT ENGINEERING DISPOSITION

PROJECT ENG:
Project engineering has reviewed this NCR and concurs with field disposition.
FCR E-1667 has been approved with comments to cover installation.

BM

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
X			

[illegible] 4-2-79
PROJECT FIELD ENGINEER DATE

K K Barmby/RLC 4-20-79
PROJECT ENGINEER DATE

[illegible] for Barclay 4-3-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

2A6018 - Support has been removed.
2BLB003 - Conduit support has been installed and the installation agrees with FCRE-1667 in every detail. Anchors installed and torqued, See IRC 1-50-EM 118.
XRA 5/15/79

26. QC ACCEPTANCE Kaleigh Amos 5/15/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

See Continuation Page dtd 4/25/79

NCR# 1968

CALCULATION SHEET

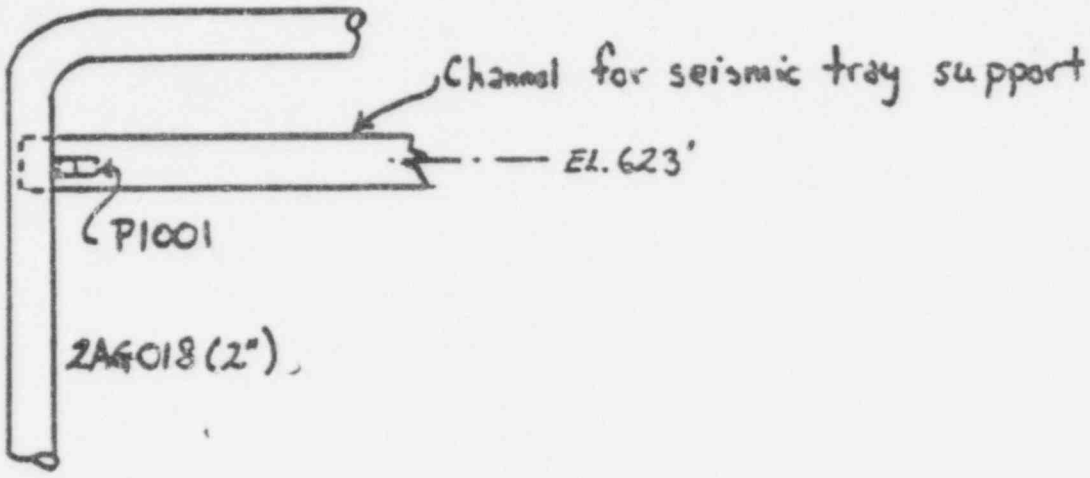
DATE

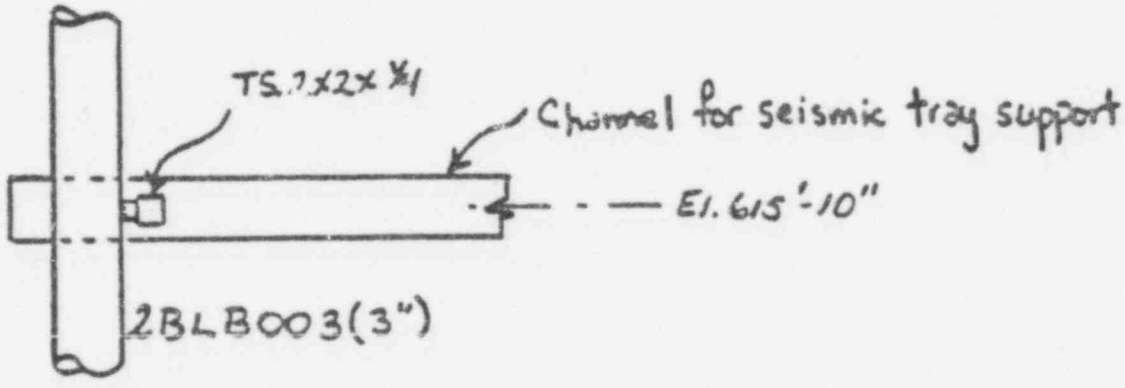
DESIGN BY _____ DATE _____ CHECKED BY _____ SHEET NO. _____

PROJECT _____ JOB NO. _____

SUBJECT _____ CALCULATION NO. _____ FILE NO. _____

3 ICEB
4-20-79





270 068

NONCONFORMANCE REPORT (CONT'D)

20. PAGE 3 OF 3

19. NCR NO. 1968

270 069

24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER — DATE: 4-26-79

PROJECT ENGINEER — DATE: 4-25-79

PROJECT CONSTR QC ENGINEER — DATE: 5-2-79

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

X

S/U-2-EGA

NONCONFORMANCE REPORT

1. PROJECT NAME: PILBARA	JOB NO.: 7220				19. NO. 1979	20. PAGE 1 OF 2
2. UNIT: 2	3. DRAWING/PART NO.: M617 SH8	REV: 8/F2	4. ITEM DESCRIPTION: SPOOL # 2HBC-151-S-617-8-2		5. ITEM LOCATION: GRAIN PAD. 9'10" EAST OF C.L.	
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: (X) DWG (X) SPEC ( ) OTHER — IR NO P-1-0617-8-6, NO. M-204	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: SPECIFICATION M-204 PARAGRAPH 5.2.1 STATES IN PART "BECHTEL ISOMETRICS (INSTALLATION ISOMETRICS) ARE THE GOVERNING DRAWINGS FOR FINAL SPOOL CONFIGURATION AND INSTALLATION." CONTRARY TO THIS DRAWING M617 SH8 SHOWS SPOOL NO. 2HBC-151-S-617-8-2 AS BEING A GRINNEL FABRICATED SPOOL, BUT IN ACTUALITY THIS SPOOL HAS INCORPORATED A PUP PIECE HT#31594 APPROXIMATELY 8" LONG. (CONT. PG#2)

17. REPORTED BY: G. McCall — DATE: 3-19-79

18. VALIDATED BY: W.S. Barclay/jm — DATE: 3/20/79

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

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

Configuration of existing design was not modified outside of the tolerances given in spec. 7220-M-214. Therefore, no engineering approval is required. Field welds were issued in accordance with sec. 8.0 of procedure FPP 1.000. Because the pup piece addition was done in accordance with approved specs. and procedures. this is not a non-conforming condition.

D. Shoot 5/3/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE N/A

rework	reject	repair	use as is

PROJECT FIELD ENGINEER — DATE 5/3/79

PROJECT ENGINEER — DATE

PROJ CONSTR QC ENGINEER — DATE 5-8-79

AUTHORIZED INSPECTOR — DATE 5-9-79

25. DISPOSITION RESULTS

NON CONFORMANCE CLOSED FOR DISPOSITION IN BLOCK #22 JTM 5-9-79

26. QC ACCEPTANCE — DATE 5-9-79

QC ENGINEER — DATE 5-9-79

AUTHORIZED INSPECTOR — DATE

S/O 2-EGA

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 2 19NCR NO 1979

BLOCK #16 CONTINUED:

ONE HOLD TAG APPLIED TO SPOOL 2HBC-151-S-617-8-2,
Q-LIST NUMBER 4.179

270-072

D

S/G 1 EAD

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.			19. NO. 1986	20. PAGE 1 OF 1
2. [illegible]	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION	
	[illegible]	7/2	S.Pipe No. 1"HOC-96 S-619-5-3	[illegible]	
6. [illegible] C NO	7. SERIAL NO.	8. REPLACEMENT PART P/N [illegible] REV [illegible] SER NO. N/A		9. SOURCE Construction	10. CONTRACTOR/SUPPLIER N/A

11. INSPECTION CRITERIA (X) DWG (X) SPEC ( ) OTHER IR NO. [illegible] NO. Spec. 7220	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: Specification M-214 Paragraph 5.2.1 states in part, "Pipe ends (Chamfered & Bevelled), to be cleaned & inspected for final acceptance and examination" on Line 3 this drawing calls for 1" sch. 80 seamless S-619-5-3 to be a chamfered carbon steel, but in fact a pup piece ITM 27783 was incorporated into the system & listed under Heat #172. The pup piece is stamped to spec. No. 1"HOC-96 S-619-5-3

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
[illegible]	5-20-79	W.L. Barclay/jcc	3/21/79

19. DISPOSITION: (X) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)

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

Configuration of the existing design was not modified outside of the tolerances given in spec. 7220-M-214. Therefore, no engineering approval is required. Field welds were issued in accordance with sec. 8.0 of procedure FFP1.000. Because the pup piece addition was done in accordance with approved specs. and procedures, this is not a nonconforming condition.

D. Shook 5/3/79

21. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE N/A

rework	reject	repair	use as is

[illegible] 5/3/79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE
[illegible] 5-8-79
PROJ CONSTR QC ENGINEER DATE
[illegible] 5-9-79
AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

NON CONFORMANCE CLOSED FOR DISPOSITION IN BLOCK #22 JAS 5-9-79

26. QC ACCEPTANCE
[illegible] 5-9-79
QC ENGINEER DATE
[illegible] 5-9-79
AUTHORIZED INSPECTOR DATE

270 072

NONCONFORMANCE REPORT

S/U 2-EA0

1. NAME		JOB NO. 1220			19. NO. 1992	20. PAGE 1 OF 1
2. UNITS 2	3. DRAWING/PART NO. M-611-3	REV 4/13	4. ITEM DESCRIPTION 2HBC-304-S-611-8-3		5. ITEM LOCATION 5½" N/E Aux Bldg. 645'Elev. 12" W/S-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 Construction	10. CONTRACTOR/SUPPLIER N/A		
11. INSPECTION CRITERIA (X) ASME ( ) SPEC ( ) OTHER	IR NO 1110-611-8-3 NO Spec 7220-M-214	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 Specification M-304 Rev. 5.2.1 States In Part, "Butt Welds (Miter Joints) Are The Governing Drawings For Final Spool Configuration And Weld Numbers." Contrary To The Above Drawing M-611-8 Rev. 4/13 Shows Spool No. 2HBC-304-S-611-8-3 To Be A Combination Spool, But In Actuality A Pup Piece 7220 Has Been Incorporated Into The Spool, with out engineering approval. QC Hold Tag Applied To Spool No. 2HBC-304-S-611-8-3

17. REPORTED BY [illegible] DATE 3-21-79

18. VALIDATED BY W. L. Barclay DATE 3/22/79

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

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

Configuation of existing design was not modifed outside of the tolerances given in spec. 7220-M-214. Therefore, no engineering approval is required. Field welds were issued in accordance with sec. 8.0 of procedure FPP 1.000. Because the pup piece addition 8 was done in accordance with approved specs. and procedures, this is not a nonconforming condition.

D. Shott 5/3/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE N/A

rework	reject	repair	use as is

[illegible] 5/3/79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

W. L. Barclay 5-8-79
PROJ CONSTR QC ENGINEER DATE

[illegible] 5-9-79
AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

NONCONFORMANCE CLOSED FOR DISPOSITION IN BLOCK 23 5-9-79

26. QC ACCEPTANCE [illegible] 5-9-79
QC ENGINEER DATE

[illegible] 5-9-79
AUTHORIZED INSPECTOR DATE

S/U 2-EAO

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 7220				19. NO. 1993	20. PAGE 1 OF 1
2. UNIT(S): 1&2	3. DRAWING/~~PART NO.~~: M-619-8	REV: 6/13	4. ITEM DESCRIPTION: Spool # CHBC-18-S-619-8 3		5. ITEM LOCATION: 3'N/O Aux. Bldg. 645' Elev. 9"W/4-7	
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 (X) DWG (X) SPEC ( ) OTHER — IR NO. P1C-619 8A NO. Spec. M-204	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: Specification M 204 Para. 5.2.1 States in Part, "Bechtel Isometrics (Installation Isometrics) Are The Governing Drawings For Final Spool Configuration And Installation." Contrary to The Above, Drawing M-619-8 Rev. 6/13 Shows Spool No. CHBC-18-S-619-8 3 To Be A Grinnel Fabricated Spool, But In Actuality A Pup P. Ht # 29241 And A 45° 11 Ht # W6743 Has Been Incorporated Into The Spool, with Q List Number 4.192

#83214 out. Engineering approval. One QC Hold Tag Applied To Spool No. CHBC-18-S-619-8 3

17. REPORTED BY: [illegible] DATE: 3-21-79

18. VALIDATED BY: W. L. Barclay/jfa DATE: 3/22/79

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

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

Configuration of existing design was not modified outside of the tolerances given in spec. 7220-M-214. Therefore, no engineering approval is required. Field welds were issued in accordance with sec. 8.0 of procedure FPP 1.000. Because the pup piece addition was done in accordance with approved specs. and procedures, this is not a nonconforming condition.

D. Shoot 5/3/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE N/A

rework	reject	repair	use as is

J. Gilmartin JFA 5/3/79
PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

D. A. Swanberg 5-8-79
PROJ CONSTR QC ENGINEER — DATE

H. W. Patton Jr. 5-9-79
AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

NONCONFORMANCE CLOSED FOR DISPOSITION IN BLOCK #22 JFA 5-9-79

26. QC ACCEPTANCE J. Arnold 5-9-79
QC ENGINEER — DATE

R. W. Patton Jr. 5-9-79
AUTHORIZED INSPECTOR — DATE

S/U 1-BGB

NONCONFORMANCE REPORT

1. PROJECT NAME: DIABLO			JOB NO.: 7024			19. NO. 2000	20. PAGE 1 OF 1
2. UNIT(S): 1	3. DRAWING/PART NO.: M 603 SH 12	REV: 5/1	4. ITEM DESCRIPTION: STEEL NO. 1HCC-65-S-603-12-1			5. ITEM LOCATION: S/G AREA NUC. BLDG. ELEV. 64' 4½" AT 6	
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: [illegible]	10. CONTRACTOR/SUPPLIER: N/A		
11. INSPECTION CRITERIA (X) DWG (X) SPEC ( ) OTHER IR NO. 1-HC-603-12-1 NO. 17-2-4		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: SPECIFICATION M-204 PARAGRAPH 5.2.1 STATES IN PART, "[illegible] ISOMETRICS (DESIGNATION DRAWINGS) ARE THE GOVERNING DRAWINGS FOR FINAL STEEL CONFIGURATION AND FABRICATION" CONTRARY TO THIS DRAWING M 603 SH 12 SHOWS STEEL NO. 1HCC-65-S-603-12-1 TO BE A CHANNEL FABRICATED STEEL, BUT IN ACTUALITY THIS STEEL HAS INCORPORATED TWO STEEL PLATES AND TWO STEEL PIPE PIECES, NOT IN ACCORDANCE WITH ENGINEERING REQUIREMENTS. Q. LIST # 4.037 ONE LOOP TAG ATTACHED TO STEEL.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
C. McCall	3-26-79	D. Barclay	3-26-79

21. 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

rework	reject	repair	use as is

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Re-inspection and re-review of Specs. M-481, Rev. 15 and M-204, Rev. 10 revealed that the material is acceptable as installed.

D. Brown
5-9-79

26. QC ACCEPTANCE [signature] 5-9-79

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

X

S/V 2-GSA
S/V 1-GSA

CR 3-23-79
~~SYSTEM #~~

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 7220					19. NO. 2001	20. PAGE 1 OF 2
2. UNIT(S): Common	3. DRAWING/PART NO.: M 657 SHEET 45	REV 3/F3	4. ITEM DESCRIPTION: SEE TEXT			5. ITEM LOCATION: Aux. Bldg. Elev. 692/690	
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. NO. M1204		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: SPECIFICATION M-204 PARAGRAPH 5.2.1 STATES IN PART "BECHTEL ISOMETRICS ARE THE GOVERNING DRAWINGS FOR FINAL SPOOL CONFIGURATION AND INSTALLATION." CONTRARY TO THIS, DRAWING M-657 SH. 45 has The Following spools AS BEING GRINNEL FABRICATED SPOOLS, "O"-Listed # 4.5"Ø 4 Hold Tags Affixed To Spools

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
D.L. Fugate	3-23-79	3.23.79 C.E. Barclay	3-26-79

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

Re-inspection and re-review of Specs. M-481, Rev. 15 and M-204, Rev. 10 revealed that the material is acceptable as installed.

F Brown
5.9.79

26. QC ACCEPTANCE F Brown 5.9.79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

270 012

Block #16 continued:
But in actuality, pup pieces have been incorporated into these spools without prior engineering approval.

SPOOL	PUP PIECE
1. OHBC-80-S-657-45-4	FW 39-100A
2. OHBC-80-S-657-45-8	FW 55-103A-54
3. OHBC-79-S-657-45-2	FW 62-101A
4. OHBC-82-S-657-45-2	FW 102A-72

2270-07

Q

Start Up System: Non-Testable Unit

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
Midland	7220	2008	1 OF 1

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
Indeterminate	See Block 16	N/A	ASME SA-106, Grade B Pipe	Standish

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART P/N	REV	SER NO.	9. SOURCE	10. CONTRACTOR/SUPPLIER
See Blk. 16	N/A	N/A			Supplier	Guyon Alloys, Inc.

11. INSPECTION CRITERIA	IR NO	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG (x) SPEC ( ) OTHER	R-1.00-8341 NO See Blk. 16	( ) YES (X) NO	( ) YES (X) NO	(X) Rec'g ( ) Const ( ) Test	( ) Client ( ) Eng (X) FLD

16. NONCONFORMING CONDITION:

Specification M-215, Rev. 1 and M-305, Rev. 3 require Form G-321-D to be submitted with each shipment. Contrary to this, 1 Pc. 5" Sch. 40 Pipe, 2 Pcs. 1" Sch. 40 Pipe, 1 Pc. 12" Sch. 80 Pipe, and 2 Pcs. 1½" Sch. 80 Pipe were delivered without G-321-D. Material was purchased on P.O. F-32945 Q, AEO-8341. "Q" list number is indeterminate. Hold for engineering disposition. 3 hold tag(s) applied.

17. REPORTED BY: R Valentine DATE: 3-28-79

18. VALIDATED BY: T.E. Burchfield DATE: 3-29-79

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

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

DRH 4-3-79

Procurement Supervisor to obtain correct documentation.

D. Shaw 4-3-79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
DOC			

J.D. Swanson 4/3/79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

T.E. Burchfield 4/3/79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Documentation Received and Reviewed.

Rod Valentine
5-1-79

26. R. Valentine 5-1-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

270 012

R

Start Up Code: Non-Testable Unit

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO. 7220			19. NO. 2009	20. PAGE 1 OF 1
2. UNIT(S) Indeterminate	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION ASME SA-105 Heat Code # 778 insert 1 Pc. 2" male S.W. x 1" female threaded Red.		5. ITEM LOCATION Whse. # 1
6. P.O. OR SF-6 NO. 7220-F-94309 Rev. 0	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N ____ REV ____ SER NO. N/A		9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Liberty Equipment Company
11. INSPECTION CRITERIA ( ) DWG (X) SPEC (X) OTHER IR NO M-305 Rev. 3		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) FLD

16. NONCONFORMING CONDITION:

ASME 1977 Edition SA-105 requires the following marking: Manufacturer's mark, designation of service rating, ASTM designation and size. Contrary to the above, 1 pc. of the reducing inserts received on freight bill # CB227916 has no marking stamped on it. "Q" number is indeterminate until installation. Hold pending final disposition. 1 hold tag applied to the nonconforming item.

17. REPORTED BY: Michael J. Moore DATE: 3-21-79

18. VALIDATED BY: [illegible] Barclay DATE: 3-29-79

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

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

Reject: Procurement Supervisor to return unstamped piece to vendor for replacement.

D. Short 4-3-79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

PROJECT FIELD ENGINEER [illegible] DATE 4-3-79

PROJECT ENGINEER [illegible] DATE 4-12-79

PROJ CONSTR QA ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Insert returned to vendor on shipping Notice # 6796 And received back on ALO # 9661

M.J. Moore 5-21-79

26. QC ACCEPTANCE Michael J. Moore 5-21-79

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

X

270 080

2-BNA

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO.: 2017	20. PAGE: 1 of 2
2. UNIT(S): #2	3. DRAWING/PART NO.: M-58 sh 2	REV: 5	4. ITEM DESCRIPTION: Line 2HCB-1, Pen. No. 2(18"SS) Borated Water Storage Tank 2T-60		5. ITEM LOCATION: Pen. 2 Tank Farm - 2T-60
6. P.O. OR SPEC NO.: M-214 Rev. 3	7. SERIAL NO.: N/A	8. REPLACEMENT PART: P/NN/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. N/A NO. M-214 Rev. 3		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: Spec. M-214, Rev. 3, Para. 4.B, states in part:

"For piping 2-½ inches in size and larger - a pipe spool or any part of the system may vary from design position up to a maximum of 2 inches in north-south and east-west direction and in elevation, relative to the plant reference base lines and elevation."

Block #16 Continued on Page 2

17. REPORTED BY: [signature] DATE: 3/21/79

18. VALIDATED BY: [signature] DATE: 3-30-79

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

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

"Use As Is" Project Engineering to change drawing M-58 Sh.2 Rev.5 to reflect existing condition.

D. Shoaf 4-4-79

23. PROJECT ENGINEERING DISPOSITION: Project engineering concurs with the field recommendation to "use as is" based on interim approval of FCR M-1695 which requests a change of the line location on Dwg. M-58, sh. 2 (Q) Rev. 5. (Per ~~XXXXXXXXXX~~ D. Anderson of project engineering on 5-8-79.) T. Krause 5/8/79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

[signature] 5/8/79
PROJECT FIELD ENGINEER DATE

[signature] 5-8-79
PROJECT ENGINEER DATE

[signature] 5-8-79
PROJ. CONSTR QC ENGINEER DATE

[signature] 5-8-79
AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

"Use As Is" PER FCR M-1695
TO M-58 SH. 2
[signature] 5-8-79

26. QC ACCEPTANCE [signature] 5-8-79
QC ENGINEER DATE

[signature] 5-8-79
AUTHORIZED INSPECTOR DATE

Contrary to this, line 2HCB-1 on drawing M-58 sh 2, Rev. 5, at penetration number 2, is out of location approximately 4 inches to the east.

"Q" No. 4.134

Hold For Engineering Disposition.

1 QC Hold Tag Applied To Pipe At Penetration Number 2.

270 031

Start Up Code: Indeterminate

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 7220				19. NO. 2021	20. PAGE 1 OF 3
2. UNIT(S): Indeterminate	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: 2 Pcs. of 48" O.D. x .375 Wall x 11' 0" Pipe, SA-155 KC70 Cl. I Sec.III Cl.II		5. ITEM LOCATION: Poseyville	
6. P.O. OR SPEC NO.: 7220-M-104A-AC	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N ____ REV ____ SER NO. N/A	9. SOURCE: Supplier	10. CONTRACTOR/SUPPLIER: ITT Grinnell		
11. INSPECTION CRITERIA ( ) DWG (x) SPEC (x) OTHER IR NO. R-1.00-9304 NCM-201 Rev. 8	12. ASME AUTHORIZED INSPECTION REQ'D (X) YES ( ) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During (X) Rec'g ( ) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FLD		

16. NONCONFORMING CONDITION: Bechtel Purchase Order M-104A-AC Rev. 11 with attached Material Requisition M-104A Rev. 8 requires documentation in accordance with Form G-321-D. Upon review of the documentation for the 2 Pcs. of pipe received on Grinnell order # KER 10732-P it was found that the G-321-D Form was not signed by supplier or shop inspector. "Q" number is indeterminate until installation. Hold pending final disposition. 2 hold tag(s) applied to nonconforming item(s).

17. REPORTED BY: Michael J. Moore DATE: 3-30-79

18. VALIDATED BY: R. D. Barclay DATE: 3-30-79

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 documentation.

D. Short 4-3-79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
X			

J. J. McLaran R. Jones 4/5/79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER R. D. Barclay DATE 4-9-79

PROJ. CONSTR. ENGINEER H. L. Kelton Jr. DATE 4-9-79

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

DOCUMENTATION RECEIVED AND REVIEWED
MJM
5-7-79

26. QC ACCEPTANCE Michael J. Moore 5-7-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

270 0

BECHTEL

NONCONFORMANCE REPORT (CONT'D) PAGE 2 OF 3 4/2/79 NCR NO. 2021

Block 16 Con't.

A conditional release has been granted to allow fabrication to proceed on subject pipe. Corrections or removal can be accomplished without causing damage or contamination to associated plant equipment or structure.

270 083

J. Schmidt 4/2/79
PFQE DATE

W. Barclay 4-2-79
PFQCE DATE

LA Dornbach 4-2-79
PQAE DATE

H. W. Keton Jr 4-2-79
A.I. DATE

10098-2

QC-613

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

BECHTEL MIDL

H

HO 4-6-79-1 BECHTEL POWER CORP.
ATTN KERT NELSON
RE GRINNELL ORDER [redacted]
TUBE TURNS MP1-427770
BECHTEL FROM G321D FOR SUBJECT ORDER CON. MAILED 4-4-79 TO ATTN
QUALITY CONTROL ENG. FILLED OUT AS FOLLOWS
COL 1 - 17.1 COL 3 - 2
COL 1 - 13.00 COL 3 - 1
COL 1 - 20.0 COL 3 - 1 SET X-RAY FILMS MAILED TO ITT GRINNELL
CAT. NO. 21 WAS SIGNED BY ROBERT C. CAMPBELL MGR. Q.C.
R.C. CAMPBELL MGR. Q.C.
TUBE TURNS HOUSTON

END

NCR # 2021
3 of 3

270 084

Start Up System: Non-Testable Unit

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
Midland	7220	2022	1 OF 1

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
Indeterminate	See Block 16		Spring Hanger	Standish

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART P/N	REV	SER NO.	9. SOURCE	10. CONTRACTOR/SUPPLIER
7220-F-29256	N/A	N/A			Supplier	Corner & Lada Company, Inc.

11. INSPECTION CRITERIA	IR NO.	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG ( ) SPEC (X) OTHER	NCR-1.00-8351 NCF-29256	( ) YES (X) NO	( ) YES (X) NO	(X) Rec'g ( ) Const ( ) Test	( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION:

Field Purchase Order F-29256 Q requires submission of Certificate of Conformance with each shipment. Contrary to this requirement, 1-Fig 80VN, Size 49, Load 9645 Spring Hanger was received without the Certificate of Conformance. Hold for Engineering disposition. "Q" list number is indeterminate.

1 hold tag applied to the hanger.

17. REPORTED BY / DATE: R. Valentine 4.2.79

18. VALIDATED BY / DATE: (SM) D. Shedley 4-2-79

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

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

Field Procurement Supervisor to obtain proper documentation.

D. Shedley 4-6-79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
QC			

L. New RZD — PROJECT FIELD ENGINEER — DATE 4-6-79

PROJECT ENGINEER — DATE

(SM) D. Shedley — PROJ CONSTR QA ENGINEER — DATE 4-12-79

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

Required Disposition has been Received and Reviewed.

R Valentine 5.1.79

26. QC ACCEPTANCE

R. Valentine 5.1.79

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

8005070012

S/U 2-FCA

NONCONFORMANCE REPORT

1. PROJECT NAME: PVP [illegible]		JOB NO.: 7420			19. NO. 2023 ~~2021~~	20. PAGE 1 OF 1
2. UNIT(S): 2	3. DRAWING/~~PART NO~~: M634 SH2	REV: 4/1	4. ITEM DESCRIPTION: SPOOL # 2HC8-322-S-634-2-7		5. ITEM LOCATION: Unit 2 RB AX 64 2' west of 29 1418' south of 6	
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 (X) DWG (X) SPEC ( ) OTHER — IR NO.: P1106342-2		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 (X)Eng ( )FLD	

16. NONCONFORMING CONDITION:
Specification M-204 paragraph 5.2.1 states in part, "Field Forming (Installation Contractors) are the governing drawings for final spool configuration and installation." Contrary to this, Drawing M634SH2 shows two stock material 45° elbows to be incorporated into spool No. 2HC8-322-S-634-2-7. In addition two 22½° elbows (stock material per M-204 para 5.2.3) have been installed instead of the 45° elbows, without engineering approval. One end of the affected spool # 2HC8-322-S-634-2-7.
Q. List # 4322

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
J. McCall	4-2-79	T. O'Barclay	4-3-79

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

Re-inspection and re-review of specs. M-481, Rev. 15 and M-204, Rev. 10 revealed that the material is acceptable as installed.
D Brown
5-9-79

26. QC ACCEPTANCE D Brown 5-9-79
QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

270 086

0

NONCONFORMANCE REPORT

S/U 2GJA 087

1. PROJECT NAME	JOB NO.	19. NO. 2024	PAGE 1 OF 7
MIDLAND	7220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
2	M-657-SH. 4	3/F2	2HBC-217-657-4-6 SPOOL	Aux Bldg. El. 695 5.6 5&B

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
N/A	SEE BLOCK #4	P/N N/A REV N/A SER NO. N/A	CONSTRUCTION	N/A

11. INSPECTION CRITERIA	IR NO.	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
(X) DWG (X) SPEC ( ) OTHER	NO. M-209 REV. 9	(X) YES ( ) NO	( ) YES (X) NO	( ) Rec'g (X) Const ( ) Test	( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION: SPEC. M-209 PARA. 5.2.1 STATES IN PART; "BECHTEL ISO'S (INSTALLATION ISOMETRICS) ARE THE GOVERNING DRAWINGS FOR FINAL SPOOL CONFIGURATION & INSTALLATION"

CONTRARY TO THE ABOVE DWG. M-657-SH4 REV. 3/F2 SHOWS SPOOL # 2HBC-217-657-4-6 TO BE A GRINNEL FABRICATED SPOOL, BUT IN ACTUALITY A 3" PUP PC HT # 24951 HAS BEEN INCORPORATED INTO SPOOL 2HBC-217-657-4-6 WITHOUT PRIOR ENGINEERING APPROVAL

QLIST # 4.572 ONE HOLD TAG APPLIED TO SPOOL 2HBC-217-657-4-6

17. REPORTED BY: X L M. West DATE: 3-30-79

18. VALIDATED BY: 4/2 4/7/79 W F Beasley DATE: 4-2-79

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

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

Configuration of existing design was not modified outside of the tolerances given in spec. 7220-M-214. Therefore, no engineering approval is required. Field welds were issued in accordance with sec. 8.0 of procedure FPP I.000. Because the pup piece addition was done in accordance with approved specs. and procedures, this is not a nonconforming condition.

D. Shoot 5/3/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE N/A

rework	reject	repair	use as is

J D Wheatley 5/3/79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER W F Beasley DATE 5-8-79

QUALITY CONTROL ENGINEER L M West DATE 5-7-79

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

NONCONFORMANCE CLOSED FOR DISPOSITION IN BLOCK #22 5-9-79

26. QC ACCEPTANCE 5-9-79

QC ENGINEER DATE

AUTHORIZED INSPECTOR 5-9-79 DATE

S/U 2-ABA

NONCONFORMANCE REPORT

1. PROJECT NAME: Fulton	JOB NO.: 7220			19. NO. 2026	20. PAGE 1 OF 1
2. UNIT(S): 2	3. DRAWING/PART NO.: M634SH2	REV: 4/F1	4. ITEM DESCRIPTION: SPOOL # 2EBB-15-S-634-2-1	5. ITEM LOCATION: Elev. 69'-8" Rx. Bldg. 5'9" East of 24 12'-9 7/8" North of G	
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 [X] DWG [X] SPEC [ ] OTHER IR NO.: P-110 634-4 NO.: M-204	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:
SPECIFICATION M-204 PARAGRAPH 5.2.1 STATES, IN PART, "PIPING ISOMETRICS (CONSTRUCTION ISOMETRICS) ARE THE GOVERNING DRAWINGS FOR FINAL SPOOL CONFIGURATION AND INSPECTION." CONTRARY TO THIS DRAWING M634SH2 REV. 4/F1 SHOWS SPOOL #-2EBB-15-S-634-2-1 TO BE A GRINNEL SPOOL. IN ACTUALITY THIS SPOOL HAS BEEN REPLACED BY A STOCK PC. OF MATERIAL, (Paragraph 12.3.7) WITH "ENGINEERING APPROVAL", ONE AND THE SAME AS SPOOL #2EBB-15-S-634-2-1, Q. LIST # 4.322

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
G. McCall	4-2-79	Lee Yardley	4-2-79

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

22. [X] Field Engineering Disposition [ ] Field Engineering Recommended Disposition to Project Engineering

Configuration of existing design was not modified outside of the tolerances given in spec. 7220-M-214. Therefore, no engineering approval is required. Field welds were issued in accordance with sec. 8.0 of procedure FPP 1.000. Because the pup ~~piece~~ piece addition was done in accordance with approved specs. and procedures, this is not a nonconforming condition. D. Shaw 5/3/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE N/A

rework	reject	repair	use as is

J. Pilmarte-IRS 5/3/79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE
5/4 Katsaros 5-8-79
PROJ. CONSTR. QC ENGINEER DATE
H. W. Kelton Jr 5-9-79
AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

NONCONFORMANCE CLOSED FOR DISPOSITION IN Block #22 JPA 5-9-79

26. QC ACCEPTANCE J. Arnold 5-9-79
QC ENGINEER DATE
H. W. Kelton Jr 5-9-79
AUTHORIZED INSPECTOR DATE

2-0083

6

5/11 2-FCA

NONCONFORMANCE REPORT

270 089

1. PROJECT NAME: [illegible]	JOB NO.: 7220				19. NO. 2027	20. PAGE 1 OF 1
2. UNIT NO.: 2	3. DRAWING/PART NO.: M-639 SH 6	REV: 4/1	4. ITEM DESCRIPTION: SPOOL # 2106 1-3-639-2-1		5. ITEM LOCATION: [illegible]	
6. P.O. OR SPEC NO.: [illegible]	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV [illegible] SER NO. N/A	9. SOURCE: CONSTRUCTION	10. CONTRACTOR/SUPPLIER: N/A		
11. INSPECTION CRITERIA: (X) DWG ( ) SPEC ( ) OTHER — IR NO. 1-1613-2-8 NO. 27-209	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 ( ) FIELD		

16. NONCONFORMING CONDITION:

SPOOL 2106 WAS FIT UP, INSPECTED & 2 SPOTS, 1 IN PIPE, "ARCHIVE" RADIOGRAPHED [illegible]) AND THE OVERLAP DISCOVERED FOR FINAL STEEL STAMPING AND [illegible] 1/2" FROM WELD TO END, MAKING IT 3 1/2 FROM STEEL VA [illegible] 3421 TO BE CUT & GROUND SMOOTH AND STEEL SET IN PLACE OF P [illegible] SPOOL TO BE FIRE STOCK AND NO THIS SPOOL WITHOUT BEING [illegible] CUT AND FIT P [illegible] SPOOL IS 6342-1.

17. REPORTED BY: [illegible] DATE: 4-27

18. VALIDATED BY: [illegible] DATE: 4-3-79

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

20. (X) Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering

Configuration of existing design was not modified outside of the tolerances given in spec. 7220-M-714. Therefore, no engineering approval is required. Field welds 888 were issued in accordance with sec. [illegible] 0 of procedure FPP 1.000. Because the pup piece addition was done in accordan[illegible] with approved specs. and procedures, this is not a nonconforming condition.

D. Shaft 5/3/17

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE N/A

rework	reject	repair	use as is

[illegible] 5/3/79
PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

[illegible] 5-8-79
PROJECT CONSTR QC ENGINEER — DATE

[illegible] 5-7-79
AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

NONCONFORMANCE CLOSED FOR DISPOSITION IN BLOCK #22 JFA 5-9-79

26. QC ACCEPTANCE [illegible] 5-8-79
QC ENGINEER — DATE

[illegible] 5-9-79
AUTHORIZED INSPECTOR — DATE

0

1 PC-A
2 PC-A
1 PC-B
3/4 2 PC-B

NONCONFORMANCE REPORT

270 030

1. PROJECT NAME: Midland	JOB NO.: 07220					19. NO. 2028	20. PAGE 1 OF 1
2. UNIT(S): 1 & II	3. DRAWING/PART NO.: 1B17, 2B17, 1B18, 2B18	REV: N/A	4. ITEM DESCRIPTION: 480 V. Loadcenters			5. ITEM LOCATION: Aux. Bldg. Elev. 614'	
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. See Block 16 NO. E-6.0	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		

E

16. NONCONFORMING CONDITION:

In accordance with PSP G-4.1. a faulty crimping tool #BPC-2572, has been noted "Out of Calibration" per IOM 0-2211R from A.J. Boos to W.L. Barclay dated March 20, 1979. This tool was used on modifications to 1B17, 2B17, 1B18, 2B18, rendering the quality of the termination indeterminate. QCIR # E-6-19, E-6-20, E-6-29, ~~and~~ and E-6-30.

Q-List # 3.103 Four (4) Hold Tags Applied Hold For Engineering Disposition

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
A.W. Lebovich	4/3/79	W.L. Barclay	4-3-79

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

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

Field Engineering has inspected all the terminations in question, and determined them to be acceptable. ~~XXXXX~~ "Use As Is"

W.B. Stringer 4/9/79

23. PROJECT ENGINEERING DISPOSITION

Project Engineering has reviewed this NCR. Field to visually inspect all terminations, also randomly pull test the terminations for acceptability. "Use as is".

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

C. Miller NSB 4-20-79
PROJECT FIELD ENGINEER DATE

R.F. Casimir RFC 4-18-79
PROJECT ENGINEER DATE

W.L. Barclay 4-26-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Terminations have been pull tested in 1B17, 2B17, 1B18, 2B18 All Completed, Acceptable
A.W. Lebovich 5/10/79

26. QC ACCEPTANCE

A.W. Lebovich 5/10/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

S/U #1-AI A

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 2050	20. PAGE 1 OF
2. UNIT(S): #1	3. DRAWING/PART NO.: M-633 sh 7, Rev. 4/F1, M-633 sh 5, Rev. 2/F1	REV	4. ITEM DESCRIPTION: Valves 1MO-3870A (438-3-062) & 1MO-3870B (438-3-047)	5. ITEM LOCATION: Unit#1 Aux. Bldg.	
6. P.O. OR SPEC NO.: N/A	7. SERIAL NO.: see block 16	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: P-1.30-M633-5-1 NO: M-204 Rev. 10	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: Specification M-204, Rev. 10, Para. 5.2.1 - states in part: "Bechtel isometrics (installation isometrics) are the governing drawings for final spool configuration and installation." Contrary to drawings M-633 sh 7, Rev. 4/F1 and M-633 sh 5, Rev. 2/F1, the installed location of valves 1MO-3870A (438-3-062) serial number 2N-1259 and 1MO-3870B (438-3-047) serial number 2N-1258 are reversed. "Q" No. 4.304 Hold For Engineering Disposition.

2 Q.C. Hold Tags Applied - one to each valve.

17. REPORTED BY: [illegible] DATE: 4/19/79

18. VALIDATED BY: [illegible] DATE: 4-19-79

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

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

Field to change tagging on valves such that valve S/N 2N-1259 is tagged 1MO3870B(438-3-062) and valve S/N 2N-1258 is tagged 2MO3870A(438-3-62).

Field to revise documentation packages to agree with revised tagging.

D. Shortt 5/3/79

23. PROJECT ENGINEERING DISPOSITION: REVISED DISPOSITION:

Field to change tagging on valves such that valve S/N 2N-1258 is tagged 1MO 3870B (437-3-047) and valve S/N 2N-1259 is tagged 1MO 3870A (438-3-62).

Field to revise documentation packages to agree with revised tagging.

R. L. Ward 5/4/79

D. Shortt 5/1/79

SEE PAGE 2 FOR BLOCK 23

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

PROJECT FIELD ENGINEER J. D. Conner 5-4-79 DATE

PROJECT ENGINEER [illegible] 5-3-79 DATE

PROJ CONSTR QC ENGINEER [illegible] 5-3-79 DATE

AUTHORIZED INSPECTOR [illegible] DATE

25. DISPOSITION RESULTS

VALVE (437-3-047) S/N 2N-1258 IS TAGGED 1MO-3870B, AND VALVE (438-3-62) S/N 2N-1259 IS TAGGED 1MO-3870A. Documentation packages were revised to agree with above tagging.

D. Shortt 5/8/79

26. QC ACCEPTANCE D. Shortt 5/8/79

QC ENGINEER [illegible] DATE

AUTHORIZED INSPECTOR [illegible] 5-8-79 DATE

2 continuation sheet

NONCONFORMANCE REPORT (CONT'D) PAGE 2 OF 3 NCR NO 2050

BLOCK 23

PROJECT ENGINEERING DISPOSITION

Project engineering concurs with the field recommendation to "use as is", provided the equipment tag numbers are switched and appropriate changes are made in the document packages to reflect the switched tag numbers. (Per telecon with R. Papps of project engineering, 5/8/79.) R. Krum, 5/8/79

270 092

NONCONFORMANCE REPORT (CONT'D)

KEB 6-2-79 3 3 DBH 5-7-79 6/4/79

20. PAGE ~~2~~ OF ~~2~~ 3

19. NCR NO. 2050

24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS
			X

J. Schwartz/BJB — PROJECT FIELD ENGINEER — DATE 5/8/79

R.K. Basuthy/RLC — PROJECT ENGINEER — DATE 5-8-79

K. Baralay — PROJECT CONSTR QC ENGINEER — DATE 5-8-79

A.W. Kotrba — AUTHORIZED INSPECTOR — DATE 5-8-79

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
			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

X

S/U 1-GTC

NONCONFORMANCE REPORT

1. PROJECT NAME: MIDLAND	JOB NO.: 7220					19. NO. 2067	20. PAGE 1 OF 2
2. UNIT(S): ONE	3. DRAWING/PART NO.: M512-SH3	REV.: 5/F1	4. ITEM DESCRIPTION: PUP PIECE ATTACHED TO FILLED HEAD 12-33			5. ITEM LOCATION: COMBO SHOP	
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. P-1.20-3 NO. M204, REV 10		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: SPEC. M204, REV 10, PARA 5.2.6 (WALL THICKNESS REQUIREMENTS) STATES: MINIMUM WALL THICKNESS FOR FABRICATED ASSEMBLIES AS FINALLY FABRICATED SHALL BE AT LEAST 87½% OF THE NOMINAL WALL THICKNESS FOR PIPE SPECIFIED BY NOMINAL WALL. CONTRARY TO THE ABOVE, DURING FABRICATION, THE TEMPORARY FIT-UP LUGS WERE GROUND OFF TOO DEEPLY AND VIOLATED MINIMUM WALL REQUIREMENTS. THE NON-CONFORMING AREA IS LOCATED (SEE CONTINUATION SHEET PAGE 2)

17. REPORTED BY: M. Hallaland DATE: 4-13-79

18. VALIDATED BY: J.B. Barclay DATE: 4-13-79

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

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

Rework- per spec. 7220-G-27(0) procedure specification IRP-1 Rev.0 Inspection and repair of surface defects.

K.C. Bishop
4/19/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
X			

W. Neely RRA 4-20-79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE
4-20-79 J.B. Barclay 4/26/79
PROJ. CONSTR. ENGINEER DATE
J.W. Keeton 5-1-79
AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS
Repaired per 7220-G-27 procedure specification IRP-1 Rev 0 and accepted per RT-ASME Rev 0 4/30/79
David Parfitt

26. QC ACCEPTANCE: David Parfitt 5/18/79
QC ENGINEER DATE
J.W. Keeton 5/25/79
AUTHORIZED INSPECTOR DATE

270 094

(BLOCK 16 CONTINUED)

ON PUP PIECE ATTACHED TO FLUED HEAD 12-33 AT F.W 30 THE GROUND OUT AREA IS 1½" LONG AND ¼" WIDE, ALSO IT IS APPROX 1/8" DEEP. MINIMUM WALL THICKNESS IS .328 AND THE DEPTH OF THE GROUND OUT AREA WAS MEASURED WITH PIT GUAGE # BK-M269 EXPIRATION DATE 9-15-79 AND WAS FOUND TO BE .115 DEEP LEAVING WALL THICKNESS AT .260 WHICH VIOLATES MINIMUM WALL REQUIREMENTS PUP PIECE IS 5'-3" LONG, AND HT # KI ~ 10732 NOMINAL WALL IS .375

Q# 4.537 ONE Q.C. HOLD TAG APPLIED TO PUP PIECE

0270 005

X

(5)

NONCONFORMANCE REPORT

SA No Facility 425

1. PROJECT NAME: [illegible]	JOB NO.: [illegible]					19. NO. 2077	20. PAGE 1 OF 2
2. UNIT(S): Single Pe-	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: 720 bags Premixed Unbonded Waterflow #713 Grout			5. ITEM LOCATION: Vbse. # 2	
6. P.O. OR SEC. NO.: 7220-F-3192 Rev. 0	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N:	REV:	SER NO.: N/A	9. SOURCE: Supplier	10. CONTRACTOR/SUPPLIER: Master Builders	

11. INSPECTION CRITERIA: ( ) DWG ( ) SPEC ( ) OTHER — IR NO. B-1, [illegible] NO. [illegible] 33 Rev. 4

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) FLD

16. NONCONFORMING CONDITION: Bechtel Purchase Order 7220-F-3192 R-1, 3 requires sampling and testing onsite for compressive strength as follows:

3000 psi @ 3 days

5000 psi @ 5 days

6000 psi on or before 28 days. Contrary to the above, Test # SP 762 failed to achieve the required 3000 psi @ 3 days. "0" number is indeterminate. Hold pending final disposition. FT 425 hold tag(s) applied to the grout.

17. REPORTED BY: Michael J. Moore DATE: 4-16-79

18. VALIDATED BY: [illegible] DATE: 4-16-79

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

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

Disposition requested by: 4/30/79

"Use As Is" based on the compressive strength acceptance test results listed below:

AGE (days)	COMPRESSIVE STRENGTH Cyl.1(psi)	Cyl.2(psi)	Cyl.3(psi)	Average(psi)
3	2840	2860	2780	2830
7	5140	5230	5260	5210

Con't.

23. PROJECT ENGINEERING DISPOSITION: For the referenced cylinder tests, the lower than specified strengths in the early curing stages will not have a significant effect on the long term strength results. Therefore, project engineering recommends that the 713 grout be "Used as is".

[illegible] 4-30-79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

PROJECT FIELD ENGINEER: [illegible] DATE: 5/2/79

PROJECT ENGINEER: R R Baumann/RE DATE: 4-30-79

PROJ CONSTR QC ENGINEER: [illegible] DATE: 5-3-79

AUTHORIZED INSPECTOR: DATE:

25. DISPOSITION RESULTS

26. QC ENGINEER: Michael J. Moore DATE: 5-7-79

AUTHORIZED INSPECTOR: DATE:

RIMM Block 22 Con't.

AGE (days)	COMPRESSIVE STRENGTH Cyl.1(psi)	Cyl.2(psi)	Cyl.3(psi)	Average(psi)
14	6630	6250	7000	6630

B.D. Kopsahelis 4/25/79
D.O. Hundley 4/25/79

270 097

NONCONFORMANCE REPORT

S/U - NON-TESTABLE UNIT

2700 098

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO.: 2092	20. PAGE 1 OF 1
2. UNIT(S): Common	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: Cadwelding		5. ITEM LOCATION: Aux. Bld. El. 685'
6. ~~P.O. OR~~ SPEC NO.: C-231 Rev.17	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. C-6.00-769 NO. C-231 Rev.17	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) [illegible] (x) Const ( ) Test	15. Equip Furnished By ( ) Client ( ) Eng (X) FLD	

16. NONCONFORMING CONDITION: Spec. C-231 Rev. 17 Section 10.8 states in part that ...

"Members of Cadweld Splicing crews shall prepare two (2) qualification splices for each splice position. The completed splices shall pass visual inspection and meet the tensile strengths required." Contrary to the above, Iron Worker # 120 made two Horizontal # 8 cadwelds on 4/17/79 and was not qualified until one day later - 4/18/79. IW#-120 has Vertical qualifications.

"Q"- List # 1.204, Hold for Engineering Disposition, Two (2) Hold Tags Applied.

17. REPORTED BY: [signature] DATE: 4/23/79

18. VALIDATED BY: T.W. Barclay DATE: 4-23-79

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

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

Disposition by 4/30/79

Based on the fact that the qualification shots were made prior to the #8 cadwelds mentioned above and the fact that the qualification shots were acceptable, the field recommends to "use as is". Please note that the #8 cadwelds are acceptable by visual examination.

[signature] 4/25/79

23. PROJECT ENGINEERING DISPOSITION: Project engineering has determined that the purpose of qualifing a shooter for a specific position is to check the capability of the shooter to perform cadwelds. Project engineering concludes that the subject cadwelds be "used as is" based on the following: 1) Shooter was qualified for shooting vertical cadwelds and therefore was familiar with cadweld operations. 2) The shooter was qualified for horizontal cadwelds one (1) day after the non conforming condition accurred. 3) The subject cadwelds were visually inspected and found acceptable. 4) No further additional test is required.

BFM C-2210 J. Hutton Jr 5-8-79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

J. Gilmore for JHH 5/8/79
PROJECT FIELD ENGINEER DATE

R.K. Baumann/RLC 5-8-79
PROJECT ENGINEER DATE

T.W. Barclay 5-8-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE [signature] 5/8/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

X

NONCONFORMANCE REPORT

27000 Sil / Non Testable Unit

1. PROJECT NAME	JOB NO.	19. NO. 2097	20. PAGE 1 OF 6
Midland	07220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
II	E-42	39	Unscheduled Pullbox Size	Unit II Containment See Block 16

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
N/A	N/A	P/N N/A REV N/A SER NO. N/A	Construction	N/A

11. INSPECTION CRITERIA	IR NO.	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
XX DWG ( ) SPEC ( ) OTHER	2AG049, 2ALA008 NO. 2CG017	( ) YES (X) NO	(X) YES ( ) NO	( ) Rec'g XX Const ( ) Test	( ) Client ( ) Eng ( ) FLD

16. NONCONFORMING CONDITION:

Drawing E-42, sheet 42 states; "1. For angle pulls "A" and "B" equals six (6) times the diameter of the largest conduit plus the sum of the diameter of all other conduit entries on the same wall of the box." (see page three) Contrary to the above, there are three (3) boxes in the Unit II Containment that do not meet the size criteria of E-42, Sheet 42. (See sketches) The boxes that are non-conforming are unscheduled boxes for 2ALA008, Elevation 599', 105°, on outside of Secondary Shield Wall;

(Continued Page Two)

17. REPORTED BY: Ashok Arora DATE: 4/25/79

18. VALIDATED BY: D.C. Bartley DATE: 4-24-79

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

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

Field Engineering has checked cable sizes routed thru boxes in question on pgs.4,5&6 and found the bend radius will not be violated. Recommend to use as is.

W.B. Hagan 5/6/79

23. PROJECT ENGINEERING DISPOSITION: Project engineering has verified that minimum bend radius will not be violated and concurs with the field recommended disposition to "use as is".

P. Colbell 5/14/79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

W. Miller RB 5-16-79
PROJECT FIELD ENGINEER DATE

K R Barnhart/RLC 5-14-79
PROJECT ENGINEER DATE

D.C. Bartley 5-21-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Disposition, by Project, acceptable
M Cora 5/20/79

26. QC ACCEPTANCE M Cora 5/20/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

Block 16 Continued (from page one)

2AG049, Elevation 600', 90°, on inside of Secondary Shield Wall; and 2CG017, Elevation 622', 105°, on inside of Secondary Shield Wall.

Q-List Number 3.006 Three (3) Hold Tags Applied Hold For Engineering Disposition

270 100

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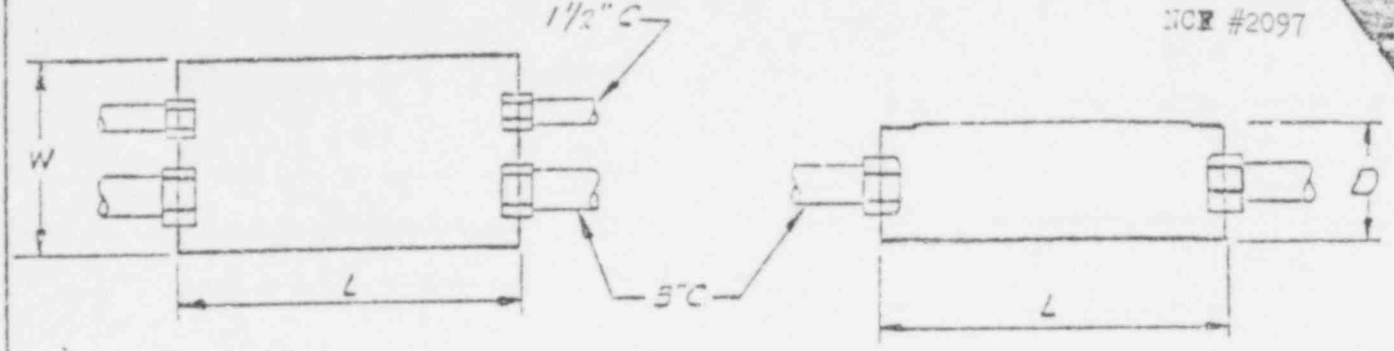
ICE #2097

STRAIGHT PULLS

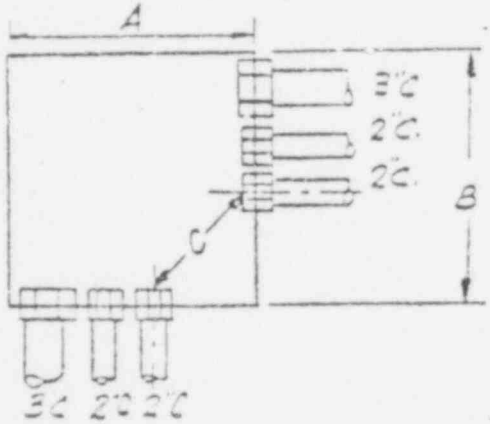


1. FOR STRAIGHT PULLS "L" = 8 TIMES THE DIAMETER OF THE LARGEST CONDUIT.
2. "W" & "D" DIMENSIONS ARE GOVERNED BY SIZE OF THE CONDUIT AND FITTING, PER TABLE ON SHEET 43.

EXAMPLE:

L = 8 x 3" = 24" (MIN LENGTH)
W = 3¾" + 1½" + 2½" = 7¾" (MIN WIDTH) } SEE (J3 / F42) (TYP)
D = 2½" + 2½" = 5" (MIN DEPTH)

ANGLE PULLS



1. FOR ANGLE PULLS "A" & "B" = 6 TIMES THE DIAMETER OF THE LARGEST CONDUIT PLUS THE SUM OF THE DIAMETER OF ALL OTHER CONDUIT ENTRIES ON THE SAME WALL OF THE BOX.
2. C = 8 TIMES THE DIAMETER OF THE LARGER OF THE TWO CONDUITS, OR (3) THE BENDING RADIUS OF THE CABLE.

EXAMPLE:

A = 6 x 3" + 2" + 2" = 22"
B = 6 x 3" + 2" + 2" = 22"
C = 8 x 2" = 16"
(MIN DIMENSIONS)

SIZING OF UNSCHEDULED PULLBOXES

(FOR LOW VOLTAGE CABLES ONLY)

No	DATE	REVISIONS	BY	CHK	DESIGN SUPV	ENGR	PROJ ENGR	APPR
4	10-12-77	ADD. G INDICATOR TO DWG. NO.	DAF	BC	DLH	RAF	RCL	
3	3-10-77	REVISED NOTE 2.	SES	BC	DLH	RAF	RCL	
2	3-14-74	ISSUED FOR CONSTRUCTION	RAF	KG	RAF	LIN		

SCALE NONE | DESIGNED R.A. FLOMM | DRAWN R.A. FLOMM | CHKD | ENGR | PROJ ENGR

ORIGIN

MIDLAND PLANT UNITS 1 AND 2
CONSUMERS POWER COMPANY
CONDUIT AND TRAY
NOTES, SYMBOLS AND DETAILS

270

ICE No. 7220
DRAWING No. E-2(Q) SH. 42
REV. 3

"A" SIZE

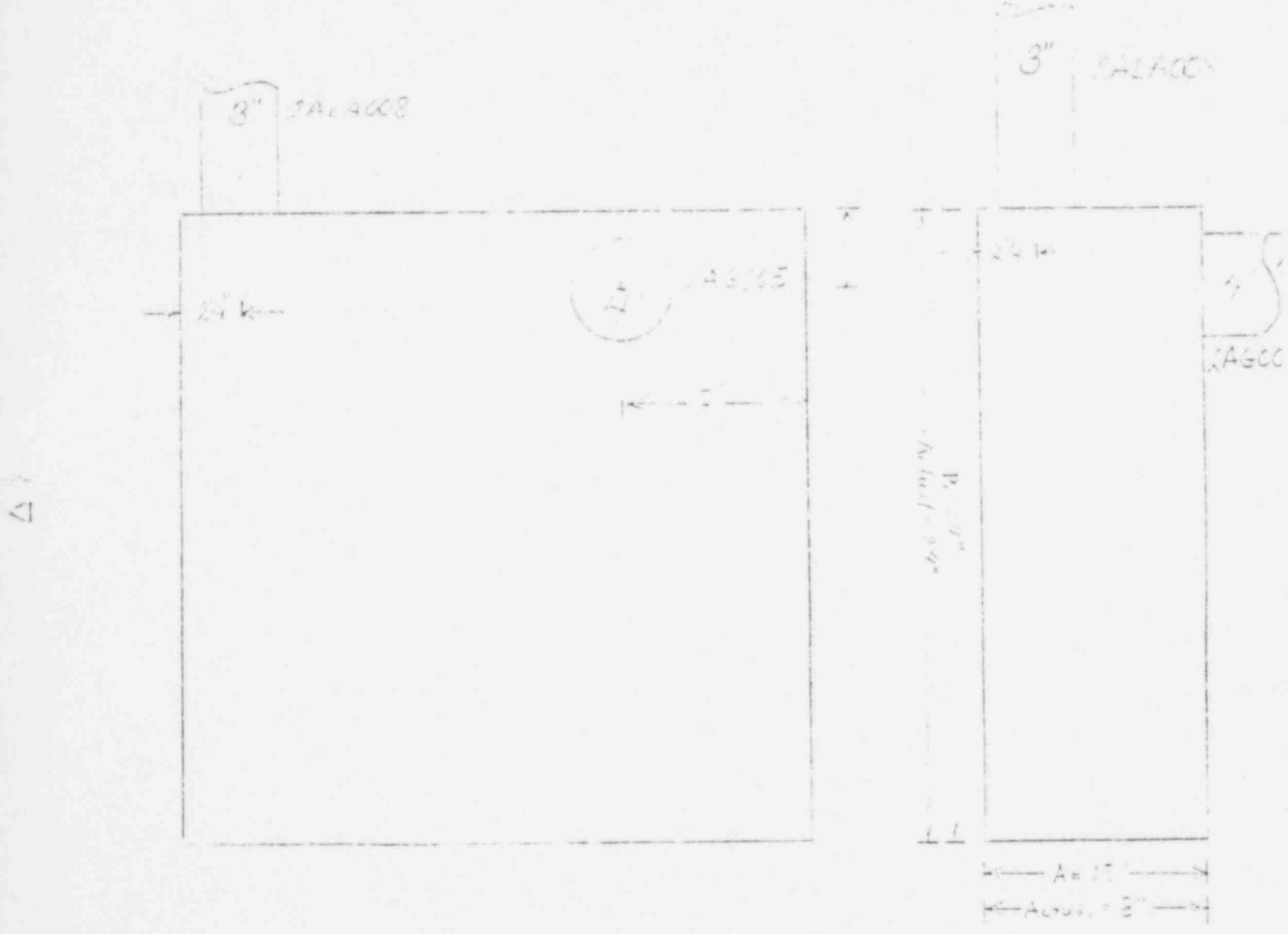
CALCULATION SHEET

DESIGN BY _____ DATE _____ CHECKED BY _____ DATE _____ SHEET NO. _____

PROJECT _____ JOB NO _____

SUBJECT _____ CALCULATION NO _____ FILE NO _____

NCR #2097



270 102

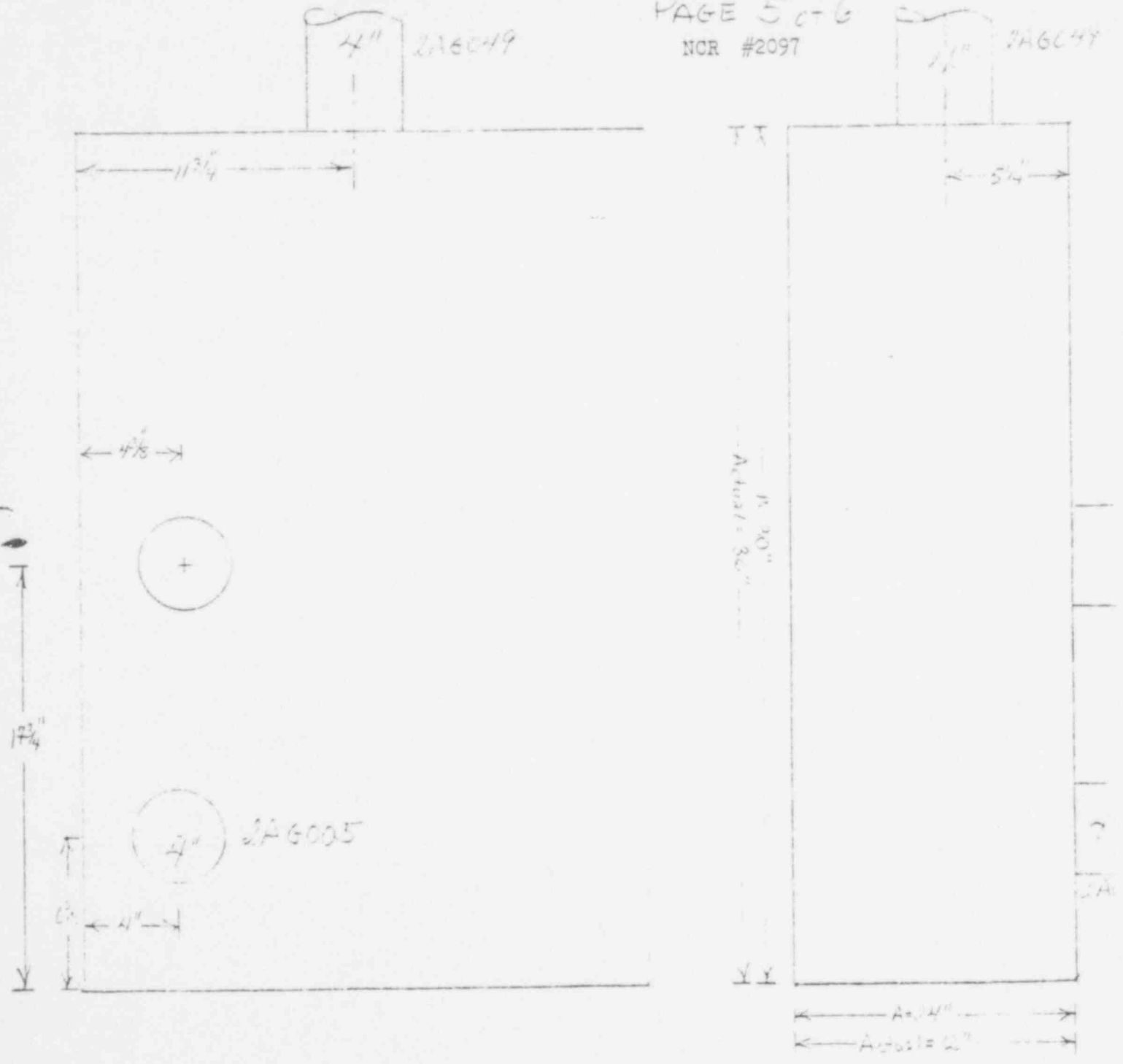
CALCULATION SHEET

DESIGN BY _____ DATE _____ CHECKED BY _____ DATE _____ SHEET NO _____

PROJECT _____ JOB NO _____

SUBJECT _____ CALCULATION NO _____ FILE NO _____

PAGE 5 of 6
NCR #2097



2AGC49 pullbox

270 103

BECHTEL

CALCULATION SHEET

DATE

DESIGN BY DATE CHECKED BY SHEET NO

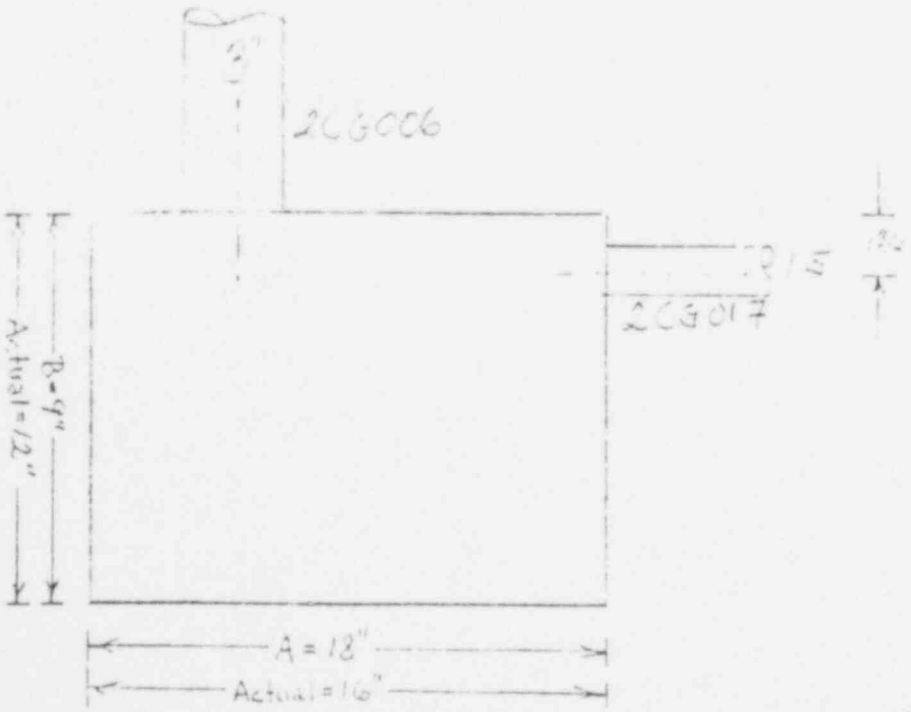
PROJECT JOB NO

SUBJECT CALCULATION NO FILE NO

PAGE 6 of 6

NCR #2097

2CG017 pullbox



270 104

0

SH # 2 EAC

NONCONFORMANCE REPORT

1. Project Name: Midland	Job No. 7220			19. No. 210	20. Page 1 of 1
2. Unit(s): #2	3. Drawing/Part No.: M-619 sh 1	Rev: 6/F5	4. Item Description: Lugs On Spool 2HBC-109-619-1-6	5. Item Location: Cont #2 Elev. 607'-6"	
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: ☐OWG ☒SPEC ☐OTHER — IR NO. P-1.10-1, NO. M-204 Rev. 10	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: Spec. M-204, Rev. 10, Para. 4.1.3 states in part: "Material identification markings shall be transferred before cutting to all pieces where a part is cut to make more than one component." Contrary to the above, the eight lugs used in hanger sketch #2-619-1-8 on pipe spool 2HBC-109-619-1-6 are marked EME-989 and Shop Work Order #H-1364. A review of the material package revealed that there wasn't any material that these lugs (1¼" x 1½" x 2½") could be fabricated from. "Q" 4.192

Hold For Engineering Disposition. One Q.C. Hold Tag Applied At Lugs.

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: 4-21-79

18. Validated By: [signature] Date: 4-25-79

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: Re-inspection and review of material receiving reports, revealed that material is acceptable as Q-material. Therefore this non-conformance report is closed.

[signature]
5/8/79

26. QC Acceptance: [signature] 5-8-79
QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

607'-6"

Start Up System: Non-Testable Unit

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.			19. NO. 2107	20. PAGE 1 OF 1
Midland	7220				
2. UNIT(S) Indeter-minate	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION 600 Volt 2/C Class H 7/16 AWG Cu. 64J° Cable	5. ITEM LOCATION Poseyville	
6. P.O. OR SPEC NO. 7220-E-59	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N ____ REV N/A SER NO. ____	9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Rockbestos	
11. INSPECTION CRITERIA ( ) DWG (x) SPEC ( ) OTHER IR NO. R-1.00-9381 NO. E-59 Rev. 2	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 (X)Eng ( )FLD	

16. NONCONFORMING CONDITION: Technical Specification E-59 requires complete Quality Verification Documentation according to the G-321-D Form. Contrary to this, Quality Verification Documentation was not received for P.O. Item 302 (4 Reels-1⁴,695'), Reel's A8719, B1182, B1181, B1487. Hold for engineering disposition. 4 hold tag(s) applied to nonconforming item(s). "Q" number is indeterminate.

17. REPORTED BY [signature] DATE 4/24/79

18. VALIDATED BY [signature] DATE 4-26-79

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

THIS NCR MISTAKENLY WRITTEN AGAINST NON-"Q" MATERIAL

[signature] 5-3-79

26. QA ACCEPTANCE [signature] 5/3/79

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

Q

FTD 413

2-BKA
S/U 2-~~BKA~~

NONCONFORMANCE REPORT

1. PROJECT NAME: MIDLAND	JOB NO.: 7220					19. NO. 2109	20. PAGE 1 OF 1
2. UNIT(S): 2	3. DRAWING/PART NO.: 2-613-3-28 S033	REV: 2	4. ITEM DESCRIPTION: HANGER #2 2GCB-17			5. ITEM LOCATION: AUX. BLD. ELV. 568.0	
6. P.O. OR SPEC NO.: N/A	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV SER NO.	9. SOURCE: CONST.	10. CONTRACTOR/SUPPLIER: N/A			
11. INSPECTION CRITERIA (X) DWG ( ) SPEC (X) OTHER IR NO. C-1,30-5 L NO. 2-613-3-28 C-305 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 ( )Clien (X)Eng ( )FLD			

16. NONCONFORMING CONDITION:

HANGER SKETCH 2-613-3-28 CALL FOR (4) 3/4" ANCHORS. SPEC. C-305 REV. 8 PARAG. 5.0 STATES IN PART, ALL INSTALLED EXPANSION ANCHORS SHALL BE VISUALLY INSPECTED FOR CORRECT INSTALL. IN. CONTRARY TO ABOVE (4) 5/8" EXPANSION ANCHORS HAVE BEEN INSTALLED.

"O" NO 4.131

1 HOLD TAG APPLIED TO HANGER

17. REPORTED BY: John F. Spence DATE: 4/24/79

18. VALIDATED BY: [illegible] DATE: 4-26-79

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

RE-INSPECTION OF THE INSTALLED EXPANSION ANCHORS REVEALED THAT THE ANCHORS ARE NOT NON-CONFORMING THEREFORE THIS NCR. MAY BE CLOSED.

26. QC ACCEPTANCE J. F. Spence 5/11/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

NONCONFORMANCE REPORT

SU# 1PRA & 2PRA

2108

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 2110	20. PAGE 1 OF 1
2. UNIT(S): 1 & 2	3. DRAWING/PART NO.: E 610	REV: 11	4. ITEM DESCRIPTION: 480V Distribution Panels 1BP03, & 2BP03		5. ITEM LOCATION: AUX BLDG EL 584'
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 E-6.0-1911 192 NO E-45		12. ASME AUTHORIZED INSPECTION R'Q'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: FIELD PROCEDURE FPD 1.000 para. 21.3 states that all Field Engineers and Superintendents shall be responsible for ascertaining that the work in their assigned area is done in accordance with the latest DWG revisions and Project Specifications. Contrary to the above, these Panels were installed without Project approved Dwgs or Engineering approval

HOLD FOR ENGINEERING DISPOSITION Q List # 3.108

2 HOLD TAGS APPLIED (1 ea Panel Door outside)

17. REPORTED BY: C.L. Sp[illegible] DATE: 4/25/79

18. VALIDATED BY: [illegible]Beverley DATE: 4-26-79

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

22. ☒ Field Engineering Disposition ☒ Field Engineering Recommended Disposition to Project Engineering

NCR does not apply. These were mounted using instructions provided by IOM BEBC 2624, dated 1/4/79 - To: J.F. Newgwn from R.L. Castleberry. Vendor print 7220-E-45-3 shows configuration of mounting holes.

T.S. Bergen 5/11/79

23. PROJECT ENGINEERING DISPOSITION: Project engineering provided instruction to mount the referenced panels by IOM BEBC-2624. The vendor print 7220-E-45-3, which shows the configuration of mounting holes, will be revised incorporating the instructions transmitted.

J. Lai 5/17/79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

C. Mullikin 5-21-79
PROJECT FIELD ENGINEER DATE

S.R. Bassett/EC 5-17-79
PROJECT ENGINEER DATE

[illegible]Beverley 5-24-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS: Used as is

5/23/79
5/23/79
5/24/79

QC Signed 5/24/79

26. QC ACCEPTANCE 5/24/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

Start Up Code: Indeterminate

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 2111	20. PAGE 1 OF 1
2. UNIT(S): Indeter-minate	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: 2 Each Capacitor, 13 MFD @ 1000 VAC		5. ITEM LOCATION: Warehouse 7 1
6. P.O. OR SPEC NO.: 7220-E-19	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N ___ REV N/A SER NO.	9. SOURCE: Supplier	10. CONTRACTOR/SUPPLIER: Solid State Control	
11. INSPECTION CRITERIA: ( ) DWG (X) SPEC ( ) OTHER IR NO R-1.00-9330 NO E-19 Rev. 5	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 (X) Eng ( ) FED	

16. NONCONFORMING CONDITION:

Technical Specification E-19 requires Quality Verification Documentation according to Form G-321-D. Contrary to this no Quality Verification Documentation was received with Item described above. Hold for engineering disposition. "Q" number is 3.301. 1 hold tag applied to nonconforming item.

17. REPORTED BY: [signature] DATE 4/24/79

18. VALIDATED BY: W.J. Beckley/FSE DATE 4/24/79

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

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

These capacitors are Bulk Items, Cert. of Conformance was furnished. ~~Capacitors will not be put in service(are spares).~~

W.B. Stiger 5/8/79

23. PROJECT ENGINEERING DISPOSITION: The supplier, Solid State Controls, has furnished a certificate of conformance which states that the subject capacitors comply to the original specification E-19. Use as is.

J. Lahr 5/22/79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

PROJECT FIELD ENGINEER [signature] DATE 5-23-79

PROJECT ENGINEER J R Basemby/KLC DATE 5-22-79

(X) QA/QC ENGINEER [signature] DATE 5-25-79

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Certificate of Compliance received, constituting closure of NCR as reflected by disposition 5-29-79 JHS

QC ENGINEER [signature] 5-29-79 DATE

AUTHORIZED INSPECTOR DATE

270 109

NON TESTABLE

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 07220			19. NO. 2117	20. PAGE 1 OF 1
2. UNIT(S): Common	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: Tendon Sheathing Protective Coatings		5. ITEM LOCATION: Cont. #2
6. P.O. OR SPEC NO.: F 34894	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. N/A NO. C-49 Rev.1	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:

Viscosity 2090-P4, protective coating for tendons, has been purchased as a "Non-Q" item on the above referenced P. O. Section 8.1.1 of C-49 Rev.1 required a "Users Test" to verify conformance with chemical limitations specified in 6.2.2. Contrary to the above, the material purchased as "Non-Q" was not furnished with required tests. Material used on app. 50 Tendons. Q-List # 1.108. Hold for Engineering Disposition. No Hold Tags Applied.

17. REPORTED BY: Stephen M Gehrett DATE: 4/21/79

18. VALIDATED BY: Robert Barclay DATE: 4-27-79

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:

THIS IS NOT A "Q" ITEM. THE SCOPE OF WORK COVERED IN SPECIFICATION C-49 IS THE FILLER MATERIAL TO BE USED IN THE SPACE LEFT BETWEEN THE POST TENSIONED TENDONS AND THE SHEATHING. THE USE OF THE GREASE IN QUESTION IS TO COAT THE LEAD END OF THE TENDON FOR EASE OF INSTALLATION, TO REPLACE ANY CORROSION PROHIBITOR WHICH MAY HAVE BEEN RUBBED OFF THE TENDONS, AND TO ASSIST IN PROTECTING THE EXPOSED ENDS OF THE TENDON FROM THE WEATHER. THE ATTACHED TELECON WITH PROJECT ENGINEERING CONFIRMS THAT THE MATERIAL IN QUESTION IS NON-Q. AS SUCH, NO NON-CONFORMING CONDITION EXISTS.

Paul A. Boyulen 4/30/79 N Brant 4/30/79

24. DISPOSITION CONCURRENCE

N/A

rework | reject | repair | use as is

PROJECT FIELD ENGINEER DATE 4/30/79

PROJECT ENGINEER DATE

PROJ CONSTR QC ENGINEER DATE 4/30/79

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

MATERIAL WAS ORDERED AS NON-Q, THEREFORE THIS IS NOT A NONCONFORMING ITEM

26. QC ACCEPTANCE 5/14/79

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

270 110

Class Up Code: Indeterminate

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO. 7220				19. NO. 2121	20. PAGE 1 OF 1
2. UNIT(S): Indeter-minate	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: (3 Each) 2 Pole, 500VAC, 250 VDC Molded Case Circuit Breakers		5. ITEM LOCATION: Q.C. Hold, Whse. # 1	
6. P.O. OR SUBCONTRACT NO.: 7220-F-34203 Rev. 0	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV SER NO.		9. SOURCE: Supplier	10. CONTRACTOR/SUPPLIER: McGowan Electric Supply Inc.	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER IR NO R-1.00-9402 NO F-34203 Rev.0	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)FLD		

16. NONCONFORMING CONDITION: Purchase Order 7220-F-34203 Rev. 0 requires the above listed material to be Westinghouse, Type LA-600, Style No. 2603D50G01. Contrary to the above, the material received is Westinghouse, Type LA-600, Style No. 2603D48G01. Hold for engineering disposition. "Q" number is indeterminate. 3 hold tag(s) applied to the nonconforming material.

17. REPORTED BY: Rick C. Montieth DATE: 4-27-79

18. VALIDATED BY: (JH) W.T. Barclay DATE: 4-27-79

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

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

This is not a non-conformance. Field has inspected the material and found all parts accountable. Per pg. 244 of Westinghouse catalog 25-000, style # 2603D50G01 consists of the 2603D48G01 frame and 2603D46G07 trip (installed)

P. Sturgeman 5-3-79

W.B. Hayes 5-3-79

23. PROJECT ENGINEERING DISPOSITION: Project engineering has reviewed this NCR. The "non-conforming" style no. 2603D48G01 is the frame no. for the style no. 2603D5-0G01 breaker. Use as is.

J. Lake 5/14/79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

C. Tue-ASB 5-8-79
PROJECT FIELD ENGINEER DATE

J.R. Bauman/RLC 5-7-79
PROJECT ENGINEER DATE

W.T. Barclay 5-11-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE Deanell Delaney 5/14/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

X

NONCONFORMANCE REPORT

1-EGA

270 112

1. PROJECT NAME: MIDLAND	JOB NO.: 07220			19. NO. 2123	20. PAGE 1 OF 2
2. UNIT(S): 1	3. DRAWING/PART NO.: M 616 SH. 4	REV: 2/F4	4. ITEM DESCRIPTION: PIPE SPOOL 1-ICC-417-S-6-16-4-1		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 SER NO. N/A		9. SOURCE: CONST.	10. CONTRACTOR/SUPPLIER: N/A
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER	IR NO. P.I.0-616-4-1 NO. M 204 FIW-1	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: SPECIFICATION M-204 REV. 10 PARAGRAPH 5.2.6 STATES IN PART "MINIMUM WALL THICKNESS FOR FABRICATED ASSEMBLIES AS FINALLY FABRICATED SHALL BE AT LEAST 75% OF NOMINAL WALL THICKNESS FOR 12" & UNDER HCB & HCC CLASS PIPE ONLY." ALSO FIW-1 ITEM 11 STATES LUG REMOVAL - "WHERE LUGS OR DOGS ARE USED FOR FIT-UP, THEY SHOULD BE GROUND OR BURNED OFF. UNDER NO

17. REPORTED BY: Keith J Roberge — DATE: 5-1-79

18. VALIDATED BY: [illegible] — DATE: 5-1-79

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

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

A SECTION OF PIPE 8" LONG IS TO BE CUT OFF FROM THE DAMAGED END OF SPOOL 1-ICC-417-S-616-4-1 DESIGNATED BY FW. #3 AND REPLACED WITH A PUP PIECE 8" LONG OF SAME CLASS AND SCHEDULE PIPE.

AA. 5-1-79 KANilson 5/1/79 RWard 5/1/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

return	reject	repair	use as is
	X		

J.C. Wilson Jr./ARB — PROJECT FIELD ENGINEER — 5/1/79 DATE

PROJECT ENGINEER — DATE

[illegible] — PROJ. CONSTR. QC ENGINEER — 5-1-79 DATE

[illegible] — AUTHORIZED INSPECTOR — 5-1-79 DATE

25. DISPOSITION RESULTS

AN 8" PIECE WAS CUT OFF THE DAMAGED END & REPLACED WITH A STOCK PIECE AT #E55786. THE DAMAGED PIECE WAS PUT INTO SCRAP.

Keith J Roberge 5-4-79

26. QC ACCEPTANCE [illegible] — QC ENGINEER — 5-4-79 DATE

[illegible] — AUTHORIZED INSPECTOR — 5-4-79 DATE

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 2 19NCR NO 2123

270

BLOCK 16 CONT'D.

CIRCUMSTANCES SHOULD THEY BE HAMMERED OF A PIPE, PLATE, OR STRUCTURAL MEMBER." CONTRARY TO THIS 4 PAD-UP LUGS WERE HAMMERED OFF OF PIPE SPOOL IHCC-AIA-S-616-4-1. AR 5-1-79 ~~FAILS~~ THE RESULTING DAMAGE CONSISTED OF CRACKS IN THE PIPE AND VIOLATION OF MINIMUM WALL THICKNESS IN SEVERAL PLACES.

I HOLD TAG APPLIED Q No. 4.164

0

Start Up Code: Untestable

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO. 2128	20. PAGE 1 OF 1
Midland	7220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
Indeter-minate	N/A	N/A	Cut-off Switch Insulations	Warehouse # 1

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. ~~CONTRACTOR~~ SUPPLIER
7220-F-3457 4	N/A	P/N N/A REV N/A SER NO. N/A	Supplier	Graybar Electric

11. INSPECTION CRITERIA	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG ( ) SPEC (X) OTHER IR NO. R-1, 00-9336 NO. F-3457 4 Rev. 0	( ) YES (X) NO	( ) YES (X) NO	(X) Rec'g ( ) Const ( ) Test	( ) Client ( ) Eng (X) FLD

16. NONCONFORMING CONDITION:

Purchase Order F-3457 4 requires a Certificate of Conformance. Contrary to this, no Certificate of Conformance was received with P.O. Item 3, 6 each, Cut-off Switch Insulations, G.E. Catalog # 17 4V521P1. Hold for engineering disposition. "Q" number is indeterminate. 1 hold tag applied to nonconforming item.

17. REPORTED BY [signature] DATE 4/27/79

18. VALIDATED BY [signature] DATE 4/30/79

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

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

Procurement Supervisor to obtain proper documentation.

W. B. Hagen 5/8/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

[signature] 5/15/79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

[signature] 5-15-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Documentation Received DE 5/15/79

28. ~~QA~~ ACCEPTANCE [signature] 5/16/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

270 114

X

Alat

Start Up Code: Indeterminate

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO. 2129	20. PAGE 1 OF 2
Midland	7220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
Indeterminate	N/A	N/A	2 1500# Air Operated Nuclear Service Control Valves	Warehouse # 1

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. MANUFACTURER/SUPPLIER
7220-J-255-BC	17538-1 17538A-1	P/N N/A REV N/A SER NO. N/A	Supplier	Control Components, Inc.

11. INSPECTION CRITERIA	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG (X) SPEC ( ) OTHER IR NO. R-1.00-9295 NO. J-255-BC Rev. 8	( ) YES (X) NO	( ) YES (X) NO	(X) Rec'g ( ) Const ( ) Test	( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION: Technical Specification J-255-BC requires complete Quality Verification Documentation Packages(QVD). Contrary to this the following discrepancies were discovered during a review of the QVD and G-321-D. Discrepancies for valve 1H-0307 S/N 17538-3-1 are the following: Shop Inspector failed to initial or stamp in designated Column 9 on G-321-D. Document Category Number (Doc. Cat.) No.16 (Heat Treatment) is marked N/A.

Continued on Page 2

17. REPORTED BY: [signature] DATE 4/27/79

18. VALIDATED BY: [signature] DATE 5-1-79

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 for subject valves.

J R Gaden
5-8-79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
X QC			

[signature] 5-14-79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

[signature] 5-17-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Corrected Documentation received AND Accepted
JES 5-29-79

26. QC ACCEPTANCE [signature] 5/29/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

Block 16 Continued

Contrary to this 2 pages of Doc. Cat. 16, pages 9 and 11, are Heat Treatment Items. Doc. Cat. for last page (page 36) is indeterminate. Clarification is needed in order to establish appropriate designation of the following Document Categories, namely 17.1, 17.4, 17.2, 17.3 and 18.0 to their respective documents, in order to secure correct page count for QVD.

Discrepancies for valve 1LV-0344, S/N 17538-4-1 are the following: Same as 1H-0307 S/N 17538-3-1 in that in order to establish correct page count, clarification of Document Categories and corresponding documents is necessary and Identification of last page (page 41).

Hold for engineering disposition. "Q" number is 5.022. 2 hold tag(s) applied to the nonconforming item(s).

Start Up Code: Nontestable

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland Nuclear Plant	JOB NO. 7220					19. NO. 2140	20. PAGE 1 OF 2
2. UNIT(S): Midland minus	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: 600 Volt Control Cable (B-21)			5. ITEM LOCATION: Poseyville	
6. P.O. OR SPEC NO.: 7220-E-26	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N: REV: N/A SER NO.:		9. SOURCE: Supplier	10. CONTRACTOR/SUPPLIER: Cerro Wire		
11. INSPECTION CRITERIA ( ) DWG (x) SPEC ( ) OTHER	IR NO: R-1,00-9551 NO: E-26 Rev. 5	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 (X) Eng ( ) FLD		

16. NONCONFORMING CONDITION: Technical Specification E-26 requires Quality Verification Documentation and C-321-D. Contrary to the above, no QVD was received on MRR 9551, 2/C # 10 AWG Reel numbers B1259, B1253, B1702, B1420, B3289 and B0340. Hold for engineering disposition. "Q" number is 3.007. 6 hold tag(s) applied to the nonconforming item(s).

17. REPORTED BY: [signature] DATE: 5/2/79

18. VALIDATED BY: [signature] DATE: 5-2-79

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 Documentation.

W.B. Hayes 5/10/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
X			

[signature] 5-10-79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

[signature] 5-10-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Proper Documentation received enabling closure of NCR

TE 5-10-79

26. QC ACCEPTANCE

[signature] 5/10/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

TE 5/2/79

270 117

Block 16 Continued

A conditional release has been granted to allow pulling of cable. Corrections or removal can be accomplished without causing damage or contamination to associated plant equipment or structure.

270 117

QCE [signature] 5-2-79
QCE Date

QA [signature] 5-2-79
QA Date

SCH [signature] 5-2-79
SCH Date

western union

BECHTEL MIDL

036 SAN FRANCISCO CA CNG:7220 BXB1035
TWX 3102669497 BECHTEL MIDL

ATTN: J F NEUGEI, BPC, MIDLAND, MI
R L CASTLEBERRY, BPC, ANN ARBOR, MI

P.O.# REV #
7220-E-26ACQ 7

SUPPLIER CITY STATE
ROCKBESTOS NEW HAVEN CT

P.O. ITEM	QTY	DESCRIPTION
3	30861 FT	5/C #14 BLACK JACKET CONTROL CABLE, REEL #G010209, G010212, G010217, G010205, G010372, G010239
6	5152 FT	12/C #14 CONTROL CABLE, REEL #G010366
[illegible]	[illegible]	[illegible]

DATE RELEASED FOR SHIPMENT: 4-27-79

WITH THE FOLLOWING EXCEPTIONS: SDDR'S #276, 907, 952, 953, 954, 955, 1041, 1057, 1060, 1046, 1160, 1184, 1105
X SUPPLIER'S STATEMENT OF CONFORMANCE FOLLOWS BY MAIL
[illegible] ATTN: QC ENGINEERING

ANTHONY SYCHESVKY
4-30-79/1108

BECHTEL MIDL
3

NCR # 2110 Page 3 of 3

270 119

NONCONFORMANCE REPORT

5/11 2nd testable unit

1. PROJECT NAME	JOB NO.	19. NO. 2153 (~~2152~~)	20. PAGE 1 OF 2
Midland	7220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
2	E 613	11	Type 20 SIM Conduit Support	Aux. Bldg El 599

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART P/N	REV	SER NO.	9. SOURCE	10. CONTRACTOR/SUPPLIER
N/A	N/A	N/A	N/A	N/A	Construction	N/A

11. INSPECTION CRITERIA	IR NO.	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
(X) DWG ( ) SPEC ( ) OTHER	NO. 2ACO81 and 2ASB002 E 42.	( ) YES (X) NO	(X) YES ( ) NO	( )Rec'g (X)Const ( )Test	( )Client ( )Eng (X)FLD

16. NONCONFORMING CONDITION: Dwg. E42, Sh 377 shows a type 20 conduit support attached to overhead existing steel. Contrary to this an inverted type 20 has been attached to a "NON Q" cable tray support. See sketch page 2. A project approved drawing can not be located which will allow this variance.

One hold tag attached

"Q list" # 3.00 C Hold for engineering disposition

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
D C Spuiles	5-2-79	QC D Barclay	5-3-79

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

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

NCR does not apply. See FCR-E-1443.

W. B. Hayes 5/11/79

23. PROJECT ENGINEERING DISPOSITION This support has been previously evaluated by project engineering and approved on FCR E-1443. The support is shown on Dwg. E-42 (Q), Sh. 512.

R. MacNamara 5/23/79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

C. Thomas/RB 5-29-79
PROJECT FIELD ENGINEER DATE

S R Basavaiah/RC 5-24-79
PROJECT ENGINEER DATE

D C Barclay 5-29-79
PROJ CONSTR QC ENGINEER DATE

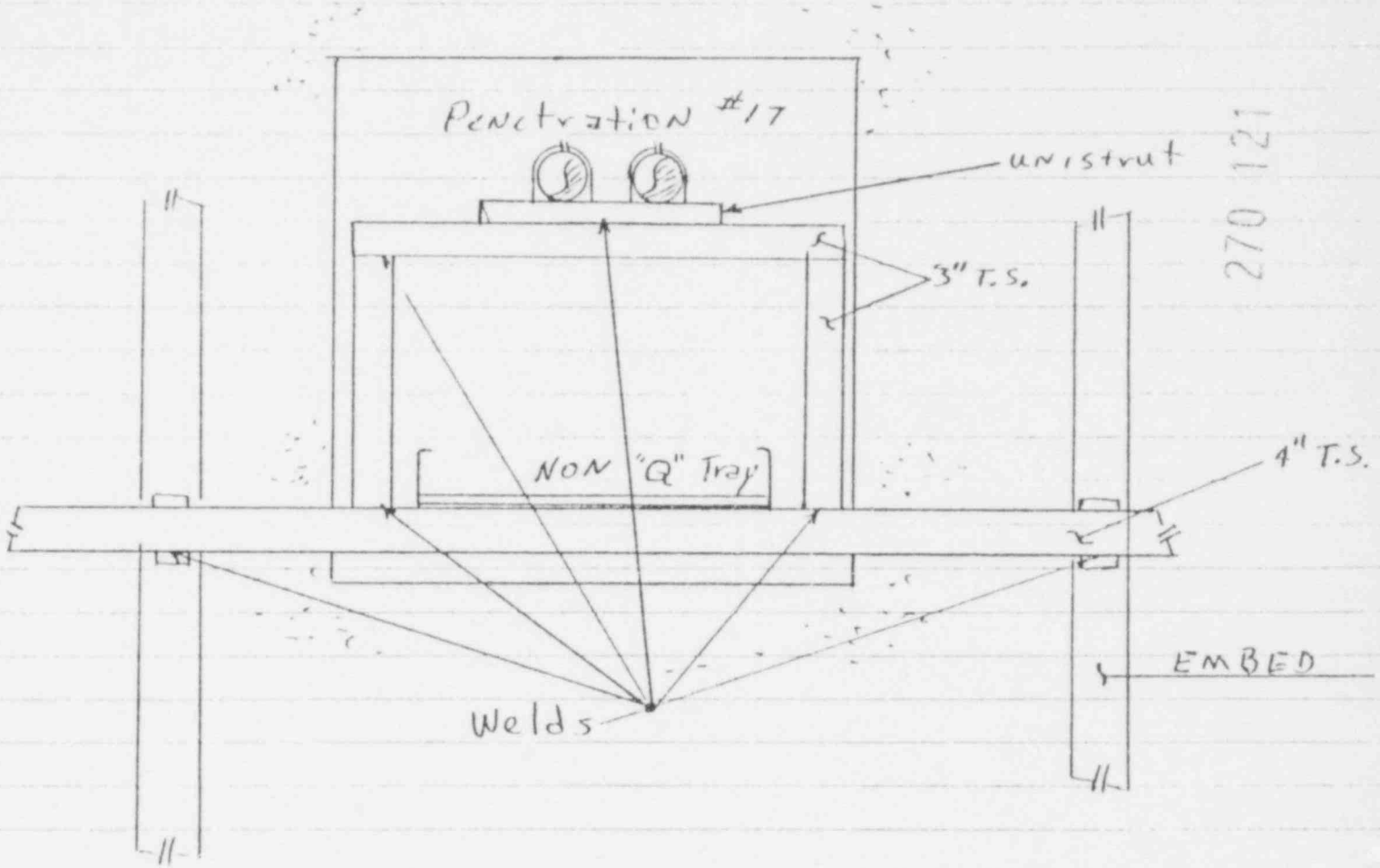
AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS
QC agrees with this disposition
NCR closed.

D C Spuiles 5-30-79

26. QC ACCEPTANCE D C Spuiles 5-30-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE



270 121

DCL 5-2-79

Start Up Code: Non-Testable

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 7220				19. NO. 2162	20. PAGE 1 OF 1
2. UNIT(S): Indeterminate	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: Item 1-3-36"-24' x 3" WT Weldolet, Item 2-3-8" x 3" Std. WT Weldolet		5. ITEM LOCATION: Whse. # 1	
6. P.O. OR SPEC NO.: 7220-F-34870 Rev. 0	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV 9515 SER NO.	9. SOURCE: Vendor	10. CONTRACTOR/SUPPLIER: Liberty Equipment		
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. R-1.00-9559 NO. M-215 Rev. 2	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) FLD		

16. NONCONFORMING CONDITION:

Purchase order number F-34870 Rev. 0 states: The following fittings shall be furnished in accordance with the requirements to the ASME B & PV Code, Section III, Class II, and the requirements as defined in Bechtel Power Corporation Specification number 7220-M-215 Rev. 2. Contrary to the above, the G-321-D received was for Section III Class III. Hold pending engineering disposition.

6 hold tag(s) applied to the nonconforming item(s). "Q" number is indeterminate.

17. REPORTED BY: [signature] DATE: 5-7-79

18. VALIDATED BY (FN): [signature] DATE: 5-7-79

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 correct documentation.

D. Shot 5/7/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
DOC			

[signature] PROJECT FIELD ENGINEER DATE 5/7/79

PROJECT ENGINEER DATE

[signature] PROJ CONSTR QC ENGINEER DATE 5-10-79

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Corrected G-321-D Recieved, Reviewed & ACCEPTED.

[signature] 5-15-79

26. QC ACCEPTANCE [signature] 5-15-79

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

0.

NONCONFORMANCE REPORT

270 123

S/U Indeterminate

1. PROJECT NAME: Midland	JOB NO.: 7220				19. NO. 2163	20. PAGE 1 OF 1
2. UNIT(S): Indeter-minate	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: 8 Ea. G.E. Type SB-1 Switches		5. ITEM LOCATION: Warehouse # 1	
6. P.O. 7220-F-31911 Rev. 0	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N ___ REV ___ SER NO. N/A	9. SOURCE: Supplier	10. SUPPLIER: General Electric		
11. INSPECTION CRITERIA ( ) DWG (X) SPEC (X) OTHER	IR NO R-1.00-9408 NO G-33 Rev. 3	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) FLD	

16. NONCONFORMING CONDITION:

Bechtel Purchase Order F-31911 requires a Statement of Conformance. Contrary to the above, no Statement of Conformance was received for the 8 switches received on freight bill # 71126. "Q" number is indeterminate until installation. Hold pending final disposition. 1 hold tag applied to non-conforming item(s).

17. REPORTED BY: Michael J. Moore DATE: 5-8-79

18. VALIDATED BY: (for) W. Barclay DATE: 5-8-79

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

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

Field Procurement Supervisor to obtain proper documentation.

W.B. Wagner 5/15/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

Doc

W. Miller RAS 5-15-79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

QCI W. Barclay 5-18-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Documentation received and reviewed

RAS/RA 5-22-79

26. QC ACCEPTANCE

Michael J. Moore 5-22-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

0

Start-Up System
Untestable

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
Midland	7220	2182	1 OF 1

2. UNIT(S)	3. DRAWING/PART P.O.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
Indeterm.	N/A	N/A	Paint storage area	Standish

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
A-41	N/A	P/N N/A REV N/A SER NO. N/A	Construction	N/A

11. INSPECTION CRITERIA	IR NO.	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG (X) SPEC ( ) OTHER	C-8.50.222 NO. A-41	( ) YES (X) NO	( ) YES (X) NO	( ) Rec'g (X) Const ( ) Test	( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION:

Spec. A-41 states in part, that, "coating material will be stored between 40° F and 90° F."

Contrary to this, the recording thermometer located in the storage area malfunctioned at approximately 4:00 p.m. Saturday, 5-12-79, resulting in no temperature readings being available for the period, Saturday 5-12-79 (4:00) thru Monday 5-14-79 (5:00 a.m.)

"Q" List indeterminate. Hold for disposition. One hold tag applied.

17. REPORTED BY ~~Rodney Valintine~~ Rodney Bennett — DATE 5-14-79

18. VALIDATED BY [signature] — DATE 5-14-79

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

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

"Use As Is" Review of weather records for the general area indicate the following: 5/12/79 LO 41°, HI-56°; 5/13/79 LO-36°, HI-69°; 5/14/79 LO-50°. Since coating material is stored in an enclosed room the ambient temp in the room should not have dropped below 40°. [signature] 5-14-79

23. PROJECT ENGINEERING DISPOSITION Based on (1) the weather conditions in the general area, (which indicated a minimum temperature of 36°F) and (2) the short time that this temperature occured, project engineering finds that for the most adverse possible condition, the stored material would not have been significantly affected. Therefore, project engineering recommends to "use as is".

Rich Schulman
5/14/79 BEMC-2220

No Drawing Revision Reqd

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

[signature] 5-14-79
PROJECT FIELD ENGINEER DATE

[signature] 5-14-79
PROJECT ENGINEER DATE

[signature] 5-14-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE [signature] 5/14/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

X

Start Up Code: 2BGA & 2BGC

270 125

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland		JOB NO.: 7220		19. NO.: 2186	20. PAGE 1 OF 2
2. UNIT(S): 2	3. DRAWING/PART NO.: 7220-J-255B-12-6	REV: N/A	4. ITEM DESCRIPTION: Nuclear Service Control Valves 2HV-0407 2LV-0444		5. ITEM LOCATION: Warehouse # 1
6. P.O. OR SPEC NO.: 7220-J-255-BC Rev. 11	7. SERIAL NO.: 17538-3-2 17538-4-2	8. REPLACEMENT PART P/N ___ REV ___ SER NO. N/A	9. SOURCE: Supplier	10. CONTRACTOR/SUPPLIER: Control Components	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER	IR NO. R-1.00-9468 NO. J-255 Rev. 8	12. ASME AUTHORIZED INSPECTION REQ'D (X) YES ( ) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During (X) Rcvg ( ) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION

Specification 7220-J-255-BC Rev. 8 requires Quality Verification Documentation as summarized on Form G-321-D. Contrary to the above, the following discrepancies for the Quality Verification Documentation Package have been found. (1.) Velve # 2LV-0444 Item 25.0 no wall thickness report furnished. Item # 17.1 (CMTR) states 13 pages furnished when in fact only 10 were furnished. Item 17.2/17.3 no entry in column 8 of G-321-D.

Continued on Page 2

17. REPORTED BY — DATE: E. W. Weiss 5-14-79

18. VALIDATED BY — DATE: R.D. Barclay 5-14-79

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

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

Procurement to obtain proper documentation.

V. K. Goodin 5-18-79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
QC			

W. Miller RB 5-18-79
PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE
R.D. Barclay 5-22-79
PROJ CONSTR QC ENGINEER — DATE
H.W. Kellam II 5/30/79
AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

Proper documentation recieved, reviewed & accepted.

E. W. Weiss 5-30-79

26. QC ACCEPTANCE: E. W. Weiss 5-30-79
QC ENGINEER — DATE

H.W. Kellam II 5/30/79
AUTHORIZED INSPECTOR — DATE

R

Block 16 Continued

(2.) Valve # 2HV-0407 Item 16.0 no entry in column 8 of G-321-D. Item 17.1 (CMTR) states 11 pages furnished when in fact 13 pages were furnished. Item 24.0 (Pressure Test) states 2 pages furnished when in fact 4 pages were received.

"Q" number is 5.022. Hold pending final disposition. 2 hold tag(s) applied to the nonconforming item(s).

210 212

QUALITY ASSURANCE FINDING

PAGE 1 OF 1

1. PROJECT/DEPARTMENT/SUPPLIER	2. TYPE OF AUDIT/SURVEILLANCE OFFICE ☐ FIELD ☒	3. AUDIT/IDENT.
Midland 1 & 2 Job 7220	Construction	SA-63 (12-1-5)
4. AUDITOR	5. DATE OF FINDING	7. DISCUSSED WITH
H. Ablondi	May 3, 1979	PJ Alverson M. Hadsel K. Bishop
6. CONTROLLING DOCUMENT, SECTION, PARAGRAPH, ETC.		
WEMP-1 Rev. 3 Paragraph 2.2.2		

8. REQUIREMENTS

1) Paragraph 2.2.2 of WFMP-1 states in part that the Code Edition and Addenda be specif

2) P. O. No.'s F-306040 & F-305590 states in part that the procured item(s) meet all applicable codes and standards in effect on the date of the P.O.

9. FINDING

Contrary to the above requirements the above referenced P.O.'s indicated that the vendor could furnish the item(s) in accordance with two different addenda.

1) P.O. No. F-305590 was dated 9/7/78. Item 5) of the P.O. indicated 1977 Ed. W/ W-77 Add. Code Ed & Add in effect 1977 Ed. W/ S-78 add.
2) P.O. No. F-306040 was dated 9/8/78 item 9) of the P.O. indicated 1977 Ed. W/W-7 Add. Code Ed. & Add. in effect. 1977 Ed. W/S-78 Add.

10. RECOMMENDED ACTIONS

1) Verify procured material satisfies the project requirements.

2) Review P.O.'s for compliance to WFMP 1 only. Delete statement added to P.O.'s relevant to editions and Addenda's in effect per date of P.O.

3) Apprise responsible individuals of the above conflicts.

11. SCHEDULED COMPLETION DATE	12. RESPONSIBILITY FOR CORRECTIVE ACTION
(1),(2) & (3) 5/31/79	(1), (2) & (3) J. F. Neygen, Proj. Supt.

13. CORRECTIVE ACTION TAKEN

14. DATE COMPLETED	15. SUBMITTED TO RESPONSIBLE AUTHORITY	16. FOLLOW-UP ACTION ACCEPTED	NOT ACCEPTED

17. VERIFICATION OF ACTIONS BY QA

18. IMMEDIATE ACTION ACCEPTED		DATE
	270 127	

19. DISPOSITION

QUALITY ASSURANCE FINDING

1. PROJECT/DEPARTMENT/SUPPLIER	2. TYPE OF AUDIT/SURVEILLANCE	3. AUDIT IDENT.
Midland 1 & 2 Job 7220	Construction OFFICE ☐ FIELD ☒	SA-64 (12-1-5)
4. AUDITOR: W. J. Creel	5. DATE OF FINDING: May 3, 1979	7. DISCUSSED WITH: R. C. Stubbs
6. CONTROLLING DOCUMENT, SECTION, PARAGRAPH, ETC.: BQAM Rev. 0 Amend. 11 Sect. 4210 & FP-IJI-1 Rev. 3 Para. 3.9.3		

8. REQUIREMENTS

BQAM Sect. 4210 states in part "The purchase order or subcontract incorporates the material requisition and does not change technical or quality requirements."

FP-IJI-1 Para. 3.9.3 states "Field purchases will be issued strictly following the requirements of an approved FMR. Procurement has no authority to provide, alter or modify technical requirements of the FMR."

9. FINDING

P.O. F34015Q does not show the revision for drawing 7220-C-667. (note-the FMR does include the revision.)

Note: Investigation indicated this omission to be a typographical error.

Eight (8) P.O.'s examined: F30604Q F34742Q F34877Q F34015Q
F29071Q F30559Q F34743Q F34215Q

10. RECOMMENDED ACTION/S

(1) Correct P.O. F34015Q to show the revision for drawing C-667.

(2) Verify that the correct revision of drawing C-667 was used by the supplier for P.O. F34015Q.

11. SCHEDULED COMPLETION DATE	12. RESPONSIBILITY FOR CORRECTIVE ACTION
(1) & (2) 5/31/79	J. F. Newgen Proj. Supt.

13. CORRECTIVE ACTION TAKEN

14. DATE COMPLETED	15. SUBMITTED BY RESPONSIBLE AUTHORITY	16. CORRECTIVE ACTION ACCEPTED	16. CORRECTIVE ACTION NOT ACCEPTED	QAE

17. VERIFICATION ACTIONS BY QAE

18. IMPLEMENTATION ACCEPTED	18. IMPLEMENTATION NOT ACCEPTED	QAE	DATE

19. DISTRIBUTION

270 128

BPC 70871
G1001659.01

QUALITY ASSURANCE FINDING

1. PROJECT/DEPARTMENT/SUPPLIER	2. TYPE OF AUDIT/SURVEILLANCE OFFICE ☐ FIELD ☒	3. AUDIT (JOINT)
Midland 1 & 2 Job 7220	Construction	SA-65 (12-1-5)
4. AUDITOR	**5. DATE OF FINDING**	**7. DISCUSSED WITH**
W. J. Creel	May 1, 1979	G. Lawrence
6. CONTROLLING DOCUMENT, SECTION, PARAGRAPH, ETC.		
Field Procurement Individual Job Instruction-1 Rev 3.		

8. REQUIREMENTS

FP-IJI-1 Paragraph 6.3.2.2 states "Quarantine (QC Hold) areas will be established and controlled by field procurement personnel for segregating and controlling non-conforming items. Quarantine areas may be fenced, roped, denoted by signs, or other identificatior

9. FINDING

(1) Nonconforming material stored in the "Class A" storage area of Warehouse #1 is not segregated from conforming material.

(2) In General Floor Area used primarily for B&W Material, both Mat'l marked QC Hold ar Mat'l not so marked are stored together. Some accepted Bechtel Mat'l and two large boxes of instrumentation marked QC Hold are also stored in this general area.

10. RECOMMENDED ACTION

(1) Implement segregation requirements of FP-IJI-1.

(2) Provide objective evidence of reindoctrination of cognizant Field Procurement Personnel regarding segregation requirements of FP-IJI-1.

11. SCHEDULED COMPLETION DATE	12. RESPONSIBILITY FOR CORRECTIVE ACTION
(1) & (2) 6/15/79	J. F. Newgen Proj. Supt.

13. CORRECTIVE ACTION TAKEN

14. DATE COMPLETED	15. SUBMITTED BY RESPONSIBLE AUTHORITY	16. CORRECTIVE ACTION	
		ACCEPTED	NOT ACCEPTED

17. VERIFICATION ACTIONS BY QAE

18. IMPLEMENTATION		DATE
ACCEPTED	NOT ACCEPTED	QAE

19. DISTRIBUTION

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QUALITY ASSURANCE FINDING

PAGE 1 OF 1

1. PROJECT/DEPARTMENT/SUPPLIER	2. TYPE OF AUDIT/SURVEILLANCE OFFICE ☐ FIELD ☒	3. AUDIT IDENT.
Midland 1 & 2 Job 7220	Construction	SA-66 (12-1-5)
4. AUDITOR	**5. DATE OF FINDING**	**6. DISCUSSED WITH**
W. J. Creel	May 2, 1979	Bill Bond

7. CONTROLLING DOCUMENT, SECTION, PARAGRAPH, ETC.
FP-IJI-1 Rev 3 and FPG-9.000 Rev 2

8. REQUIREMENTS
FP-IJI-1 Para 6.5.1 states in part "Permanent Plant Equipment and Materials will be iss from storage only on receipt of a properly completed Material Withdrawal Request." FPG-9.000 Para 5.0 states in part "Under no circumstances will material be issued by th Material Supervisior without Prior receipt of a completed form FPG-11-1 filled out in its entirety."

9. FINDING
Large Pipe Hanger & supports, large pipe components and valves are being issued without a Material Withdrawal Request Form FPG-11-1 being used. Material Withdrawal print out sheets* with additional information written in are being used in lieu of FPG-11-1.

*Copies of QTS computer system "B" Cards.

10. RECOMMENDED ACTIONS
(1) Institute use of FPG-11-1 Material Withdrawal Request forms for Material issue as specified in FP-IJI-1 and FPG-9.000.
(2) Provide Objective evidence of reindoctrination of cognizant material control perso nel in material issue requirements of FP-IJI-1 and FPG-9.000.
(3) Project Field Engineer Review current Procedural Requirements and determine if pro cedure or form changes are warranted.

11. SCHEDULED COMPLETION DATE	12. RESPONSIBILITY FOR CORRECTIVE ACTION
(3) 6/15/79 (1), (2) 5/16/79	J. E. Newgen Proj. Supt.

13. CORRECTIVE ACTION TAKEN

14. DATE COMPLETED	15. SUBMITTED TO RESPONSIBLE AUTHORITY	16. CORRECTIVE ACTION ACCEPTED	16. CORRECTIVE ACTION NOT ACCEPTED	

17. VERIFICATION ACTION TAKEN BY QAE

18. DATE VERIFICATION ACCEPTED	DATE
	270 150

19. CONCURRENCE

QUALITY ASSURANCE FINDING

1. PROJECT, DEPARTMENT, SUPPLIER	2. TYPE OF AUDIT/SURVEILLANCE: OFFICE ☐ FIELD ☒	3. AUDIT/SURV. NO.
Midland 1 & 2 Job 7220	Construction	SA-67 (12-1-5)
4. AUDITOR	**5. DATE OF FINDING**	**6. DISCUSSED WITH**
W. J. Creel	May 2, 1979	Bill BOnd

7. CONTROLLING DOCUMENT, SECTION, PARAGRAPH, ETC.
FP-IJI-1 Rev 3 and FPG-9.000 Rev 2

8. REQUIREMENTS
FP-IJI-1 Para 6.5.1 states in part "Permanent Plant Equipment and Materials will be issued from storage only on receipt of a properly completed Material Withdrawal Reques Para 6.5.2 states "Material Withdrawal Request shall show the following: (1) Quantity (2) description (3) Heat or identification number (if applicable) (4) sketch/drawing/or end use (5) equipment/serial number (if applicable).

Continued: Sheet 2 of 2

9. FINDING
(1) Material Withdrawal Requests Form FPG-11-1 are not being completed properly (infor mation not shown or incorrect information entered).

(2) Material is being issued upon receipt of an improper/incomplete Material Withdrawa Request.

Continued: Sheet 2 of 2

10. RECOMMENDED ACTION
(1) Retrain personnel designated to complete Material Withdrawal Requests in form instructions of FPG-9.000. Provide documentation.

(2) Retrain cognizant Procurement personnel in requirements of FPG-9.000 and FP-IJI-1 Regarding Material Withdrawal Requests.

(3) Project Field Engineer and Project Field Superintendent review procedural require- ments and determine if procedure or form changes are warranted.

11. RECOMMENDED COMPLETION DATE	12. RESPONSIBLE ORGANIZATION
(1), (2) & (3) 6/15/79	J. F. Newgen Proj Supt.

13. CORRECTIVE ACTION TAKEN

14. DATE COMPLETED	15. SUBMITTED BY RESPONSIBLE AUTHORITY	16. CORRECTIVE ACTION ACCEPTED	16. CORRECTIVE ACTION NOT ACCEPTED

17. VERIFICATION ACTION BY QA

18. IMPLEMENTATION

19. CLOSED

DATE 270-131

8. Requirements:

FPG-9.000 Para 5.0 states "under no circumstance will material be issued - - - without prior receipt of a complete form FPG-11-1 filled out in its entirety (see sample attached). Spaces that are not applicable may be filled in with "N/A"." Exhibit A of FPG-9.000 (see page 3 Of 3) illustrates FPG-11-1 and provides information for completing the form.

9. Findings:

Twenty nine (29) MWR's were reviewed with twenty-seven (27) not being in full compliance with procedural requirements.

MWRs	58513	80297	60074	60998	27521
	93915	82506	60248	68045	24333
	86813	92235	60328	68046	24334
	70413	83149	60943	68048	30918
	91080	69667	60944	68577	30268
	86882	31422	60980	22685	

MATERIAL WITHDRAWAL REQUEST

JOB 7220 – MIDLAND PROJECT

NO. 67050

DELIVER TO (1)		BADGE NO. (2)	DATE (3)	JOB NO. (4)
REQUISITIONED FOR (5)			DEPARTMENT (6)	
QUAN.	UNIT	STOCK CODE	COMPLETE ITEM DESCRIPTION	HEAT NO. - VAR.
(7)	NA	NA	(8)	(9)

SAMPLE - ACTUAL FORM IN USE MAY VARY - THE ESSENTIAL CONTROL ELEMENTS OF THE FORM REMAIN THE SAME.

REMARKS (10)

(1) Area of intended use (example: Turbine and Reactor Bldg.)

(2) Badge No. of crew foreman making material pickup.

(3) Date material required.

(4) 7220

(5) Specific use in each bldg. (example: Turbine pedestal in Turbine Bldg.)

(6) P.O. No./Dwg. No./Specification

(7) Exact quantity required.

(8) Complete item description (Example: 4" [illegible] valve, item 1.2 or 8 x 15.5 x 40 W.F.

(9) Insert identification nos. as applicable.

(10) Authorized signature.

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QUALITY ASSURANCE FINDING

1. PROJECT/DEPARTMENT/SUPPLIER	2. TYPE OF AUDIT/SURVEILLANCE	3. AUDIT IDENT.
Midland 1 & 2 Job 7220	Construction OFFICE ☐ FIELD ☒	SA-69 (12-1-5)
4. AUDITOR	**5. DATE OF FINDING**	**7. DISCUSSED WITH**
W. J. Creel	May 3, 1979	R. C. Stubbs Mike Hadsel
6. CONTROLLING DOCUMENT, SECTION, PARAGRAPH, ETC.		
FPG-8.000 Rev. 3 Section 3.4 & NQAM Sect. III No. 11 Para. 3.2.3		

8. REQUIREMENTS

Both control procedures require that vendor supplied quality verification documents be identified in the FMR and purchase order.

9. FINDING

Two (2) purchase orders (F34777Q and F31963Q) for the same comodity are inconsistent in including the specification G-33 statement on specification and code revision applicability.

Five (5) P.O.'s examined: F28926Q F34743Q F34742Q
F34777Q F31963Q

10. RECOMMENDED ACTION/S

(1) Ascertain the scope of inconsistencies in purchase orders similar to those identified above and take appropriate action to correct those identified here-in and any others that are found.

(2) Take appropriate action to prevent recurrence of this problem.

11. SCHEDULED COMPLETION DATE	12. RESPONSIBILITY FOR CORRECTIVE ACTION
(1) & (2) 6/15/79	J. F. Newgen Proj. Supt.

13. CORRECTIVE ACTION TAKEN

14. DATE COMPLETED	15. SUBMITTED BY RESPONSIBLE AUTHORITY	16. CORRECTIVE ACTION		
		ACCEPTED	NOT ACCEPTED	QAE

17. VERIFICATION ACTIONS BY QAE

18. IMPLEMENTATION		
ACCEPTED / NOT ACCEPTED	QAE	DATE

19. DISTRIBUTION

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QUALITY ASSURANCE FINDING

PAGE 1 OF 1

1. PROJECT/DEPARTMENT/SUPPLIER	2. TYPE OF AUDIT/SURVEILLANCE OFFICE ☐ FIELD ☒	3. AUDIT NUMBER
Midland 1 & 2 Job 7220	Construction Audit	QAF SA-70 (12-1-5)
4. AUDITOR	**5. DATE OF FINDING**	**7. DISCUSSED WITH**
E. Smith	May 3, 1979	C. Stubbs
6. CONTROLLING DOCUMENT, SECTION, PARAGRAPH, ETC.		M. Hadsel
NQAM Section III No 11 Para 3.1.3		

8. REQUIREMENTS

The above document states, " . . . and coordinating the review and approval of the sele ed suppliers quality assurance program submittals against applicable requirements.

9. FINDING

Purchase order 7220-F-34015 dated 2/7/79 invokes spec 7220-G-23 which requires approval of the supplier (ALFAB) Quality Assurance Program. Evidence of this approval could not be located.

10. RECOMMENDED ACTION(S)

(1) Take appropriate action to resolve this specific case.

(2) Investigate other purchase orders to determine scope of this problem and take appr priate corrective action.

(3) Take appropriate action to prevent recurrence of this problem.

11. RECOMMENDED COMPLETION DATE	12. RESPONSIBILITY FOR CORRECTIVE ACTION
(1),(2), & (3) 6/15/79	J. F. Newgen Proj. Supt.

13. CORRECTIVE ACTION TAKEN

14. DATE COMPLETED	15. SUBMITTED TO RESPONSIBLE AUTHORITY	16. CORRECTIVE ACTION ACCEPTED	16. CORRECTIVE ACTION NOT ACCEPTED	17.

18. VERIFICATION ACTIONS BY QAE

19. DATE VERIFICATION	DATE
ACCEPTED / NOT ACCEPTED	QAE

20. DISPOSITION

270 135

APPENDIX

88

X

QUALITY ACTION REQUEST

AI-739

From: Bob Ablondi (1)		
To: W Barclay (2)	Control Document ref.: Spec C-111 Rev 11 (3)	QAR Ident. No.: SD-181 (4)

Action Requested: (5)

Para 9.2.2.2.1 of Spec. C-111 Rev 11 states in part that the solution shall be Leak Tec. No 5774 or other soap-free, specially prepared solution as approved by Engineering. Bubble formation properties shall be checked against a standard sample with a known Leak path. IOM dated 10-2-74 RCL to EEFolton authorized use of "Snoop" mfgd by Napro Co. subject to qualification tests specified in Spec. C-111 prior to use.

Contrary to the above, the QAE was unable to assure compliance to the above requirements. VIZ: 1) No certification of material was available; 2) No Vacuum Box Test Reports were available to ascertain if "Snoop" or Leak Tec was used for the closure welds of the Unit 2 construction opening.

Signature: Bablondi (6)	Date: 5/2/79 (7)	Reply Requested by: 5/20/79 (8)

Reply: (9)

Signature: (10)	Date: (11)	
Action Verified: (12)	Date: (13)	

8/2/74

WHITE – Return to sender CANARY – Addressee's file PINK – Sender's file

270 136

BPC 20877
G1001549.05

QAR SD-
Re: Vacuum Box testing
Construction opening
Unit 2.

3) Demonstration of qualification not available.

Quality Action Requested

1) Obtain Mfger's Certification to attest it is soap-free.

2) Obtain Vacuum Box test Reports for the Leak tests of the Unit 2 construction opening.

3) If data is not available ~~retest~~ welds in accordance with C-III requirements.

270 137

Bechtel Associates Professional Corporation

Inter-office Memorandum

TELECOPY

BEBC - 551

To E. E. Felton

Date October 2, 1974

Subject Midland Plant Units 1 & 2
Job No. 7220
Erection of Reactor Building
Liner Plate

From R. L. Castleberry

Of Engineering

Copies to File: C-111, 0274

At Ann Arbor

In response to verbal request from C. Clark, Engineering approves "Snoop" by Nupro Co., Cleveland, Ohio as a leak detecting solution for use in accordance with Specification C-111. The solution shall be subjected to the qualification tests specified in Specification C-111 prior to use.

R. L. Castleberry

RR/jer

LTVB-1, 2

C-77-V

0-3 PPM Chlorides
no other detectable
halide salts or boron
components
AE0-53

270 138

File copy

QUALITY ACTION REQUEST

A/I 740

From: Rob Ablondi (1)		
To: L. Basinski (2)	Control Document ref.: Spec. C-111 & G-27 (3)	QAR Ident. No.: SD-182 (4)

Action Requested: (5)

Selection of penetrameter for spot radiography of construction opening (Unit 2) was noted as a # 10. Ref QCIR (C-111-202~~00~~w). Table 4 of RT-ASME indicates that table 6 & 7 allows use of a # 10 for nominal wall thickness. Table IX-3325-1 of Spec C-111 indicates a # 7 penetrameter is required. Ref. Appendix C to C-111 (Rev 4).

Quality Action Requested:

Project Engineering resolve the above existing condition.

Note: THE QAE discussed this conflict with Mssr. J. Hook & D. Zanese of Project Engineering on 5/2/79.

Signature: R Ablondi (6)	Date: 5/1/79 (7)	Reply Requested by: 5-16-79 (8)

Reply: (9)

Signature (10)	Date: (11)
(12)	(13)

270 139

0

QUALITY ACTION REQUEST

AI-742

Draft 1

From: Bob A Hendi (1)		
To: W. BARCLAY POCE AL. BOOS. PFG (2)	Control Document ref.: Spec. C.111. Rev 11 & FPD 1.000 Rev.6 (3)	QAR Ident. No.: SD-184 (4)

Action Requested: 1) Contrary to FPD 1.000 Para. 4.5, FCN C-91 dated 3-1-79 (5) indicated that splices, utilizing fillet welds, were used in lieu of full penetration welds as required by Desig: Dwg C-336 Rev 6. 2) Contrary to the requirements of Spec. C-50 & C 111 Para 6.0, angle stiffeners were noted as non-Q. 3) QCIR C-111-202W does not list the above FCN.

Quality Action Requested: 1) Obtain Project Engineering concurrence of the above variance noted in item 1). 2) Obtain Project Engineering concurrence or clarification regarding the designation of the Angle stiffeners as non-Q". 3) Reference the above FCN, and ascertain that the variance was welded in accordance with the applicable requirements of Spec G-27.

Signature: H Hendi (6)	Date: 5/2/79 (7)	Reply Requested by: 5/15/79 (8)

Reply: (9)

270 140

Signature: (10)	Date: (11)
Action Verified: (12)	Date: (13)

8/2/74

WHITE – Return to sender CANARY – Addressee's file PINK – Sender's file

BPC 20877
G1001649-05

X

QUALITY ACTION REQUEST

A/I 746

From: L. A. Dreisbach (1)		
To: R. Castleberry (2)	Control Document ref.: Spec. J-201 Rev 6 (3)	QAR Ident. No.: SD-186 (4)

Action Requested: (5)

There is insufficient design instructions provided for the field modification of the Main Control Boards (J-201). The only instructions available are referenced on the wiring diagrams which are furnished to the field for performing the panel modifications (See attachment A).

These instructions do not identify the following:

1) The type of barrier and thermo insulating materials that are approved for use. The field is presently using 1/8" aluminum material for barriers.

2) The Operational and Electrical Tests to be performed and documented.

Recommended Action

1. Evaluate and disposition the concerns identified above.

Signature: R. C. Holbar (6)	Date: 5/1/79 (7)	Reply Requested by: 5/25/79 (8)

Reply: (9)

270 1 ; ;

Signature: (10)	Date: (11)
Action Verified: (12)	Date: (13)

8/2/74

WHITE – Return to sender CANARY – Addressee's file PINK – Sender's file

BPC 20877
G1001649 05

QUALITY ACTION
REQUEST
(cont)

2. Re-evaluate and determine what other attributes of Spec J-201 that need to be specified for field use in panel modification.

270 142

NOTES: ATTACHMENT A

1 - CONTROL WIRES - "IN ACCORDANCE" AS NOTED, SIS. COLOR AS NOTED PER TYPE [illegible] OR EQUIVALENT PER SOUTHERN CALIFORNIA EDISON J201 PARA 7.1.3 AND 7.1.4.

2 - ALL WIRES SHALL BE BLACK IN COLOR EXCEPT FOR THE FOLLOWING

A - WIRES FOR CHANNEL A - RED
B - WIRES FOR CHANNEL B - GREEN

3 - ALL CURRENT TRANSFORMER SECONDARY WIRES SHALL HAVE RED WIRE MARKERS.

4 - CHANNEL A AND CHANNEL B WIRINGS SHALL BE SEPARATED FROM EACH OTHER AND FROM ALL NON-CLASS WIRING IN ACCORDANCE WITH 7220-E-47

FIELD MODIFICATION NOTES

A) FIELD MODIFICATIONS MUST SATISFY SEPARATION REQUIREMENTS OF SPEC. J201 SECT. 7.8

B) FLEXIBLE METALLIC CONDUIT MUST BE GROUNDED PER FSAR 8.3.1.3

270 143

QUALITY ACTION REQUEST

A/I 745

From: (1) L. A. Dreisbach		
To: (2) W. Barclay R. Castleberry	Control Document ref.: (3) PQCI-E 6.0 & 7220-E-7-4-4	QAR Ident. No.: (4) SD-187

Action Requested: (5)

This QAR is in response to a verbal request by CPCo. There are Q-Motor Control Centers (MCC's) that are installed back to back. (For example as per Drawing E-532; MCC 2B24 to MCC 2B56, MCC 2B23 to MCC 2B55, MCC 1B55 to MCC 1B23 and MCC 1B56 to MCC 1B24). In addition, access from the top is precluded in some cases by raceway or supports. This arrangement does not allow for final QC inspection nor periodic maintenance as required by the PQCI and vendor manual respectively. Mr. G. Warner of Project Engineering concurred with the above situation during a site visit.

1. Write an NCR against all of the Q-MCC's that are not accessible from the back.

Signature: (6) Lee N. Schuyler	Date: (7) 5/4/79	Reply Requested by: (8) 5/14/79

Reply: (9)

270 144

Signature: (10)	Date: (11)
Action Verified: (12)	Date: (13)

8/2/74

WHITE – Return to sender CANARY – Addressee's file PINK – Sender's file

BPC 20877
G1001649 05

QUALITY ACTION
REQUEST

2. Provide a disposition of the QC and maintenance requirements that cannot be met by this arrangement or change the design to meet the requirements.
3. Determine if the present condition could result in a situation adverse to safety.
4. Provide a schedule for completion of action.

270 145

cc: J. Corley
D. Miller
W. Bird

QUALITY ACTION REQUEST

A/I 747

From: (1)		
R. A. Dreisbach		
To: (2) J. Lilly White	Control Document ref.: (3) NA	QAR Ident. No.: (4) SD-188

Action Requested: (5)

Review of current drawing revisions and attachments at subcontract administration, per table attached, indicates that in some cases, drawing change addenda are not attached to drawings. There is no available evidence that latest revisions/addenda in all cases were transmitted to site subcontracter. You are requested to: 1) Maintain drawing files current and 2) take corrective action on not transmitting latest revisions/addenda to subcontractor or define by procedure (Methods and/or judgements) by which revisions/addenda are withheld.

Signature: (6) R. A. Dreisbach	Date: (7) 5/4/79	Reply Requested by: (8) 6/4/79

Reply: (9)

270 146

Signature: (10)	Date: (11)
Action Verified: (12)	Date: (13)

8/2/78

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BPC 20877
Q1001649.05

Sno	Dwg. No.	Rev.	FCR	DCN	Remarks
1	A15	16	A 93, 94	9	
2	A18	10	-	-	
3	A20	10	A 94, A156	-	xxx
4	A22	10	-	10	Transmittals to subcontra-
5	A24	5	A 94 A158	-	tor not seen in S/C Adm.
6	A29 Sh 1	5	A116, A125	2	files.
7	A28	4	-	-	
8	A30	8	A134	3	
9	A67	4	-	-	
10	A68	6		5	Change addend
11	A70	4	-	-	not attached to drawings.
12	A71	5	A133	4	

0

cc: J. Corley
W. Bird
D. Miller

QUALITY ACTION REQUEST

AI/752

From: L. A. Dreisbach (1)		
To: (2) R. Castleberry	Control Document ref.: (3) FSAR Section 8.3.1.3	QAR Ident. No.: (4) SD-189

Action Requested: (5)

The control room panels terminal blocks have color coded marker strips in accordance with E-50 in order to "identify wiring to implement separation" as per spec 7220-J-201. However, the terminal blocks nameplates are not color coded as required by Section 8.3.1.3 (page 8.3-28) of the FSAR.

Recommended Action

Resolve the conflict between the installation and the FSAR requirement.

Signature: (6) Lee H Schroeder	Date: (7) 5/9/79	Reply Requested by: (8) 5/23/79

Reply: (9)

Signature: (10)	Date: (11)
Action Verified: (12)	Date: 270 148 (13)

8/2/74

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BPC 20877
G1001640 05

X

CCW, Bird
D. Miller
J. Corley

QUALITY ACTION REQUEST

A/I 753

From: L. A. Dreisbach (1)		
To: W. Barclay (2)	Control Document ref.: Spec 7220-C-210; C-211 (3)	QAR Ident. No.: SD-190 (4)

Action Requested: (5)

The attached list identifies soils tests that are considered failing but have not been properly dispositioned. You are requested to review this list and identify those test already dispositioned or identified as nonconforming and those that are in a non-Q area. The remainder of this tests should be identified as nonconforming. If additional information is required, contact S. Afifi of Geotech in Ann Arbor.

Signature: (6)	Date: 5/9/79 (7)	Reply Requested by: 5-31-79 (8)

Reply: (9)

270 149

Signature: (10)	Date: (11)
Action Verified: (12)	Date: (13)

8/2/74

WHITE – Return to sender CANARY – Addressee's file PINK – Sender's file

BPC 20877
01001640 05

****

LISTING OF ALL FAILING TESTS FOR WHICH NO CLEARING
TEST IS RECORDED, NO NCR INDICATED, AND THE SOIL IS
NOT RECORDED TO HAVE BEEN REMOVED,
OR THE TEST IS LABELLED AS NON-Q

****

D0017
D0163
D0164A
D0164B
D0165B
D0166A
D0166B
D0178
D0201
D0202
D0309
D0370
D0371
D0372
D0373
D0374
D0512
D0513
D0515
D0516
D0517
D0518
D0520
D0523
D0524
D0525
D0526
D0527
D0530
D0531
D0532
D0533
D0534
D0535
D0536

270 150

LIST OF FAILED, NOT CLEARED, NOT REMOVED

D0537
D0539
D0873
D0909
D0938
D1032
D1050
D1116
D1153
D1155
D1191
D1194
D1321
D1337
D1393
D1398
D1404
D1415
D1491
D1498
D1509
D1546
D1871
D1875
D1897
D1949
D2008
D2078
D2079
D2176
D2249
D2253
D2359
D2373
D2380
D2461
D3029
D3160
R0015
R0016
R0017
R0019
R0020
R0022
R0024

R0059
R0214
R0255
R0308
R0319
R0322
R0366
R0367
R0368
R0369
R0370
R0404
R0466
R0467
R0468
R0469
R0470
R0498
R0532
R0535
R0604
R0607
R0608
R0625
R0663
R0664
R0667
R0680
R0682
R0688
R0734
R0736
R0737
R0738
R0739
R0740
R0741
R0744
R0746
R0758
R0785
R0799
R0826
R0843
R0845

LIST OF FAILED, NOT CLEARED, NOT REMOVED

2648
2650
2677
2678
2680
2681
2683
2684
2717
2718
2720
2721
2722
2723
2729B
2730A
2730B
2731
2732A
2732B
2745A
2745B
2746B
2747A
2747B
2748B
2749A
2749B
2752B
2754A
2754B
2756
2763A
2764A
2792A
2820
2827A
2827B
2828B
2834B
2839B
2841A
2844
2847A
2847B

LIST OF FAILED, NOT CLEARED, NOT REMOVED ...CONT...

2848A
2848B
2852A
2852B
2853
2855A
2856A
2856B
2857
2862
2877
2878
2883
2889
2901
2904
2910
2913
2919
2920
2925
2931
2946
2961
2964
3003
3035
3036
3054
3078
3087
3105 — Ed Arnold 10/30/78 11/3/78
3110
3116
3118
3120
3123 — Ed Dutton 11/28
3136
3213

270 154

X

cc: W. Bird
D. Miller
J. Corley

QUALITY ACTION REQUEST

A/I 754

From: L. A. Dreisbach (1)		
To: R. Castleberry (2)	Control Document ref.: E-42 (Q) (3)	QAR Ident. No.: SD-191 (4)

Action Requested: (5)

Drawing E-42 (Q) has every page marked (Q); however, there is indication that only those pages identified (Q) in the index should be considered to be (Q).

Concerns

1. Which pages of E-42 (Q) should be considered (Q) and how is this identified?

2. If the opening statement is correct; then sheets 2, 9, 11, 11a, 11c 13, 21, 22, 42, 42a, 43 & 60 would be considered Non-(Q). This would eliminate needed information for the installation and QC monitoring of (Q) items. It is recommended that E-42 (Q) be

Signature: (6)	Date: 5/10/79 (7)	Reply Requested by: 5/24/79 (8)

Reply: (9)

Signature: (10)	Date: (11)
Action Verified: (12)	Date: (13)

8/2/74

270 155

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BPC 20877
01001649-05

QUALITY ACTION
REQUEST

reviewed for (Q) designation.

3. How are the (Q) and non-(Q) items distinguished on the same sheet?

270 156

QUALITY ACTION REQUEST

A/I 760

From: (1)		
L. A. Dreisbach	Site QA	7220

To: (2)	Control Document ref.: (3)	QAR Ident. No.: (4)
J. F. Newgen	FPG-5.000 Rev 3	SD-192

Action Requested: (5)

The interiors of the E.S.F.A.S Sensor and Actuation Cabinets located in the Safety Related Equipment Room have accumulated excessive amounts of dust, dirt and minute grinding particles.

Request Action: Construction is requested to implement immediately the following Project Engineering instructions (Reference IOM Castleberry to Dreisbach dated 5/3/79):

1. Conventional means (e.g. vacuuming) be employed to clean the equipment. If cleaning solutions or solvent are used, prior consent of project engineering is required.

Signature: (6)	Date: (7)	Reply Requested by: (8)
R. C. Haller	5/14/79	5/18/79

Reply: (9)

Signature: (10)	Date: (11)

Action Verified: (12)	Date: (13)

8/2/74

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BPC 20877
G1001643.05

QUALITY ACTION
REQUEST

2. The current protection provisions be increased to curtail the entry of dust and contaminants to the fullest extent possible (E.G. covering inside of lowered rear doors). Where complete protection cannot be provided (E.G. top and floor penetrations), the maximum protection provisions be provided in conjunction with on-going clean up activity.

These actions to include all equipment located in the Safety Related Equipment Room.

To prevent panels from becoming dirty after cleaning during periods when they are open for work the following actions are needed.

1. Do not open panels until General environment has been restored to an acceptable cleanliness level to preclude contamination of panels.

2. Do not open panels or remove protection when dirt producting activities such as grinding are in progress in the immediate area.

270 158

QUALITY ACTION REQUEST

AI/762

(1) From:		
H. A. Abiondi		
(2) To:	(3) Control Document ref.:	(4) QAR Ident. No.:
R. L. Castleberry	Spec E-42-& C-203	SD-193

(5) Action Requested:

1) Note 5 of Spec E-42 states that all hardware for hangers and supports for raceways shall be galvanized or cadmium plated. Paragraph 6.1 of Spec. C-203 states welding shall be in accordance with AWS D1.1 and Spec. G-27. GWS-structural paragraph 3.1 states for welding with other than prequalified procedures only material listed in the WPS may be used. The WPS P1-A-LH structural does not list galvanized or cadimium plated material AWS D1.1 para 8.2, section 8 does not list galvanized or cadmium plated prequalified material. Action Requested: Provide objective evidence that the WPS P1-A-LH structural satisfies the requirements Para 5.1 or comply with 8.2.3 of the Code.

(6) Signature:	(7) Date:	(8) Reply Requested by:
H. A. Abiondi	5/14/79	6/1/79

(9) Reply:

(10) Signature:	(11) Date:
(12) Action Verified:	(13) Date: 270 159

5-2-14

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QUALITY ACTION
REQUEST

(continued)

2) WPS P1-A-LH (structural) Rev. 2 has been designated pre-qualified AWS D1.1 Section 2 paragraph 2.6.1 and GWS-structural depict pre-qualified joint details.

Contrary to the above referenced details and paragraph 5.5.2.1 (7), SMAW welding was performed using flare bevel groove welds. Reference Grinnel Hanger sketch 2-631-1-1 Rev. Sub. S/F1.

Action Requested:

Provide objective evidence that the WPS meets the requirements of para 5.1 or qualify the WPS in accordance with para 2.3.1.4 or 5.2 of the AWS D.1.1 Code.

The above items were discussed with W. Keyser of AAO M and QS and Willie Williams of Field Welding Engineering.

270 160

X

QUALITY ACTION REQUEST

AI/762

From: (1) H. A. Ablondi		
To: (2) R. L. Castleberry	Control Document ref.: (3) Spec E-42 & C-305	QAR Ident. No.: (4) Sd-193 Corrected

Action Requested: (5)

1) Note 5 of SPec E-42 states that all hardware for hangers and supports for raceways shall be galvanized or cadmium plated. Paragraph 6.1 of Spec C-305 states welding shall be in accordance with AWS D1.1 and SPec. G-27. GWS-structural paragraph 3.1 states for welding with other than prequalified procedures only material listed in the WPS may be used. The WPS P1-A-LH structural does not list galvanized or cadmium plated material AWS D1.1 para 8.2, section 8 does not list galvanized or cadmium plated prequalified material. Action Requested: Provide objective evidence that the WPS P1-A-LH structural satisfies the requirements Para 5.1 or comply with 8.2.3 of the Code.

Signature: (6) E/ A. H. Ablondi	Date: (7) 5/14/79	Reply Requested by: (8) 6/1/79

Reply: (9)

Signature: (10)	Date: (11) 270 161	
Action Verified: (12)	Date: (13)	

8/2/74

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BPC 20477
G1001640 05

QUALITY ACTION
REQUEST

(continued)

2) WPS P1-A-LH (structural) Rev. 2 has been designated pre-qualified AWS D1.1 Section 2 paragraph 2.6.1 and GWS-structural depict pre-qualified joint details.

Contrary to the above referenced details and paragraph 5.5.2.1 (7), SMAW welding was performed using flare bevel groove welds. Reference Grinnel Hanger sketch 2-631-1-1 Rev. Sub. S/F1.

Action Requested:

Provide objective evidence that the WPS meets the requirements of para 5.1 or qualify the WPS in accordance with para 2.3.1.4 or 5.2 of the AWS D.1.1 Code.

The above items were discussed with W. Keyser of AAO M and QS and Willie Williams of Field Welding Engineering.

270 162

MEMO from H. A. Ablondi

TO Distribution DATE 5/16/79

This corrected copy of DAR SD-193 supercedes the original copy. The writer inadvertently referenced Spec. C-203 instead of C-305.

☐ REPLY ☐ INITIAL AND RETURN ☐ SEE ME

270 163

QUALITY ACTION REQUEST

AI/763

From: L. A. Dreisbach (1)		
To: J. F. Newgen (2)	Control Document ref.: FPD 3.000 Rev. 2 (3)	QAR Ident. No.: SD-194 (4)

Action Requested: (5)

Work prints and controlled drawings in field locations require updating. List attached indicates discrepancies observed in Electrical, Civil and Mechanical disciplines and both in work prints and controlled drawings. You are requested to: 1) Correct the discrepancies identified.

2) Initiate necessary corrective action such that current drawings attachments are made available in a timely manner at work locations.

and 3) Withdraw all retired drawings from work locations.

Signature: R Subramanian (6)	Date: 5/16/79 (7)	Reply Requested by: 5/16/79 (8)

Reply: (9)

Signature: (10)	Date: 270 164 (11)
Action Verified: (12)	Date: (13)

8/2/74

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BPC 20827
G1001643 05

(TKS – WP&L May 1–15, 79) QAR SD 146

S.No	Dwg.	Rev	Changes Required		Remarks.
			Addition	Deletion	
1.	E 655 Q	8	DCN 13		Containment 1; Work Print
2	E 656 Q	4	DCN 12, 13 FCN E523		"
3	E 660 Q	4	FCN E494. FCR E1709		Containment 2; Work Print
4	E 693	10		J127 (FCN)	Turbine Bldg; Work Print.
5	M 75 Q	2	FCR M1713		Containment 2; Work Print
6	C 341 Q	0	Rev 2		F2 location; Work Print.
7	C 1055	3	FCR C1919		" Controlled dwg.
8	M 632 Sh 2 Q	7/F1		FCN M422	Anx/Radwaste bldg, Cont. dwg.
9	E 616 Sh 1	9	FCN E398		(F16) Anx bldg; Cont. dwg.
10	E 606 Q	13		FCR J146	(F2) Radwaste bldg., "
11	E 543 Q	8		FCN E406	(F7) Turbine bldg, "
12	FA 6 Sh 2	0	TO BE RETIRED.		(F2) Radwaste bldg, Cont. dwg (Field sketches)
13	EA 6 Sh 5	1	"		

	DRAWINGS CHECKED	DISCREPANT DWGS.
CONTROLLED DWG.	41	5
WORK PRINTS	73	6
FSKS	31	2
	145	13

270 165

cc: D. Miller
J. Corley

0

QUALITY ACTION REQUEST

A/I 780

Draft

From: Bob Abbondi		(1)
To: (2) A.L. Boos / W Barclay	Control Document ref.: (3) BQAM Asme III Div 1	QAR Ident. No.: (4) SD-195

Action Requested: (5)

Back Ground: Amendment 9 to Appendix 2 of the BQAM stated in part that the 1974 Ed. W/Summer 76 Addenda be applicable for the installation of Asme Section III items; Applicable subsection NC 4630. PHT-500 Rev. 4 paragraph 5.2.1 was not amended to reflect the requirements of TABLE NC-4622.3-1, Viz Nominal Thickness exemptions of 1¼" to 1½" 0.30 C. and less w/ 250°F min Preheat. Piping Class sheet #15 for "ELB" Class piping states 36" NPS is 1.269" Nominal wall Thickness.

Findings:
Contrary to the requirements of Table NC 4622.3-1, QCIR No's M-632-1-12 for FW 12 and M-632-2-9 for FW 7 indicates preheat was below 200°F and no PWHT was required or performed. QCIR's were Finalized on 3-7-79 and 12-5-78 respectively. Welds were completed on 2-15-79 for FW 12 and 11-27-78 for FW 7R1 (QCIR # M-632-2-7R1).

Quality Action Requested:

1) Amend PHT-500 to be consistent with the BQAM Amendment 9.

2) Re-open QCIRs such as noted above, and PWHT in accordance with the Code Addendum indicated in the BQAM Amendment.

3) Revise existing QCIRs not completed to reflect item 2 of the action requested.

Signature: (6) R. Abbondi	Date: (7) 5/22/79	Reply Requested by: (8) 6-6-79

Reply: (9)

Signature: (10)	Date: (11)
Action Verified: (12)	Date: (13)

8/2/74

WHITE – Return to sender CANARY – Addressee's file PINK – Sender's file

270 166

X

QUALITY ACTION REQUEST

cc: J Corey
W. Bird
D. Miller

AI/796

From: (1) L. A. Dreisbach		
To: (2) J. F. Newgen	Control Document ref.: (3) FPD 5.000 Rev. 0	QAR Ident. No.: (4) SD-196

Action Requested: (5)

Contrary to the requirement of para 8.2 "A revision to field sketch is made when reference documents are revised . . .", (1) FSK-M-1HCB-113-3 Q Rev. 0 (dt 5-7-79) is not revised; Rev. 6 of M-416 Sh 2 (dt 4-16-79) was current while Rev. 5 was referenced in the FSK; Sheet 1 of M-421 Rev. 1 referenced in the FSK is not available in Document Control; (2) FSK CC2-79 Sh 3 Rev. 1 (dt 6-24-77) references C633 Rev. 5 while Rev. 8 was issued on 5-18-77; (3) FSK CC2-64 Rev. 1 has no date in the title block. (4) Documents are referenced in FSK-JB2-0002 Q Rev. 0 (e.g., J3103 and [illegible] without revision number.

You are requested to (1) indoctrinate cognizant field engineers requirements of FPD 5.000 Rev. 0 (2) evaluate and correct the discrepancies identifi

Signature: (6) R. Sutromanno	Date: (7) 5/31/79	Reply Requested by: (8) 6/30/79

Reply: (9)

Signature: (10)	Date: (11)
Action Verified: (12)	Date: (13)

8/2/74

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BPC 20877
G1001649 05

270 167

QUALITY ACTION
REQUEST

& (3) initiate corrective action to preclude recurrence.

X

QUALITY ACTION REQUEST

R. Castleberry
W. Bird
D. Miller
J. Corley
AI/797

From: (1)		
L. A. Dreisbach		
To: (2) J. F. Newgen	Control Document ref.: (3) FPG-5.000 Rev. 4	QAR Ident. No.: (4) SD-197

Action Requested: (5)

Concern:

Field Procedure FPG-5.000 entitled "Maintenance/Inspection of Material and Equipment Released for Construction" provides for the preparation of maintenance inspection form F-10.

A monitor has indicated that the title of the procedure has been taken too literal in that only those requirements listed under "maintenance" in the vendor manuals have been incorporated into the F-10 forms. In general, the maintenance sections of vendor manuals are concerned with preventative/corrective maintenance during operation.

However, in actuality, the condition that exists in long term (cont.)

Signature: (6) Lee N. Schroeder	Date: (7) 5/31/79	Reply Requested by: (8) 6/15/79

Reply: (9)

Signature: (10)	Date: (11) 270 169
Action Verified: (12)	Date: (13)

8/2/74

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BPC 20877
G1001149-05

QUALITY ACTION
REQUEST

"in-place" storage of the equipment. Thus, many of the requirements under storage, such as, lubrication and rust prevention, should also be included. Attached are two telecons from pump manufacturers which support this position.

Recommended Action:

1. Review all F-10 forms and revise them as appropriate to resolve the above concern.

2. Coordinate with Project Engineering to determine if there has been any degradation to the equipment caused by the above described situation.

3. Provide a schedule for completion of the corrective action.

270 170

Telephone call

ROUTE

BY S.C. Fugate OF Bechtel O.C.

TO Mr. Steve Camel OF Gould Pumps

DATE May 3 '79 TIME 1:30 P.M.

SUBJECT F-10-145 & F-10-203 JOB NO. 07220

(1) MR. STEVE CAMEL OF Gould Pumps CONSID. THE MOTORS ARE STILL IN STORAGE UNTIL THEY ARE PLACED INTO OPERATION.

(2) HE ALSO NOTED THE PUMP MOTORS SHOULD BE ROTATED EVERY 7 DAYS WHILE THEY ARE STORED IN-PLACE IN THE S.W. BUILDING, AND THE MOTORS MUST HAVE A DUST COVER OVER THEM.

(3) HE ALSO NOTED THAT THE PUMP SHOULD BE ROTATED EVERY 30 DAYS WHILE THEY ARE IN-PLACE STORAGE.

S.C. Fugate

270 171

Telephone call

BY P. K. Fugate OF Bechtel G.C.

TO Ray Logan OF Bingham Williamette Mfgs

DATE 5-3- 19 79 TIME 11:00 AM

SUBJECT F-10-18 and F-10-19 JOB NO 07220

ROUTE

(1) Mr. Ray Logan of Bingham Williamette considers the Component Cooling Water pump and motors in storage until they are placed into operation.

(2) He (Mr. Logan) does not feel that WD40 is an equal to Tectyl No. 502-C and he shall investigate it and send us a Twx to confirm the fact.

(3) Mr. Logan is also checking into the amount of covering required for the motors while they are in place in the power plant awaiting operation.

P. K. Fugate

1

270 172

5 112-671

X

cc: Ward
D. Miller
J. Corley
A/E 799

QUALITY ACTION REQUEST

(1) From: Bob Ablondi		
(2) To: W. Barclay	(3) Control Document ref.: BQADM Spec. C-305(Q) SF/PSP G-3.2	(4) QAR Ident. No.: SD-198

(5) Action Requested: Background: On 5/21/79 NCR 2204 was issued. A QA review was performed to ascertain the appropriate Trend code for the reported Nonconformity. Due to insufficient information in block 16, the QAE discussed the subject of the NCR with its originator and the PFQCE. As a result of the discussions it is requested that the NCR be re-issued, persuant to the requirements of TP 6.3.2 of Spec. C-305(Q) specifically item b. "Mode of failure and Probable cause of failure," and TP 4.2.4 of SF/PSP G-3.2. This will afford the QAE the means to assign the proper Trend code as required by the Project QA Quality Trend Analysis, Section C No 101.

(6) Signature: R Ablondi	(7) Date: 5/30/79	(8) Reply Requested by: 6-15-79

(9) Reply:

(10) Signature:	(11) Date: 270 173
(12) Action Verified:	(13) Date:

8/2/74

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File copy

4.0 PROCEDURE FOR PROCESSING NONCONFORMANCE REPORTS

4.1 General

4.1.1 Nonconformance Reports (NCRs) shall be prepared, validated, logged, distributed, dispositioned and closed as outlined below.

4.1.2 Open and validated NCRs which are subsequently found to be incomplete, illegible or inaccurate shall be returned to the Project Field Quality Control Engineer for correction and revalidation. After the report has been corrected and revalidated, it shall be clearly identified as a "Corrected Copy" and redistributed in accordance with 4.5 below. Receip. acknowledgment shall be required on distribution of "Corrected Copies".

4.1.3 Corrections to completed NCRs shall be processed in accordance with the requirements of SF/PSP G-7.1 for Job No. 7220 and redistributed in accordance with 4.5 below.

4.2 Preparation and Validation

4.2.1 Nonconforming items may be identified and reported to Construction Quality Control by any one in the Bechtel organization. However, the validation of nonconformance reports (NCRs) shall be the responsibility of the Project Field Quality Control Engineer.

4.2.2 Prior to validation of the NCR, the responsible Discipline Lead Field Quality Control Engineer shall review it for conformance with the requirements of 4.2.3 and 4.2.4 below. He shall document this review by initialing the validation block.

4.2.3 NCRs shall be prepared in accordance with detailed instructions, and the standard form for recording the required information. See Appendix A.

4.2.4 The NCR shall be accurately and concisely written after consultation with the interested parties to ensure that the deficiency is correctly described, the appropriate program criteria are referenced, and that sufficient data is provided to faiclitate a proper and complete disposition for resolving the nonconformance.

4.3 Logging

After validation, the NCR shall be assigned an identifying number to be entered in the Log of Nonconformance Reports which serves as a status reporting system to identify NCRs not dispositioned or closed in a timely manner. See Appendix B.

a. General location of anchor and group represented

b. Method of test or verification

c. Test results

d. Inspector's name

e. Date of Test

8.2.2 Failed Anchor Report

The following additional information shall be required for test anchors which failed:

a. Exact location of failed anchor

b. Mode of failure and probable cause of failure

c. Repair steps taken

d. Inspector's name

e. Date of test

8.2.3 All documentation and records shall be retained for inclusion in the quality control files.

9.0 OTHER INFORMATION REQUIREMENTS

This section deals with information collection and is not to be considered as a part of the Quality Assurance program.

9.1 Summary report on tests shall be completed and submitted by Subcontractor monthly to the project engineer/Contractor. These reports shall contain the following data:

9.1.1 Number of anchors installed

9.1.2 Number of anchors tested

9.1.3 Number of failed anchors

9.1.4 Mode of failure and probable cause of failure

| 8

270 175

NONCONFORMANCE REPORT

1. Project Name: Unit Bldg	Job No.: 7220			19. No.: 2201	20. Page 1 of 1
2. Unit(s): Bldg 2	3. Drawing/Part No.: N/A	Rev: N/A	4. Item Description: PIPE HANGER 2½ - 2HBC - 178 - H9	5. Item Location: [illegible] 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. 2-153-42-1 NO. 2-653-42-9		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:

DURING EXPANSION ANCHOR TORQUE TESTING ON HANGER 2½ - 2HBC - 178 - H9 (SKETCH 2-653-42-9 REV. 2, SUP. 3/11) ONE ½" EXPANSION ANCHOR BROKE OFF, N.E. CORNER.

A Lic. H 4,511 1 Hour TAC Action

17. Reported By: J. Endsley Date: 5-20-79

18. Validated By: [illegible] Date: 5-21-79

21. Routing: ☒ TO FIELD ENGINEERING ☐ TO OTHERS (SPECIFY)

22. ☐ Field Engineering Disposition ☐ FIELD ENGINEERING RECOMMENDED DISPOSITION TO PROJECT ENGINEERING

Job 7220-QA Rec'd 5/22/79

Log No. ____ File No. ____

Response Req'd ____ Date ____

QA Action Item No. ____

Route	Info	Act	Comment
POAE	VAD		
Resp. Cor.			N/A
Elect (1)			
Elect (2)	✓		
C/I/Mech			
Project Mgr	JH		
[illegible]			
Tra Cor			
Trend	13		✓
Sect.			

23. Project Engineering Disposition

137

24. Disposition Concurrence

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER ____ DATE ____

PROJECT ENGINEER ____ DATE ____

PROJECT CONSTR QC ENGINEER ____ DATE ____

AUTHORIZED INSPECTOR ____ DATE ____

25. Disposition Results

26. QC Acceptance

QC ENGINEER ____ DATE ____

AUTHORIZED INSPECTOR ____ DATE ____

X

QUALITY ACTION REQUEST

AE 504

From: L. A. Dreisbach (1)	Job 7220	
To: J. F. Newgen/ A. J. Boos (2)	Control Document ref.: (3) Unions Vs. Flanged Joints	QAR Ident. No.: (4) SD-119

Action Requested: (5)

Contrary to the requirements of sheets 22 & 25 of Spec. 7220-M-481 (Q) Rev. 14, FSK's 2HBC-139-1 & 2, 1HBC-139-1 & 2, 1HBC-144-1, 1HBC-12-1, OHCC-30-1 and 2HBC-197-1 indicate unions in lieu of flanged connections.

Based on the above condition PQA requests the following action to be taken by Field Engineering:

1) Where nuclear class 2" and under piping has been fabricated or installed and utilize unions, initiate the applicable requirements of SF/PSP G 3.2

(continued on next page)

Signature: V.A. Dreisbach (6)	Date: 11-9-78 (7)	Reply Requested by: (8) 12-8-1978

Reply: (9)

The Resident Small Pipe Design Supervisor has issued instructions to his design group to use flanges at equipment connections, unless unions are ~~Furnished~~ Required by the vendor. The QAE reviewed previously issued FSKs that utilized unions. (Approximately seventy (70)). The Resident Small Pipe Design Supervisor, Mr. F. Browning was informed of five (5) FSKs that utilized unions. He, F Browning, stated he'll revise the five FSKs in the immediate future. Based on the above, and the future monitoring in this area, this QAR is considered Closed

Signature: Ref IDM dated (0-2254) Nugen to LAD 4-25-79 (10)	Date: — (11)	
Action Verified: (12)	Date: 5/5/80 (13)	

8/2/74

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177

Bechtel Power Corporation

Interoffice Memorandum

To L. Dreisbach

File No.

Subject Job 7220 Midland Project
Unions vs Flanged Joints
0-2254

Date April 25, 1979

From A. J. Boos

Of Construction

Copies to G. Smith
F. Browning

At Midland, MI Ext. 202

References: 1) QA Action Item #504 (QAR SD-119)

This letter is in response to Reference 1) above. Project Engineering has clarified their intent regarding the use of unions in ASME III Piping Systems (Ref. FCR-M-1594). The Resident Small Pipe Design Supervisor has issued instructions to his design personnel to use flanges at equipment connections. The only exception will be at vendor supplied equipment where unions are required to tie into the small pipe system. Field modifications sanctioned within Field Procedure FIP 1.110 will also comply with the above requirements.

All field fabrication of small pipe is done in accordance with Project Engineering approved small pipe isometrics. As a result the field has in the past installed several unions in ASME III systems as required by the piping isometrics. Although this is not in accordance with the clarified intent of the piping class sheets M-481, the General Note No. 16 states that "...piping isometrics shall govern" and the present field installation is in compliance with the latest issued small pipe isometric. Any changes initiated as a result of the above clarification will be completed in accordance with revisions to the piping isometrics, and treated as engineering changes to completed work.

If you have any further questions regarding the above, please contact Kurt Nilson (Ex. 402).

A. J. Boos

AJB/KAN/smb

Job 7220 QA Rec'd 4/26/79
Log No. 0-383 File No.
Response Req'd No Date
QA Action Item No. 504

Spec.	Tech.	Site	Mech.	QA Mgr.	Proj. Eng. (2)	Field (1)	Design Coor.	PQAE	Route	Info	Act.	Comments

Copy to Abboud
orig to file

270 178

5024, RE / 1/78

2) Where nuclear class/piping has not been fabricated or installed, revise affected FSK's to conform to the requirements of the class sheets.

3) Instruct or re-instruct personnel responsible for conformance to the specific requirements of the class sheets for types of joints to be used.

NOTE: The above discrepancies were reviewed with Mssr. A. Sidhu (Resident Engineer and Ralph Gordon (Small Pipe Design Group Supervisor) on 11-8-78.

270 179

QUALITY ACTION REQUEST

From: L. A. Dreisbach (1) Job 7220		
To: R. L. Castleberry (2)	Control Document ref.: No criteria for scheduled pullboxes (3)	QAR Ident. No.: SD-140 (4)

Action Requested: (5)

There is no established criteria for determining the location of conduit entries to scheduled pullboxes for the "C" dimension (the distance between conduits in adjacent side of scheduled pullbox) - see attached recommendation action:

1. Establish criteria for determining the location for conduit entries to scheduled pullboxes.

Signature: R C Hollar (6)	Date: 2/5/79 (7)	Reply Requested by: 2/23/79 (8)

Reply: (9)

See ATTACHED IOM FROM R L. CASTLEBERRY TO W. MORING, DATED 2-12-79.

The "C" dimension in Dwg. E-42 is for construction's use to size unscheduled pull boxes. The criteria which must be observed for scheduled pull boxes is the minimum bend radius for the cables included in the conduit.

Signature: [signature] (10)	Date: 2/26/79 (11)
Action Verified: R.C. Hollar (12)	4/30/79 (13)

8/2/74

270 180

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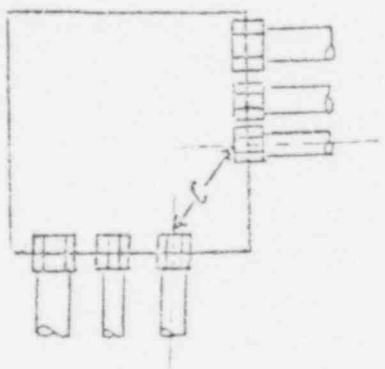
R. L. Castleberry
QAR SD-140
Attachment



270 181

Bechtel Associates Professional Corporation

Inter-office Memorandum

To	W. Moring	Date	February 12, 1979
Subject	Midland Plant Units 1 & 2 Job 7220 Concerns Related to Class 1E Raceway	From	R.L. Castleberry
		Of	Engineering
Copies to	File: 0461, EG-0461, 6400	At	Ann Arbor
	R. Baltazar C. Wallis Com Log		

Reference: 1) Telecon between R.C. Hollar/D. Thompson and T. Supplee dated January 11, 1979

This is a complete response to Reference 1.

1. The "C" dimension in Dwg. E-42 is for construction's use to size unscheduled pull boxes. The criteria which must be observed fc scheduled pull boxes is the minimum bend radius for the cables included in the conduits.

2. As stated in BEBC-1516 dated April 15, 1977 (copy attached) the installation criteria for conduits is that given in Drawing E-42 Sheet 11b.

3. DCN #54 against Drawing E-42, Rev. 37 shows the support criteria required when condulets are used.

4. At the present time, the resident and field engineers are reviewing the section markings in the cable spreading rooms. Any differences between engineering drawings and actual installation will be resolved when this review is complete.

for R.L. Castleberry

TLS/prg

Enclosures: 1. Telecon (Reference 1)
2. BEBC-1516 dated April 15, 1977

270 182

A/E 571

QUALITY ACTION REQUEST

From: L. A. Dreisbach	Site QA	Job 7220 (1)
To: J. Newgen, W. Barclay (2)	Control Document ref.: N.A. (3)	QAR Ident. No.: SD-143 (4)

Action Requested: (5)

Cables terminated in Motor Control Centers located in the Auxiliary Building at elevation 614' are routed over edges inside the MCC cabinets:

MCC	Sections	Cable Scheme #
2B55	2ASL-909	2 AB 5529B
1B23	1ASL-395	1 AB 2311C
		1 AB 2311D

There are no provisions in electrical field procedures/instructions to preclude the routing of field cable over sharp corners or edges inside cabinets/panels. Consequently, Quality Control has no inspections attribute in their PQCI's that verifies cable routing integrity inside cabinets/(cont'd next page)

Signature: R.C. Heller (6)	Date: 2/20/79 (7)	Reply Requested by: 3/9/79 (8)

Reply: (9)

1. FPG-7.000 Rev. 2 "Cable Termination Procedure" paragraph 6.7 provides provisions for the protection of field routed cable against sharp edges.

2. Revision 4 to PQCI E-5.0 incorporates in para 3.1 an inspection attribute for verifying that field routed cable in cabinets/panels is protected from sharp edges.

3. Quality Control has re-inspected subject MCC units and all other terminated "Q" cabinets/panels for cable against sharp edges and identified all deficiencies to Construction.

Signature: W. L. Barclay (see attached IOM) (10)	Date: March 19, 1979 (11)
Action Verified: R.C. Heller (12)	Date: May 23, 1979 (13)

8/2/74

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270 183

panels.

Recommended Action:

1. Field Engineering should provide provisions in applicable field procedure/instructions to provide protection where field routed cable presses against sharp edges.

2. Quality Control should include appropriate PQCI an inspection attribute that verifies that field routed cable is not being routed over sharp corners or edges inside a cabinet/panel.

3. Quality Control should re-inspect the subject MCC panels and identify all discrepant conditions. In addition, re-inspect all Q cabinets/panels which have been terminated for this type of discrepancy.

QCFM-5827/AI-470

Bechtel Power Corporation

Inter-office Memorandum

To L. A. Dreisbach

Date March 19, 1979

Subject Midland Project, Units 1&2
Cable Routing Integrity
Inside Cabinets

From W. L. Barclay

Of Quality Control

At Midland, Michigan
Job No. 07220 204

Copies to

J. F. Newgen
R. A. Simanek

Reference: a) Quality Action Request No. SD-143

This is a complete response to the above referenced QAR.

The Electrical QCE's are currently inspecting cable installacions and terminations for sharp edges within panels. The inspection criteria of FPE-7.000, para. 6.7, will be added to the next revision of PQCI E-5.0.

Quality Control has re-inspected the subject MCC panels and all other terminated "Q" cabinets/panels for sharp edges. Construction supervision has been notified of those conditions requiring edge protection.

If you have further questions, please contact this office.

W. L. Barclay

W. L. BARCLAY
PROJECT FIELD QUALITY CONTROL
ENGINEER

WLB/JER/MFS/RGH/DCT/jmk

Response Required: NO

RECEIVED
MAR 20 1979
BECHTEL POWER CORP.
JOB 7220
FILE 1-79-276

QA ROUTE	INFO.	ACT.
LQAE		
CIVIL (1)		
MECH		
PIPING		
ELECT.		
INST.		
TREND		
SECY		
FILE NO.		

270 185

QUALITY ACTION REQUEST

AI 609

From: L. Dreisbach (1)		
To: W. L. Barclay (2)	Control Document ref.: PSP/G-6.1 Rev. 4 (3)	QAR Ident. No.: SD 145 (4)

Action Requested: (5)

Section 9.1 of PSP referred above states in part, " IRs prepared by QCE are stamped 'Record Copy'..." QCIRs FSC 206-40, 46 & 55 (Log No. 214-6, 26366 & 26375) did not have Record Copy stamp; in addition, QCIR FSC 206-46 (Log No. 26366) dealt with inspection performed during October '78 while the IR itself was issued on 1-3-79 and closed on 1-3-79.

You are requested 1) to correct discrepancies identified; 2) to indoctrinate QCEs concerned provisions of PSP G-6.1 particularly timely opening of QCIRs; & 3) to provide assurance that similar discrepancies are not found in other QCIRs.

Signature: [signature] 3.28.79 (6)	Date: 2-28-79 (7)	Reply Requested by: 3-28-79 (8)

Reply: (9)

Ref. IOM (QCFM - 5914/AI - 487) dated April 26, 79 to L. A. Dreisbach

D QCIR's FSC-206-40,46255 have been stamp "Record Copy"; log 26366 and other discrepancies noted during review were corrected; QCFM 5859 dated 3-29-79 indicated that training session (SF/PSP G 6.1 processing inspection records) was held.

Signature: Sd/ W.L.BARCLAY (10)	Date: 4/26/79 (11)	
Action Verified: [signature] TKS (12)	Date: 4/30/79 (13)	Therefore QAR is closed.

8/2/74

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270 186

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G1001649-05

QCFM-5914/AI-487

Bechtel Power Corporation

Inter-office Memorandum

To L. A. Dreisbach

Date April 26, 1979

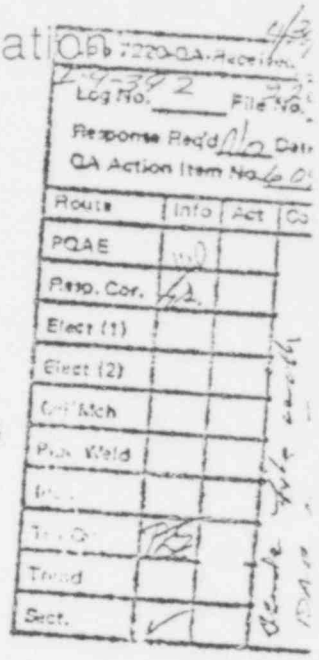
Subject Midland Project, Units 1&2
QA Action Item No. 609

From W. L. Barclay

Of Quality Control

Copies to J. F. Newgen
R. A. Simanek

At Midland, Michigan
Job No. 07220 204



Reference: a) Quality Action Request SD-145

This is a complete response to reference a) above.

QCIRs FSC-206-40, 46 & 55 (Log No. 21426, 26366 & 26375) have been reviewed and verified that the QCIRs are stamped, "Record Copy".

QCIR FSC-206-46 (Log 26366) where inspection was performed during October 1[illegible] issued and closed on 1/3/79, has been reviewed and the log corrected. All QCIRs and the log have been reviewed and discrepancies noted were corrected during the review.

QCE's have been indoctrinated to the concerned provisions of PSP G-6.1, and the timely opening of QCIRs. Training session attached.

Relevant to the discr pancies noted in QAR No. SD-145, it has been determined to be unique to the log and QCIRs pertaining to FSC-206 surveillance of NDE subcontractor.

If you have any further questions, please contact this office.

W. L. Barclay/jer

W. L. BARCLAY
PROJECT FIELD QUALITY CONTROL
ENGINEER

WLB/JER/MFS/WBD/jmk

Response Required: NO

270 187

QUALITY ACTION REQUEST

A/I 655

From: L. A. Dreisbach (1)

To: R. L. Castleberry/ A. Boos/W. L. Barclay (2)

Control Document ref.: See References (3)

QAR Ident. No.: SD-155 (4)

Action Requested: (5)

Current project specifications, procedures and instructions do not provide sufficient quality and technical criteria to ensure that "arc strikes" are effectively reported and evaluated for cause and effect.

Based on this condition Techtel Quality Assurance requests the following:

1) Instructions be revised to address methods for the identification, control and prevention of "arc strikes."

2) Project Engineering include in construction specifications, e.g., Spec. C-304 and M-204 where "arc strikes" could impair metallurgical

cont'd.....

Signature: [signature] (6)

Date: 3/23/79 (7)

Reply Requested by: 4/6/79 (8)

Reply: (9)

Based on the following, the discipline QAE considers this QAR closed:

1) On 5/9/79 ED-1 titled Elimination of Defects was incorporated in G-27. Ref. SCN-6-27-9325. This existing standard provides the means to evaluate & eliminate "arc strikes". In conjunction with this standard, Spec M-204 and Spec M-3269 are being revised to provide guidance for evaluating "ARC STRIKES". Item 1) of the request is considered resolved.

2) Ltr dated 5/2/79 G.A. Taveson to R. Baltazar, Memorandum dated 4/30/79 D. Anderson To G.A. Taveson, and Telecon between R. Baltazar and D. Anderson, and I have provided a satisfactory response to resolve item 2 of the request.

3) Based on the above data the discipline QAE does not consider the revision to FSAR I Para 10 necessary. By Reference to project Specs and specifically G-27 is sufficient to include item 2 commitments.

Signature: [signature] See attached (10)

Date: N/A (11)

Action Verified: [signature] (12)

Date: 5/22/79 (13)

R-2-74

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Properties, the following:

1) Guide lines limiting or prohibiting the use of "arc strike" materials.

2) Methods used to determine the reduction or removal of blemishes, cracks or residual stresses (metallurgical notches) to an acceptable level.

3) Revise field instruction FIW para. 10 to include notification of the WQCE in addition to the FWE. Reflect the requirements of the project specifications and the applicable code. Reference D1.1 para 4.4 and AWS D12.1 para 5.3.

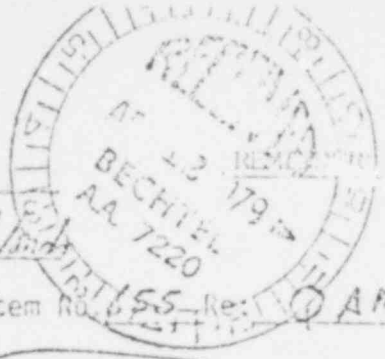
References used to justify the issuance of this QAR are as follows:

FIW-1 Rev. 0 Instructions to Welders.

Spec. C-304 Rev. 5 Tech. Spec. for Field Fab. Repair and Erection of Structural Steel and Misc. Metals

AWS D1.1 Structural Welding

AWS D12.1 Reinforcing Steel Welding Code



Date: 4/10/79

From: Bob Ablitt

Subject: Action Item No. 155 Re: QAR SD-156 Arc Strikes

Attention: R. L. Castleberry

JOB 7220

PROJ. ENGR.	2	
ASST. P. E. T		
ASST. P. E. T	1	
ASST. P. E. P		
ASST. P. E. C		
MECH.		
CIVIL		
P.O.		
ARCH.		
O.E.	3	
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[illegible]		
[illegible]		
CONST. [illegible]		
FCAM		
ADMIN.		
FILE NO.	05554	

During our review of open items, Action Item No. 155 required a response by 4/7/79. If this date cannot be met or has passed please indicate below the status of the item and return to sender.

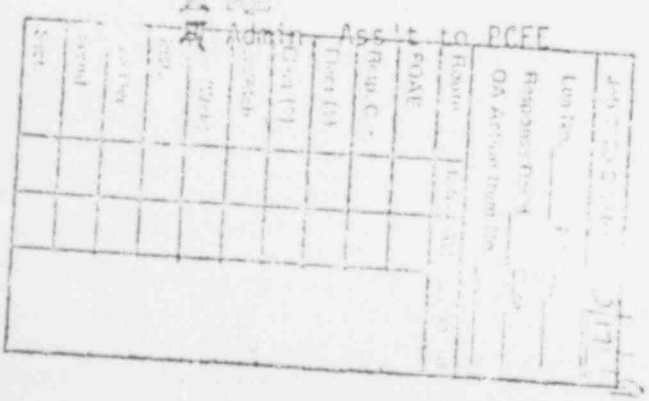
Signed BA Ablitt
For PQAE

- ☐ Response to be sent by _____
- ☑ Response to all items are complete.
- ☐ Response to the following items are complete: _____
- ☐ Need extension of time to _____.

Remarks: _____

Signed: Paul Preeg 5/4/79
Name/ Date

cc: [redacted]
- ☐ Proj. Const. Mgr.
- ☒ PCQCE
- ☐ LQAE
- ☐ PE
- ☒ PCFE
- ☒ [redacted]
- ☒ Admin. Ass't to PCFE



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QUALITY ACTION REQUEST

A/I 655

From: L. A. Dreisbach (1)

To: R. L. Castleberry/ A. Doos/M. L. Barclay (2) | Control Document ref.: See References (3) | QAR Item No.: SD-155 (4)

Action Requested: (5)

Current project specifications, procedures and instructions do not provide sufficient quality and technical criteria to ensure that "arc strikes" are effectively reported and evaluated for cause and effect.

Based on this condition Bechtel Quality Assurance requests the following:

1) Instructions be revised to address methods for the identification, control and prevention of "arc strikes."

2) Project Engineering include in construction specifications, e.g., Spec. C-304 and M-204 where "arc strikes' could impair metallurgical

cont'd.....

Signature: (6) | Date: 3/23/79 (7) | Reply Requested by: 4/5/79 (8)

Reply: (9)

See attached IOM from H. A. Iverson to R. F. Baringer dated 5/2/79, and attached Memo from D. Andrews to H. A. Iverson dated 4/30/79.

Signature: (10) | Date: 4/11/79 (11)

Action Verified: (12) | Date: 5-2-79 270 191 (13)

8/2/74

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Properties, the following:

1) Guide lines limiting or prohibiting the use of "arc strike" materials.

2) Methods used to determine the reduction or removal of blemishes, cracks or residual stresses (metallurgical notches) to an acceptable level.

3) Revise field instruction FIW para. 10 to include notification of the WQCE in addition to the FWE. Reflect the requirements of the project specifications and the applicable code. Reference D1.1 para 4.4 and AWS D12.1 para 5.3.

References used to justify the issuance of this QAR are as follows:

FIW-1 Rev. 0 Instructions to Welders

Spec. C-304 Rev. 5 Tech. Spec. for Field Fab. Repair and Erection of Structural Steel and Misc. Metals

AWS D1.1 Structural Welding

AWS D12.1 Reinforcing Steel Welding Code

Bechtel Associates Professional Corporation

Inter-office Memorandum

To	R. Baltazar	Date	May 2, 1979
Subject	Midland Plant Units 1 & 2 Job 7220 Arc Striking	From	G.A. Tuveson
		Of	Engineering
Copies to	File: 0460, C-304-PR	At	Ann Arbor
	Com Log		

Reference: QAR SD-156

Project engineering has reviewed the above QAR and noted the following.

Arc strikes are not permitted as in accordance with AWS D1.1 unless specific criteria is given in the applicable specification.

Section 6.3.9 of Specification C-304 allows arc striking on electrical supports and equipment, including the connection to the building structure, provided that craters which could result by arc striking do not contain cracks as determined by visual examination.

In addition, Section 6.4.15 of Specification C-304 allows arc strikes on HVAC equipment, including connections to the building structure, provided that the craters which could result by arc striking do not contain cracks as determined by visual examination.

The resulting stress concentrations due to arc striking that do not exhibit cracking in the above applications are of insignificant proportions and do not warrant their removal.

Based on the above, it is apparent that there are sufficient measures in the specification to control the occurrence of arc striking; therefore, no specification change is necessary.

G.A. Tuveson

JCH/js
4/24/14

270 193

ANN ARBOR

PAUL)
THIS IS MECHANICAL'S INPUT!

MEMORANDUM

TO G. A. TUVESON LOCATION ANN ARBOR - MIDLAND PA

FROM DAVE ANDERSON DATE 4/30/79 19

SUBJECT CPCo - MIDLAND UNITS 1&2 JOB NO. 7220
QAR - SD-156 - ARC STRIKES

THIS IS MECHANICAL ENGINEERINGS RESPONSE TO ITEM 2 OF QAR SD-156 PERTAINING TO SPECIFICATION 7220-M-204(Q)

ARC STRIKES ON MATERIAL ADJACENT TO THE WELD GROOVE AREA IS DISCOURAGED BY PARA 5.1.3.m OF SPEC M-204(Q). WE PROPOSE TO ADD THE FOLLOWING SENTENCE TO PARAGRAPH 5.1.3.m TO PROVIDE GUIDENCE FOR EVALUATING ARC STRIKES;

"ARC STRIKES OCCURRING OUTSIDE OF THE AREA ALLOWED, RESULTING IN CRACKS OR BLEMISHES SHALL BE GROUND TO A SMOOTH CONTOUR AND CHECKED IN ACCORDANCE WITH THE REQUIREMENTS OF PARAGRAPH 7.0 TO INSURE THAT N DEFECT EXISTS."

RSP

210 194

QUALITY ACTION REQUEST

AI-711

From: L. A. Dreisbach (1)		
To: W. L. Barclay (2)	Control Document ref.: FIW-1.310, Rev. 0 (3)	QAR Ident. No.: SD-165 (4)

Action Requested: (5)

FIW-1.310 (FPW-2 Rev. 0), para. 3.0 states, "The LWQCE shall be responsible for reviewing the maintenance of these log sheets at least once within every 90 days. Both the LFWE and LWQCE representatives are responsible for initialing and dating their activities on the log sheets. Contrary to this requirement, the logs in the Aux. Building, Combo Trailer, nor the Turbine Building Trailer Rod Rooms have not been initialed since 7/22/78, 5/2/78, and 5/9/78 respectively. You are requested to evaluate this problem and take appropriate action to assure procedure compliance. Inform QA of the results of your evaluation and action taken.

Signature: E. Smith (6)	Date: 4/18/79 (7)	Reply Requested by: 5-4-79 (8)

Reply: (9)

Per IOM QCFM-5948/AI-525 the temp. verification sheets have been updated in all three rod rooms and training sessions held to prevent recurrence. A review of the combo shop rod room reveals QC Review of temperature verification was conducted on 4/18/79. IOM QCFM-5919 and 5920 documents the training sessions.

Signature: QCFM-5948/AI-525 (10)	Date: 5/3/79 (11)
Action Verified: E. Smith (12)	Date: 5/20/79 (13)

8/2/74

WHITE – Return to sender CANARY – Addressee's file PINK – Sender's file

BPC 20877
G1 101649 05

270 195

QCFM-5948/AI-525

Bechtel Power Corporation

Inter-office Memorandum

To L. A. Dreisbach

Subject Midland Project, Units 1&2
QAR SD-165

Date May 3, 1979

From W. L. Barclay

Of Quality Control

At Midland, Michigan
Job No. 07220 204

Copies to J. F. Newgen
R. A. Simanek

References: a) Quality Assurance Action Item 711
b) QAR No. SD-165

This is considered Quality Control's complete response to reference a) and b) above.

The problem with the review of the log sheets was identified as a misunderstanding by the QCE's relevant to portable rod warmers and holding ovens, therefore the following corrective action was taken.

The holding oven log sheets in the Auxiliary Building, combo trailer and turbine building have been reviewed and updated for compliance to 1.310 Rev. 0 by the responsible QCE's.

A training session was conducted with all QCE's on April 25, 1979 relevant to FIW 1.120 Rev. 1 and Quality Controls responsibility for reviewing the maintenance of these log sheets. (QCFM-5919 and QCFM-5920 attached)

If you should have any further questions on the above, please contact this office.

270 196

W. L. BARCLAY
PROJECT FIELD QUALITY CONTTROL ENGINEER

WLB/JER/SMW/WDD/jmk

Response Required: NO

Attachments

Elect. | Civil | Mech. | Piping | Welding | Coating | Elect (2) | Elect (1) | Resp. Con. | PQAE | Houte | Info | Ref. | Disposition

File with QAR
Copy to Smith

Job 7220 QA Action Item No. 711 Response Dated 5-3-79 File No. 2.2.0.

X

D. Miller
J. Corley

QUALITY ACTION REQUEST

From: (1)
L. A. Dreisbach A/I-712

To: (2) | Control Document ref.: (3) | QAR Ident. No.: (4)
J. F. Newgen | FPC-8.000 Rev. 3 | SD - 166

Action Requested: (5)
Contrary to FPC-8.000 Rev. 3 requirements, Field Material Requisitions (FMR) are missing appropriate review and approval signatures. FMR's were found without signatures for Lead Discipline Engineer or Area Superintendent and Office Engineer/Quality and Office Engineer/Quality signoffs made by a person not so identified.

Examples:

FMR CA-3271 No Lead Discipline Engineer/Area Superintendent signature

FMR WE 1456 & WE 1456 Rev. 1 No Office Engineer/Quality signature.

FMR CM-2665 Rev. 1 signoff for Office Engineer/Quality by D. N. Bremer

FMR BJ-0140 Signoff for Office Engineer/Quality by D. N. Bremer (cont. on pg. 2)

Signature: (6) W. J. Creel | Date: (7) 4/25/79 | Reply Requested by: (8) 4/27/79

Reply: (9)
Ref. QAR By J.F. Newgen dated May 6, 1977. (1) All Lead Discipline Engrs. Received of Requirement to Review & Approve FMRs (2) Stated that D.N. Bremer was Functioning As Office Engr. & Identified his Replacement (As Bremer has resigned) and states that the Proj. Org. Chart will reflect this assignment at its next Revision (3) IOM Requests procedure not to Review any FMRs without all Appropriate Approvals to be Affixed.

270 197

Signature: (10) J.F. Newgen see IOM dated 5/22/79 | Date: (11) 5/22/79

Action Verified: (12) | Date: (13) 5/25/79

8/2-74

WHITE – Return to sender CANARY – Addressee's file PINK – Sender's file

FPC 20827
G1001640 05

FMR BJ-0142 Signoff for Office Engineer/Quality by D. N. Bremer.

Action Requested:

1) Please take necessary corrective action (documented) to assure implementation of procedural requirements.

2) Please provide objective evidence showing Mr. Bremer is authorized/ designated to sign as Office Engineer/Quality.

Bechtel Power Corporation

Interoffice Memorandum

To L. A. Dreisbach

File No

Subject Job 7220 Midland Project
Response to QAR
SD-166
0-2291

Date May 22, 1979

From J. F. Newgen

Of Construction

At Midland, MI Ext 200

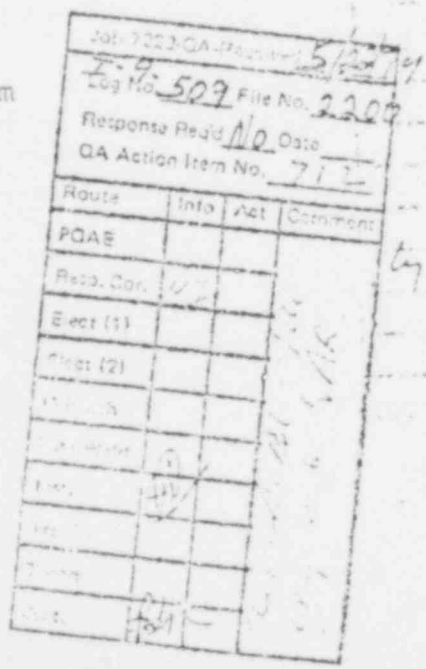
Copies to O. Sirrine
D. Short
J. Betts
B. Matthews
D. Williams
V. Graden
R. Stubbs
J. Hedges

This letter is written to provide our response to the subject audit finding. By copy of this memo all Lead Discipline Field Engineers are reminded that it is their responsibility to review and approve all Field Material Requisitions (FMR's) generated by field engineering personnel. Also note that Neil Bremer has been filling the position of Office Assistant which is synonymous with Office Engineer, and as such, has been reviewing and approving Q-listed FMR's. Effective May 21, 1979 O. Sirrine will replace Neil in this position. The next revision of the project organizational chart will reflect this position.

In closing we ask that if Procurement receives an FMR without all the appropriate approvals, that they return it to Al Boos, Project Field Engineer, who will see that the required signatures are obtained.

J. F. Newgen

JFN/AJB/vmm



270 199

5024, REV 1/78

QUALITY ASSURANCE PROGRAM

MANAGEMENT CORRECTIVE ACTION REPORT

MCAR-1

REPORT NO. 28

JOB NO. 7220 QNO. 5.031 DATE 5/11/79 Rev. 1 5/22/79 ⚠1 ⚠5

I *DESCRIPTION (Including references):

NCR 2176 was written 5/11/79 to identify a problem with the Main Control Panel, Control Panel Section 1C14 furnished by Magnetics on P. O. 7220-J-201 Revision 6. Five (5) wire terminations (on the Status Display Panel Module) were found to be loose from their soldered connection to the individual switches as follows:

See Sheet 2

*RECOMMENDED ACTION (Optional)

1. Determine what effect the loose wires could have on Plant safety if uncorrected. ⚠1
2. Examine other components by Magnetics.
3. Determine why the Magnetics Quality Assurance Program and Bechtel Procurement Supplier Quality Program did not detect this discrepant material.

Continued on Sheet 2

REFERRED TO ☒ ENGINEERING ☐ CONSTRUCTION ☐ QA MANAGEMENT ☐ _____

☒ PROCUREMENT

Potentially Reportable

ISSUED BY W P Austin 5/14/79
Project QA Engineer Date
for L A Brasmer

II REPORTABLE DEFICIENCY

☐ NO ☐ YES

NOTIFIED CLIENT 5/11/79
Date

R S Marotta 5/14/79
Project Manager Date

5/22/

III CAUSE

CORRECTIVE ACTION TAKEN

AUTHORIZED BY _____
Date

STANDARD DISTRIBUTION
DIVISION QA MANAGER
MANAGER OF QA - TPO
GPO - QA MANAGER
LAPD QA MANAGER
AAO QA MANAGER
PROJECT MANAGER
CLIENT
AAO PROJECT OPERATIONS MANAGER
AAO PROCUREMENT MANAGER
AAO MGR OF ENGINEERING
AAO MGR OF CONSTRUCTION

ADDITIONAL DISTRIBUTION - AS APPROPRIATE
ENGINEERING MANAGER
PROJECT ENGINEER
AAO PROCUREMENT SUPPLIER QUALITY MGR
CONSTRUCTION MANAGER
PROJ SUPT PROJ CONSTR MANAGER
CHIEF CONSTR CO ENGINEER
PE OCE
DIVISION PROCUREMENT MGR
PROJ PROCUREMENT MGR
DIV SUPPLIER QUALITY MGR

FORMAL REPORT TO CLIENT _____
(If Section II Applies) Date

CORRECTIVE ACTION IMPLEMENTED
270 200

VERIFIED BY _____
Project QA Engineer Date

*Describe in space provided and attach reference documents

AAO-965

Description - continued

Switch	Terminal	Problem Description
1SV-0127	G	not soldered
1SV-0127A	G	loose solder joint
1SV-0127A	C	cold solder joint
1MO-1257	G	not soldered
1MO-5336A	A	not soldered
1MO-0912	G	wire touching movable member

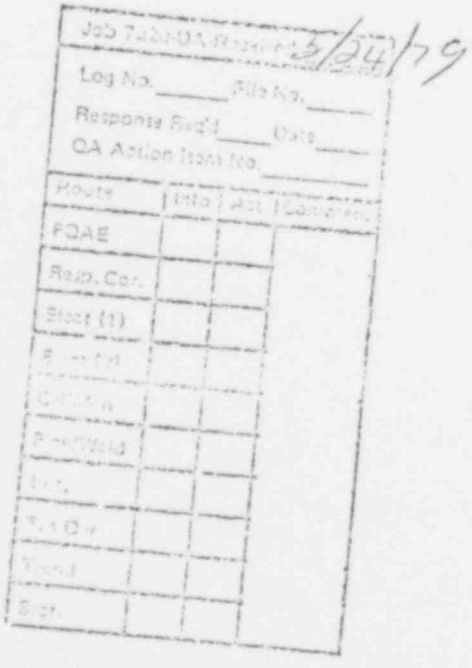
Recommended Action - continued

4. Determine if a functional check would have revealed the above discrepant conditions.

5. Based on items 1 thru 3 above determine reportability under 10 CFR 50.55e by May 25, 1979.

6. Determine root cause and take appropriate steps to prevent recurrence.

7. Take those corrective actions necessary to assure that the Main Control Cabinets comply with specification requirements.



ATTN: R. H. [illegible]
From: Brown Plant Manager

MANAGEMENT CORRECTIVE ACTION REPORT
REPORT NO. 29

Recommended Action - continued

3) Based on items 1 and 2 above evaluate reportability under 10 CFR 50.55(e) by June 20, 1972. The FQAE and the Project Manager should be notified immediately when the reportability status is determined.

4) If the material is found to be unsatisfactory for its intended use implement those corrective actions necessary to assure that the completed systems will meet FSAR commitment.

5) State what steps the supplier has taken to prevent recurrence.

☐ NO ☐ YES

270 202

REPORT NO. 29

JOB NO. 7220 (ONO 4,381, 4,393 (May 22, 1979

I *DESCRIPTION (Including references)

ITT Grinnell has notified Bechtel that nine (9) pipe spools fabricated from Heat No. H32762 failed to meet the physical impact requirements. The nine (9) spools identified are for the Feed Water System as listed below:

1-ELB-1-S-638-13-3	1-ELB-2-S-638-13-5	2-ELB-1-S-639-13-3A
1-ELB-2-S-638-13-3	1-ELB-2-S-638-13-6	2-ELB-2-S-639-13-3
1-ELB-2-S-638-13-4	2-ELB-1-S-639-12-3	2-ELB-2-S-639-13-4

NCR 2211 has been written and tags applied to identify these spools.

*RECOMMENDED ACTION (Optional)

1) Evaluate the design criteria for the feedwater syster in regard to minimum operating temperatures to determine if the material meets system requirements.

2) Based on item 2 above, analyze the effect the identified materials could have on plant safety if uncorrected.

Continued on page 2

REFERRED TO ☒ ENGINEERING ☐ CONSTRUCTION ☐ QA MANAGEMENT ☐ _____

☐ PROCUREMENT

Potentially Reportable

ISSUED BY W. J. Hering 5/23/79
Project QA Engineer Date

II REPORTABLE DEFICIENCY

☐ NO ☐ YES

NOTIFIED CLIENT 5/22/79 Date

W. J. Hering 5/24/79
Project Manager Date

III CAUSE

CORRECTIVE ACTION TAKEN

Item	Task	Trend	Tech Spec	QA Proc.	Proc/Work Inst.	QA Manual	Check (2)	Check (1)	Design Calc.	Other	Remarks	Date Assigned / Date Due / QA Action Item No.	Date Completed / Initials	Job Procedure Violation

AUTHORIZED BY 5/25/79 Date

STANDARD DISTRIBUTION

DIVISION QA MANAGER
MANAGER OF QA - TPO
PROJECT QA MANAGER
LEAD QA ENGINEER
AND QA ENGINEER
PROJECT MANAGER
CLIENT
AND PROJECT DEPARTMENT MANAGER
AND PROJECT PROCUREMENT MANAGER
AND PROJECT CONSTRUCTION MANAGER
AND MANAGER OF CONSTRUCTION

ADDITIONAL DISTRIBUTION AS APPROPRIATE

ENGINEERING MANAGER
PROJECT ENGINEER
AND PROCUREMENT SUPERVISOR (PROJECT QA)
CONSTRUCTION MANAGER
PROJECT CONSTRUCTION MANAGER
CHIEF ENGINEER OF THE USER
PE QA/C
[illegible]
PROJECT CONSTRUCTION QA
PROJECT PROCUREMENT QA
QA SUPERVISOR (CONSTRUCTION)

FORMAL REPORT TO CLIENT
(If Section II Applies) Date

CORRECTIVE ACTION IMPLEMENTED

270 203

VERIFIED BY _____
Project QA Engineer Date

*Describe in space provided and attach data as appropriate

REMARKS

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

REPORT OF NONCONFORMITY

1. JOB NUMBER	2. UNIT NUMBER	3. DATE	4. ITEM NAME	5. ITEM NUMBER
CL-238	Unit #2	5/3/79	Thermal Shield Restraints	Mk.-360

6. VENDOR/MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
B&W	☐RECEIVING ☐TEST ☒CONST.	290	FCP-#60

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY#
N/A	111222D, Rev. 2	N/A

13. DESCRIPTION OF NONCONFORMITY

Drawing 111222D requires Mk.-388 dowels to have a clearance fit of .0005 to .001 with Mk.-360 restraint blocks. Attached is a chart of the dowel pin to hole actual size. In many cases we do not have required clearance.

14. REPORTED BY	15. VERIFIED BY	16. CORRECTIVE ACTION REQUIRED
J Reinhardt 5-3-79 (NAME / DATE)	R W Shope 5-3-79 (NAME / DATE)	☐YES ☒NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐YES ☒NO

D. E. Hunsicker — FIELD PROJECT ENGINEER — 5-3-79 DATE

18. RECOMMENDED DISPOSITION: ☐N/A ☒REWORK ☐REPAIR ☐REPLACE ☐RETURN ☐ACCEPT AS IS

19. TECHNICAL JUSTIFICATION/OR RECOMMENDED DISPOSITION INSTRUCTIONS

Recommend that holes be reamed as necessary to accomodate pins.

D. E. Hunsicker — FIELD PROJECT ENGINEER — 5-4-79 DATE

20. ACTUAL DISPOSITION: ☐REWORK ☐REPAIR ☐REPLACE ☐RETURN ☐ACCEPT AS IS

21. DISPOSITION INSTRUCTIONS

FIELD PROJECT ENGINEER — DATE

22. APPROVALS

B&W FCC — SIGNATURE — DATE — OTHER — SIGNATURE — DATE

OWNER/AGENT — SIGNATURE — DATE — OTHER — SIGNATURE — DATE

23. ANI REVIEW

SIGNATURE — DATE

24. DISPOSITION COMPLETED

NAME — DATE

25. DISPOSITION VERIFICATION ☐ACCEPTABLE ☐UNACCEPTABLE

NAME — DATE — REPORT OF NONCONFORMITY #

25. CORRECTIVE ACTION

270 204

FIELD PROJECT MANAGER — DATE

27. NONCONFORMITY CLOSED

FIELD QUALITY CONTROL SUPV. — DATE

THERMAL SHIELD RESTRAINTS

ATTACHMENT TO NCR 527

BLOCK #	HOLE #1	PIN #1	HOLE #2	PIN #2	HOLE #3	PIN #3
1	.499	.501	.500	.500	.499	.500
2	.499	.500	.499	.500	.500	.500
3	.499	.500	.500	.500	.500	.500
4	.		.499	.500	.563	.561
5	.499	.499	.499	.499	.499	.499
6	.499	.499	.499	.499	.500	.499
7	.500	.500	.500	.500	.500	.500
8	.499	.499	.499	.499	.499	.499
9	.499	.499	.500	.500	.500	.500
10	.499	.500	.499	.500	.500	.500
11	.499	.499	.500	.500	.501	.500
12	.500	.500	.500	.500	.500	.500
13	.500	.500	.500	.500	.500	.500
14	.501	.500	.499	.500	.500	.500
15	.500	.500	.500	.500	.499	.499
16	.563	.562	.500	.500	.563	.561
17	.500	.500	.500	.499	.500	.500
18	.500	.500	.501	.500	.500	.500
19	.500	.500	.500	.500	.500	.500
20	.499	.500	.499	.500	.500	.499

270 205

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

PAGE 1 OF 1

REPORT OF NONCONFORMITY

1. JOB NUMBER	2. UNIT NUMBER	3. DATE	4. ITEM NAME	5. ITEM NUMBER
CL-238	Unit #2	5/7/79	Spool pressurized spray line	2CCA-15-S-602-2-10

6. VENDOR MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
ITT Grinnell	☐ RECEIVING ☐ TEST ☒ CONST.	293	FCP-#18

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY*
N/A	M-602, Sht. 2 (Q), Rev. 3	N/A

13. DESCRIPTION OF NONCONFORMITY

During field welds 12 & 13 the alignment of spool piece 2CCA-15-S-602-2-10 was drawn off by the amounts shown in the attached drawing.

14. REPORTED BY	15. VERIFIED BY	16. CORRECTIVE ACTION REQUIRED
R. D. Brown 5-7-79 (NAME / DATE)	R W Hope 5-7-79 (NAME / DATE)	☒ YES ☐ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO

D J Durst — FIELD PROJECT ENGINEER — 5-7-79 — DATE

18. RECOMMENDED DISPOSITION: ☐ N/A ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS

19. TECHNICAL JUSTIFICATION OR RECOMMENDED DISPOSITION INSTRUCTIONS

FIELD PROJECT ENGINEER — DATE

20. ACTUAL DISPOSITION: ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS

21. DISPOSITION INSTRUCTIONS

FIELD PROJECT ENGINEER — DATE

22. APPROVALS

B&W FQC _____ SIGNATURE _____ DATE — OTHER _____ SIGNATURE _____ DATE

OWNER'S AGENT _____ SIGNATURE _____ DATE — OTHER _____ SIGNATURE _____ DATE

23. ANI REVIEW

_____ SIGNATURE _____ DATE

24. DISPOSITION COMPLETED	25. DISPOSITION VERIFICATION ☐ ACCEPTABLE ☐ UNACCEPTABLE
NAME / DATE	NAME / DATE — REPORT OF NONCONFORMITY *

26. CORRECTIVE ACTION

270 206

FIELD PROJECT MANAGER — DATE

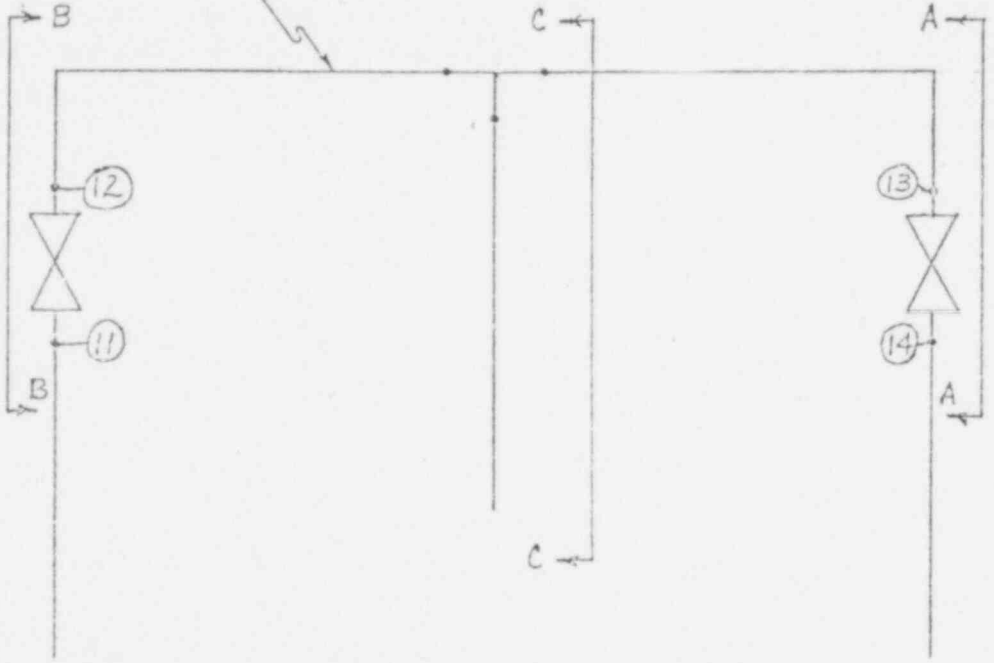
27. NONCONFORMITY CLOSED

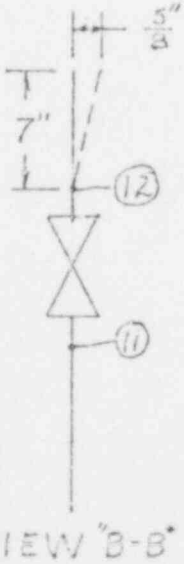
FIELD QUALITY CONTROL SUPV. — DATE

SEQUENTIAL NUMBER No. 1601

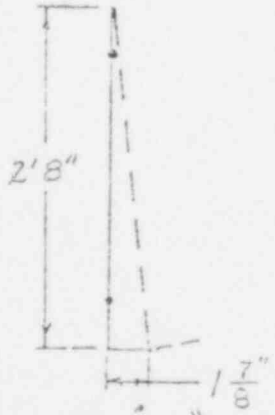
UNIT # 2
FCP # 18
REJ. TAG # 293
5-7-79 D. Brown

2CCA-15-S-602-2-10

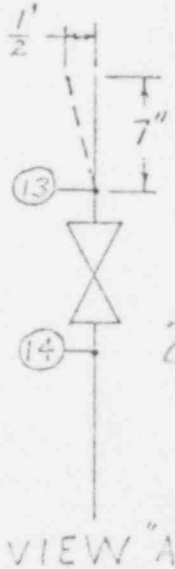




VIEW "B-B"



VIEW "C-C"



VIEW "A-A"

270 207

NOTE: DASHED LINE INDICATES ACTUAL POSITION

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

REPORT OF NONCONFORMITY

1. JOB NUMBER	2. UNIT NUMBER	3. DATE	4. ITEM NAME	5. ITEM NUMBER
CL-238	Unit-#2	5/7/79	Thermal Shield Restraint	Mk.-#360,376,388

6. VENDOR/MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
Babcock & Wilcox	☐ RECEIVING ☐ TEST ☒ CONST.	291	FCP-#60, Seq. 060

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY
N/A	111222D	N/A

13. DESCRIPTION OF NONCONFORMITY

(Condition details continued on pg.2)

During installation, dowel pins Mk.-#388 for hole #1 & hole #2, lodged before they reached full penetration. An attempt was made to remove block Mk.-#360 with wedges between Mk.-#360 & 376. These wedges disturbed metal by creating depressions at the outer edges which will cause a gap in isolated areas of approx. 3/64" max. when Mk.-#360 is installed against Mk.-#376. The attempt at removal has now been dis-continued since it is

14. REPORTED BY	15. VERIFIED BY	16. CORRECTIVE ACTION REQUIRED
J Reinhardt (NAME) 5-7-79 (DATE)	R W Shore (NAME) 5-7-79 (DATE)	☒ YES ☐ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO

H D Hunt — FIELD PROJECT ENGINEER — 5-7-79 — DATE

18. RECOMMENDED DISPOSITION: ☐ N/A ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS

19. TECHNICAL JUSTIFICATION/OR RECOMMENDED DISPOSITION INSTRUCTIONS

Vendor to supply disposition.

H D Hunt — FIELD PROJECT ENGINEER — 5-15-79 — DATE

20. ACTUAL DISPOSITION: ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS

21. DISPOSITION INSTRUCTIONS

FIELD PROJECT ENGINEER — DATE

22. APPROVALS

B&W FQC _____ SIGNATURE _____ DATE — OTHER _____ SIGNATURE _____ DATE

OWNER/AGENT _____ SIGNATURE _____ DATE — OTHER _____ SIGNATURE _____ DATE

23. ANI REVIEW

_____ SIGNATURE _____ DATE

24. DISPOSITION COMPLETED

_____ NAME _____ DATE

25. DISPOSITION VERIFICATION ☐ ACCEPTABLE ☐ UNACCEPTABLE

_____ NAME _____ DATE — REPORT OF NONCONFORMITY #

25. CORRECTIVE ACTION

270 208

FIELD PROJECT MANAGER — DATE

27. NONCONFORMITY CLOSED

FIELD QUALITY CONTROL SUPV. — DATE

SEQUENTIAL NUMBER No 1602

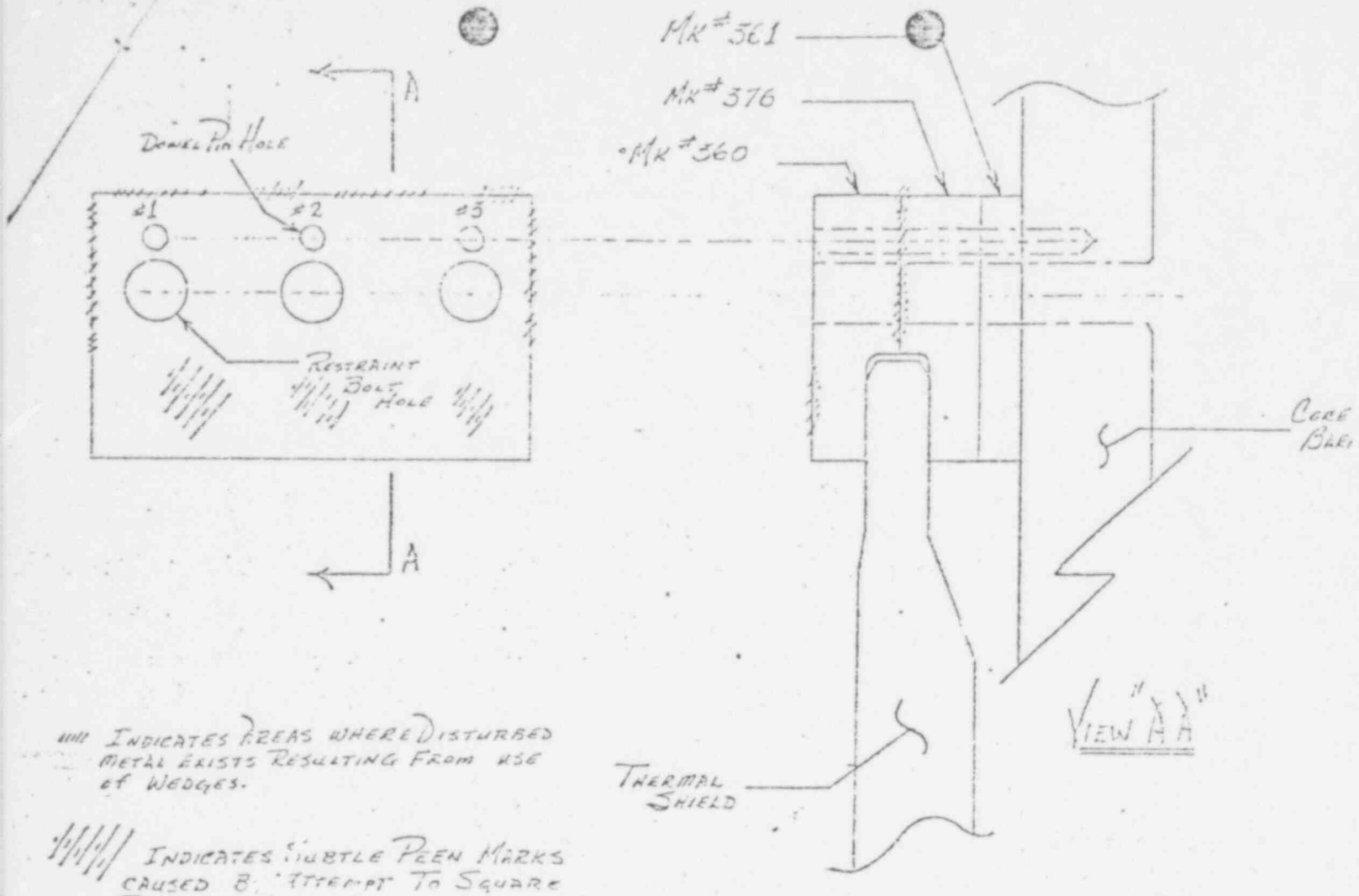
REPORT OF NONCONFORMITY

NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL-238	Unit-2	5/7/79	NCR-#1602

(Conditions details continued from page 1)

obvious that some damage will be incurred during removal. The blocks now have approximately 1 1/4" gap between them.

See attachment for sketch.



IIII INDICATES AREAS WHERE DISTURBED METAL EXISTS RESULTING FROM USE OF WEDGES.

//// INDICATES SUBTLE PEEN MARKS CAUSED BY "ATTEMPT" TO SQUARE RESTRAINT LOCK DURING UNSUCCESSFUL REMOVAL "ATTEMPT"

ATTACHMENT FOR NCR # 1602

270 210

B&C 31-0-1

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

PAGE 1 OF 1

REPORT OF NONCONFORMITY

1. JOB NUMBER	2. UNIT NUMBER	3. DATE	4. ITEM NAME	5. ITEM NUMBER
CL-238	Unit #2	5/10/79	Primary coolant pipe weld	WJ 31-4

6. VENDOR/MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
B&W	☐ RECEIVING ☐ TEST ☒ CONST.	294	FCP-#36

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY#
N/A	150177E	N/A

13. DESC. ON OF NONCONFORMITY

Cavities on WJ 31-4 were repair welded prior to P.T. examination noted at sequence 020 on weld repair data record #673.

14. REPORTED BY	15. VERIFIED SY	16. CORRECTIVE ACTION REQUIRED
R W Thope 5-10-79 (NAME / DATE)	R W Thope 5-10-79 (NAME / DATE)	☒ YES ☐ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO — D S Durst (FIELD PROJECT ENGINEER) — 5-10-79 (DATE)

18. RECOMMENDED DISPOSITION: ☐ N/A ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☒ ACCEPT AS IS

19. TECHNICAL JUSTIFICATION/OR RECOMMENDED DISPOSITION INSTRUCTIONS

Accept as is based on final P.T. & R.T. examination.

D S Durst (FIELD PROJECT ENGINEER) — 5-10-79 (DATE)

20. ACTUAL DISPOSITION: ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS

21. DISPOSITION INSTRUCTIONS

1. Complete weld repair
2. P.T. per 9-PT-101.
3. R.T. per 9-RT-102

D S Durst (FIELD PROJECT ENGINEER) — 5-10-79 (DATE)

22. APPROVALS

B&W FQC R W Thope (SIGNATURE) 5-15-79 (DATE) OTHER ____ (SIGNATURE / DATE)

OWNER/AGENT R E C Witherspoon (SIGNATURE) 5/21/79 (DATE) OTHER ____ (SIGNATURE / DATE)

23. ANI REVIEW ____ (SIGNATURE) ____ (DATE)

24. DISPOSITION COMPLETED	25. DISPOSITION VERIFICATION
NAME / DATE	☐ ACCEPTABLE ☐ UNACCEPTABLE — NAME / DATE — REPORT OF NONCONFORMITY #

25. CORRECTIVE ACTION

Advised supervisory personnel to check FCP before proceeding to next step to make sure all inspections are complete.

270 211

V. N. Ag[illegible] (FIELD PROJECT MANAGER) — 5/15/79 (DATE)

27. NONCONFORMITY CLOSED

____ (FIELD QUALITY CONTROL SUPV.) — ____ (DATE)

SEQUENTIAL NUMBER № 1603

ACC 51812-1

0

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

REPORT OF NONCONFORMITY

1. JOB NUMBER	2. UNIT NUMBER	3. DATE	4. ITEM NAME	5. ITEM NUMBER
CL-238	Unit-#2	5/14/79	Feedwater Header	A 122- 1&2 A 123- 1&2

6. VENDOR MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
B&W	☐ RECEIVING ☐ TEST ☒ CONST.	295,296,298 & 503	FCP-#45

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY?
N/A	143024E, Rev. 7	N/A

13. DESCRIPTION OF NONCONFORMITY

During fit-up of headers, excessive rust was discovered on the inside of each header assembly, primarily at the bottom. Excessive rust is also on the feedwater header nozzle weld preps, O.D. and I.D..

14. REPORTED BY	15. VERIFIED BY	16. CORRECTIVE ACTION REQUIRED
A.C. Ashworth, 5-14-79 NAME DATE	R W Hoxe 5-14-79 NAME DATE	☐ YES ☒ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO

D G Durst — FIELD PROJECT ENGINEER — 5/14/79 DATE

18. RECOMMENDED DISPOSITION: ☐ N/A ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS

19. TECHNICAL JUSTIFICATION OR RECOMMENDED DISPOSITION INSTRUCTIONS

FIELD PROJECT ENGINEER — DATE

20. ACTUAL DISPOSITION: ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS

21. DISPOSITION INSTRUCTIONS

FIELD PROJECT ENGINEER — DATE

22. APPROVALS

B&W FQC _____ SIGNATURE _____ DATE
OTHER _____ SIGNATURE _____ DATE
OWNER/AGENT _____ SIGNATURE _____ DATE
*OTHER _____ SIGNATURE _____ DATE

23. ANI REVIEW

_____ SIGNATURE _____ DATE

24. DISPOSITION COMPLETED

_____ NAME _____ DATE

25. DISPOSITION VERIFICATION ☐ ACCEPTABLE ☐ UNACCEPTABLE

_____ NAME _____ DATE REPORT OF NONCONFORMITY #

26. CORRECTIVE ACTION

270 212

FIELD PROJECT MANAGER — DATE

27. NONCONFORMITY CLOSED

FIELD QUALITY CONTROL SUPV. — DATE

SEQUENTIAL NUMBER No 1604

BWCC 31812-1
0

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

REPORT OF NONCONFORMITY

1. JOB NUMBER	2. UNIT NUMBER	3. DATE	4. ITEM NAME	5. ITEM NUMBER
CL-238	Unit- #1	5/18/79	Feedwater spray nozzles	A-137 (Mark No.)

6. VENDOR/MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
Babcock & Wilcox	☒ RECEIVING ☐ TEST ☐ CONST.	505 & 506	9-QPP-108

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY#
FS III-2	104158D, Rev. 2	N/A

13. DESCRIPTION OF NONCONFORMITY

Feedwater spray nozzles were discovered to have a heavy scale of oxidation on all surfaces (I.D. & O.D.) when shipping containers were opened during receipt inspection.

Reference FCP- #55 Receipt Inspection Report- #216

14. REPORTED BY	15. VERIFIED BY	16. CORRECTIVE ACTION REQUIRED
J Rheinhardt (NAME) 5.18.79 (DATE)	R W Hupe (NAME) 5-18-79 (DATE)	☐ YES ☒ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☐ NO _____ FIELD PROJECT ENGINEER _____ DATE

18. RECOMMENDED DISPOSITION: ☐ N/A ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS

19. TECHNICAL JUSTIFICATION/OR RECOMMENDED DISPOSITION INSTRUCTIONS

_____ FIELD PROJECT ENGINEER _____ DATE

20. ACTUAL DISPOSITION: ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS

21. DISPOSITION INSTRUCTIONS

_____ FIELD PROJECT ENGINEER _____ DATE

22. APPROVALS

B&W FQC _____ SIGNATURE _____ DATE OTHER _____ SIGNATURE _____ DATE

OWNER/AGENT _____ SIGNATURE _____ DATE OTHER _____ SIGNATURE _____ DATE

23. ANI REVIEW

_____ SIGNATURE _____ DATE

24. DISPOSITION COMPLETED

_____ NAME _____ DATE

25. DISPOSITION VERIFICATION ☐ ACCEPTABLE ☐ UNACCEPTABLE

_____ NAME _____ DATE REPORT OF NONCONFORMITY #

25. CORRECTIVE ACTION

270 213

_____ FIELD PROJECT MANAGER _____ DATE

27. NONCONFORMITY CLOSED

_____ FIELD QUALITY CONTROL SUPV. _____ DATE

SEQUENTIAL NUMBER No. 1605

X3

REPORT OF NONCONFORMITY

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

TO BE COMPLETED BY FIELD QC

1 SYSTEM OR PART NAME: Core Flood Line		2 JOB NO.: CL-238	3 DATE: 10-18-78
4 DRAWING VIOLATED & REV.: M-610, Sh. 1, Rv. 3/F4	5 VENDOR NAME: ITT Grinnell	6 REJECT TAG NOS.: 221	
7 PROC/SPEC. VIOLATED: FCP 812	8 P.O. NO.: 7091	9 PART NO.: 1-CCA-21	10 SYSTEM DESIGNATION: Core Flood System
11 CORRECTIVE ACTION REQUIRED: ☒ YES ☐ NO		12 REPORTED BY: J. R. Jones / J. R. Jones / QCM	

13 CONDITION DETAILS

The spools & valves located in containment #1, West side, at elevation 607'-6", are not at the correct elevation. (see sketch).

14 CONDITION DETAILS VERIFIED BY B&W QC SUPV. R W Thorpe DATE 10-18-78	15 DISPOSITION REQUESTED FROM ☒ B&W CONSTRUCTION ☐ BY R W Thorpe DATE 10-18-78

TO BE COMPLETED BY F.P. ENGINEERING

16 REPORTABILITY PER 10 CFR 50.55 (E): ☐ REPORTABLE ☒ NON-REPORTABLE BY E. E. Fenstermaker DATE 10-18-78

17 DISPOSITION INSTRUCTIONS — ACTION: ☐ ACCEPT AS IS ☐ SCRAP ☒ REWORK ☐ RETURN TO VENDOR

Bechtel to furnish disposition instructions. B&W recommends removing the root pass at FW-6. Grind weld prep per M-473 eliminating extended land. B&W and Bechtel to raise lines to proper elevation. Re-weld FW-6 and complete installation.

Reference Bechtel Spec. 7220-M-214, par. 4.B.1
Spools and valves are within referenced Spec. tollerance. In order to correct out of tollerance on slope, B&W recommends removing the root pass FW-6 and locating spool piece 1-CCA-21, S-601-1-1 on elevation.

A. C. Bartell 2-20-79 F. Hanks 4/21

18 DISPOSITION APPROVED BY

B&W QC SUPV. R W Thorpe DATE 10-18-78
B&W FPE E. E. Fenstermaker DATE 10-18-78
OTHER A. C. Bartell for E. E. Fenstermaker DATE 2/21/79
OTHER _____ DATE _____

19 DISPOSITION DETAILS BY Bechtel DER 2-18-79 See RFI-21

20 ACTION COMPLETED BY T. D. Davis DATE 4-21-79

TO BE COMPLETED BY FIELD QC

21 REWORK INSPECTION ☒ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE ☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE
BY J. R. Rumbaugh DATE 5-16-79 REPORT OF NONCONFORMITY _____

22 NON CONFORMITY CLOSED B&W QC SUPV. R W Thorpe DATE 5-16-79

TO BE COMPLETED BY F.P. MANAGER

23 CORRECTIVE ACTION DESCRIPTION

Check the elevation and orientation of Bechtel installed piping system before connection the B&W piping.

270 214

V. M. Agnihotri
FIELD PROJECT MANAGER

ANI

24 ANI ACCEPTANCE R. Clayton for C. W. Fay DATE 10-25-78 2-21-79

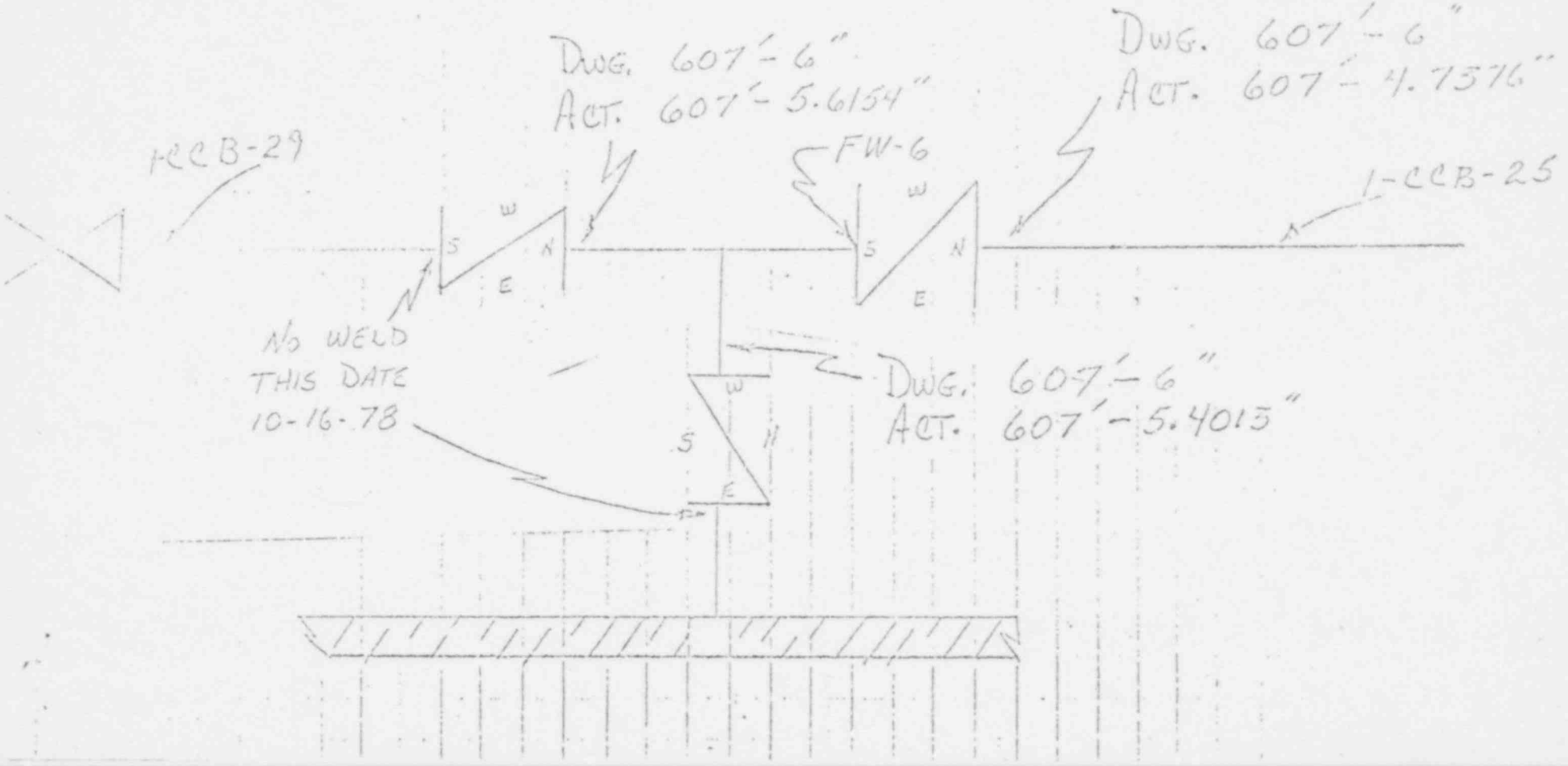
SEQUENTIAL NUMBER 441

CORE FLOOD LINE
607'6" ELEV.

CONT. 1
WEST

1-CCA-21
S-610-1-1
MP-68-9

270 215



REQUEST FOR INFORMATION

PAGE 1 OF ___ NO. 24

PROJECT NO. 7220-M-1A S/C NO. CL-238 O-RELATED YES ☒ NO ☐ DATE 12-4-78

REF. DWG. OR SPEC.	SHEET	REV.	TITLE
M-610	1	2/84	D.H. Removal & Core Flooding System

PREPARED BY: D. E. Kinsala / DE Kinsala RESPONSE REQUESTED BY ___

RECEIVED
DEC 04 1978
Bechtel Power Corp.
JOB 7220

EXISTING CONDITION:

The spools and valves located in containment #1, West side, at elevation 607'-6" are not at correct elevation.

Ref ___

REQUESTED INFORMATION:

Recommended corrective action shown on NCR-441. Request Bechtel disposition.

SUBCONTRACTOR TO COMPLETE

RESPONSE: Recommend that B&W perform repair per disposition on NCR #441

270 216

BECHTEL TO COMPLETE

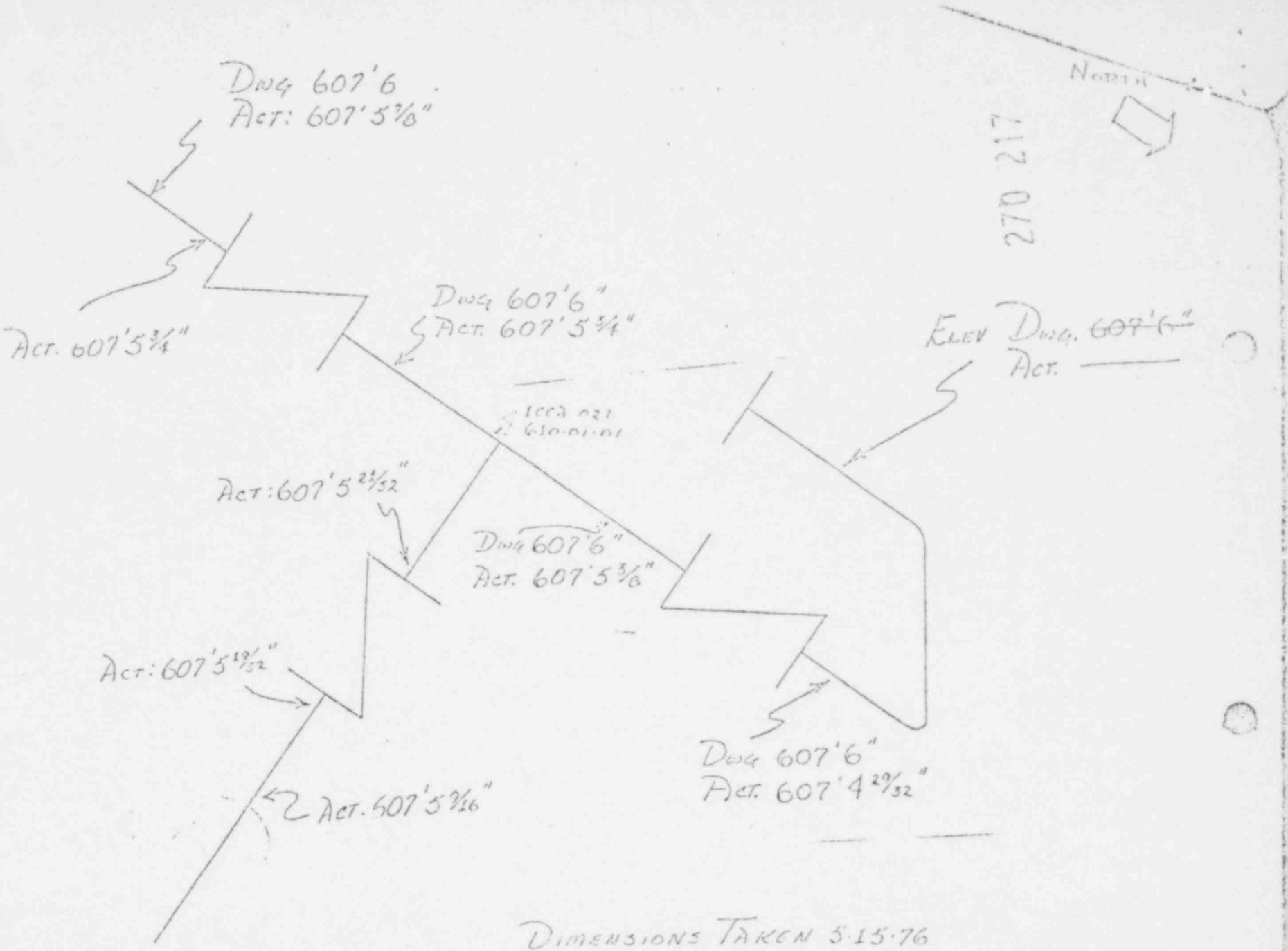
REVIEWED BY: DATE

CIVIL ___

ELECT. ___

RESPONSE PREPARED BY: ___ 12-4-78

BECHTEL APPROVAL: ___



DIMENSIONS TAKEN 5-15-76
CORE FLOOD LINE 1CCA-021
CONTAINMENT #1
WEST SIDE

FCP #12
Dwg M610 Sh. 1

5312

ORT OF NONCONFORMITY

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

SYSTEM OR PART NAME		NO.	DATE
1 Core Flood Line		2 CL-238	3 10-24-78
DRAWING VIOLATED & REV.	VENDOR NAME	REJECT TAG NOS.	
4 M-611, Sh.1, Rv.2/F4	5 ITT Grinnell	6 222	
PROC/SPEC. VIOLATED	P.O. NO.	PART NO.	SYSTEM DESIGNATION
7 FCP #12	8 M-104A	9 2-CCA-20	10 Core Flood System
CORRECTIVE ACTION REQUIRED		REPORTED BY	
11 ☒ YES ☐ NO		12 James R. Jones	

TO BE COMPLETED BY FIELD QC

CONDITION DETAILS

The spools & valves located in containment #2, west side, at elevation 607'-6", are not at the correct elevation. (see sketch).
Core flood leg from 607'-6" elevation to 596'-3" elevation is 1 13/16" short.

13

CONDITION DETAILS VERIFIED BY	DISPOSITION REQUESTED FROM
14 B&W QC SUPV. _____ DATE 10-24-78	15 ☒ B&W CONSTRUCTION ☐ BY _____ DATE 10-24-78

TO BE COMPLETED BY F.P. ENGINEERING

REPORTABILITY PER 10 CFR 50.55 (E)
☐ REPORTABLE ☒ NON-REPORTABLE BY _____ DATE 10-24-78
16

DISPOSITION INSTRUCTIONS

ACTION
☐ ACCEPT AS IS ☐ SCRAP ☐ REWORK ☐ RETURN TO VENDOR

Submit to Bechtel for resolution.
~~Suggest~~ accept as is based on Bechtel spec. 7220-M-214 (Q).
CAO 5/15/79

17

DISPOSITION APPROVED BY	DISPOSITION DETAILS BY
B&W QC SUPV. _____ DATE 5-15-79	19
B&W FPE _____ DATE 5-15-79	ACTION COMPLETED
OTHER _____ DATE _____	20 BY _____ DATE _____
OTHER _____ DATE _____	

18

TO BE COMPLETED BY FIELD QC

REWORK INSPECTION ☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE ☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE
21 BY _____ DATE _____ REPORT OF NONCONFORMITY _____

NON CONFORMITY CLOSED
22 B&W QC SUPV. _____ DATE _____

TO BE COMPLETED BY F.P. MANAGER

CORRECTIVE ACTION DESCRIPTION

270 218

Check the elevation and orientation of Bechtel installed piping system before connection the B&W piping.

_____
FIELD PROJECT MANAGER

23

ANI

ANI ACCEPTANCE DATE _____
24

SEQUENTIAL NUMBER № 445

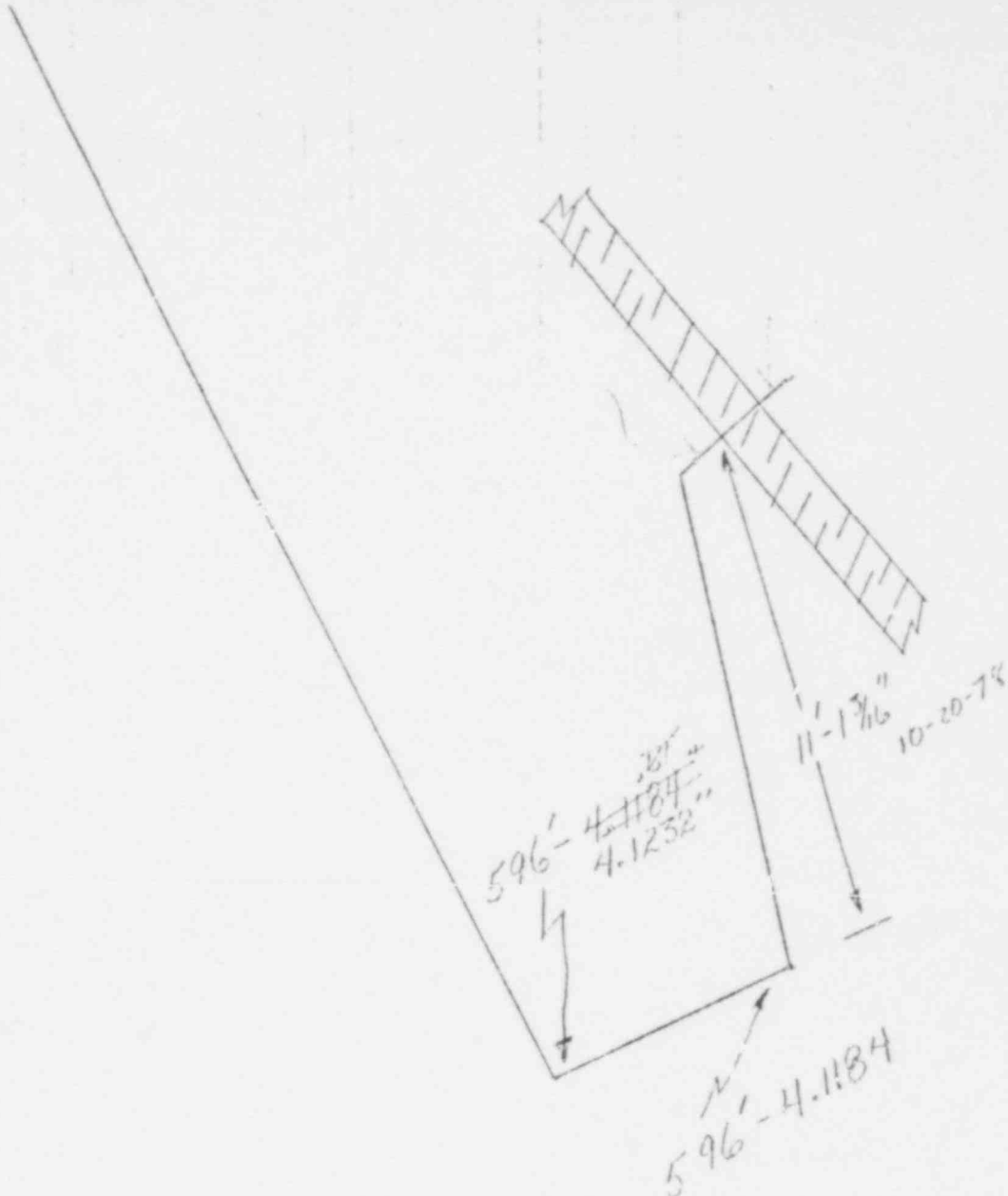
CORE FLOOD LINE

ELEV. 596'-3"

CONT. # 2

WEST

10-19-78

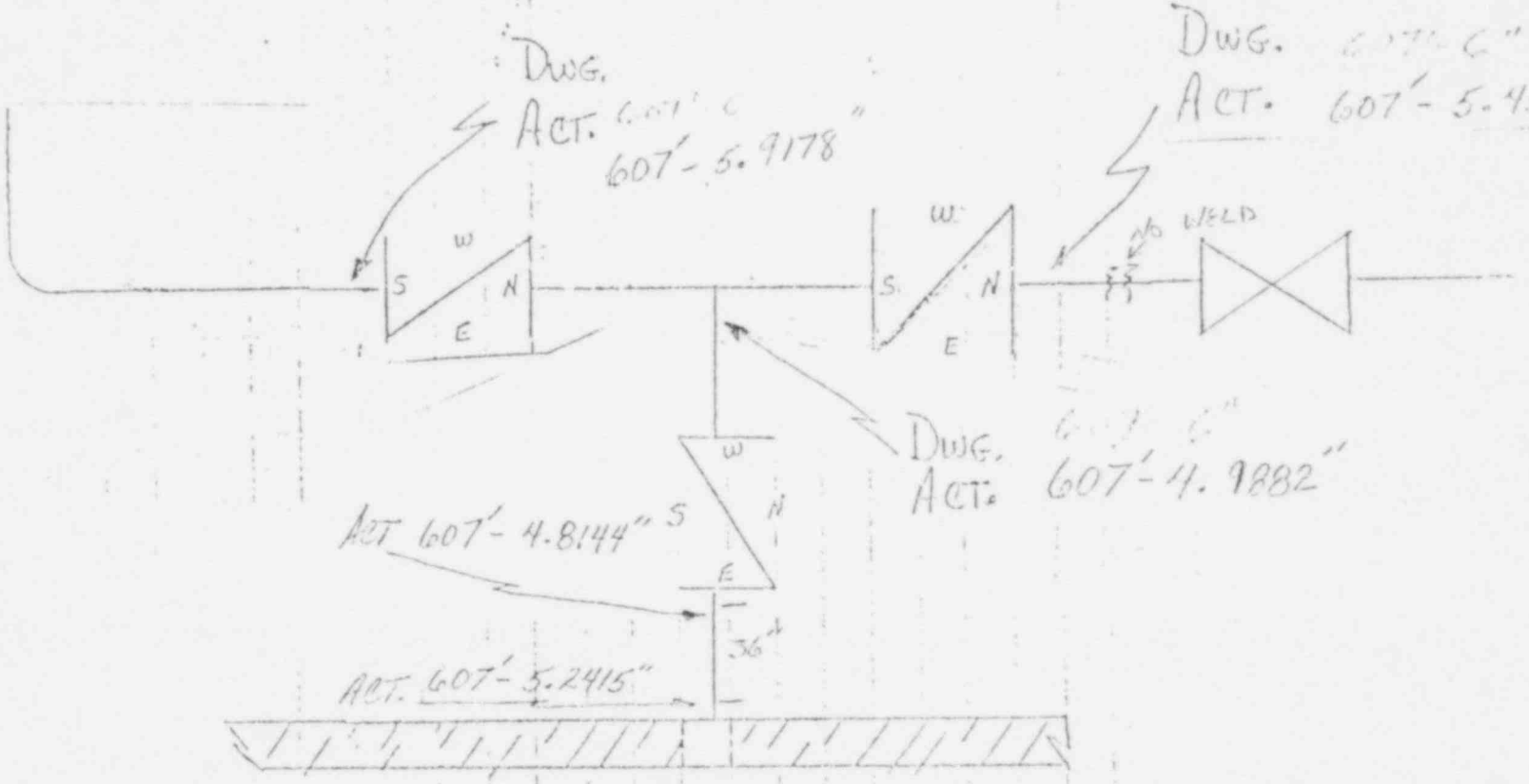


270 219

NCR # 145

CORE FLOOD LINE
607' 6" ELEV.
CONT. 2
WEST

10-19-78



NCR #445

270 220

REPORT OF NONCONFORMITY

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

TO BE COMPLETED BY FIELD QC

1 SYSTEM OR PART NAME: Reactor Coolant System Unit #2		2 JOB NO.: CL-233	3 DATE: 10-31-78
4 DRAWING VIOLATED & REV.: N/A	5 VENDOR NAME: B&W Mt. Vernon	6 REJECT TAG NOS.: 228	
7 PROC/SPEC. VIOLATED: FCP #20	8 P.O. NO.: N/A	9 PART NO.: Spool A 24-1	10 SYSTEM DESIGNATION: Primary Piping
11 CORRECTIVE ACTION REQUIRED: ☒ YES ☐ NO		12 REPORTED BY: J. Rheinhardt	

13 CONDITION DETAILS

Disturbed metal is evident on O.D. of spool A 24-1, appears to be an arc strike on O.D. surface possibly due to short in preheat blankets above WJ 6-1. Area affected is located at the intersection of 2 arcs, the first measured 21 1/2" from center of R.T. layout numeral #9 and the second arc measured 25" to center of R.T. layout numeral #8. The area discussed measures approximately 3/4" high & 3/8" wide Dimensions given as arc dimensions are to the center of distrubed area. See attached sketch

14 CONDITION DETAILS VERIFIED BY B&W QC SUPV. R W Klepel DATE 10-31-78	DISPOSITION REQUESTED FROM ☒ B&W CONSTRUCTION ☐ 15 BY R W Klepel DATE 10-31-78

TO BE COMPLETED BY F.P. ENGINEERING

16 REPORTABILITY PER 10 CFR 50.55 (E): ☐ REPORTABLE ☒ NON-REPORTABLE BY D. E. Gwaltney DATE 10-31-78

17 DISPOSITION INSTRUCTIONS — ACTION: ☐ ACCEPT AS IS ☐ SCRAP ☒ REWORK ☐ RETURN TO VENDOR

Recommend following action subject to vendors approval.
1. Blend grind area to remove disturbed metal. J.R. Jones 3-22-79
2. Care shall be exercised during grinding to remove a minimum amount of metal.
3. Inspect area per 9-MT-105. MT Accept Reject # 5080 3-22-79 J.R. Jones
4. If necessary grind to remove indications and re-examine per 9-MT-105. N/R
5. Measure & record size and depth of ground area. 2" X 1 3/4" X 3/4" DEEP 5-7-79 A.C. Ashcraft

18 DISPOSITION APPROVED BY: B&W QC SUPV. R W Klepel DATE 12-12-78; B&W FPE E. E. Gwaltney DATE 12-12-78; OTHER A. C. Ashcraft DATE 12/15/78; OTHER ____ DATE ____	DISPOSITION DETAILS BY: 19 B&W NPGD SPR-52; ACTION COMPLETED: 20 BY T. F. Hamilton DATE 5-7-79

TO BE COMPLETED BY FIELD QC

21 REWORK INSPECTION ☒ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE ☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE — BY A C Ashcraft DATE 5-7-79 — REPORT OF NONCONFORMITY ____

22 NON CONFORMITY CLOSED B&W QC SUPV. R W Klepel DATE 5-7-79

TO BE COMPLETED BY F.P. MANAGER

23 CORRECTIVE ACTION DESCRIPTION

Before placing the heating pads, each pad shall be checked for damage and the ones that appear to be damaged shall not be used.

270 22

J. D. Hamilton
FIELD PROJECT MANAGER

ANI

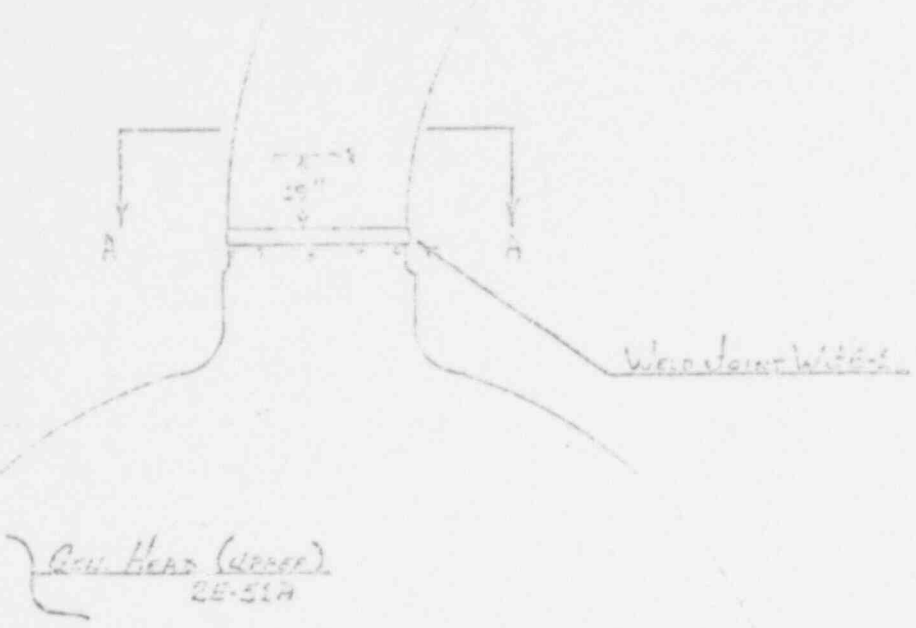
24 ANI ACCEPTANCE ____ DATE 12-19-78

SEQUENTIAL NUMBER 448

W. J. LEE

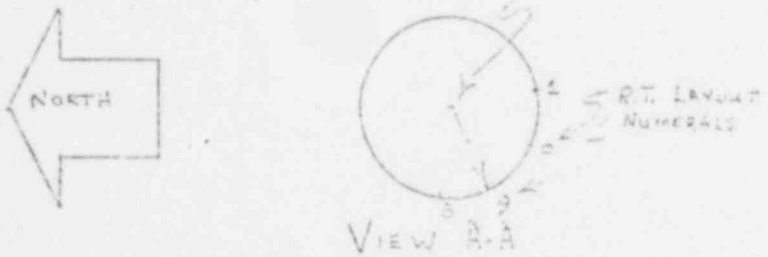
DEC 6 1978

270 222



Cow Head (Keeper)
25-51A

Approx. Equip. Location of Affected Zone



VIEW A-A

NCR # 448
Attachment

BwCC 31809-1

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

MAGNETIC PARTICLE & LIQUID PENETRANT INSPECTION REPORT

MAGNETIC PARTICLE REPORT

JOB NUMBER CL-238 WELD NUMBER WJ 6-1 DATE 3-22-79

SYSTEM NUMBER 2-CCA-1 M.T. PROCEDURE NUMBER 9-MT-105

WELD REPAIR NUMBER N/A SEQ. NUMBER 3 F.C.P. NUMBER NCR #48

INSPECTION LEVEL	MATERIAL INSPECTED	SURFACE CONDITION	APPLICABLE CODE
☐ ROOT ☐ FINAL	☐ WELD	☐ AS WELDED	☐ ASME I
☐ PARTIAL ☒ REPAIR	☒ BASE METAL	☒ GROUND	☒ ASME III
		☐ MACHINED	☐ ASME VIII
			☐ B 31.1
			☐ OTHER

CURRENT	EXAMINATION METHOD		EQUIPMENT	MAGNETIC PARTICLE
☒ A.C. ☐ D.C. ☐ D.C. RECTIFIED	☐ PROD	☐ WET	MAKE MAGNAFLUX	☐ FLOURESCENT
AMPERES	☒ Y-S YOKE	☒ DRY	MODEL Y-6	☒ RED
			SERIAL NUMBER Y-100	☐ GRAY

☒ ACCEPT ☐ REJECT

COMMENTS:

LIGHTING ACCEPTABLE

INSPECTOR James L. Jones

CERTIFIED LEVEL II

LIQUID PENETRANT REPORT

JOB NUMBER _____ WELD NUMBER _____ DATE _____

SYSTEM NUMBER _____ L.P. PROCEDURE NUMBER _____

WELD REPAIR NUMBER _____ SEQ. NUMBER _____ F.C.P. NUMBER _____

INSPECTION LEVEL	MATERIAL INSPECTED	SURFACE CONDITION	APPLICABLE CODE
☐ ROOT ☐ FINAL	☐ WELD	☐ AS WELDED	☐ ASME I
☐ PARTIAL ☐ REPAIR	☐ BASE METAL	☐ GROUND	☐ ASME III
	TYPE _____	☐ MACHINED	☐ ASME VIII
			☐ B 31.1
			☐ OTHER

PRE EXAM. CLEANING	PENTRANT APPLICATION	PRE DEVELOP CLEAN	DEVELOPER APPLICATION	POST EXAM. CLEANING
☐ SPRAY	☐ SPRAY	☐ CLOTH WIPE	☐ DUST	☐ FLUSH
☐ WIPE	☐ BRUSH	☐ TOWEL WIPE	☐ SPRAY	☐ SOLVENT WIPE
BATCH NO.	BATCH NO.	☐ SOLVENT WIPE	BATCH NO.	BATCH NO.
DRY TIME	DWELL TIME	BATCH NO.	DEV. TIME	
		DRY TIME		

☐ ACCEPT ☐ REJECT TEMPERATURE _____ GAGE NUMBER _____

COMMENTS:

270 224

INSPECTOR _____

CERTIFIED LEVEL _____

N/A = NOT APPLICABLE

SEQUENTIAL NUMBER № 5080

BWCC 1042

REPORT OF NONCONFORMITY

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

TO BE COMPLETED BY FIELD QC

1 SYSTEM OR PART NAME: Reactor Coolant System Unit #2		2 JOB NO.: CL-238	3 DATE: 11-7-78
4 DRAWING VIOLATED & REV.: N/A	5 VENDOR NAME: B&W	6 REJECT TAG NOS.: 229	
7 PROC/SPEC. VIOLATED Rev. 2: FCP #20 9-WG-105	8 P.O. NO.: N/A	9 PART NO.: Weld Joint WJ 6-1	10 SYSTEM DESIGNATION: Primary Coolant
11 CORRECTIVE ACTION REQUIRED: ☒ YES ☐ NO		12 REPORTED BY: J. R. Jones / C Jones by E Hess	

13 CONDITION DETAILS

Removal of the fit-up lugs beyond tolerance resulted in gouging of the base material adjacent to the fit-up lugs. (See attachments 1&2.).

14 CONDITION DETAILS VERIFIED BY B&W QC SUPV. R W Shope DATE 11-7-78	15 DISPOSITION REQUESTED FROM ☒ B&W CONSTRUCTION ☐ BY R W Shope DATE 11-7-78

TO BE COMPLETED BY F.P. ENGINEERING

16 REPORTABILITY PER 10 CFR 50.55 (E): ☐ REPORTABLE ☒ NON-REPORTABLE BY D E. Knuckles DATE 11-7-78

17 DISPOSITION INSTRUCTIONS

ACTION: ☐ ACCEPT AS IS ☐ SCRAP ☒ REWORK ☐ RETURN TO VENDOR

Submit readings to vendor for instructions. Suggest proceeding as follows.

1. Remove indication by blend grinding. (3:1 min. ratio required). JR Jones 3-22-79
2. Inspect ground areas per 9-MT-103. MT ~~Report~~ Report #5077 3-22-79 J.R. Jones
3. Remove indications as necessary by grinding & clear per 9-MT-103. MT Report Report #5070 3-22-79 RS
4. Inspect for arc burns and remove by grinding. J.R. Jones 3-22-79
5. Clear ground areas per 9-MT-105. MT Accept Report #5071 3-22-79 J.R. Jones
6. Measure and record size and depth of ground area. 3-28-79 RS Brown

18 DISPOSITION APPROVED BY: B&W QC SUPV. R W Shope DATE 12-12-78; B&W FPE D E Knuckles DATE 12-12-78; OTHER P E W Estabrook DATE 12/15/78; OTHER ____ DATE ____	19 DISPOSITION DETAILS BY: B&W NPGD SPR-54
	ACTION COMPLETED 20 BY J Reinhardt DATE 5-23-79

TO BE COMPLETED BY FIELD QC

21 REWORK INSPECTION: ☒ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE ☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE
BY J Reinhardt DATE 5-23-79 REPORT OF NONCONFORMITY ____

22 NON CONFORMITY CLOSED B&W QC SUPV. R W Shope DATE 5-23-79

TO BE COMPLETED BY F.P. MANAGER

23 CORRECTIVE ACTION DESCRIPTION

The piping superintendent & welding supervisor were advised to take extra care to reduce similar problems.

FIELD PROJECT MANAGER 270 225

ANI

24 ANI ACCEPTANCE E R Schuster DATE 12-19-78

SEQUENTIAL NUMBER 519 150

THE BABCOCK & WILCOX COMPANY
POWER GENERATION GROUP

To → W. J. Lee - B&W Construction Company Site Representative

From D. L. Rice - Technical Support, NPGD (Ext. 3335)

BDS 663

Cust. CPCO

File No. or Ref. NSS-12, SPR-54

Subj. SPR-5[illegible]NC Pipe Indications

Date May 15, 1979

This letter to cover one customer and one subject only.

Reference: Letter from W. J. Lee (B&WCC) to D. L. Rice, dated 5/11/79, Subject: QA Inspection Report

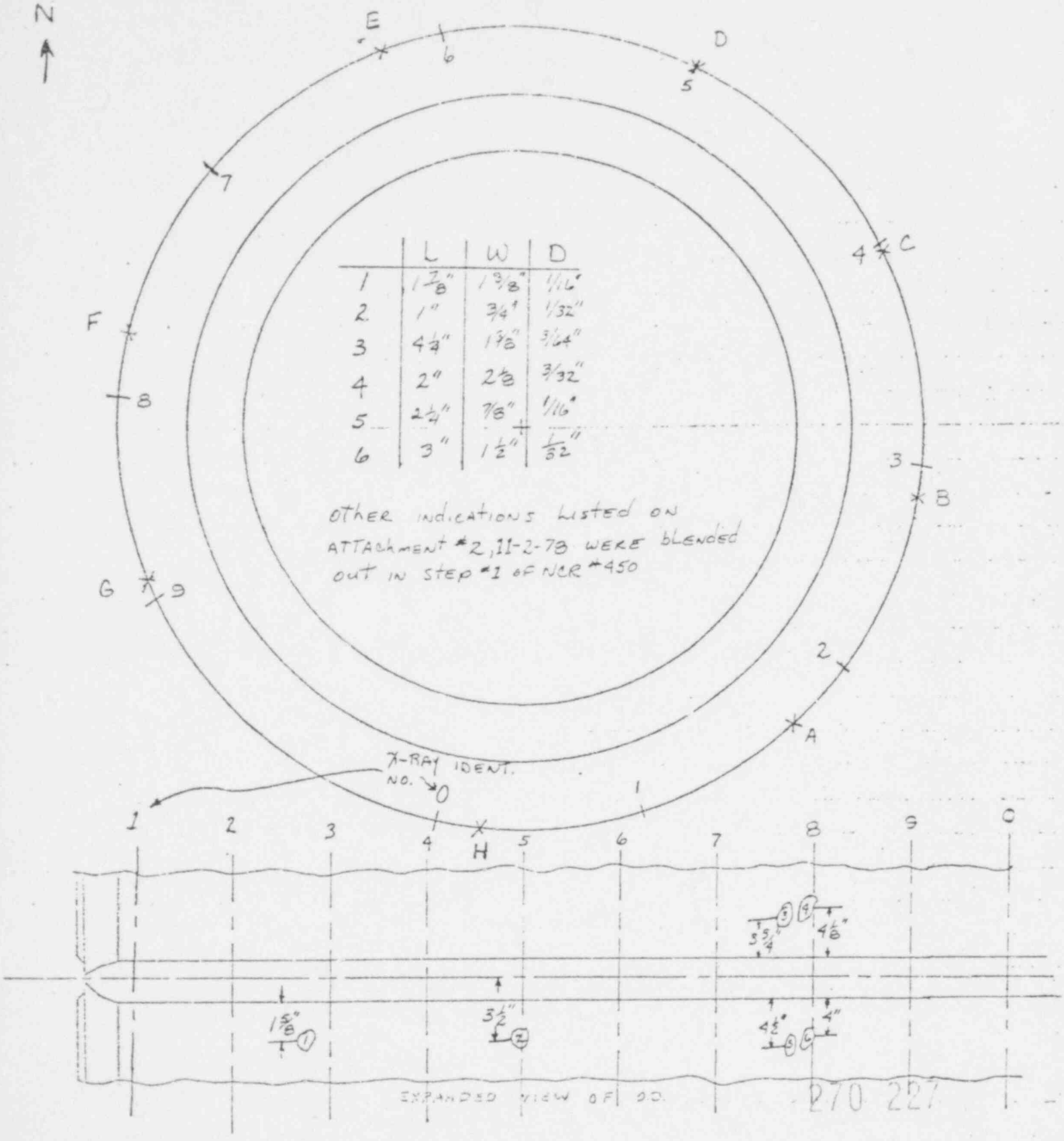
The results of the repair of the six indications noted in the referenced letter are acceptable in accordance with Paragraph 9.5 of Equipment Specification 08-1037000012-03.

DLR:mm

cc: C. E. Mahaney
W. H. Spangler

NCR # 450

270 226



	L	W	D
1	1 7/8"	1 3/8"	1/16"
2	1"	3/4"	1/32"
3	4 1/4"	1 3/8"	3/64"
4	2"	2 1/8	3/32"
5	2 1/4"	7/8"	1/16"
6	3"	1 1/2"	1/32"

OTHER INDICATIONS LISTED ON ATTACHMENT #2, 11-2-78 WERE BLENDED OUT IN STEP #1 OF NCR #450

270 227

WELD NO. WJ 6-1

FCP # 20

UNIT # 2

SEQ # NCR #450 STEP #6

DATE 3-28-79

SIGNED R.L. Brown

Lug # A1 & A2 No Apparent gouges

Lug # B1 No Apparent gouges

Lug # B2 1½" below weld. ¼" x ⅛" x 1/16" deep (Approx)

Lug # C1 & C2 No Apparent gouges

Lug # D1 No Apparent gouges

Lug # D2 3 9/16" below Weld 3/8" x 3/8" x 1/32" deep (Approx)

Lug # E1 No Apparent gouges

Lug # E2 ¾" below weld. ⅛" x ¼" x 1/64" deep (Approx)

Lug # F1 a) 2 13/16" above weld. ¼" x ⅜ x 1/16" deep

b) 2⅝ above weld. ⅛" x ⅛" x 1/32" deep

Lug # F2 a) 3¼" below weld ⅛" x ¼" x 1/64" deep

b) 4" below weld ¼" x ¼" x 1/32" deep

Thermal Couple removal Area at x-Ray Point # 8. 2¼" below weld. ¼" x 7/16" x 1/32"

Lug # G1 a) 3" above weld. ¼" x ¼" x 1/64" deep.

Lug # G2 n/o apparent gouges

Lug # H1 No apparent gouges

Lug # H2 3 1/16" below weld. ⅛" x ⅜" x 1/16" deep.

FCP # 20270 228

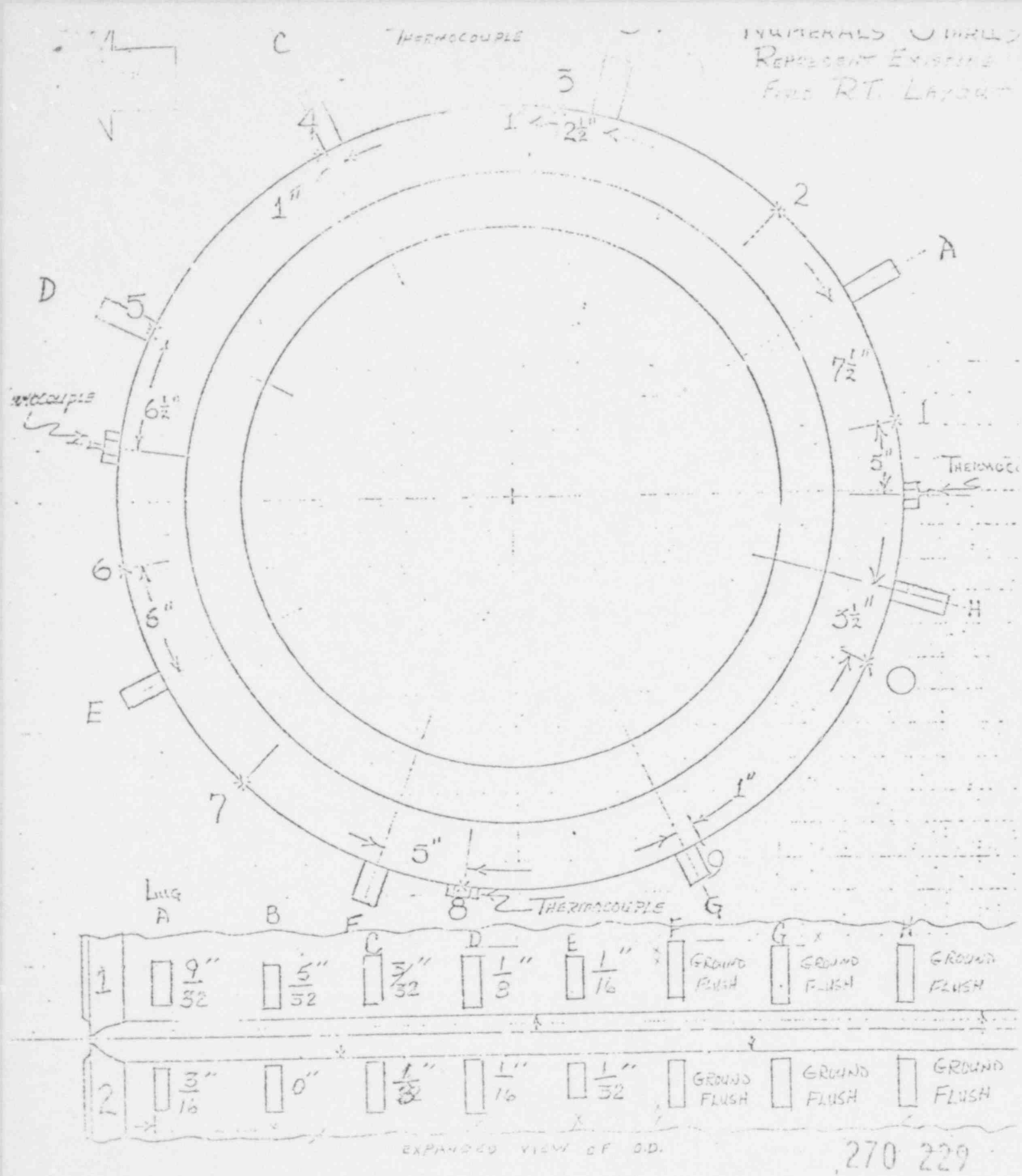
Unit # 2

Seq. # 080

Date: 11-2-78

Signed: D. Young

ATTACHMENT # 2



270 229

WELD NO. WJ6-1

FCP# 20

UNIT# 2

SEQ# 080

DATE 11-1-75

SIGNED

ATTACHMENT #1

W.J. LEE
DEC 6 1978
B & W

270 230

270 231

W. J. LEE

DEC 6 1978

B & W

W.J. LEE
DEC 6 1973
B & W

0

ORT OF NONCONFORMITY

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

1 SYSTEM OR PART NAME	2 JOB NO.	3 DATE
Feedwater Headers	CL-238	12-14-78

4 DRAWING VIOLATED & REV.	5 VENDOR NAME	6 REJECT TAG NOS.
N/A	B&W Co.	109, 110, 111, 112

7 PROC./SPEC. VIOLATED	8 P.O. NO.	9 PART NO.	10 SYSTEM DESIGNATION
9-QPP-108, Rev. 4	M-1.6	A 122-2012-55-1&2 A 123-2012-55-1&2	Feedwater System

11 CORRECTIVE ACTION REQUIRED	12 REPORTED BY
☐ YES ☒ NO	R. D. Murphy / R.D Murphy

TO BE COMPLETED BY FIELD QC

13 CONDITION DETAILS

No hydrotest or impact test data was supplied by the vendor.

14 CONDITION DETAILS VERIFIED BY	15 DISPOSITION REQUESTED FROM
B&W QC SUPV. K W Hupp DATE 12-14-78	☒ B&W CONSTRUCTION ☐ BY K W Hupp DATE 12-14-78

TO BE COMPLETED BY F.P. ENGINEERING

16 REPORTABILITY PER 10 CFR 50.55 (E)
☐ REPORTABLE ☒ NON-REPORTABLE BY G. E. Tinsley DATE 12-14-78

17 DISPOSITION INSTRUCTIONS

ACTION
☒ ACCEPT AS IS ☐ SCRAP ☐ REWORK ☐ RETURN TO VENDOR

This discrepency was previously reported on Bechtel's NCR-#1555.
Disposition will be finalized upon clearance by Bechtel.

Bechtel's NCR-1555 cleared as of 3/9/79, when documents are available B&W Quality Control will review. RFK 4-4-79

18 DISPOSITION APPROVED BY

B&W QC SUPV. K W Hupp DATE 4-4-79
B&W FPE G E Tinsley DATE 4-4-79
OTHER E E Lantz DATE 7/19/79
OTHER _____ DATE _____

19 DISPOSITION DETAILS BY
RFK 4-4-79
B&W Construction Co.

ACTION COMPLETED
20 BY R Rinhardt DATE 5-10-79

TO BE COMPLETED BY FIELD QC

21 REWORK INSPECTION ☒ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE ☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE
BY R Rinhardt DATE 5-10-79 REPORT OF NONCONFORMITY _____

22 NON CONFORMITY CLOSED
B&W QC SUPV. K W Hupp DATE 5-10-79

TO BE COMPLETED BY F.P. MANAGER

23 CORRECTIVE ACTION DESCRIPTION

270 233
FIELD PROJECT MANAGER

ANI

24 ANI ACCEPTANCE Michael C Wolfe DATE 4-10-79

464
SEQUENTIAL NUMBER

REPORT OF NONCONFORMITY

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

TO BE COMPLETED BY FIELD QC

1 SYSTEM OR PART NAME: Spool piece A-32		2 JOB NO.: CL-238	3 DATE: 2/22/79
4 DRAWING VIOLATED & REV.: 170177E, Rev. 8	5 VENDOR NAME: B&W Mt. Vernon	6 REJECT TAG NOS.: 143	
7 PROC/SPEC. VIOLATED: FCP #20, Unit #2	8 P.O. NO.: N/A	9 PART NO.: 2-CCA-1	10 SYSTEM DESIGNATION: Reactor Coolant
11 CORRECTIVE ACTION REQUIRED: ☐ YES ☒ NO		12 REPORTED BY: J. R. Jones / R Jones per R Thrope	

13 CONDITION DETAILS

M.T. indication in lug removal area was ground resulting in a cavity 1/16" deep and 1 5/32"x1 5/32". The indication is still visible in the base material. Please advise as to disposition.
(Sketch attached).

14 CONDITION DETAILS VERIFIED BY B&W QC SUPV. R Wathen DATE 2-22-79	15 DISPOSITION REQUESTED FROM ☒ B&W CONSTRUCTION ☐ BY R W Thrope DATE 2-22-79

TO BE COMPLETED BY F.P. ENGINEERING

16 REPORTABILITY PER 10 CFR 50.55 (E)
☐ REPORTABLE ☒ NON-REPORTABLE BY D. E. Kunsler DATE 2-27-79

17 DISPOSITION INSTRUCTIONS

ACTION: ☐ ACCEPT AS IS ☐ SCRAP ☒ REWORK ☐ RETURN TO VENDOR

[illegible] D.E.K 2-27-79
[illegible] D.E.K 2-27-79

See attached sheet for disposition instructions.

18 DISPOSITION APPROVED BY B&W QC SUPV. R W Thrope DATE 2-27-79 B&W FPE D. E. Kunsler DATE 2-27-79 OTHER [illegible] DATE 3/12/79 OTHER ____ DATE ____	19 DISPOSITION DETAILS BY B&W FP D. E. Kunsler 2-27-79 ACTION COMPLETED 20 BY James R Jones DATE 5-1-79

TO BE COMPLETED BY FIELD QC

21 REWORK INSPECTION ☒ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE ☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE
BY James R Jones DATE 5-1-79 REPORT OF NONCONFORMITY ____

22 NON CONFORMANCE CLOSED
B&W QC SUPV. R W Thrope DATE 5-1-79

TO BE COMPLETED BY F.P. MANAGER

23 CORRECTIVE ACTION DESCRIPTION

270 234

FIELD PROJECT MANAGER

ANI

24 ANI ACCEPTANCE R R Lanter DATE 4-13-79

SEQUENTIAL NUMBER No. 484

NCR #484

DISPOSITION INSTRUCTIONS

010 Remove defect by grinding.

J.R. Jones 3-22-79

*020 Inspect and clear cavity per 9-MT-103.

MT ACCEPT REPORT # 5074 3-22-79 J.R. Jones

025 Map and record cavity size and location.

SEE ATTATCHED CHART R.D. Brown 3-27-79

030 Weld repair cavity per WIN-101-2.

WCR 000338
4-23-79 T. Lt. Davis

*040 Inspect repair area per 9-RT~~-102~~ BM 101

ACCEPT 1245 4-27-79 R.M. [illegible]

*050 Inspect repair area per 9-MT-101.

MT RESECT REPORT # 4696 4-30-79 G. BRAUN / J.R. Jones

060 Grind M.T. indication.

4-30-79 G. BRAUN J.R. Jones

*070 Re-M.T. indication removal area.

MT ACCEPT REPORT # 4697 G. BRAUN J.R. Jones 4-30-79

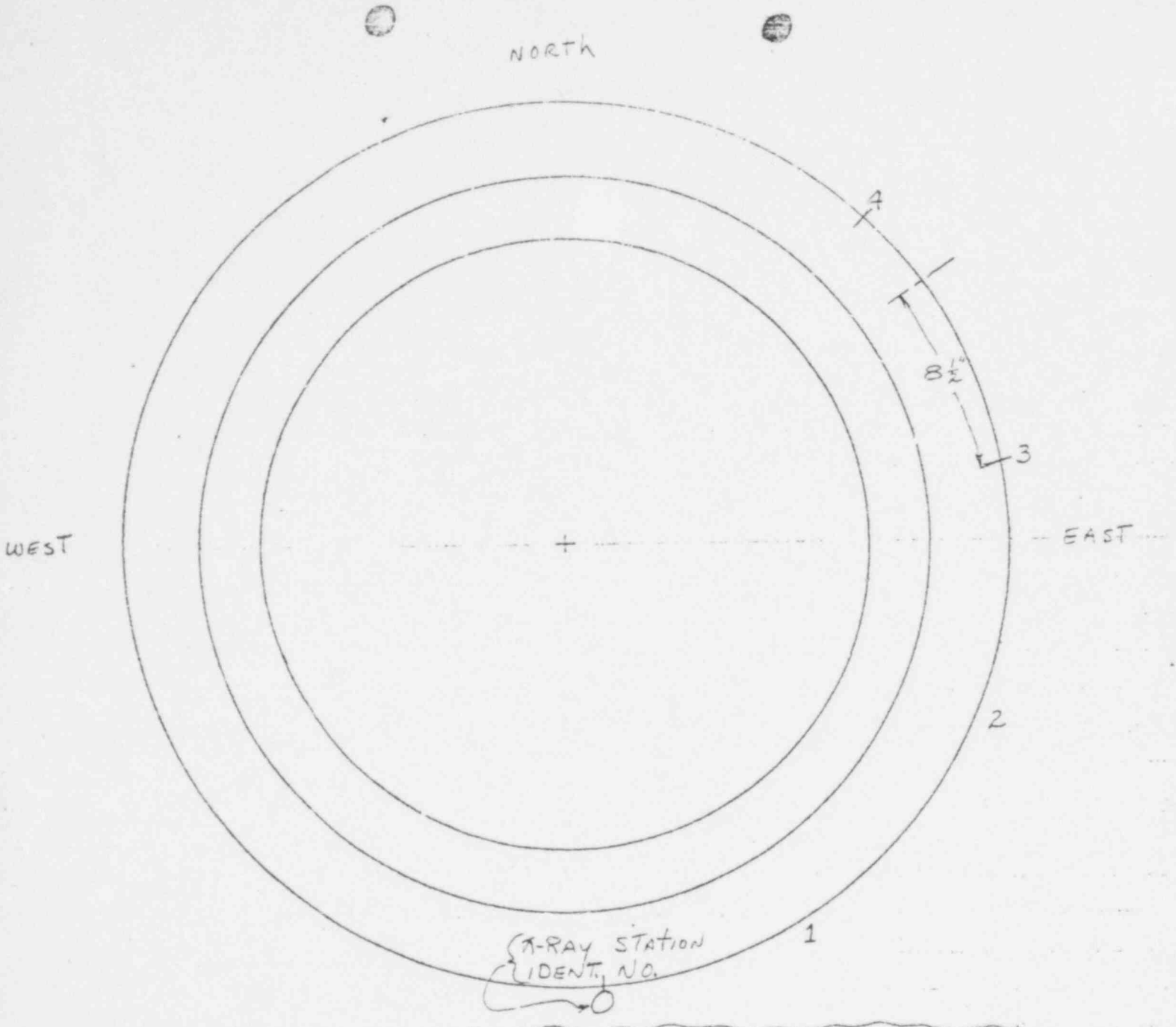
*080 Inspect for arc burns by visual examination.

ACCEPT J.R. Jones

090 Grind as necessary and clear arc burn per 9-MT-105.

MT ACCEPT REPORT # 4900 5-1-79 J.R. Jones

210 255



EXPANDED VIEW OF O.D.

270 236

WELD NO. WJ6-2

WELD AREA BLENDED TO 3:1 TAPER

MINIMUM RADIUS 4½"

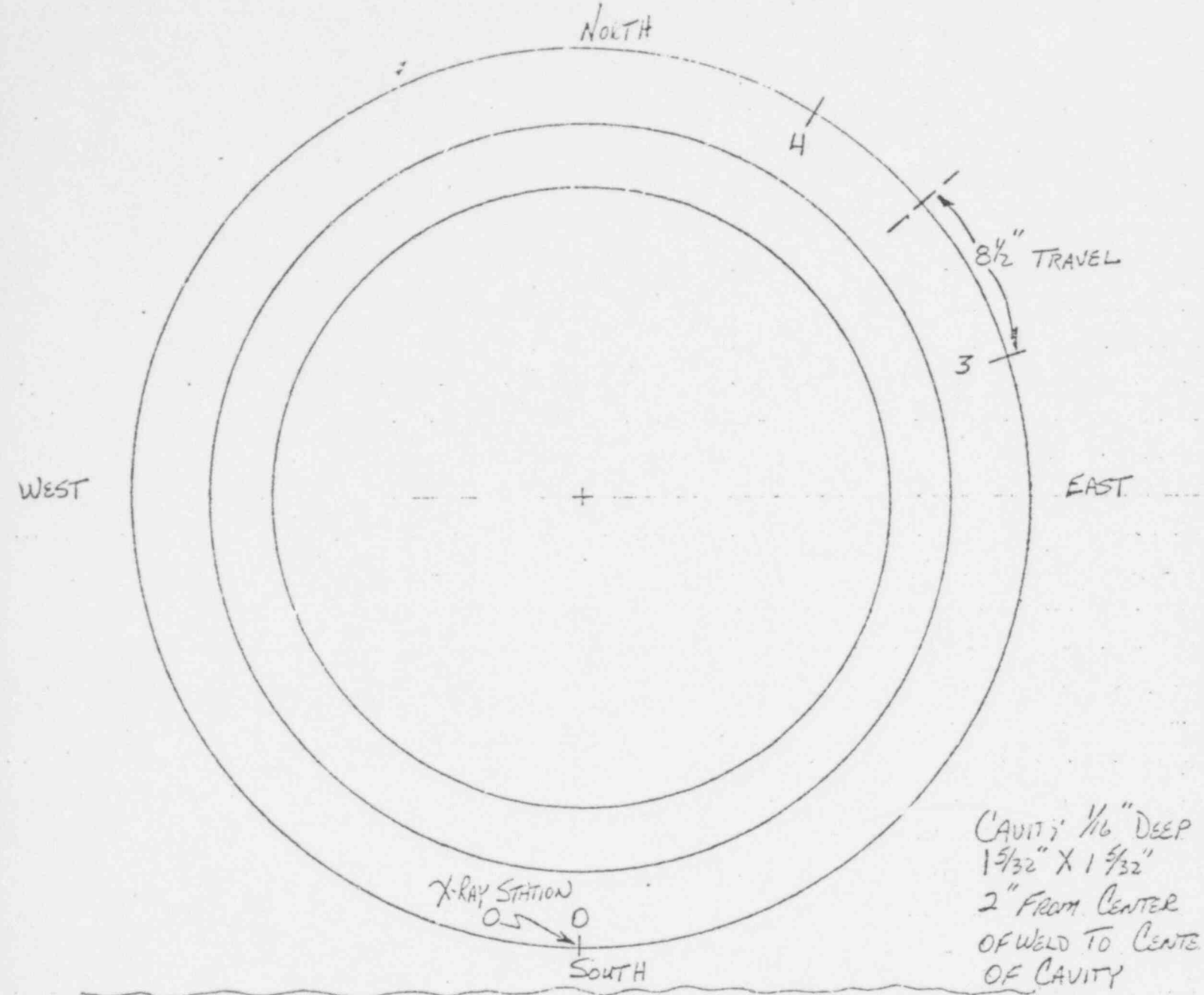
FCP # 20

UNIT # 2

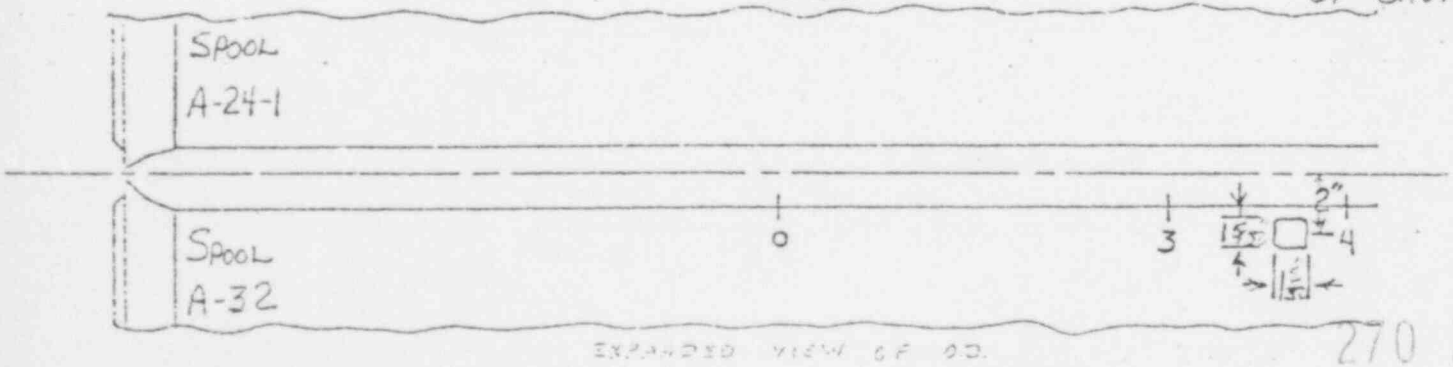
SEQ # NCR 484 STEP 325

DATE 3-27-79

SIGNED R. Ramos



CAVITY 1/16" DEEP
1 5/32" X 1 5/32"
2" FROM CENTER
OF WELD TO CENTE
OF CAVITY



EXPANDED VIEW OF OD.

270 237

WELD NO. WJ6-2

NCR # 484

FCP # 20
UNIT # 2
SEQ # 100.5
DATE 2-19-79
SIGNED

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

REPORT OF NONCONFORMITY

TO BE COMPLETED BY FIELD QC

1 SYSTEM OR PART NAME: Reactor Coolant System, Unit #2	2 JOB NO.: CL-238	3 DATE: 2/22/79	
4 DRAWING VIOLATED & REV.: N/A	5 VENDOR NAME: B&W	6 REJECT TAG NOS.: 142	
7 PROC SPEC. VIOLATED: N/A	8 P.O. NO.: M1.9	9 PART NO.: A-32	10 SYSTEM DESIGNATION: Reactor Coolant
11 CORRECTIVE ACTION REQUIRED: ☒ YES ☐ NO		12 REPORTED BY: T. D. Murphy / R.O. Murphy	

13 CONDITION DETAILS

Heater pad shorted out causing arc burn on the O.D. of the pipe. The area was ground to remove heat affected area resulting in a cavity 1 1/2" round by 3/16" deep. (See chart).

14 CONDITION DETAILS VERIFIED BY B&W QC SUPV. R W Thore DATE 2-22-79	15 DISPOSITION REQUESTED FROM ☒ B&W CONSTRUCTION ☐ BY R W Thore DATE 2-22-79

TO BE COMPLETED BY F.P. ENGINEERING

16 REPORTABILITY PER 10 CFR 50.55 (E)
☐ REPORTABLE ☒ NON-REPORTABLE BY K. E. Varnado DATE 2-23-79

17 DISPOSITION INSTRUCTIONS

Vendor disposition required.

ACTION: ☒ ACCEPT AS IS ☐ SCRAP ☐ REWORK ☐ RETURN TO VENDOR

18 DISPOSITION APPROVED BY B&W QC SUPV R W Thore DATE 4-9-79 B&W FRE K. E. Varnado DATE 4-9-79 OTHER D E Whitehouse DATE 4/12/79 OTHER ____ DATE ____	19 DISPOSITION DETAILS BY B&W NPGD SPR-65, Rev. 2 ACTION COMPLETED 20 BY K. E. Varnado DATE 4-25-79

TO BE COMPLETED BY FIELD QC

21 REWORK INSPECTION ☐ REWORK COMPLETED-INSPECTION PERFORMED ☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE
REWORK NOT REQUIRED AND REWORK ACCEPTABLE
ACCEPT AS IS
BY Pathfinder DATE 5-9-79 REPORT OF NONCONFORMITY ____

22 NON CONFORMITY CLOSED B&W QC SUPV. R W Thore DATE 5-4-79

TO BE COMPLETED BY F.P. MANAGER

23 CORRECTIVE ACTION DESCRIPTION

Have advised superintendents on precautions, required on future joints 270 238

FIELD PROJECT MANAGER

ANI

24 ANI ACCEPTANCE [illegible] DATE [illegible]

135

OWNER: Illinois Power Company	ORIGINATOR: W. J. Lee 2-20-79	13 - 0012	65
FACILITY: B&W Mt. Vernon	P.A. NO.: 620-0012-50	ART NO./TASK NO.: 50	GROUP NO.: 10

TITLE (MAX 50 CHARACTERS): Arc Strike 2&32 R.C. Pipe

PROBLEM CONTACT: W. J. Lee

PROBLEM IDENTIFICATION

DESCRIPTION OF PROBLEM:

After the removal of the heater pads that were used for preheat, one of the pads had shorted out, causing a burn on the R.C. Pipe O.D. The area was ground out with a 3:1 taper and etched with a solution of ammonium persulfate, to be sure the heat affected zone was removed. Then the area was M.T. clear. The cavity is 1-1/2" round and 3/16" deep with a minimum radius of 2", located 17-1/2" below the edge of the field weld and 19" from the south to the west building liner.

STATUS-ACTION TO DATE, INCLUDING PERSONS CONTACTED:

D. Rice, Lynchburg
B. Durant, Mt. Vernon

FURTHER ACTION RECOMMENDED BY SITE PERSONNEL:

"Accept as is"

RESOLUTION

RESOLUTION:

This indication is acceptable "as is".

Ref. A. D. Mckim to W. P. Durant dated 3-27-79
Subj.: SPR #65 Justification

PREPARED BY	DATE	APPROVED BY	DATE
Dennis J Rice	3-30-79	R. J. Rice	3/30/79
REVIEWED BY: J Hudson	DATE: 3/30/79		
W.R. Hillaman for H Baker Nuc. QA	3/30/79		

COST CATEGORY	FIELD CHANGE REQ	F.C.A. NO.	SIGNIF. DEFICIENCY
☐ NORM N/A ☐ OTHER	☐ YES ☒ NO	04-	☐ YES ☒ NO

COMPLETION

SITE COMPLETION REPORT:

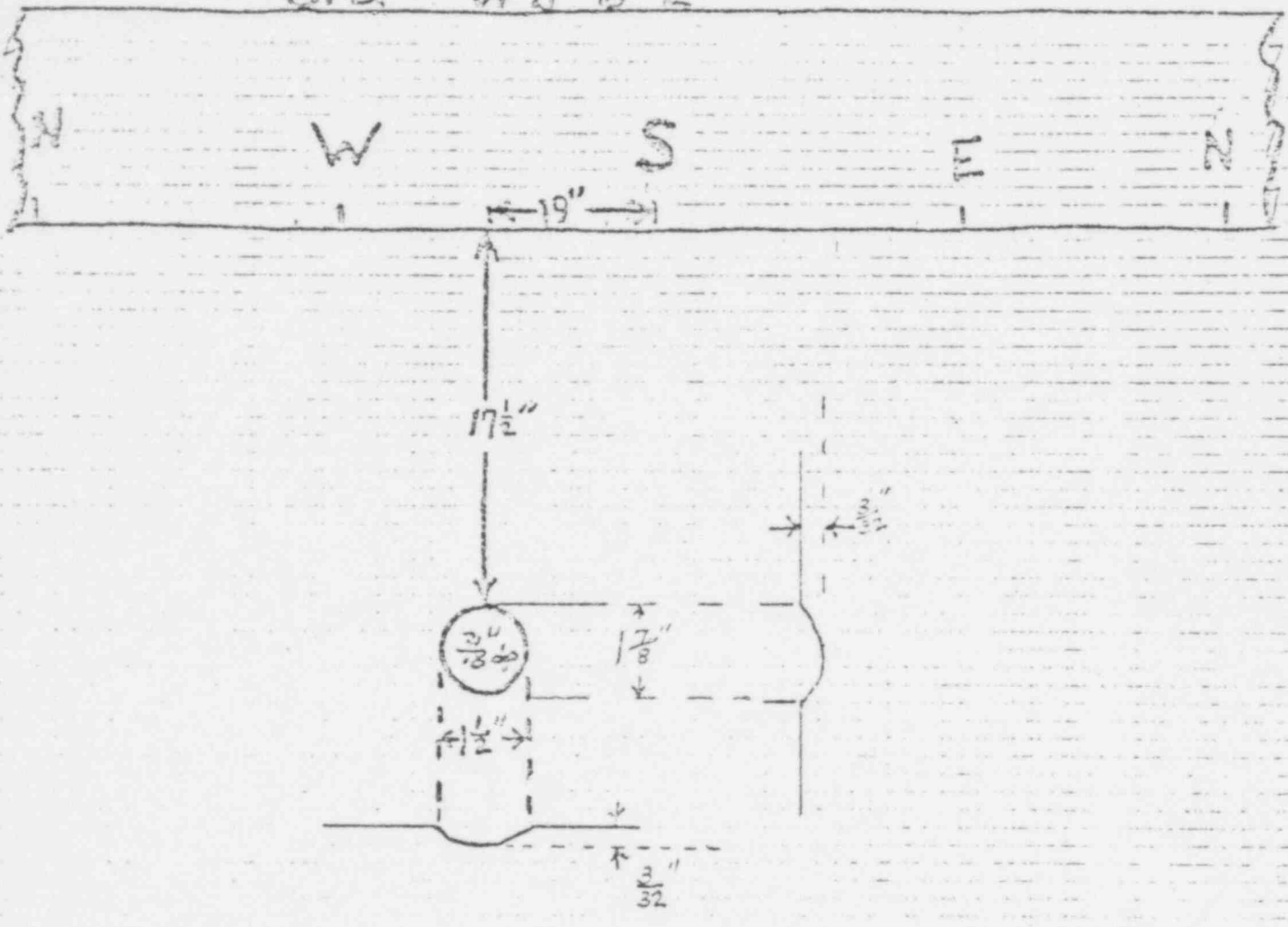
DEVIATIONS: ☐ NONE SPR REV NO. ☐

DATE COMPLETED:

COMPLETED BY DATE: 270 239

SHEET 1 OF 1

O.D. WJ 6-2



270 240

Unit #2
2-15-79

BAC 5211-12

REPORT OF NONCONFORMITY

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

TO BE COMPLETED BY FIELD QC

1 SYSTEM OR PART NAME: Reactor Coolant Pipe A-24-1		2 JOB NO: CL-238	3 DATE: 3/9/79
4 DRAWING VIOLATED & REV.: 150219E, Rev. 2	5 VENDOR NAME: B&W Mt. Vernon	6 REJECT TAG NOS.: 16'	
7 PROC SPEC. VIOLATED: ECP #32, Unit #1	8 P.O. NO.: M L.9	9 PART NO.: A-24-1	10 SYSTEM DESIGNATION: Reactor Coolant
11 CORRECTIVE ACTION REQUIRED: ☐ YES ☒ NO		12 REPORTED BY: J. R. Jones / R Hope for J Jones	

13 CONDITION DETAILS

The 36.791" dimension was machined oversized by .033" to remove clad which remained in this area.
(See attached sketch).

14 CONDITION DETAILS VERIFIED BY: B&W QC SUPV. R W Hope DATE 3-9-79	15 DISPOSITION REQUESTED FROM: ☒ B&W CONSTRUCTION ☐ BY R W Hope DATE 3-9-79

TO BE COMPLETED BY F.P. ENGINEERING

16 REPORTABILITY PER 10 CFR 50.55 (E): ☐ REPORTABLE ☒ NON-REPORTABLE BY D. E. Vinsko DATE 3-9-79

17 DISPOSITION INSTRUCTIONS

ACTION: ☒ ACCEPT AS IS ☐ SCRAP ☐ REWORK ☐ RETURN TO VENDOR

Vendors approval required.
Suggest accepting as is.

18 DISPOSITION APPROVED BY: B&W QC SUPV. R W Hope DATE 5-7-79; B&W FPE R A Hurst DATE 5-7-79; OTHER A. E. Weidenhamer DATE 5/9/79; OTHER ____ DATE ____	19 DISPOSITION DETAILS BY: NPGD Lynchburg See SPR-#39
	ACTION COMPLETED 20 BY R W Hope DATE 5-14-79

TO BE COMPLETED BY FIELD QC

21 REWORK INSPECTION: ☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE ☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE
BY R W Hope DATE 5-14-79 REPORT OF NONCONFORMITY ____

22 NON CONFORMITY CLOSED B&W QC SUPV. R W Hope DATE 5-14-79

TO BE COMPLETED BY F.P. MANAGER

23 CORRECTIVE ACTION DESCRIPTION

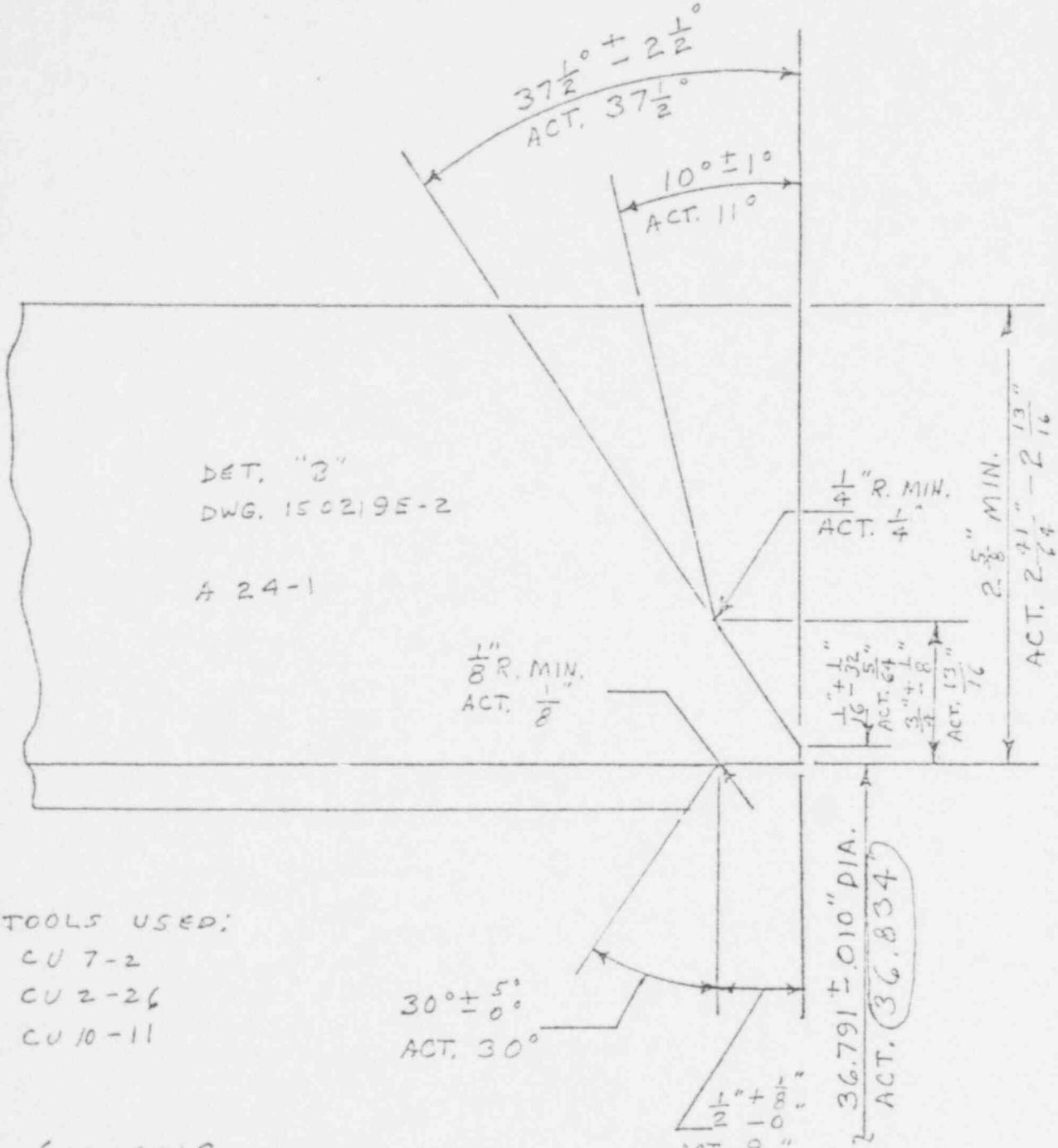
270 241

FIELD PROJECT MANAGER

ANI

24 ANI ACCEPTANCE C. W. Sprague DATE 5-14-79

SEQUENTIAL NUMBER



TOOLS USED:
CU 7-2
CU 2-26
CU 10-11

610-0013
F.C.D. # 32
UNIT # 1
SEQ. # 070

J.R. JONES (acw)
3-9-79

270 242

W.J. LEE
APR 3 1979
B & W

11812

REPORT OF NONCONFORMITY

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

TO BE COMPLETED BY FIELD QC

1 SYSTEM OR PART NAME: 28" Reactor Coolant Pipe, Unit #2		2 JOB NO.: CL-238	3 DATE: 3/12/79
4 DRAWING VIOLATED & REV.: 150177E, Rev. 8	5 VENDOR NAME: B&W Mt. Vernon	6 REJECT TAG NOS.: 162	
7 PROC/SPEC. VIOLATED: FCP #24, Unit #2	8 P.O. NO.: N/A	9 PART NO.: Spool A-57	10 SYSTEM DESIGNATION: Reactor Coolant
11 CORRECTIVE ACTION REQUIRED: ☒ YES ☐ NO		12 REPORTED BY: J. R. Jones / R W Thope for J Jones	

13 CONDITION DETAILS

No I.D. measurement was recorded prior to back cladding in WJ 5-1.
Reference seq. 170.

14 CONDITION DETAILS VERIFIED BY B&W QC SUPV. R W Thope DATE 3-12-79	15 DISPOSITION REQUESTED FROM ☒ B&W CONSTRUCTION ☐ BY R W Thope DATE 3-12-79

TO BE COMPLETED BY F.P. ENGINEERING

16 REPORTABILITY PER 10 CFR 50.55 (E)
☐ REPORTABLE ☒ NON-REPORTABLE BY D. E. Fineke DATE 3-12-79

17 DISPOSITION INSTRUCTIONS — ACTION: ☒ ACCEPT AS IS ☐ SCRAP ☐ REWORK ☐ RETURN TO VENDOR

Accept as is based on corrective action.

Minimum wall before cladding was recorded in seq. 139 of FCP #24.
By comparing the thickness after cladding with these readings,
the minimum thickness of cladding can be determined.

18 DISPOSITION APPROVED BY: B&W QC SUPV. R W Thope DATE 3-12-79; B&W FPE D. E. Fineke DATE 3-12-79; OTHER [illegible] DATE 3/12/79; OTHER ____ DATE ____	19 DISPOSITION DETAILS BY B&WCC DSK
	ACTION COMPLETED 20 BY James L. Jones DATE 5-4-79

TO BE COMPLETED BY FIELD QC

21 REWORK INSPECTION ☒ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE ☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE
BY James L. Jones DATE 5-4-79 REPORT OF NONCONFORMITY ____

22 NON CONFORMITY CLOSED B&W QC SUPV. R W Thope DATE 5-8-79

TO BE COMPLETED BY F.P. MANAGER

23 CORRECTIVE ACTION DESCRIPTION

Revise procedure to U.T. for thickness after cladding and delete requirements for measuring with I.D. micrometer.

FIELD PROJECT MANAGER 270 244

ANI

24 ANI ACCEPTANCE DATE 5-8-79

SEQUENTIAL NUMBER ____ TO ____

D

SWA 2342

REPORT OF NONCONFORMITY

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

TO BE COMPLETED BY FIELD QC

SYSTEM OR PART NAME		JOB NO.	DATE
1 Core Flood System, Unit #1 620-0012		2 CL-238	3 3/19/79
DRAWING VIOLATED & REV.	VENDOR NAME	REJECT TAG NOS.	
4 N/A	5 ITT Grinnel	6 176	
PROC/SPEC. VIOLATED	P.O. NO.	PART NO.	SYSTEM DESIGNATION
7 9-Q2P-108	8 M 104A	9 1-CCA-021-610-01-04	10 Core Flood Line 021
CORRECTIVE ACTION REQUIRED		REPORTED BY	
11 ☐ YES ☒ NO		12 J. Rheinhardt / J Rheinhardt	

CONDITION DETAILS

No documentation is available from vault in the form of a data pack at the time of receipt of spool.
Reference Receipt Inspection Report #349 of FCP #12.

13

CONDITION DETAILS VERIFIED BY	DISPOSITION REQUESTED FROM
14 B&W QC SUPV. R W Shipp DATE 3-19-79	☒ B&W CONSTRUCTION ☐ 15 BY R W Shipp DATE 3-19-79

TO BE COMPLETED BY F.P. ENGINEERING

REPORTABILITY PER 10 CFR 50.55 (E)

☐ REPORTABLE ☒ NON-REPORTABLE BY D. E. Knuth DATE 3-19-79

16

DISPOSITION INSTRUCTIONS — ACTION

☒ ACCEPT AS IS ☐ SCRAP ☐ REWORK ☐ RETURN TO VENDOR

When data package is received and accepted by Bechtel, B&W Q.C. will review.

17

DISPOSITION APPROVED BY	DISPOSITION DETAILS BY
B&W QC SUPV. R W Shipp DATE 3-20-79	19 B&WCC W J Quest 5-18-79
B&W FPE D. E. Knuth DATE 3-20-79	
OTHER L. E. Hutchison DATE 3/21/79	ACTION COMPLETED
OTHER ____ DATE ____	20 BY J Rheinhardt DATE 5-18-79

18

TO BE COMPLETED BY FIELD QC

REWORK INSPECTION ☒ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE ☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE

21 BY J Rheinhardt DATE 5-18-79 REPORT OF NONCONFORMITY ____

NON CONFORMITY CLOSED

22 B&W QC SUPV. R W Shipp DATE 5-15-79

TO BE COMPLETED BY F.P. MANAGER

CORRECTIVE ACTION DESCRIPTION

270 245

FIELD PROJECT MANAGER

23

ANI

ANI ACCEPTANCE ____ DATE ____

24

SEQUENTIAL NUMBER № 192

0

AN
RT OF NONCONFORMITY

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

TO BE COMPLETED BY FIELD QC

SYSTEM OR PART NAME	JOB NO.	DATE
1 Core Flood System, Unit #1	2 CL-238	3 3/19/79

DRAWING VIOLATED & REV.	VENDOR NAME	REJECT TAG NOS.
4 N/A	5 ITT Grinnell	6 173

PROC/SPEC. VIOLATED	P.O. NO.	PART NO.	SYSTEM DESIGNATION
7 9-QPP-108	8 M 104A	91-CFA-020-610-01-01	10 Core Flood Line 020

CORRECTIVE ACTION REQUIRED	REPORTED BY
11 ☐ Y. ☒ NO	12 J. Rheinhardt J Rheinhardt

CONDITION DETAILS

No documentation is available from vault in the form of a data pack at the time of receipt of spool.
Reference Receipt Inspection Report #351 of FCP #7.

13

CONDITION DETAILS VERIFIED BY	DISPOSITION REQUESTED FROM
14 B&W QC SUPV. R W Shipe DATE 3-19-79	15 ☒ B&W CONSTRUCTION ☐ BY R W Shipe DATE 3-19-79

TO BE COMPLETED BY F.P. ENGINEERING

REPORTABILITY PER 10 CFR 50.55 (E)

16 ☐ REPORTABLE ☒ NON-REPORTABLE BY G E Kinsella DATE 3-17-79

DISPOSITION INSTRUCTIONS — ACTION

☒ ACCEPT AS IS ☐ SCRAP ☐ REWORK ☐ RETURN TO VENDOR

When the data package is received and accepted by Bechtel, B&W Q.C. will review.

17

DISPOSITION APPROVED BY	DISPOSITION DETAILS BY
B&W QC SUPV. R W Shipe DATE 3-20-79 B&W FPE [illegible] DATE 3-20-79 OTHER [illegible] DATE 3/27/79 OTHER ____ DATE ____	19 B&WCC
18	ACTION COMPLETED 20 BY J Rheinhardt DATE 5-9-79

TO BE COMPLETED BY FIELD QC

REWORK INSPECTION ☒ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE ☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE

21 BY J Rheinhardt DATE 5-9-79 REPORT OF NONCONFORMITY ____

NON CONFORMITY CLOSED
22 B&W QC SUPV. R W Shipe DATE 5-9-79

TO BE COMPLETED BY F.P. MANAGER

CORRECTIVE ACTION DESCRIPTION

270 246

FIELD PROJECT MANAGER

23

ANI

ANI ACCEPTANCE [illegible] DATE [illegible]
24

SEQUENTIAL NUMBER 179

0

FORM 21812

REPORT OF NONCONFORMITY

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

TO BE COMPLETED BY FIELD QC

1 SYSTEM OR PART NAME	2 JOB NO.	3 DATE
Feedwater System, Unit #1	CL-238	3/29/79

4 DRAWING VIOLATED & REV.	5 VENDOR NAME	6 REJECT TAG NOS.
N/A	Babcock & Wilcox	180,181,182,183

7 PROC. SPEC. VIOLATED	8 P.O. NO.	9 PART NO.	10 SYSTEM DESIGNATION
9-OPP-108	M1.6 (620-0013)	Mk. 120,121,122,123	Feedwater Headers

11 CORRECTIVE ACTION REQUIRED ☐ YES ☒ NO

12 REPORTED BY J. Rheinhardt

13 CONDITION DETAILS

Material is being received with no documentation available from the Bechtel vault in the form of a data package.

14 CONDITION DETAILS VERIFIED BY B&W QC SUPV. R W Hope DATE 3-29-79

15 DISPOSITION REQUESTED FROM ☒ B&W CONSTRUCTION ☐ BY R W Hope DATE 3 29 79

TO BE COMPLETED BY F.P. ENGINEERING

16 REPORTABILITY PER 10 CFR 50.55 (E) ☐ REPORTABLE ☒ NON-REPORTABLE BY D. S. Fiedler DATE 3-29-79

17 DISPOSITION INSTRUCTIONS

ACTION ☒ ACCEPT AS IS ☐ SCRAP ☐ REWORK ☐ RETURN TO VENDOR

Quality Control to review data package when received and accepted by Bechtel.

18 DISPOSITION APPROVED BY
B&W QC SUPV. R W Hope DATE 3-29-79
B&W FPE D. S. Fiedler DATE 3-29-79
OTHER S E Whitehurst DATE 3/29/79
OTHER ____ DATE ____

19 DISPOSITION DETAILS BY B&WCC D Dust 5-18-79

20 ACTION COMPLETED BY J Rheinhardt DATE 5-18-79

TO BE COMPLETED BY FIELD QC

21 REWORK INSPECTION ☒ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE ☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE
BY J Rheinhardt DATE 5-18-79 REPORT OF NONCONFORMITY ____

22 NON CONFORMITY CLOSED B&W QC SUPV. R W Hope DATE 5-15-79

TO BE COMPLETED BY F.P. MANAGER

23 CORRECTIVE ACTION DESCRIPTION

270 247

FIELD PROJECT MANAGER

ANI

24 ANI ACCEPTANCE Richard Ewolt DATE 4-10-79

SEQUENTIAL NUMBER № 495

0

REPORT OF NONCONFORMITY

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

TO BE COMPLETED BY FIELD QC

1 SYSTEM OR PART NAME	2 JOB NO.	3 DATE
Spool Assembly	CL-238	4/5/79

4 DRAWING VIOLATED & REV.	5 VENDOR NAME	6 REJECT TAG NOS.
M-610, Sht. 1	ITT Grinnell	189

7 PROC. SPEC. VIOLATED	8 P.O. NO.	9 PART NO.	10 SYSTEM DESIGNATION
FCP #12	M 104A	91-CCA-021-610-1-4	Core Flood

11 CORRECTIVE ACTION REQUIRED ☐ YES ☒ NO

12 REPORTED BY R. D. Brown / R. D. Brown

13 CONDITION DETAILS

Two (2) damaged areas on weld prep land;

1. 1 3/8" long, crushed flat 3/32" deep with upset metal on the I.D. of spool.
2. 1/8" long, 1/32" deep cavity.

Damage apparently happened during storage or transit, end covers were in place.

14 CONDITION DETAILS VERIFIED BY B&W QC SUPV. R W Thorpe DATE 4-5-79

15 DISPOSITION REQUESTED FROM ☒ B&W CONSTRUCTION ☐ BY R W Thorpe DATE 4-5-79

TO BE COMPLETED BY F.P. ENGINEERING

16 REPORTABILITY PER 10 CFR 50.55 (E) ☐ REPORTABLE ☒ NON-REPORTABLE BY R. L. Gamble DATE 4-5-79

17 DISPOSITION INSTRUCTIONS

ACTION ☐ ACCEPT AS IS ☐ SCRAP ☒ REWORK ☐ RETURN TO VENDOR

RE 5-1-79

Remove upset metal by grinding. 103
Inspect ground area per 9-PT-~~101~~. - PT Accept Report #4401 4-30-79 J.L. Jones
If necessary weld build up ground area per WIN-219-1. W.K. 5-1-79 #300304
Blend grind repair area to match adjacent surface.
Inspect weld prep, per Bechtel drawing M-473, Type 3. RE
5-10-79

18 DISPOSITION APPROVED BY

B&W QC SUPV. R W Thorpe DATE 4-30-79
B&W FPE R. L. Gamble DATE 4-30-79
OTHER R. E. Whitelaw DATE 4/30/79
OTHER _____ DATE _____

19 DISPOSITION DETAILS BY Rework Eng

ACTION COMPLETED

20 BY W C G DATE 4/30/79

TO BE COMPLETED BY FIELD QC

21 REWORK INSPECTION ☒ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE ☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE

BY James R. Jones DATE 5-1-79 REPORT OF NONCONFORMITY _____

22 NON CONFORMITY CLOSED B&W QC SUPV. R W Thorpe DATE 5-1-79

TO BE COMPLETED BY F.P. MANAGER

23 CORRECTIVE ACTION DESCRIPTION

270 248

FIELD PROJECT MANAGER

ANI

24 ANI ACCEPTANCE _____ DATE 4/30/79

SEQUENTIAL NUMBER № 198

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

REPORT OF NONCONFORMITY

1 SYSTEM OR PART NAME: Spool Assembly		2 JOB NO.: CL-238	3 DATE: 4/5/79
4 DRAWING VIOLATED & REV.: M-611, Sht. 1	5 VENDOR NAME: ITT Grinnell	6 REJECT TAG NOS.: 190	
7 PROC/SPEC. VIOLATED: 9-QPP-108	8 P.O. NO.: M 104A	9 PART NO.: 2-CCA-021-611-1-4	10 SYSTEM DESIGNATION: Core Flood
11 CORRECTIVE ACTION REQUIRED: ☐ YES ☒ NO		12 REPORTED BY: R. D. Brown / R. D. Brown	

TO BE COMPLETED BY FIELD QC

13 CONDITION DETAILS

Two damaged areas on weld prep land;

1. 2 1/2" long, land is bent in towards centerline of spool 1/8".
2. 1/2" long, land is bent in towards centerline of spool 3/32".

Damage apparently happened during storage or transit, end covers were in place.

14 CONDITION DETAILS VERIFIED BY B&W QC SUPV. R W Hoop DATE 4-5-79	15 DISPOSITION REQUESTED FROM ☒ B&W CONSTRUCTION ☐ BY R W Hoop DATE 4-5-79

TO BE COMPLETED BY F.P. ENGINEERING

16 REPORTABILITY PER 10 CFR 50.55 (E): ☐ REPORTABLE ☒ NON-REPORTABLE BY D. E. Hinkle DATE 4-5-79

17 DISPOSITION INSTRUCTIONS — ACTION: ☐ ACCEPT AS IS ☐ SCRAP ☒ REWORK ☐ RETURN TO VENDOR

Remove upset metal by grinding. - 5-25-79 Alan Reed
Inspect ground area per 9-PT-101. - PT Accept Report #3920 5-30-79 J. R. Jones
If necessary weld build up ground area per WIN-219-1. - N/A
Blend grind repair area to match adjacent surface. N/A
Inspect weld prep, per Bechtel drawing M-473, Type 3. UT - Accept 5-30-79 J R Jones
4-7-79

18 DISPOSITION APPROVED BY: B&W QC SUPV. R W Hoop DATE 4-5-79; B&W E/E R. D. Brown DATE 4-10-79; OTHER N/A DATE 4/20/79; OTHER ____ DATE ____	19 DISPOSITION DETAILS BY: B&W QC Eng
	ACTION COMPLETED BY James R. Jones DATE 5-30-79

TO BE COMPLETED BY FIELD QC

21 REWORK INSPECTION: ☒ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE ☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE
BY James R. Jones DATE 5-30-79 REPORT OF NONCONFORMITY ____

22 NON CONFORMITY CLOSED B&W QC SUPV. R W Hoop DATE 5-30-79

TO BE COMPLETED BY F.P. MANAGER

23 CORRECTIVE ACTION DESCRIPTION

270 249

FIELD PROJECT MANAGER

ANI

24 ANI ACCEPTANCE R. D. Brown (Coates) DATE 4/26/79

SEQUENTIAL NUMBER 210 100

0

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

REPORT OF NONCONFORMITY

1 SYSTEM OR PART NAME: Decay Heat System (Unit #2)		2 JOB NO.: CL-233	3 DATE: 4/10/79
4 DRAWING VIOLATED & REV.: M-473 (type 2)	5 VENDOR NAME: ITT Grinnell	6 REJECT TAG NOS.: 260	
7 PROC/SPEC. VIOLATED: FCP #13 Weld #6	8 P.O. NO.: M 104	PART NO.: 32-CCA-061-611-02-06	10 SYSTEM DESIGNATION: Line 018 & 061
11 CORRECTIVE ACTION REQUIRED: ☐ YES ☒ NO		12 REPORTED BY: J. Rheinhardt	

TO BE COMPLETED BY FIELD QC

13 CONDITION DETAILS

The extended land on weld prep for field weld #6 (ref. sketch FCP-13-1) was noticed to be damaged upon removal of protective end cover. The damaged area is approximately 1" long & 1/8" deep (appearing to tear the extended land away from the body of the spool, toward the O.D.).

14 CONDITION DETAILS VERIFIED BY: B&W QC SUPV. R W Hope DATE 4-10-79	15 DISPOSITION REQUESTED FROM: ☒ B&W CONSTRUCTION ☐ BY R W Hope DATE 4-10-79

TO BE COMPLETED BY F.P. ENGINEERING

15 REPORTABILITY PER 10 CFR 50.55 (E): ☐ REPORTABLE ☒ NON-REPORTABLE BY D. P. Knuble DATE 4-10-79

17 DISPOSITION INSTRUCTIONS — ACTION: ☐ ACCEPT AS IS ☐ SCRAP ☒ REWORK ☐ RETURN TO VENDOR

Remove upset metal by grinding. 5-11-79 A C Reid
Inspect ground area per 9-PT-101. PT Except Insert # 3543 R Braun 5-11-79
If necessary weld build up ground area per WIN-219-1. N.T.R. Required R Braun
Blend grind repair area to match adjacent surface.
Inspect weld prep, per Bechtel drawing M-473, Type 3. OK 5-16-79
OK PER M-473 R.O. Braun 5-16-79

18 DISPOSITION APPROVED BY: B&W QC SUPV. R W Hope DATE 5-11-79; B&W PE D. P. Knuble DATE 5-11-79; OTHER [illegible] DATE 5/20/79; OTHER ____ DATE ____	19 DISPOSITION DETAILS BY: B&W CC. D. J. Dewart
	ACTION COMPLETED 20 BY L. L. Brown DATE 5-17-79

TO BE COMPLETED BY FIELD QC

REWORK INSPECTION: ☒ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE ☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE

21 BY R.O. Brown DATE 5-17-79 REPORT OF NONCONFORMITY ____

NON CONFORMITY CLOSED
23 B&W QC SUPV. R W Hope DATE 5-17-79

TO BE COMPLETED BY F.P. MANAGER

CORRECTIVE ACTION DESCRIPTION

270 250

FIELD PROJECT MANAGER

23

ANI

ANI ACCEPTANCE [signature] DATE 4-28-79

24

500

SEQUENTIAL NUMBER

FORM 31812

REPORT OF NONCONFORMITY

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

TO BE COMPLETED BY FIELD QC

1 SYSTEM OR PART NAME: Spool Assy.		2 JOB NO.: CL-233	3 DATE: 4/11/79
4 DRAWING VIOLATED & REV.: M-611, Sht.2	5 VENDOR NAME: ITT Grinnell	6 REJECT TAG NOS.: 262	
7 PROC/SPEC. VIOLATED: FCP #13	8 P.O. NO.: M 104A	9 PART NO.: 2-CCA-018-611-2-5	10 SYSTEM DESIGNATION: Decay Heat Pipe ~~Core Flood~~ 4-23-79
11 CORRECTIVE ACTION REQUIRED: ☐ YES ☒ NO		12 REPORTED BY: R. D. Brown / R. L. Brown	

13 CONDITION DETAILS

Three damaged areas on weld prep land for weld #15.

1. 2-CCA-018-611-2-5 (located on compound piece)
   a. 7/32" long
   b. 1/16" bent in towards the I.D.
2. 2-CCA-018-611-2-5 (located on straight spool, two areas)
   a. 11/16" long
   b. 3/32" bent towards the I.D.
   a. 1/8" long
   b. 1/32" cavity in weld prep land.

14 CONDITION DETAILS VERIFIED BY B&W QC SUPV. RW Thorpe DATE 4-11-79	15 DISPOSITION REQUESTED FROM ☒ B&W CONSTRUCTION ☐ BY RW Thorpe DATE 4-11-79

TO BE COMPLETED BY F.P. ENGINEERING

16 REPORTABILITY PER 10 CFR 50.55 (E)
☐ REPORTABLE ☒ NON-REPORTABLE BY R. E. Swaile DATE 4-11-79

17 DISPOSITION INSTRUCTIONS

ACTION: ☐ ACCEPT AS IS ☐ SCRAP ☒ REWORK ☐ RETURN TO VENDOR

Remove upset metal by grinding. 4-23-79 AE Dunk
Inspect ground area per 9-PT-~~101~~.102 4-24-79
PT ACCEPT REPORT #4863 4-24-79
If necessary, weld build up ground area per WIN-219-1. N/A 5-11-79 acm
Blend grind repair area to match adjacent surface. N/A 5-11-79 acm
Inspect weld prep, per Bechtel drawing M-473, Type 3. 4-25-79
JR 5-14-79

18 DISPOSITION APPROVED BY: B&W QC SUPV. RW Thorpe DATE 4-12-79; B&W PPE [illegible] DATE 4-12-79; OTHER [illegible] DATE 4/20/79; OTHER ____ DATE ____	19 DISPOSITION DETAILS BY: B&W CC EE
	20 ACTION COMPLETED BY JRinehart DATE 5-14-79

TO BE COMPLETED BY FIELD QC

21 REWORK INSPECTION ☒ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE ☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE
BY JRinehart DATE 5-14-79 REPORT OF NONCONFORMITY ____

22 NON CONFORMITY CLOSED B&W QC SUPV. RW Thorpe DATE 5-14-79

TO BE COMPLETED BY F.P. MANAGER

23 CORRECTIVE ACTION DESCRIPTION

270 251

FIELD PROJECT MANAGER

A-91

24 ANI ACCEPTANCE [signature] DATE 4/14/79

SEQUENTIAL NUMBER № 501

B&W 31212

REPORT OF NONCONFORMITY

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

TO BE COMPLETED BY FIELD QC

1 SYSTEM OR PART NAME: Reactor Internal Handling		2 JOB NO.: CL-239	3 DATE: 4/7/79
4 DRAWING VIOLATED & REV.: N/A	5 VENDOR NAME: Babcock & Wilcox	6 REJECT TAG NOS.: 191	
7 PROC/SPEC. VIOLATED: 2-QPP-102	8 P.O. NO.: M 1.2	9 PART NO.: Mk.-#445B	10 SYSTEM DESIGNATION: Internal Indexing Fixture
11 CORRECTIVE ACTION REQUIRED: ☒ YES ☐ NO		12 REPORTED BY: J. Rheinhardt / J Rheinhardt	

13 CONDITION DETAILS

Internals Indexing Fixture (B&W Mk.-#445B) was removed from storage & placed in containment #1 without a Field Construction Procedure or therefore a Receipt Inspection Report.

14 CONDITION DETAILS VERIFIED BY B&W QC SUPV. R W Thorpe DATE 4-7-79	15 DISPOSITION REQUESTED FROM ☒ B&W CONSTRUCTION ☐ BY R W Thorpe DATE 4-7-79

TO BE COMPLETED BY F.P. ENGINEERING

16 REPORTABILITY PER 10 CFR 50.55 (e): ☐ REPORTABLE ☒ NON-REPORTABLE BY D. E. Lemke DATE 4-7-79

17 DISPOSITION INSTRUCTIONS — ACT ON: ☒ ACCEPT AS IS ☐ SCRAP ☐ REWORK ☐ RETURN TO VENDOR

Field Construction Procedure covering this work will be issued so that a record of the work activities can be recorded.

18 DISPOSITION APPROVED BY: B&W QC SUPV. R W Thorpe DATE 4-13-79; B&W EPE D. E. Lemke DATE 4-13-79; OTHER L A Kelly DATE 4-30-79; OTHER ____ DATE ____	DISPOSITION DETAILS BY 19 B&W QC DE
	20 ACTION COMPLETED BY J Rheinhardt DATE 5-8-79

TO BE COMPLETED BY FIELD QC

21 REWORK INSPECTION: ☒ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE ☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE — BY J Rheinhardt DATE 5-8-79 — REPORT OF NONCONFORMITY ____

22 NON CONFORMITY CLOSED — B&W QC SUPV. R W Thorpe DATE 5-8-79

TO BE COMPLETED BY F.P. MANAGER

23 CORRECTIVE ACTION DESCRIPTION

See attached letter to J. F. Newgen dated 4/12/79.

270 252

FIELD PROJECT MANAGER

ANI

24 ANI ACCEPTANCE ____ DATE 4/27/79

SEQUENTIAL NUMBER NO. 506

T OF NONCONFORMITY

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

ITEM OR PART NAME	JOB NO.	DATE
1 Core Flood Valve	2 CL-238	3 4/23/79

DRAWING VIOLATED & REV	VENDOR NAME	REJECT TAG NOS.
4 M-610, Sht.1 (Q)	5 Westinghouse	6 269

PROC/SPEC. VIOLATED	P.O. NO.	PART NO.	SYSTEM DESIGNATION
7 FCP #7 Unit #1	8 M-123A	9 1-CCA-21-410-053	10 Core Flood

CORRECTIVE ACTION REQUIRED
11 ☐ YES ☒ NO

REPORTED BY
12 J. R. Jones / J. R. Jones

TO BE COMPLETED BY FIELD QC

CONDITION DETAILS

Weld #9 weld prep, damaged. Area is 7/8" long x 1/8" wide x 1/8" deep.
Valve body S/N 2849, HT# 4715.

13

CONDITION DETAILS VERIFIED BY
14 B&W QC SUPV. R W Thorpe DATE 4-23-79

DISPOSITION REQUESTED FROM
☒ B&W CONSTRUCTION ☐
15 BY R W Thorpe DATE 4-23-79

TO BE COMPLETED BY F.P. ENGINEERING

REPORTABILITY PER 10 CFR 50.55 (E)
16 ☐ REPORTABLE ☒ NON-REPORTABLE BY R. E. Weiss DATE 4-23-79

DISPOSITION INSTRUCTIONS

ACTION
☐ ACCEPT AS IS ☐ SCRAP ☒ REWORK ☐ RETURN TO VENDOR

Remove upset metal by grinding.
Inspect ground area per 9-PT-103 – PT Accept Report #4902 5-1-79 J.R. Jones
If necessary weld build-up ground area per WIN-219-1.
Blend grind area to match adjacent surface.
Inspect weld prep per Bechtel drawing M-473, Type 3.

17

DISPOSITION APPROVED BY
B&W QC SUPV. R W Thorpe DATE 4-23-79
B&W FPE [illegible] DATE [illegible]
OTHER [illegible] DATE 4/25/79
OTHER [illegible] DATE [illegible]
18

DISPOSITION DETAILS BY
19 [illegible]

ACTION COMPLETED
20 BY [illegible] DATE 5/1/79

TO BE COMPLETED BY FIELD QC

REWORK INSPECTION ☒ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE ☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE
21 BY [illegible] DATE 5-2-79 REPORT OF NONCONFORMITY

NONCONFORMITY CLOSED
22 B&W QC SUPV. R W Thorpe DATE 5-2-79

TO BE COMPLETED BY F.P. MANAGER

CORRECTIVE ACTION DESCRIPTION

270 253

FIELD PROJECT MANAGER
23

ANI

ANI ACCEPTANCE [illegible] DATE 5/1/79
22

SEQUENTIAL NUMBER № 515

0

81312

PORT OF NONCONFORMITY

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

1 SYSTEM OR PART NAME	2 JOB NO.	3 DATE
26" Cold Leg	CL-338	4/26/79

4 DRAWING VIOLATED & REV.	5 VENDOR NAME	6 REJECT TAG NOS.
150178E	B&W MT. Vernon	256

7 PROC. SPEC. VIOLATED	8 P.O. NO.	9 PART NO.	10 SYSTEM DESIGNATION
FCP #24, Unit #2	N/A	A 57-2	Reactor Coolant

TO BE COMPLETED BY FIELD QC

11 CORRECTIVE ACTION REQUIRED ☒ YES ☐ NO

12 REPORTED BY J. R. Jones / R. Hope for J. Jones

13 CONDITION DETAILS

WJ 5-3 was welded with 309 stainless before NDE work was performed.
No MT of I.D. prior to back cladding & no UT for wall thichness
to establish minimum wall.

14 CONDITION DETAILS VERIFIED BY B&W QC SUPV. R W Hope DATE 4-26-79

15 DISPOSITION REQUESTED FROM ☒ B&W CONSTRUCTION ☐ BY R W Hope DATE 4-26-79

TO BE COMPLETED BY F.P. ENGINEERING

16 REPORTABILITY PER 10 CFR 50.55 (E) ☐ REPORTABLE ☒ NON-REPORTABLE BY G. E. Franke DATE 4-26-79

17 DISPOSITION INSTRUCTIONS

ACTION ☐ ACCEPT AS IS ☐ SCRAP ☒ REWORK ☐ RETURN TO VENDOR

Remove the stainless by grinding. 5/11/79 Ed Gallenger
Etch to confirm removal of all stainless per 9-NG-104. Accept Ray Crum 5-11-79
Return to FCP #24 sequence 130 and complete work. R. Crum 5-11-79

18 DISPOSITION APPROVED BY

B&W QC SUPV. R W Hope DATE 5-1-79
B&W FPE [illegible] DATE [illegible]
OTHER [illegible] DATE 5/2/79
OTHER _____ DATE _____

19 DISPOSITION DETAILS BY [illegible]

20 ACTION COMPLETED BY R Hope for J. Crum DATE 5-11-79

TO BE COMPLETED BY FIELD QC

21 REWORK INSPECTION ☒ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE ☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE

BY R Hope for J. Crum DATE 5-11-79 REPORT OF NONCONFORMITY _____

22 NON CONFORMITY CLOSED B&W QC SUPV. R W Hope DATE 5-10-79

TO BE COMPLETED BY F.P. MANAGER

23 CORRECTIVE ACTION DESCRIPTION

Have advised supervisory personnel to check FCP before proceeding to next step to make sure all inspections are complete & asked Q.C. to perform all NDT work as soon as possible and not to wait for R.T. results.

270 254

V. N. [illegible]
FIELD PROJECT MANAGER

ANI

24 ANI ACCEPTANCE [illegible] DATE 5/7/79

SEQUENTIAL NUMBER № 525

Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

PAGE 1 OF 2

6. PROJECT NAME:	7. NONCONFORMING PART NO:	8. NONCONFORMING PART NAME:	1. NCR SERIAL NO:
Midland 1 & 2	2AGC05 & 2NHL01	Cable Tray Separation	M-M-A-9-048
3. SERIAL NUMBER:	**10. QUAL. CONTROL ORG:**	**11. AREA/LOC. OF NC:**	**2. DATE:** 5-2-79
NA	Bechtel Construction & Quality Control	Lower Cable Spreading Room, El 653'	**3. DATE OF REV:** NA
			4. ITEM NO: 16.3.4, 16.3.6

12. "AS IS" NONCONFORMING CONDITION (DESCRIBE "AS REQUIRED" CONDITION WHEN DIFF):

Section 8.3.3.3.3.a in the FSAR states in part that, "The minimum separation distances for cable tray systems installed in the cable spreading areas shall be 1 foot horizontal and 3 feet vertical. Also, the minimum distance between enclosed raceway and between barriers and raceways is 1 inch".

Contrary to this FSAR requirement, cable trays 2AGC05 and 2NHL01 violate separation criteria by being a distance of 5/8 of an inch apart.

5. DISTRIBUTION

AGENCY COPY:

LADreisbach

DEPT COPY:

WLBarclay JFNewgen
WRBird RASimanek
RLCastleberry
TCCooke
JLCorley
RHermeston
DRJohnson
GSKeeley
BWMarguglio
JMilandin
DBMiller

13. QA RECOMMENDATION FOR PART OR:

Revise cable tray configuration (ie, enclose, install approved barrier, etc) in accordance with the FSAR separation requirements.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [X] NOT REQUIRED [ ]

14. HOLD TAGS APPLIED: YES [ ] NO [X] FINGER, LOCATION & DATE OF HOLD TAGS APPLIED: NA

15. IS PROCESS QA REQUIRED: YES [X] NO [ ] IF NO, ENTER JUSTIFICATION BELOW:

16. DOES NC AFFECT 9-POINT ITEM: YES [X] NO [ ]

17. IS NC REPORTABLE PER 10.55(e): YES [ ] NO [X]

18. IS NC REPORTABLE PER PART 21: YES [ ] NO [X]

19. IF YES, DATE & TIME OF REPORT TO NRC: NA

20. IF YES, NRC NCR REPORT TO NRC: NA

21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

22. NCR GENERATED BY: M.J. Schweser

23. ANALYSIS NOTIFY REQUIRED BY: 5-16-79
TO ESTABLISH QA DISPOSITION DATE

24. SUPERVISOR'S SIGNATURE/DATE: M.J. Schweser 5/2/79

25. PART QA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

26. ENGINEERING/PROJECT DISP. APPR. DESIG.:	27. QAD DISP. APPR. DESIG.:	28. PROCUREMENT DISP. APPR. DESIG.:	29. DISP. OF NON-CONF. ITEM OK:
NA	NA	NA	
30. FAB/CONST. DISP. APPR. DESIG.:	**31. DISP. OF NON-CONF. ITEM ACCEPTABLE:**	**32. FOR MAJOR NCR - PSC DISP. APPR. DESIG.:**	**33. QA CONC. RES. TO DISPOSITION:**
	NA	NA	

34. METHOD OF PART QA VERIFICATION:

270 255

35. DISP. OF NON-CONF. ITEM PER PART 21 & REPORTING REQUIRED:	36. DISP. VERIFIED PART QA & HOLD TAG REMOVAL DATE:	37. NCR CLOSED BY, DATE: (PART 4 PROCESS QA COMPLETE)

Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

6. PROJECT NAME:	7. NONCONFORMING PART NO:	8. NONCONFORMING PART NAME:	1. NCR SERIAL NO: 79-07-4-9-049
Midland 1 & 2	OB-45, OB-46	Motor Control Centers	2. DATE: 5-7-79
3. SERIAL NUMBER: NA	10. ORG. CONNECTING NO: Bechtel Quality Contro	11. AREA/LOC. OF NC: 685' Elevation	5. DATE OF DET: NA
			4. TYPE NO: 16.3.6

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS SPECIFIED" CONDITION (USE NOTE):

Maintenance information form F-10-206, paragraph 2.2 requires that periodic maintenance be accomplished every 90 days on Motor Control Centers.

Contrary to the above, there is no documentary evidence that this requirement has been accomplished since 11/22/78; a total of 166 days. This is the repeat of a condition identified before by AFR 1-46-8-02 which resulted in reorganization and training.

9. DISTRIBUTION

ACTION COPY:
LADreisbach

INFO COPY:

WLBarclay	DBMiller
WRBird	WGMoring
TCCooke	JFNewgen
JLCorley	RASimanek
RHermeston	DATaggart
SHHowell	
DRJohnson	
GSKeeley	
BWMarguglio	
PAMartinez	
DMilandin	

13. QA ASSIGNMENTS FOR PART QA:

Accomplish maintenance as soon as possible.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [X] NOT REQUIRED [ ]

14. HOLD TAGS APPLIED: YES [ ] NO [X] NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: NA

15. IS PROCESS QA REQUIRED: YES [X] NO [ ] IF NO, ENTER JUSTIFICATION BELOW:

16. DOES NC AFFECT S-LIST ITEM?: YES [X] NO [ ]	17. IS NC REPORTABLE PER 50.55(e)?: YES [ ] NO [X]
18. IS NC REPORTABLE PER PART 21?: YES [ ] NO [X]	19. IF YES, DATE & TIME OF REPORT TO NRC: NA
20. IF YES, WHO MADE REPORT TO NRC: NA	21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA
22. NCR COORDINATED BY: R. Nott	23. PROPOSED REPLY REQUIRED BY: 5-21-79 TO ESTABLISH QA COMPLETION DATE	24. SUPERVISOR'S SIGNATURE/DATE: Paul Lyons 5-8-79

25. PART QA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

26. DESIGN/PROJECT RES. ADMIN. DISP.:	27. PRO RES. ADMIN. DISP.: NA	28. PROCUREMENT RES. ADMIN. DISP.: NA	29. RES. OF NON-CONF. REQ. P.A. (Y/N): NA
30. FAB/CONSTR. RES. ADMIN. DISP. DISP.: NA	31. RES. IF TEST SHOWS ACCEPT. CONDITION: NA	32. PCR MAJOR MOD - PROC. DISPO. RES. ADMIN. DISP.: NA	33. QA ADMIN. RES. TO DOCUMENT DISP.:

34. RECORD OF PART QA JUSTIFICATION:

270 256

35. RES. IF REQ. DISP. FOR PART QA RESTORATION COMPLETION:	36. RES. VERIFIED PART QA & HOLD TAG REMOVAL DATE:	37. NCR CLOSED BY (S) DATE: (PART QA PROCESS QA COMPLETE)

Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION + QUALITY ASSURANCE DEPARTMENT

PAGE 1 OF 5

6. PROJECT NAME: Midland 1 & 2	7. IDENTIFICATION PART NO: Anchor #000, 010, 040	8. DESCRIPTIVE PART NAME: Reactor Bldg Spray System Hangers (Anchors)	1. NCR SERIAL NO: NP-M-79-050
9. SERIAL NUMBER: NA	10. QUAL. CONDITION NO: Bechtel Quality Control	11. AREA/DOC. OF NC: Containment #2 Elev 750'	2. DATE: 5-14-79
			3. DATE OF REV: NA
			4. CRITERIA NO: 16.3.4

12. AS BY NONCONFORMING CONDITION VERSUS AS REQUIRED CONDITION (USE DATA):

See Pages 3-5.

5. DISTRIBUTION ACTION COPY:

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INFO COPY:

WLBarclay	DBMiller
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TCCooke	JFNewgen
JLCorley	RASimanek
RHermeston	DATaggart
SHHowell	
DRJohnson	
GSKeeley	
BWMarguglio	
PAMartinez	
JMiandin	

13. QA RECOMMENDATION FOR PART QA:

See Page 5.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED: [X] YES [ ] NO

14. HOLD TAGS AFFIXED: YES [ ] NO [X] TAGGED, QA LOCATION & DATE OF HOLD TAGS AFFIXED: NA

15. DOES CA PROVIDE QA VERIFICATION: YES [X] NO [ ] IF NO, ENTER JUSTIFICATION BELOW:

16. DOES NC AFFECT 4-LEAK TEST: YES [X] NO [ ]

17. IS NC REPORTABLE PER 50.55(e): YES [ ] NO [X]

18. IS NC REPORTABLE PER PART 21: YES [ ] NO [X]

19. IF YES, DATE & TIME OF REPORT TO NRC: NA

20. IF YES, WHO MADE REPORT TO NRC: NA

21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

22. NCR GENERATED BY: [signature] B. V. Martin

23. WRITTEN REPLY REQUIRED BY: 5-28-79 TO ESTABLISH CA DISPOSITION DATE

24. SUPERVISOR'S SIGNATURE/DATE: DRKeating 5-14-79

25. CA DISPOSITION, VERIFICATION & COMPLETION DATE:

POOR ORIGINAL

26. DESIGN/PROJECT ENG. APPR. (REQ.):	27. PAD ENG. APPR. (REQ.):	28. PROJECT MGT. APPR. (REQ. FOR ...):	29. QUAL. ASSUR. DEPT. APPR. (REQ. FOR ...):
30. FAB/CONST. ENG. APPR. (REQ. FOR ...):	31. ENG. OF CERT MECH ACCEPT. ORGANIZATION:	32. DES MATLS REQ - PAD, PROJ. ENG. APPR. (REQ. FOR ...):	33. QA APPR. (REQ. TO CLOSE NCR):

34. VERIFICATION OF PART QA RECOMMENDATION:

270 257

35. ENG. OF REC. DISP. FOR PART QA DISPOSITION IMPLEMENTATION:	36. ENG. VERIFICATION PART QA & HOLD TAG REMOVAL (REQ.):	37. NCR CLOSED BY QA (PART & PROCESS QA COMPLETE):

NCR SERIAL NO: M-01-4-9-050
DATE: 5-14-79
DATE OF REV: NA
FILE NO: 16.3.4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(a) PQCI 7220/W-1.00 Rev 3 which was in effect at time of inspection states, "All full penetration groove welds (FPGW) and socket welds shall be identified individually in Block 6 of the QCI Inspection Record".

Contrary to the above, closed QCIR's #M326-225WR1, M326-227WR1, M326-228WR1, M326-229WR1, M326-232WR1, and open QCIR #M326-226WR1 do not identify the FPGW's individually as FW #115, 121, 111, 125, 126 and 118 respectively.

(b) Spec M326 Rev 1, paragraph 5.1 states, "To the greatest extent possible, pipe supports shall be installed in strict compliance with the pipe support design drawings".

PQCI/W-1.00, Activity number 3.0, "Final Inspection Activities" require the welds to be correctly identified.

Contrary to the above, a steel plate approximately 1/2" x 8" x 8" has been installed to a hanger/anchor support 010 which is marked as 6"-2GCB-16-H39. Drawings indicate this hanger should be marked as 6"-2GCB-14-H1 (FW 118). This hanger is located on north area wall to the right of hydrogen vent system at approximately 20° and identified with a FW #118.

(c) Spec M326 Rev 1, paragraph 4.1.5 states, "Attachments which are to be welded to pressure boundary components shall be installed in accordance with specification 7220-M-204 'Technical Specification for Field Fabrication and Installation of Piping for Nuclear Service'."

Spec M204 Rev 0, paragraph 5.1.3.b states, "Each weld shall be uniform in width and size throughout its full length".

Spec M204 Rev 0, paragraph 5.1.3.h states, "Fillet weld size shall be in accordance with the Nuclear Power Plant Components Code or as shown on the drawings".

Contrary to the above, hanger #6"-2GCB-16-H39 (2-613-1-6) has undercut greater than 1/32" which is unacceptable. Also, weld metal has been reduced to less than base metal on the 5" stanchion at fillet weld. The fillet welds for five of the six hangers vary in size from 3/16" to approximately 1/2" and have been accepted. The sixth hanger has not been inspected.

(d) Spec M204 Rev 5, paragraph 6.1.2.b states, "Nuclear Class 2 piping shall be examined in accordance with Nuclear Power Plant Components Code, Article NC-5000, which includes:

a. Accessible surfaces of completed fillet, socket and attachment welds, and the heat affected zone of the base metal adjacent to the weld, be examined by magnetic particle or liquid penetrant methods".

270 258

ASME Section III Article NF-5221 requires welds in primary members of plate and shell type supports shall be examined by the liquid penetrant method.

NCR SERIAL NO: M-01-4-9-050
DATE: 5-14-79
DATE OF REV: NA
FILE NO: 16.3.4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(d) (Contd)

ASME Section III Article NC-5255 requires all welds attaching nonpressure attachments to pressure parts shall be examined by the liquid penetrant method.

Contrary to the above, the fillet welds attaching the stanchion pipe to the embed plate on hangers 2GCB-12-H1, 2GCB-14-H1, 2GCB-13-H1, 2GCB-5-H1, 2GCB-15-H43 and 2GCB-16-H39 have not been examined by the liquid penetrant method.

(e) PQCI/W-1.00 Rev 3, Part 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:..." to include: verify drawings, review inspection criteria, etc. It further requires that specific in-process inspection activities shall be performed by the inspection method indicated and identified on the IR to verify that the in-process work is performed in accordance with the applicable inspection and reference criteria shown on the IR to include welding qualifications, material and equipment, fit-up, technique, etc.

Contrary to the above, Welding IR M326-226W does not have the prerequisites or in-process items signed off prior to requesting the NDE (PT Method) to be performed. Further, this hanger has a 1/2" x 8" x 8" plate installed that is not in accordance with the design drawings and, therfore, no weld inspection criteria is available.

(f) Mechanical QC Discipline requires a PQCI to be initiated and on file prior to each hanger/anchor installation.

Contrary to the above, 2GCB-12-H1 (2-613-1-7) anchor 000 does not have a Mechanical/Piping PQCI P-2.10.

(g) PQCI/W-1.00 and PQCI/P-2.10 require verification of applicable design drawings, specs, or vendor drawings are being used to ensure proper location and/or dimensions of referenced item installation.

Contrary to the above, drawing C-621(Q) has not been included in the IR reference criteria. Drawing C-621(Q) requires maximum location tolerance of support to pipe (both vertical and horizontal) location to include offset.

(h) Mechanical IR #P-2.10-613-1-1 and P-2.10-613-1-2 have final activities signed off but in-process activities for the same item are not signed off.

270 259

NCR SERIAL NO: N-01-4-9-050
DATE: 5-14-79
DATE OF REV: NA
FILE NO: 16.3.4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Contd)

Additionally, the following supports have offsets varying from approximately 15° to 40°.

4"-2GCB-12-H1	Sketch 2-613-1-7
6"-2GCB-14-H1	Sketch 2-613-1-4
6"-2GCB-13-H1	Sketch 2-613-1-5
4"-2GCB-5-H1	Sketch 2-613-13
6"-2GCB-16-H39	Sketch 2-613-1-6
6"-2GCB-15-H43	Sketch 2-613-1-3

This condition violates Spec M-326 Rev 1, paragraph 5.1 which states, "To the greatest extent possible, pipe supports shall be installed in strict compliance with the pipe support design drawing".

For additional information and further discrepancies, see Bechtel NCR #2177. (Copy attached.)

13. QA RECOMMENDATION FOR PART CA:

(a) Provide justification for noncompliance to Spec M204 Rev 1, see 4.1.5.

(b) Take corrective action as required to preclude and alleviate referenced deviations.

Reinspect all referenced support installations. Document all discrepancies found. If Project Engineering disposition is "Use-As-Is," provide assurance that the installed configuration will not affect current stress calculations. Determine why the supports were not installed according to design drawings. Take action to preclude recurrence.

270 260

Attachment to NCR M-01-4-9-05

S/A 2 OF A

NONCONFORMANCE REPORT

270 261

1. Project Name: 07220 MIDLAND	Job No.: 07220			19. NCR: 2117	20. Page: 1 of 2
2. Unit(s): CONT 2	3. Drawing/Part No.: SEE BLOCK 16	Rev	4. Item Description: SEE BLOCK 16		5. Item Location: CONT 2 - DOME
6. P.O. Or Spec No.: N/A	7. Serial No.: N/A	8. Replacement Part: PIN N/A REV ___ SER NO. ___	9. Source: CONST.	10. Contractor/Supplier: N/A	
11. Inspection Criteria: ☑ SWG ☑ SPEC ☐ OTHER	IR NO. PIN-613-1-1,2,3 NO. M326 REV 3 M209 REV 7	12. ASME AUTHORIZED INSPECTION REQ'D: ☐ YES ☑ NO	13. SKETCH ATTACHED: ☐ YES ☑ NO	14. Discovered During: ☐ DESIG ☑ CONST ☐ TEST	15. Equip Furnished By: ☐ CONT ☑ CTG ☐ FLD

16. Nonconforming Condition:

M326 REV 3 PARA 5.1.1 STATES IN PART: "TO THE GREATEST EXTENT POSSIBLE, PIPE SUPPORTS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE PIPE SUPPORT DESIGN DRWGS." ITEM 2 M209 REV 7 PARA 10.3 STATES IN PART: "MILL TEST REPORTS SHALL BE PROVIDED FOR ATTACHMENT MATERIALS THAT REQUIRE WELDING TO NUCLEAR OR CRITICAL PIPING. THE MATERIAL SHALL BE - cont pg 2

21. 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	Date	18. Validated By	Date
[signature]	5-11-79	[signature]	5-11-79

19. 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 ___ DATE ___

AUTHORIZED INSPECTOR ___ DATE ___

BLOCK 16 CONTINUED: CODED OR STAMPED WITH THE HEAT NUMBER SUCH THAT THE REPORT MAY BE SPECIFICALLY IDENTIFIED WITH THE MATERIAL. THE FOLLOWING INDETERMINATE ITEMS ARE NOTED BELOW:

6"-2CCB-16-H43 - SKETCH 2-613-1-3 REV 3 SUB 4/E1 - SHOWS NO OFFSET
① HANGER IS OFFSET ② HT # OF STANCHION HAS BEEN TRANSFERRED. THE NUMBER READS HT # M0367. THIS NUMBER IS NOT TRACEABLE TO A MILL TEST REPORT.

6"-2CCB-14-H1 - SKETCH 2-613-1-4 REV 3 SUB 4/E1 - SHOWS NO OFFSET - SHOWS ONLY 1 PLATE.
① HANGER IS OFFSET. ② HAS ADDED PLATE NOT SHOWN ON SKETCH. ③ ASSEMBLY IS IDENTIFIED ON PLATE AS 613-1-5 AND ADJACENT TO EN # AS 2CCB-16-H3 THESE NUMBERS ARE INCORRECT.

6"-2CCB-13-H1 [redacted]2-613-1-5 REV 3 SUB 4/E1 - SHOWS NO OFFSET
① [redacted]EL IS OFFSET.

6"-2CCB-16-H39 SK # 2-613-1-6 REV 3 SUB 4/E1 - SHOWS NO OFFSET
① HANGER IS OFFSET

4"-2CCB-12-H1 SK # 2-613-1-7 REV 1 SUB 2/E1 - SHOWS NO OFFSET
① HANGER IS OFFSET

4"-2CCB-5-H1 SK # 2-613-1-13 REV 1 SUB 2/E1 - SHOWS NO OFFSET
① HANGER IS OFFSET ② HT # ON STANCHION IS ILLEGIBLE

DRK 5-4-79

HOLD FOR ENG. DISPOSITION QA IS 4.131 6 HOLD TAGS APPLIED.

10093-2

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

QC-Q1-3

Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

6. PROJECT NAME:	7. NONCONFORMING PART NO:	8. NONCONFORMING PART NAME:	1. NCR SERIAL NO: M-01-7-9-052
Midland 1 & 2	NA	Structural Steel	2. DATE: 5-23-79
9. SERIAL NUMBER: NA	10. DEF. CONSTRUCTION NO: Bechtel Const - C Quality Control - A,B,C	11. ASSY/SUBASSY OF NO: Structural Steel Erection Unit #1 Elev 659'	3. DATE OF REV: NA
			4. FILE NO: 16.3.4, 16.3.6

12. AS IT' NONCONFORMING CONDITION VERSUS 'AS REQUIRED' CONDITION (USE NOTE):

The Note in the Special Instructions on PQCI/IR C-2.10 "Structural Steel Erection" states, "Reference criteria shall be reviewed daily and changes in a revision recorded on the IR. Evidence of this review shall be documented on the inspection assignment record".

A. Contrary to these requirements, the Inspection Assignment Record for PQCI C-2.10-C383-78 "Structural Steel Erection Unit #1 Elev 659' (Elev 640' to 659'):

(1) Did not indicate "inactive" in Column 6 while the PQCI/IR was in the "inactive" file.

(Contd on Page 3)

13. CA RECOMMENDATION FOR DART CA:

See Page 3.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [X] NOT REQUIRED [ ]

5. DISTRIBUTION

ACTION COPY:

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INFO COPY:

WLBarclay	DBMiller
WRBird	WGMoring
TCCooke	JFNewgen
JLCorley	RASimanek
RHermeston	DATaggart
SHHowell	
DRJohnson	
GSKeeley	
BWMarguglio	
PAMartinez	
JMilandin	

14. HOLD TAGS APPLIED: YES [X] NO [ ] NUMBER, LOCATION & DATE OF HOLD TAGS APPLIED: One (1) Bechtel Hold Tag applied to beam 715-B1A

15. IS PROCESS CA REQUIRED: YES [X] NO [ ] IF NO, ENTER JUSTIFICATION BELOW:

16. DOES TO AFFECT S-LIST ITEM: YES [X] NO [ ]

17. IS TO REPORTABLE PER 50.55(e): YES [ ] NO [X]

18. IS NC TECH. SPEC FOR PART 21: YES [ ] NO [X]

19. IF YES, DATE & TIME OF REPORT TO NRC: NA

20. IF YES, ASA VALE REPORT TO NRC: NA

21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

22. NCR ORIGINATED BY: Donald E. Horn

23. RESPONSE NEED REQUIRED BY: 6-8-79

TO ESTABLISH CA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: Donald E. Horn 5-23-79

25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

POOR ORIGINAL

26. DESIGN/PROJECT ENG. ACTUAL SIGN.:	27. QAD ENG. ACTUAL SIGN.:	28. PROCUREMENT ENG. ACTUAL SIGN.:	29. ENG. OF CONST. ACTUAL SIGN.:
		NA	
30. FAB/CONSTR. ENG. ACTUAL SIGN. DATE:	31. ENG. OF TEST GROUP ACTION, CONDITION:	32. QCE VALUE ENG. + PROJ. QUAL. ENG. ACTUAL SIGN.:	33. QA ACTUAL SIGN. OF COMPLIANCE SIGN.:
	NA	NA	

34. VERIFIED IF PART CA JUSTIFICATION:

270 263

35. ENG. IF ANY, NEED FOR PART CA REVISIONS INDICATED:	36. ENG. VERIFIED PART CA & HOLD TAG REMOVAL DATE:	37. NCR CLOSED BY DATE: (PART & PROCESS CA COMPLETE)

NCR SERIAL NO: M-01-4-9-C
DATE: 5-23-79
DATE OF REV: NA
FILE NO: 16.3.4, 16.3.6

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Contd from Page 1)

A. (2) Did not indicate the plan being used 10/16/78, 11/13/78 and 3/9/79 while QC performed torque testing of bolts on these days.

(3) Did not indicate the updating of drawing C-383 with FCR C-1673 (sent to QC 9/6/78), FCN C-27 (sent to QC 9/18/78), Revision 5 (sent to QC 11/7/78), and FCN C-50 (sent to QC 12/1/78).

B. Bolting Inspection Record 11-C-2 of 3 for PQCI/IR C-2.10-C383-78 did not indicate the number of bolts torque tested.

C. Section 2.2b of PQCI/IR C-2.10-C383-78 states in part, "A hardened washer shall be placed under the turned member (nut or bolt head) for all A325 connectors..." Contrary to this requirement at the connection of beams 715-B1A and 711-B4 one washer is missing.

13. QA RECOMMENDATION FOR PART CA:

The letters and recommended corrective action given below correspond to the nonconforming conditions listed in block 12.

A. (1) Implement the Note in the Special Instructions for the PQCI/IR C-2.10 plans.

A. (2) & (3) Compare the criteria used against the correct criteria and document this review and any conflicts. If there are any conflicts, re-inspect the work performed on 10/16/78, 11/13/78 and 3/9/79 and document the re-inspection. Review all open C-2.10 plans for similar problems and document the results/re-inspections in the same manner.

B. 1. Determine the number of bolts torque tested on this Bolting Inspection Record. If this cannot be determined, retest this connection and correct the documentation to read accordingly.

2. Review all open C-2.10 plans for similar problems with the Bolting Inspection Reports and document this review. If similar problems exist, implement B. 1. above.

C. 1. Re-inspect all completed connections scoped on this plan for similar problems and document the re-inspection.

2. Get Engineering disposition on the problem identified in this NCR and any found in the re-inspection.

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Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

PAGE 1 OF 2

6. PROJECT NAME:	7. NONCONFORMING PART NO:	8. NONCONFORMING PART NAME:	1. NCR SERIAL NO: M-QAL-249-0.3
Midland	Hanger Sketch 2-611-5-20, Rev 4	Pipe Hanger	2. DATE: 5/21/79
9. SERIAL NUMBER:	10. ORG. CONCERNED NC:	11. AREA/LOC. OF NC:	3. DATE OF NCR: N/A
18-2HCB-1-H12	ITT Grinnell Providence, RI	Unit 2 El 574'-11"	4. FILE NO: 16.3.1

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

Specification 7220-C-306(Q) Rev 4, for grouted anchor bolts in Appendix B specifies an allowable design load for 3/4 inch diameter bolts of 3.9 KIPS tension and 3.6 KIPS shear.

Contrary to these requirements, ITT Grinnell calculations dated 9/24/75 show loads of 5687.2 pounds/bolt tension and 1118 pounds/bolt shear. Calculations and hanger sketch specify 3/4 inch bolts. Bolts are undersize to specification.

5. DISTRIBUTION

ACTION COPY:
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TCCooke DATaggart
JLCorley
SHHowell
GSKeeley
BWMarguglio
PAMartinez
JMPlandin
DE Miller
L Ming

13. QA RECOMMENDATION FOR PART QA:

Redesign and repair hanger.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [X] NOT REQUIRED [ ]

14. HOLD TAGS APPLIED: YES [Y] NO [ ] HOLDER, LOCATION & TYPE OF HOLD TAGS APPLIED: One Hold Tag applied to hanger.

15. IS PROCESS QA REQUIRED: YES [X] NO [ ] IF NO, ENTER JUSTIFICATION BELOW:

16. DOES NC AFFECT Q-LIST ITEM: YES [X] NO [ ]	17. IS NC REPORTABLE PER 50.55(e): YES [ ] NO [X]
18. IS NC REPORTABLE PER PART 21: YES [ ] NO [X]	19. IF YES, DATE & TIME OF REPORT TO N.C.:
20. IF YES, WHO MADE REPORT TO ORC:	21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED:

22. NCR INITIATED BY: R.L. Scalthorn 5/21/79	23. WRITTEN REPT. REQUIRED BY: 6/8/79 TO ESTABLISH QA COMPLETION DATE	24. SUPERVISOR'S SIGNATURE/DATE: W.N. Bird 5/22/79

25. PART QA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

26. DESIGN/PROJECT SIG. AUTH. DISP.:	27. PMO SIG. AUTH. DISP.:	28. PROCUREMENT SIG. CONC. DISP.: N/A	29. SIG. OF ORG. RESP. FOR Q/A:
30. PAR/CONST. SIG. AUTH. DEP. DISP.: N/A	31. SIG. OF NRC GROUP ACTION CONDITION: N/A	32. FOR MAJOR MOD - PLT. SUPT. SIG. AUTH. DISP.: N/A	33. QA AUTH. SIG. TO DOCUMENT DISP.:

34. METHOD OF PART QA VERIFICATION:

270 265

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 QA COMPLETE)

Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

6. PROJECT NAME:	7. NONCONFORMING PART NO:	8. NONCONFORMING PART NAME:	1. NCR SERIAL NO:
Midland	2P-051-A 2P-051-B	Reactor Coolant Pump Motor	M-03-5-9-054
9. SERIAL NUMBER:	**10. SUBC. CONTRACTOR NO:**	**11. AREA/LOC. OF NC:**	**2. DATE:**
838,561 384562	B&W Construction	Reactor Bldg Unit 2 Elev 685'	5-22-79
			3. DATE OF REV: NA
			4. TYPE NO: 16.4.4

12. "AS IS" NONCONFORMING CONDITION (ATTACH "AS REQUIRED" CONDITION WHERE NEEDED):

Observed modification activities 5/17/79 on reactor coolant pump motors. Preservative lube oil Mobil DTE Heavy medium and DTE Lite has been installed in the upper and lower bearing reservoirs.

Contrary to the above, B&W FCP-58 dated 1/25/79 step 030 states, "Use Shell Ensis 10W and Gulf Oil Coat TD".

5. DISTRIBUTION

ACTION COPY:
RWShope

DCVD COPY:
VNAsgaonkar, WRBird, TCCooke, JLCorley, AWDePatie, RHermeston, SHHowell, GSKeeley, JWLillywhite, BWMarguglio, PAMartinez, DBMiller, JFNewgen, DATaggart, CDThompson

13. QA RECOMMENDATION FOR PART 21:

Insure FCP for above work reflects approved changes to material and work requirements.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [ ] NOT REQUIRED [X]

14. HOLD TAGS APPLIED: YES [ ] NO [X] NUMBER, LOCATION & DATE OF HOLD TAGS APPLIED: NA

15. IS PROCESS QA REQUIRED: YES [X] NO [ ] IF NO, ENTER JUSTIFICATION BELOW:

16. DOES NC AFFECT R-LIST ITEM: YES [ ] NO [X]

17. IS NC REPORTABLE PER 50.55(e): YES [ ] NO [X]

18. IS NC REPORTABLE PER PART 21: YES [ ] NO [X]

19. IF YES, DATE & TIME OF REPORT TO NRC: NA

20. IF YES, AND MADE REPORT TO NRC: NA

21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

22. NCR ORIGINATED BY: Harold L. Allen

23. WRITTEN REPLY REQUIRED BY: 6-4-79

TO ESTABLISH QA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: DFKusterer 5-22-79

25. PART QA DISPOSITION, VERIFICATION & COMPLETION DATE:

26. PROJECT PROJECT RESP. ACTN. DISP.:	27. PRO RESP. ACTN. DISP.:	28. PROCUREMENT RESP. ACTN. DISP.:	29. RESP. OF ORIG. ACTN. FOR N.A.:
30. FAB/CONST. RESP. ACTN. DISP. VERF.:	31. RESP. OF THIRD GROUP ACTION, CONSTRUCT:	32. PRE WELDS AND - POST. ACTN. RESP. ACTN. DISP.:	33. QA ACTN. RESP. TO DISPOSIT DISP.:

34. METHOD OF PART QA VERIFICATION:

270 206

35. RESP. OF ORIG. RESP. FOR PART QA RESULTS TO COMPLETION:	36. RESP. VERIFYING PART QA & HOLD TAG REMOVAL DATE:	37. NCR CLOSED BY: (PART & PROCESS QA COMPLETE)

Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

PAGE 1 OF 2

6. PROJECT CODE:	7. NONCONFORMING PART NO:	8. NONCONFORMING PART NAME:	1. NCR SERIAL NO:
Midland	2P-051-A 2P-051-B	Reactor Coolant Pump Motor	M-01-5-6-055
			2. DATE: 5-22-79
9. HEATING NUMBER: 8384561 8384562	10. ORG. CONTRACTING NO: Bechtel Construction	11. AREA/LOC. OF NC: Reactor Bldg Unit 2 Elev 685'	3. DATE OF REV: NA
			4. FILE NO: 16.3.4

12. "AS IS" NONCONFORMANCE CONDITION (USUAL "AS REQUIRED" CONDITION MUST NOTE):

Reviewed Bechtel Maintenance activities 5/17/79 on reactor coolant pump motors. Preservative lube oil Mobil DTE Heavy medium and DTE Lite has been installed in the upper and lower bearing reservoirs.

Contrary to the above, F-1-261 dated 4/25/79, paragraph 1.5 states "Fill upper and lower reservoirs to normal levels using Shell Ensis 10W or Gulf Oil Coat TD".

5. DISTRIBUTION

ACTION COPY:
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INFO COPY:
WLBarclay, WRBird, TCCooke, JLCorley, RHermeston, SHHowell, DRJohnson, GSKeeley, BWMarguglio, PAMartinez, JMilandin, DBMiller, WGMoring, JFNewgen, RASimanek, DATaggart

13. CA RECOMMENDATION FOR PART DISP:

Update F-1 and F-10 on pump motors to reflect CPCo lubrication specification program.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [ ] NOT REQUIRED [X]

14. HOLD TAGS APPLIED: YES [ ] NO [X] NUMBER, LOCATION & DATE OF HOLD TAGS APPLIED: NA

15. IS PROCESS CA REQUIRED: YES [X] NO [ ] IF NO, ENTER JUSTIFICATION BELOW:

16. DOES NC AFFECT A-LIST ITEM: YES [ ] NO [X]

17. IS NC REPORTABLE PER 50.55(e): YES [ ] NO [X]

18. IS NC REPORTABLE PER PART 21: YES [ ] NO [X]

19. IF YES, DATE & TIME OF REPORT TO NRC: NA

20. IF YES, WHO MADE REPORT TO NRC: NA

21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

22. NCR COORDINATED BY: Harold T. Allen

23. WRITTEN REPLY REQUIRED BY: 6-4-79

TO BE DISABLED CA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: DRKeeley 5-22-79

25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

26. DESIGN/PROJECT RESP. AUTH. DISP.:	27. IND RES. AUTH. DISP.:	28. PROCUREMENT RES. CONC. DISP.:	29. RES. OF CONC. DISP. FOR QA:
30. FAB/CONST. RES. AUTH. DEP. DISP.:	31. RES. OF TEST GROUP ACCEPT. CONDITION:	32. PER MATLS MGT - MAT. SUPT. RES. AUTH. DISP.:	33. QA AUTH. RES. TO DISPOSITION DISP.:

34. VERIFIED BY PART CA REALIZATION:

270 267

35. RES. IF RES. DISP. FOR PART CA DISPOSITION: COMPLETION:	36. RES. VERIFICATION PART CA & HOLD TAG REMOVAL DATE:	37. NCR CLOSED BY: DATE: (PART A PROCESS CA COMPLETE)

0

Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

PAGE 1 OF 2

6. PROJECT NAME:	7. NONCONFORMING PART NO:	8. NONCONFORMING PART NAME:	1. NCR SERIAL NO:
Midland	Item No's 2.6, 2.8 PO 7220-M-168-AC	Valve 48"	M-01-9-9-056
9. SERIAL NUMBER:	**10. ORG. CONNECTING NO:**	**11. AREA/LOC. OF NC:**	**2. DATE:** 5-22-79
NA	Henry Pratt Company Bechtel Procurement	NA	**3. DATE OF REV:** NA
			4. ITEM NO: 16.3.2

12. "AS IS" NONCONFORMING CONDITION (WHERE "AS REQUIRED" CONDITION WERE NOTED):

The radiographic film of items 2.6 and 2.8 do not conform to the following paragraphs of Conam Inspection Procedure 62-RT-001 Rev "B" Discrepancies Identified through Vendor Film Review.

1. Film imprint does not relate to report as required by paragraph 5.1.1.1. - film imprint No is 120576E report No is 1205576E.
2. The quality level of radiography in the area of interest is not 2% on all film as required by paragraph 7.1.
3. The density of the area of interest on sixteen of twenty films reviewed does not meet the requirements of paragraph 9.3.
4. A lead "marker" is in the area of interest on all films contrary to paragraph 9.4.

13. "AS RECOMMENDED" FOR PART DA:

1. Provide acceptable radiographs of items 2.6 and 2.8.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED ☐ NOT REQUIRED ☒

5. DISTRIBUTION

ACTION COPY:
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WRBird
TCCooke
DRJohnson
GSKeeley
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JMilandin
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DATaggart
RASimanek
SHHowell

14. HOLD TAGS APPLIED: YES ☐ NO ☒ NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: NA

15. IS PROCESS CA REQUIRED: YES ☒ NO ☐ IF NO, ENTER JUSTIFICATION BELOW:

16. DOES NC AFFECT A-LIST ITEM: YES ☒ NO ☐

17. IS NC REPORTABLE PER 50.55(e): YES ☐ NO ☒

18. IS NC REPORTABLE PER PART 21: YES ☐ NO ☒

19. IF YES, DATE & TIME OF REPORT TO NRC: NA

20. IF YES, WHO MADE REPORT TO NRC: NA

21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

22. NCR GENERATED BY: R.J. Lafferty

23. RESPONSE NEEDLE REQUIRED BY: 6-5-79
TO ESTABLISH CA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: DKKeating 5-22-79

25. PART CA DISPOSITION, VERIFICATION & COMPLETION DATE:

26. DESIGN/PROJECT ENG. AUTH. DISP.:	27. PMO DISP. AUTH. DISP.:	28. PROCUREMENT DISP. AUTH. DISP.:	29. DISP. OF DISC. ASSY. FOR USE:
30. FAB/CONST. DISP. AUTH. DEP. DISP.:	31. DISP. OF TEST GROUP ASSEMBLY, CONSTRUCTION:	32. FOR VALVE NCR - PROC. ENGR. DISP. AUTH. DISP.:	33. QA AUTH. DISP. TO RELEASE DISP.:

34. METHOD OF PART CA VERIFICATION:

270 268

35. DISP. OF DISC. ASSY. FOR PART CA DISPOSITION COMPLETION:	36. DISP. VERIFYING PART CA & HOLD TAG REMOVAL DATE:	37. NCR CLOSED BY (DATE) (PART A PROCESS CA COMPLETE)

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Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

PAGE 1 OF 4

6. PROJECT NAME:	7. NONCONFORMING PART NO:	8. NONCONFORMING PART NAME:	1. NCR SERIAL NO: M-01-4-9-057
Midland 1 & 2	See Block 12	HVAC Hangers/Supports	2. DATE: 5-23-79
9. SERIAL NUMBER: NA	10. VEND, CONSTRUCTION NO: Subcontractor Zack Co	11. AREA/BLDG. OF NO: See Block 12	3. DATE OF TEST: NA
			4. ITEM NO: 16.3.4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION (WHAT WENT WRONG):

Spec M151A(Q) Rev 5, paragraph 14.8.1 states, "Each weld shall be uniform in width and size throughout its full length. In addition, the cover pass (final weld layer) shall be free of coarse ripples, grooves, overlaps, abrupt ridges and valleys". Paragraph 14.8.4 states, "Each weld layer or pass shall be visually free of slag, inclusions, cracks, porosity and lack of fusion". Paragraph 1.2.3 requires that fabrication procedures and erected assemblies are in accordance with Specifications (M151A(Q)). Paragraph 1.2.1 states, "It shall be the Subcontractors responsibility to furnish and install the ductwork and accessories in accordance with these specifications,..." (Contd on Page 3)

5. DISTRIBUTION

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INFO COPY:

WLBarclay	JMilandin
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JLCorley	JFNewgen
RHermeston	RASimanek
SHHowell	DATaggart
DRJohnson	
GSKeeley	
BWMarguglio	
PAMartinez	

13. CA RECOMMENDATION FOR PART OR:

See Pages 3 and 4.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [X] NOT REQUIRED [ ]

14. WELD DATA APPLIED: YES [ ] NO [X] TRACER, LOCATION & TYPE OF WELD DATA APPLIED: NA

15. IS PROCESS CA REQUIRED: YES [X] NO [ ] IF NO, ENTER JUSTIFICATION BELOW:

16. DOES NC AFFECT 4-DIGIT ITEM: YES [X] NO [ ]

17. IS NC REPORTABLE PER 50.55(e): YES [ ] NO [X]

18. IS NC REPORTABLE PER PART 21: YES [ ] NO [X]

19. IF YES, DATE & TYPE OF REPORT TO NRC: NA

20. IF YES, WAS PAGE REVISED TO NRC: NA

21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

22. NCR ORIGINATOR BY:

23. WRITTEN REPLY REQUIRED BY: 6-6-79

TO ESTABLISH CA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: JKKeating 5-23-79

25. FINAL CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

26. DESIGN/PROJECT ENG. ACTIVITY:	27. QAD ENG. ACTIVITY:	28. PROCUREMENT ENG. ACTIVITY:	29. ENG. OF CONST. MGMT. PER QA ACT:
30. FAB/CONST. ENG. ACTIVITY:	31. ENG. OF TEST GROUP ACTION, CONDITION:	32. QCE MATER MGR - FIELD ENGR. ENG. ACTIVITY:	33. QA ACTIVITY TO DISPOSITION:

34. VERIFIED BY QA/CA VERIFICATION:

270 269

35. ENG. OF ORIG. DESIG. FOR PART DISPOSITION/MODIFICATION:	36. ENG. VERIFIED PART O/A & WELD DATA REMOVAL DATE:	37. NCR CLOSED BY: (QA/CA & PROJECT CA COMPLETE)

NCR SERIAL NO: M-01-4-9-057
DATE: 5-23-79
DATE OF REV: NA
FILE NO: 16.3.4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Contd from Page 1)

Contrary to the above, the following hangers are nonconforming as listed:

a) Elev 569'

1) V19 #11 - Dwg C898 - F942 Tack weld not removed at top. Slag not removed prior to final inspection by subcontracts QC inspector. Arc strikes 1½" long in near vicinity.

2) V1 #3 - C886 - F916 - Porosity (Pin Holes) in face of weld. Lack of fusion on angle iron weld.

3) V19 #13 - C898 #7 - F944 - Porosity in end stop and center of weld. Hole in side of weld to base metal of angle. Backside area has lack of fusion to floor beam. Weld not uniform in width and size.

b) Elev 659'

1) Sh 3/#129 (7-6901) - F627 - South side of hanger has undercut greater than 1/32".

c) Elev 674' (8' So of H Line - 3' W of 6.6)

1) V26 - Sh 1 #41 - C901 #6 - F3490, F3491, F3496, F3497, F3498 - Tacks and welds have been painted over without QC inspection.

2) V26 - Sh 2 #33 (#7 C878) - F3681, F3682, F3683, F3684 - Angle and tube steel welds have porosity on face of weld. Slag not cleaned off prior to inspection. F3682 has undercut. F3683 has undercut and painted over slag. All hangers have one weld underneath that has not been inspected nor painted to protect from rust.

Additionally, many welds are rough, coarse and have large ripples and ridges.

Acceptance criteria of the Quality Control Procedures (QCP's) and Spec M151A(Q) are inconsistent and disagree in welding and inspection. The QCP's are less restrictive than Spec M151A(Q).

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13. QA RECOMMENDATION FOR PART CA:

1. Zack Co welding crafts perform rework/repair as necessary on listed hangers/supports to meet the criteria outlined in Spec M151A(Q).

2. Zack Co welding QC inspectors perform in-process inspections and final inspections to meet criteria of M151A(Q) as above described rework/repair.

(Contd on Page 4)

NCR SERIAL NO: M-01-4-9-057
DATE: 5-23-79
DATE OF REV: NA
FILE NO: 16.3.4

13. QA RECOMMENDATION FOR PART CA:

(Contd from Page 3)

3. Bechtel QC subcontracts inspector perform inspections (in-process and final) on above described rework/repair to assure strict compliance of Spec M151A(Q) for all hangers presently installed.

4. Re-inspect all accepted HVAC hanger welds to assure compliance with Spec M151A(Q).

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Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

PAGE 1 OF 3

6. PROJECT NAME:	7. DESIGNATED PART NO:	8. NONCONFORMING PART NAME:	1. NCR NUMBER: M-07-79-058
Midland	See Attachment	Pipe Spools	2. DATE: 5-25-79
9. SERIAL NUMBER: NA	10. SUB. DRAWING NO: ITT Grinnell Bechtel Procurement	11. NEW/USE. OF NC: NA	3. DATE OF INSP: NA
			4. FILE NO: 16.3.2

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION (TEXT DATA):

Radiography on welds fails to meet minimum requirements of ITT Grinnell Radiographic Procedure I-SF-1811-6 Rev 6 as stated in paragraphs listed below. See attached list for particular weld identification and nonconforming conditions.

(Contd on Page 3)

5. DISTRIBUTION
ACTION COPY:
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WLBarclay
WRBird
TCCooke
SHHowell
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DBMiller
DATaggart
RASimonek

13. QA RECOMMENDATION PER PART QA:
1. Procedural change to reflect code requirements.
2. Provide assurance that Dupont Cronex film type 55 is equivalent to Kodak "M".

(Contd on Page 3)

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [ ] NOT REQUIRED [X]

14. HOLD TAGS APPLIED: YES [ ] NO [X] REMOVED, LOCATION & TYPE OF HOLD TAGS APPLIED: NA

15. IS PROCESS QA REQUIRED: YES [ ] NO [ ] IF NO, ENTER JUSTIFICATION BELOW:

16. DOES NC AFFECT S-LIST ITEM: YES [X] NO [ ]

17. IS NC REPORTABLE PER 50.55(e): YES [ ] NO [X]

18. IS NC REPORTABLE PER PART 21: YES [ ] NO [X]

19. IF YES, DATE & TYPE OF REPORT TO NRC: NA

20. IF YES, WHO MADE REPORT TO NRC: NA

21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

22. NCR GENERATED BY: E.L. Stanek

23. WRITTEN NOTICE ISSUED BY: 6-8-79
TO ESTABLISH QA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: D.R. Kantor 5-25-79

25. PART QA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

26. DESIGN/PROJECT ENG. AUTH. DISP.:	27. PAD SUB. AUTH. DISP.:	28. PROCUREMENT SUB. QUAL. DISP.:	29. NAME OF QUAL. CONT. FOR QA:
30. PAD/CONST. SUB. AUTH. DEP. DISP.:	31. SUB. OF TEST GROUP ACTION, JUSTIFICATION:	32. FOR FAILED MOD - PAD, PROC. SUB. AUTH. DISP.:	33. QA AUTH. SUB. TO DOCUMENT DISP.:

34. REMARKS OR PART QA VALIDATION:

210 212

35. SUB. OF DISP. REQ. FOR PART QA RECERTIFICATION:	36. SUB. RECERTIFIED PART QA & HOLD TAG REMOVAL DATE:	37. NCR CLOSED BY/DATE: (PART A PROCESS QA COMPLETE)

NCR SERIAL NO: M-01-9-9-058
DATE: 5-25-79
DATE OF REV: NA
FILE NO: 16.3.2

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Contd from Page 1)

Items

1. Section VI paragraph 9 states, "All radiographs shall be free from mechanical, chemical or other blemishes to the extent that they cannot mask or be confused with the image of any discontinuity in the object being radiographed".

2. Section V paragraph 7 states in part, "Type 1 or 2 film in accordance with ASTM E94-82T shall be used. Acceptable brands and types are listed below, Kodak, Ansco, Gevaert. When required to show the 5, 7, or 10 penetrameter, Kodak Type M or equivalent shall be used".

3. Section VIII paragraph 19 states in part, "Technique for welds 3½ inches or less in diameter, (A.) Welds shall be radiographed by the elliptical technique (Fig 9) in which the radiation passes through two walls and both walls are viewed for acceptance. (C.) The penetrameter shall be placed on the outside surface of the pipe (source side) with the axis perpendicular to the length of the weld".

4. Section IX paragraph 26(C.) states, "When re-radiographing repair areas, a letter 'R' shall be affixed to the identification, in order to distinguish repair from original film".

Nonconforming Welds

Spool Piece #	Weld Ident	Item # (See Block 12)
2-HCC-17-S-617-4-1	A, B, C	3
1-FCB-42-S-610-4-3	A	1, 2
	B	2
2-ECC-3-S-602-3-2	A, F	4
	A, B, C, D, E, F	2
2-FCB-42-S-611-4-3	A, B	2
2-FCB-42-S-611-4-5	A, B	2
2-CCA-16-S-602-2-3	A, B, C, D	3

13. QA RECOMMENDATION FOR PART CA:

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(Contd from Page 1)

3. Re-radaiograph weld "A" Spool #1 FCB-42-S-610-4-3 to determine acceptability.

4. Identify repair radiographs as required by procedure.

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Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

PAGE 1 OF 3

6. PROJECT NAME:	7. NONCONFORMING PART NO:	8. NONCONFORMING PART NAME:	1. NCR SERIAL NO: NCR-QA-79-059
Midland 1 & 2	See Attached List	Class 1E and non-Class 1E Conduits	2. DATE: 5-25-79
9. SERIAL NUMBER: NA	10. ORG. CONNECTED WO: Bechtel Construction	11. AREA/LOC. OF NC: Aux Bldg and Cont Bldg #2	3. DATE OF REV: NA
			4. FILE NO: 16.3.4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION (USE TEXT):

Paragraph 4.6 of IEEE Standard 279-1971 states, "Channels that provide signals for the same protective function shall be independent and physically separated to accomplish decoupling of the effects of unsafe environmental factors, electric transients, and physical accident consequences documented in the design basis, and to reduce the likelihood of interactions between channels during maintenance operations or in the event of channel malfunction".

(Contd on Page 3)

5. DISTRIBUTION

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INFO COPY:

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TCCooke	JFNewgen
JLCorley	RASimanek
RHermeston	DATaggart
SHHowell	
DRJohnson	
GSKeeley	
BWMarguglio	
PAMartinez	
JMilonlin	

13. QA RECOMMENDATION FOR DISPOSITION:

Use separate supports for redundant Class 1E conduits.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [X] NOT REQUIRED [ ]

14. FIELD CAUSE VERIFIED: YES [ ] NO [X] NUMBER, LOCATION & TYPE OF FIELD CAUSE APPLIED: NA

15. IS PROCESS CA REQUIRED: YES [X] NO [ ] IF NO, ENTER JUSTIFICATION BELOW:

16. DOES IT AFFECT A-LIST ITEM: YES [X] NO [ ]

17. IS NC REPORTABLE PER 50.55(e): YES [ ] NO [X]

18. IS NC REPORTABLE PER PART 21: YES [ ] NO [X]

19. IF YES, DATE & TIME OF REPORT TO NRC: NA

20. IF YES, NRC HAS REPORT TO NRC: NA

21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

22. NCR CLASSIFIED BY: Edson M Jones

23. VERIFIED WITH REQUIRED BY: 6-8-79

TO ESTABLISH CA COMPLETION DATE

24. SUPERVISOR'S APPROVAL/DATE: Paul Kuzen 5-26-79

25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION [illegible]:

26. DESIGN/PROJECT ENG. AUTH. DISP.:	27. FLD ENG. AUTH. DISP.: NA	28. PROCUREMENT ENG. AUTH. DISP.: NA	29. ENG. IF REQ. CONC. FOR CA:
30. PAR/CONST. ENG. AUTH. DISP. DISP.:	31. ENG. IF TEST WAIVE ACCEPT. CONDITION: NA	32. FOR VALVES ONLY - P.E. AUTH. ENG. AUTH. DISP.: NA	33. QA AUTH. ENG. TO CONCURRENT DISP.:

34. METHOD OF PART CA VERIFICATION:

270 274

35. ENG. IF REQ. MAINT. FOR PART CA VERIFICATION:	36. ENG. [illegible] FOR PART CA & FIELD CAU REMOVAL DATE:	37. NCR CLOSED BY: DATE: PART & PROCESS CA COMPLETE:

NCR SERIAL NO: M-01-9-9-059
DATE: 5-25-79
DATE OF REV: NA
FILE NO: 16.3.4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Contd from Page 1)

Contrary to the above, the following conduits are located on the same supports as indicated.

Conduit Numbers

1BT002 1BT003 1NJA017 1NC108	Connected to the same support.
2AC091 2AC092 2EC024 2EC021	Connected to the same support.
2AC101 1BC069	Connected to the same support.
2EC009 2AC115 2AC100 2AC101	Connected to the same support.
1AC099 1BC064	Connected to the same support.
1BC065 1NIP004	Connected to the same support.
1AC085 1EC038	Connected to the same support.
1AJD025 1NC218	Connected to the same support.

The above condition was mentioned by an NRC inspector as a possible violation of 10CFR50 Appendix A.

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Start Up System: OB66-PHN 1B63-PHK
OB65-PHM 2B63-PHK
OB69-PHP

Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

PAGE 1 OF 3

6. PROJECT NAME:	7. IDENTIFICATION PART NO:	8. DESCRIPTIVE PART NAME:	1. NCR SERIAL NO:
Midland 1 & 2	OB65, OB66 OB69, 1B63, 2B63	Motor Control Centers	M-01-4-9-060
5. SERIAL NUMBER:	10. ORG. CONNECTION NO:	11. AREA/LOC. OF NC:	2. DATE: 6-1-79
NA	Bechtel QC	Service Water Building	3. DATE OF REV: NA
			4. FILE NO: 16.3.6

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH DATA:

Quality Control Instruction (QCI) W-1.00, Rev III states, "Either the Field Welding Engineer (FWE) or the Quality Control Engineer (QCE) shall make the "general information" entries on the Inspection Record (IR). If the FWE makes these entries, the QCE shall review the data provided for technical compliance, and certify by signature that the information provided is correct".

Contrary to the above, QCIR #C304-1136W listed GWS-FM Rev 4 to be used in lieu of GWS-Structural Rev 2 which was required.

(Contd on Page 3)

5. DISTRIBUTION

ACTION COPY:

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INFO COPY:

WLBarclay	JMilandin
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TCCooke	WGMoring
JLCorley	JFNewgen
RHermeston	RASimanek
SHHowell	DATaggart
DRJohnson	
GSKeeley	
BWMarguglio	
PAMartinez	

13. QA RECOMMENDATION FOR PART DA:

1. Assure hardware is not affected by referencing wrong welding procedure and reference criteria.
2. Review, correct, and update documentation as necessary in accordance with QCI W-1.00.

DESIGN/PRODUCT ENG. DISPOSITION REQUIRED: [ ] NOT REQUIRED: [X]

14. HOLD TAGS APPLIED: YES [ ] NO [X] LOCALE, LOCATION & DATE OF HOLD TAGS APPLIED: NA

15. IS PROCESS QA REQUIRED: YES [X] NO [ ] IF NO, ENTER JUSTIFICATION BELOW:

16. DOES NC AFFECT A-LIST ITEM: YES [X] NO [ ]

17. IS NC REPORTABLE PER 50.55(e): YES [ ] NO [X]

18. IS NC REPORTABLE PER PART 21: YES [ ] NO [X]

19. IF YES, DATE & TIME OF REPORT TO NRC: NA

20. IF YES, WHO MADE REPORT TO NRC: NA

21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

22. NCR ORIGINATED BY:

23. WRITTEN REPLY REQUIRED BY: 6-14-79

TO ESTABLISH QA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: DRKeating 6-1-79

25. PART QA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

26. DESIGN/PRODUCT REQ. AFFECT:	27. FSAR REQ. AFFECT:	28. PROCUREMENT REQ. AFFECT:	29. TECH. SPEC. AFFECT:
30. QA/QC REQ. AFFECT:	31. REQ. IF TEST TO BE PERFORMED:	32. PER FAILED TEST - REQ. DISP. REQ. AFFECT:	33. QA AFFECT TO EQUIPMENT:

34. METHOD OF PART QA VERIFICATION:

270 276

35. REQ. IF DISP. REQ. FOR PART QA VERIFICATION COMPLETION:	36. REQ. VERIFICATION PART QA & HOLD TAG REMOVAL DATE:	37. NCR CLOSED BY: (PART & PROCESS QA COMPLETE)

NCR SERIAL NO: M-01-4-9-060
DATE: 6-1-79
DATE OF REV: NA
FILE NO: 16.3.6

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Contd from Page 1)

QCI W-1.00 states, "When preparing the 'Engineering Spec No' and 'ISO or Dwg No' entries on the IR, the QCE shall enter the documents necessary to establish the acceptance criteria. These documents shall include: (1) the primary specification(s) and revision number(s) with all specification change notices and applicable FCR's, (2) Project Engineering approved drawings and revision number(s) with all DCN's and applicable field change requests".

Contrary to the above, the reference criteria sheet for QCIR #C304-1136W lists FCR's C1871, C1898 and C1920 as applicable. The list should read FCR C1896 instead of C1898.

QCI W-1.00 and Project Quality Control Instruction (PQCI) No 7220/W-1.00B Activity 2.1a requires the QCE to review the log of welder qualification records to verify that the assigned welder is qualified for the procedure being used, and that the records are complete, accurate and up-to-date.

Contrary to the above, SUN, M (welder symbol E118) test qualified on 4-12-79. QCIR #C304-1136W indicates the record was reviewed by welding QCE on 3-28-79.

X 126

Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

6. PROJECT NAME:	7. NONCONFORMING PART NO:	8. NONCONFORMING PART NAME:	1. NCR SERIAL NO:
Midland	NA	Misc. Metal Tank Embeds	M-01-2-8-091
9. DRAWING NUMBER:	**10. ORG. CONCERNED NO:**	**11. AREA/LOC. OF NC:**	**2. DATE:** 10-31-78
NA	Bechtel QC	NA	**3. DATE OF DISP:** Closed 5-25-79
			4. FIELD NO: 16.3.6

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS APPROVED" CONDITION (WITH REFS):

The Bechtel QC Notices Manual requires in PSP G-3.2 that the PFQCE review dispositioned NCR's do assure that the approved disposition is fully responsive to the conditions described in the NCR. Contrary to the above, the corrective action taken on the NCR described below was not fully responsive to the condition described in the NCR.

Bechtel NCR 1557 (copy attached) documented where angle embeds were field procured and fabricated per the non-Q section of specification C-233. The embeds were required to be Q. Bechtel Field Engineering recommended a "use-as-is" disposition based on satisfactory inspection of the welds by Field Engineering.

5. DISTRIBUTION

ACTION COPY:

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INFO COPY:

WLBarclay	WMoring
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TCCooke	RASimanek
JLCorley	DATaggart
RHermeston	
SHHowell	
GSKeeley	
BWMarguglio	
PAMartinez	
JMilandin	
DBMiller	

13. QA RECOMMENDATION FOR PART QA:

(Contd on Page 3)

1. Reopen NCR 1557, locate embeds and reapply hold tags.
2. Address the above listed inadequacies in the Bechtel corrective action relative to this item.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [X] NOT REQUIRED [ ]

14. HOLD TAGS APPLIED: YES [ ] NO [X] NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: NA

15. IS PROCESS QA REQUIRED: YES [ ] NO [X] IF NO, ENTER JUSTIFICATION BELOW:

Apparent cause is determined to be a misinterpretation of the disposition on this specific NCR. Process corrective action not considered necessary.

16. DOES NC AFFECT Q-LIST ITEM: YES [X] NO [ ]	17. IS NC REPORTABLE PER 50.55(e): YES [ ] NO [X]
18. IS NC REPORTABLE PER PART 21: YES [ ] NO [X]	19. IF YES, DATE & MODE OF REPORT TO NRC: NA
20. IF YES, WHO MADE REPORT TO NRC: NA	21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

22. NCR ORIGINATED BY:	23. WRITTEN REPLY REQUIRED BY: 11-15-78 TO ESTABLISH QA COMPLETION DATE	24. SUPERVISOR'S SIGNATURE/DATE:
DKKeating		DKKeating 10-31-78

25. PART QA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

1. Bechtel NCR 1557 was reopened and hold tags reapplied.
2. NCR 1557 was redistributed to Project Engineering for redispositioning.
3. Project Engineering redispositioned the NCR requiring QC inspection of the embeds, welding, and mill certs.
4. QC inspected in accordance with the new disposition and generated appropriate documentation of the inspections.

26. DESIGN/PROJECT SIG. AUTH. DISP.:	27. PRO SIG. AUTH. DISP.:	28. PROCUREMENT SIG. CONC. DISP.:	29. SIG. OF CUST. ACCEPT. FOR QA:
LAD: 561, LAD: 808	NA	NA	LAD: 561, LAD: 808
30. PAS/CONST. SIG. AUTH. DISP. DISP.:	**31. SIG. OF TEST GROUP ACCEPT. CONDITION:**	**32. PCA MATER MGR - SIG. DISP. SIG. AUTH. DISP.:**	**33. QA AUTH. SIG. TO IMPLEMENT DISP.:**
LAD: 561, LAD: 808	NA	NA	DKKeating

34. METHOD OF PART QA VERIFICATION:

1. Reviewed NCR 1557 which had been reopened and ultimately closed on 5-25-79.
2. Reviewed QC documentation generated as noted on NCR 1557.

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35. SIG. OF QUAL. REP. FOR PART Q/A DISPOSITION COMPLETION:	36. SIG. VERIFYING PART Q/A & HOLD TAG REMOVAL DATE:	37. NCR CLOSED BY/DATE: (PART A PROCESS QA COMPLETE)
LAD: 561, LAD: 808	DKKeating 5-25-79	DKKeating 5-25-79

NCR SERIAL NO: M-01-9-8-091
DATE: 10-31-78
DATE OF REV: Closed 5-25-79
FILE NO: 16.3.6

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Contd from Page 1)

Project Engineering concurred with the field and dispositioned the NCR "use-as-is".

Corrective action taken by Bechtel relative to this NCR is not fully responsive for the following reasons:

1) There was no Quality Control involvement in the acceptance of the welding. Also, no QC receipt or fabrication inspection was required by the NCR.

2) The NCR does not address possible inadequacies in the documentation associated with the non-Q procurement and fabrication of these Q embeds. The documentation to be addressed includes Bechtel QC generated documentation as well as supplier documentation.

4Lo

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.			19. NO. 1557	20. PAGE 1 of 12
Midland	7220				
2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION	
Common	C-127	3	Misc. metal-tank farm embeds	Poseyville Laydown Are	
6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART P/N ____ REV ____ SER NO. ____	9. SOURCE	10. CONTRACTOR/SUPPLIER	
C-233	N/A	N/A	Construction	N/A	
11. INSPECTION CRITERIA (X) DWG ( ) SPEC ( ) OTHER IR NO. N/A NO. C-127		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:

Drawing C-127 Rev. 3 list misc. metals as "Q". Contrary to above the angle embeds for the valve Pit 1 & 3 roof slabs were field procured and fabricated per the Non Q section of specification 7220-C-233 Hold for Eng. Disp. Q list #1.003 L-HOLD TAGS APPLIED

17. REPORTED BY Jerry Morris DATE 9/20/78

18. VALIDATED BY T.B. Barclay DATE 9-21-78

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

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

VERB. REQUESTED BY Yoder

The welds for these embeds were inspected by field engineering and found to be satisfactory. Field engineering recommend to "use as is".

Jerry Morris 9-21-78
T.B. Barclay 9-21-78

23. PROJECT ENGINEERING DISPOSITION

Since Field Engineering's inspection indicates that the welds are satisfactory, the Class I piping in this area will not be affected. Therefore, Project Engineering concurs with the Field Engineering Recommended Disposition to "Use As Is."

Project Engineering has evaluated the conditions described in Blocks 6 and 22 and has determined that the non-Q embeds are acceptable

(Cont. on Page 2)

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

W Yoder 10-16-78
PROJECT FIELD ENGINEER DATE

J.R. Bacsiak/RLC 10-13-78
PROJECT ENGINEER DATE

W.L. Barclay 10-17-78
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSP FOR DATE

25. DISPOSITION RESULTS

QE	
RCE	DCE
PEC	
QE	
FILE	

CONSUMERS POWER COMPANY
RECEIVED
OCT 18 1978
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

26. QC INSPECTION 10/18/78
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 2 19NCR NO 1557

(Block 23 Cont.)

and that the Class I piping in this area will not be affected. Therefore, Project Engineering concurs with the Field Engineering recommended disposition to "Use As Is."

M D Reeves 10-10-78 R Schulman 10/13/78

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NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

PAGE 1 OF 2

6. PROJECT NAME:	7. NONCONFORMING PART NO:	8. NONCONFORMING PART NAME:	1. NCR & DISP NO: M-01-0-8-101
Midland 1 & 2	Model # CL-204	Krautkramer-Branson UT Thickness Gauge	2. DATE: 11-27-78
9. SERIAL NUMBER:	10. ORG. CONTRACTING NC:	11. AREA/LOC. OF NC:	3. DATE OF DISP: Closed 5-29-79
NA	Bechtel QC	NA	4. ITEM NO: 16.3.6

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

1. Bechtel's SF/PSP G-4.1, Rev. 1 Section 1.0 (Scope), specifies that instruments, gauges and meters used to measure, gauge, test, inspect or otherwise examine items to determine compliance with specifications during inspection and verification of construction activities are required to be controlled in accordance with the aforementioned procedure Section 3.0 "On Site Requirements".

Contrary to the above, the subject ultrasonic gauge is not controlled in accordance with the aforementioned procedure.

5. DISTRIBUTION

ACTION COPY:

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INFO COPY:

WRBird
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JLCorley
SHHowell
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JFNewgen

13. QA RECOMMENDATION FOR PART DA:

1. Establish and document the control of the subject UT instrument in accordance with SF/PSP G-4.1, Rev. 1 Section 3.0.
2. Provide evidence assuring previous readings taken are accurate in accordance with specified tolerances.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [ ] NOT REQUIRED [X]

14. HOLD TAGS APPLIED: YES [X] NO [ ] *

LOCATION, LOCATION & TYPE OF HOLD TAGS APPLIED: One, on CL-204 Bechtel Hold for QC Clearance **

15. IS PROCESS QA REQUIRED: YES [X] NO [ ] IF NO, GIVE JUSTIFICATION BELOW:

16. DOES NC AFFECT R-LIST ITEM: YES [ ] NO [X]

17. IS NC REPORTABLE PER 50.55(e): YES [ ] NO [X]

18. IS NC REPORTABLE PER PART 21: YES [ ] NO [X]

19. IF YES, DATE & TIME OF REPORT TO NRC: NA

20. IF YES, WHO MADE REPORT TO NRC: NA

21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

22. NCR ORIGINATED BY: Mark M Docker

23. WRITTEN REPLY REQUIRED BY: 12-15-78

TO ENGINEER QA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: D K Keeton, 11-27-78

25. PART QA DISPOSITION, VERIFICATION & COMPLETION DATE:

1. Subject instrument entered in Bechtel calibration program.
2. Calibration check by CPCo - Systems Protection & Laboratory Services Group was shown to be within manufacturer's specification. Calibration sticker affixed. Due for calibration 4-16-80.
3. Hold tag removed 5-29-79.

26. DESIGN/PROJECT ENG. AUTH. DISP.:	27. QAD SIG. AUTH. DISP.:	28. ENGINEERING SIG. QUAL. DISP.:	29. SIG. OF QAD MGR. FOR PART DA: Review of Bechtel Letter LAD: 872
NA	NA	NA	
30. PAD/CONST. SIG. AUTH. DEP. DISP.: Review of Bechtel Letter LAD: 872	31. SIG. OF TEST GROUP MGR/SUPV. DISPOSITION: NA	32. PCR MGR/QA MGR - FAIL. ANAL. SIG. AUTH. DISP.: NA	33. QA AUTH. SIG. TO CLOSE/ACCEPT DISP.: NA

34. RECORD OF PART QA VERIFICATION:

1. Records of UT instrument (Ser #612015) reviewed.
2. Observed current calibration sticket on instrument.

270 282

35. SIG. OF QAD MGR. FOR PART DA DISPOSITION COMPLETION: Review of Bechtel Letter LAD: 872	36. SIG. OF DESIGN PART QA & HOLD TAG REMOVAL DATE: 5-29-79	37. NCR CLOSED TO QA/QC: (PART & PROCESS QA COMPLETE)

*Pending location of subject instrument.
**See attachment #1.

Attachment #1

UT Thickness Gage
CL-204

HOLD FOR QC CLEARANCE TAG

CFC.

DEVIATION CONTROL: NCR NO. M-01-1-3-101 DATE: 11-27-78

RESPONSIBLE ENGR Jack Docker DATE: 11-28-78 EXT. 282
Jack M. Docker

STATUS:

HOLD FOR: REWORK ☐ REJECT ☐ PROJ. ENGRG. DISPO. ☐
DOCUMENTATION ☒ OTHER ☒ EXPLAIN

REMARKS: Do not use subject instrument for determination of compliance with specifications during inspection and verification of construction activities until clearance is released CFC. NCR and removal of this tag by CFC QA personnel.

QC-4NCR REV 6-1-77

HOLD FOR CLEARANCE

MAY NOT BE REMOVED WITHOUT AUTHORIZATION

BECHTEL

CONTRACTOR

270 285

CONSUMERS POWER COMPANY
RECEIVED
MAY 7 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640

May 3, 1979

Consumers Power Company
P.O. Box 1963
Midland,MI 48640

Attention: J. L. Corley

Job 7220 Midland Project
CPCo NCR M01-4-8-101
Complete Response
LAD - 872 Action Item - 579

Dear Mr. Corley:

References: (a) Bechtel ltr LAD - 592
(b) CPCo ltr 12FQA79

The subject NCR reported that Bechtel's model C1-204 ultrasonic thickness gauge was not being controlled in accordance with SF/PSP G-4.1. Bechtel responded to the subject NCR by Ref (a), which CPCo rejected by Ref (b).

We have re-evaluated the over all problem with the following results:

1. The subject instrument has been entered in the Bechtel calibration program due for recalibration 4/16/80.

2. The instrument was calibrated by CPCo SP & LS - C + IS - PL - M + TE on 4/16/79 with a maximum deviation for all thickness's of 0.00" and all deviations within the manufactures specifications.

3. Other type instruments that would possibly fall within the SP/PSP 4.1 requirements are the radiographic film densitometer and welding purge gas oxygen analyzer. These instruments will be handled as follows:

(A) Densitometer - This instrument is set-up and checked at each use by comparison to a calibrated film strip that is in the calibration program, no further action is considered necessary.

(B) Oxygen Analyzer - This instrument has been entered in the Bechtel calibration program. It will be on a six month recall to functially verify the Oz cell and check the battery condition as recommended by the manufacture.

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JLC
DSK
RBW
FRK
ADS
ICE
TES

4. QC personnel who are concerned with the subject instrument have been indoctrinated by resolving this specific problem. The initial problem was no calibration sticker or control in the subject instrument not the implementation of the calibration controls. Since the subject instrument now has the proper calibration stickers with calibration expiration noted, additional indoctrination is not considered to be warranted.

In summary, the subject instrument has been calibrated and entered into the Bechtel calibration system, its accuracy verified, no other similar equipment has been identified that we feel should also be included and additional indoctrination of QC personnel is not considered warranted. I believe this addresses all of the concerns expressed in the subject NCR and the Ref (b) letter. Should you have additional questions please contact Gene Smith of my office.

Very truly yours,

A. Dreisbach
ject Quality Assurance
-g neer

LAD/GS/bsm

cc: W. Bird
B. Marguglio

I-X-128

Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

PAGE 1 OF 3

6. PROJECT NAME:	7. NONCONFORMING PART NO:	8. NONCONFORMING PART NAME:	1. NCR SERIAL NO:
Midland 1 & 2	(2) 5"-GCB-GB-XL Uni (1) 6"-GCB-GB-XL Unit	I Anchor Darling II Globe Valves(Manual)	M-QT-1-3-109
9. SERIAL NUMBER:	10. CBD. CONSTRUCTION NO:	11. AREA/LOC. OF NC:	2. DATE:
412-39 and 31 413-30	Anchor Darling Valve Co.	Decay Heat Pump Rooms (4) Elev.568'	12-18-78
			3. DATE OF NCR: Closed 5-22-79
			4. FILE NO: 16.3.3

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

Purchase specification M-125C requires that the above noted valves have limit switches to provide indication of open and closed positions for manually operated valves.

Anchor Darling drawing number 3287-3, Revision D (Bechtel #M-125C-35-4) indicates that "NAMCO" limit switch model numbers 170-31100 and 170-32100 are installed for the upper and lower positions respectively.

(Contd on Page 3)

5. DISTRIBUTION

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DATaggart
DWalls

13. QA RECOMMENDATION FOR PART QA:

1) Reinstall limit switches in proper orientation in accordance with the vendors requirements.
2) Replace broken limit switch.

(Contd on Page 3)

DESIGN/PRODUCT ENG. DISPOSITION REQUIRED [ ] NOT REQUIRED [X]

14. HOLD TAGS APPLIED: YES [X] NO [ ] NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: Three (3) one each on valve numbers 412-39, 31 and 413-30

15. IS PROCESS CA REQUIRED: YES [ ] NO [X] IF NO, ENTER JUSTIFICATION BELOW: The noted valves were recieved on site during 1977. No process corrective action is required due to 1) the time lapse between shop inspection and the identified condition, 2) Bechtel has increased training for shop inspection personnel.

16. DOES NC AFFECT 4-LEAST ITEM: YES [X] NO [ ]	17. IS NC REPORTABLE PER 50.55(e): YES [ ] NO [X]
18. IS NC REPORTABLE PER PART 21: YES [ ] NO [X]	19. IF YES, DATE & TIME OF REPORT TO NRC: NA
20. IF YES, WAS WALE REPORT TO NRC: NA	21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA
22. NCR ORIGINATED BY: W J Dickson Jr. 12/12/78	23. WRITTEN REPLY REQUIRED BY: 2/5/79 TO ESTABLISH CA COMPLETION DATE
	24. SUPERVISOR'S SIGNATURE/DATE: R.L. Southon per telecon 12/13/78

25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

See attached letter LAD: 893 dated 5/16/79.

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26. DESIGN/PRODUCT ENG. AUTH. DESIG.: NA	27. QAD ENG. AUTH. DESIG.: NA	28. PROCUREMENT ENG. AUTH. DESIG.: NA	29. DOC. OF CORR. ACT. FOR CA: LAD: 893
30. QAD/CONST. ENG. AUTH. DES. DESIG.: NA	31. ENG. OF TEST GROUP AUTHOR. SIGNATURE: NA	32. FOR VALVE AND PIPE SUPP. ENG. AUTH. DESIG.: NA	33. QA AUTH. DES. TO SIGNATURE DESIG.: W J Dickson Jr.

34. METHOD OF PART QA VERIFICATION:

Visual verification of the installed switches and review of Bechtel NCR's 2133 and 2159.

35. DOC. OF CORR. ACTION FOR PART QA VERIFICATION: LAD: 893	36. DESIGN/PROCUREMENT ENG. AUTH. DESIG. REMOVAL DATE: W J Dickson Jr. 5/16/79	37. QA ENGINEER OR DESIGNEE (PART A PROCESS QA COMPLETE): W J Dickson Jr. 5/16/79

NCR SERIAL NO: M-01-1-8-109
DATE: 12-18-78
DATE OF REV: Closed 5-22-79
FILE NO: 16.3.3

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Contd from Page 1)

Contrary to the above the following installation was noted:

1) Valve number 412-039
(10) Unit I Room 27
   a) Limit switch 170-32100 is installed in the upper position
   b) Limit switch 170-31100 is installed in the lower position.

2) Valve number 412-031
(5) Unit I Room 25
   a) Limit switch 170-31100 is installed in the lower position.
   b) Limit switch 170-31100 installed in the upper position appears broken.

3) Valve number 413-30
(5) Unit II Room 26
   a) Limit switch 170-32100 is installed in the upper position.

The above conditions are not in accordance with the vendors (Anchor Darling Valve) drawing requirements.

13. QA RECOMMENDATION FOR PART CA:

(Contd from Page 1)

3) Inspect all manually operated valve limit switches for proper installation per the vendor drawings.

Document all nonconforming conditions.

CONSUMERS POWER COMPANY
RECEIVED
MAY 18 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640

May 16, 1979

Consumers Power Company
P.O. Box 1963
Midland, MI 48640

Job 7220 Midland Project
CPCo NCR M-01-1-8-109
Complete Response
LAD: 893 Action Item: 530

Dear Mr. Corley:

This is considered Bechtel's complete response to CPCo NCR M-01-8-109, dated December 18, 1978. This NCR identified discrepancies involving the installation of limit switches on manual operated valves.

QC inspected all "Q" listed manual operated valves which use the 170-31100 type limit switch for the upper limit and the 170-32100 type limit switch for the lower limit. There are only four. Quality Control performed an inspection of these valves and found the following:

1) Valve 412-039 has a 170-32100 (lower) type limit switch installed for the upper limit switch and a 170-31100 (upper) type switch installed for the lower limit switch.

   The limit switches for this valve were removed and reinstalled in accordance with Anchor-Darling Dwg. 3287-3 Rev. D. The limit switches on this valve are functioning properly.

2) Valve 412-031 has a 170-31100 (lower) type switch installed for both the upper and the lower limit switches. Also the upper limit switch appears to have internal damage.

   The lower limit switch (A 170-31100 Type) was removed, and the upper limit switch from valve 413-030 (A 170-32100 Type) was installed. At

JLC	JLC
DRK	
RGW	R
JPRK	
XJCP	WPD
CE	
FRE	

270 288

present, the lower limit switch (A 170-32100 Type) on this valve is not functioning properly because the limit switch is actually an upper limit switch which was identified incorrectly by the vendor. This condition has been reported on NCR 2159. Also the upper limit switch appears to have internal damage, this has been reported on NCR 2133.

3) Valve 413-030 has a 160-32100 (upper) type limit switch installed for both the upper and the lower limit switches.

   The lower limit switch (A 170-31100 Type which was removed from valve 412-031) was installed as the upper limit switch on this valve. At present, the upper limit switch on this valve (A 170-31100 Type) is not functioning properly, because this limit switch is actually a lower limit switch which was identified incorrectly by the vendor as an upper limit switch. This condition has been reported on NCR 2159.

4) Valve 413-037 has a 170-31100 (lower) type limit switch installed for the upper limit switch, and a 170-32100 (upper) type limit switch installed for the lower limit switch. This installation is in accordance with Anchor Darling Dwg. 3287-3, Rev. D.

In summary, it appears that the vendor installed the limit switches on valve 412-039 in reverse order and the vendor installed the correct limit switches in the correct location on valve 412-031 and 413-030, but the ID cover plates for the lower limit switch on valve 412-031 and the upper limit switch on valve 413-030 were the incorrect ID cover plates.

This response was discussed with CPCo's jobsite representative, Mr. W. Dickson, on May 15, 1979.

If you should have any further questions concerning the above, please contact this office.

Very truly yours,

L. Smith

for. L. A. Dreisbach
Project Quality Assurance
Engineer

LAD/HA/bjc

cc: W. Bird
B. Marguglio
D. Miller

X 129

Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

PAGE 1 OF 3

6. PROJECT NAME:	7. NONCONFORMING PART NO:	8. NONCONFORMING PART NAME:	1. NCR SERIAL NO: MI-QE-79-004
Midland	NA	NA	2. DATE: 1-16-79
9. SERIAL NUMBER:	10. ORG. CONNECTING NO:	11. AREA/LOC. OF NC:	3. DATE OF ISS'Y: Closed 5-4-79
NA	Bechtel Construction	NA	4. TYPE NO: 16.3.4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION (TEN ASPS):

Project Special Provision PSP G-3.2, Rev 4 defines a Nonconformance as "A deficiency in characteristic, documentation or procedure which renders the quality of an item unacceptable or indeterminate. Examples of nonconformances include:..., deviations from prescribed processing,..." Also, it is indicated in Section 3.2.5 of the above PSP that nonconformances which are not correctable by further prescribed processing in accordance with the original design documents shall be reported, controlled, and dispositioned by the use of a Nonconformance Report.

(Contd on Page 3)

5. DISTRIBUTION

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13. QA RECOMMENDATION FOR PART QA:

1. Issue NCR to document discrepancy.
2. Correct documentation of December measurements and disposition discrepancies as required by FPW-6.000, Section 9.1.

DESIGN/PROJECT ENG. DISPOSITION ADJUSTED [ ] NOT REQUIRED [X]

(Contd on Page 3)

14. HOLD TAGS APPLIED: YES [ ] NO [X] NUMBER, LOCATION & DATE OF HOLD TAGS APPLIED: NA

15. IS PROCESS QA ADJUSTED: YES [X] NO [ ] IF NO, ENTER JUSTIFICATION BELOW:

16. DOES NC AFFECT A-LIST ITEM: YES [X] NO [ ]	17. IS NC REPORTABLE PER 50.55(e): YES [ ] NO [X]
18. IS NC REPORTABLE PER PART 21: YES [ ] NO [X]	19. IF YES, DATE & TYPE OF REPORT TO NRC: NA
20. IF YES, WAS VALUE REPORTED TO NSC: NA	21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

22. NCR GENERATED BY:	23. WRITTEN REPLY REQUIRED BY: 1-30-79 TO ESTABLISH QA COMPLETION DATE	24. SUPERVISOR'S SIGNATURE/DATE:
DRKeating		DRKeating 1-16-79

25. PART QA DISPOSITION, VERIFICATION & COMPLETION DATE:

1. Bechtel NCR 1837 was issued to resolve the exceeding of the specified voltage range.
2. A review was made of all "Measurement of Welding Arc Voltage and Amperage" forms issued to date to insure correctness.

All items were complete as of 2-16-79.

270 290

26. DESIGN/PROJECT RESP. ADMIN. DISP.:	27. PAD RESP. ADMIN. DISP.:	28. PROCUREMENT RESP. ADMIN. DISP.:	29. RESP. ADMIN. DISP. FOR QA:
NA	NA	NA	LAD: 705 Dated 2-16-79
30. PAD/CONST. RESP. ADMIN. DISP.:	31. RESP. OF NEXT HIGHER ACTION. CONSTRUCTION:	32. FOR MAJOR MOD - FSC RESP. RESP. ADMIN. DISP.:	33. QA ADMIN. RESP. TO DISPOSITION:
LAD: 705 Dated 2-16-79	NA	NA	DRKeating

34. RESULTS OF PART QA VERIFICATION:

1. Reviewed NCR 1837.
2. Other entries on the forms, prior to date of NCR, have been reviewed and found to be correct.

35. RESP. OF THIS RESP. FOR PART QA SATISFACTORY DISPOSITION:	36. RESP. ACCEPTS PART QA & HOLD TAG REMOVAL:	37. NCR CLOSED BY QA: (PARTY PROCESS QA VERIFIED)
LAD: 705 Dated 2-16-79	DRKeating 5-4-79	DRKeating 5-4-79

NCR SERIAL NO: M-01-9-9-004
DATE: 1-16-79
DATE OF REV: Closed 5-4-79
FILE NO: 16.3.4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Contd from Page 1)

Contrary to the above requirements, the December weld voltage checks identified five instances where the actual voltage was less than the minimum specified and a Nonconformance Report was not initiated. It is noted that Bechtel issued a Field Change Request relative to the five voltages. Additionally, the following discrepancies were observed relative to the implementation of Field Procedure FPW-6.000 "In-Process Measurement of Welding Arc Voltage and Amperage" for December, 1978.

1. Welding Procedure Specification P1-A-Lh (Structural), Rev 2, lists an amperage range of 115-160 amps for 1/8" electrode. An incorrect specified value of 75-100 amps was entered on the Exhibits in two instances (Welders E27 and E15). The actual amperage measured for those instances was 92.5 and 98 amps respectively, both of which are outside of the correct specified value. FPW-6.000, Section 5.1.1 requires the following actions to be taken when amperage is outside of the specified value.

   a. Corrective action shall be taken to bring the welding current within the specified range.

   b. It shall be verified that the welding current used is suitable for the specific application and that the welds made meet welding procedures and project specifications.

   c. Welds made with a current outside of the specified range shall be identified on the measurement form.

   d. Corrective action is to be taken to revise or amend the procedure or the weld joint shall be repaired or cut-out.

   The documentation for the amperage checks is incorrect for the identified instances and FPW-6.000, Section 9.1.1 has not been complied with.

2. Section 9.1.2 of FPW-6.000 requires that the cause of the voltage measurements being outside the specified range be determined. There is no evidence that the cause was determined.

13. QA RECOMMENDATION FOR PART CA:

270 291

(Contd from Page 1)

3. Assure other entries on measurement forms are correct.

CONSUMERS POWER COMPANY
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FEB 19 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640

February 16, 1979

Consumers Power Company
P.O. Box 1963
Midland, MI 48640

Attention: J. L. Corley

Job 7220 Midland Project
CPCo NCR M01-9-9-004
Complete Response File: 2610
LAD: 705 Action Item: 557

Dear Mr. Corley:

The NCR identified certain noncompliances with the Bechtel Field Procedure No. FPW 6.000 Rev. 0. The noncompliances consisted of "Out of Range" welding voltage and record entries.

To resolve the above reported condition, Bechtel has taken the following steps to preclude repetition and resolve the noncompliance to the Welding Procedure Specification:

1) NCR 1837 was issued to resolve the exceeding of the specified voltage range.

2) A review was made of all "Measurement of Welding Arc Voltage and Amperage" forms issued to date to insure correctness and make any corrections necessary.

3) Procedure FPW 6.000 has been revised to provide the necessary mechanisms needed to comply with the requirements of Project Special Provision SF/PSP G-3.2 Rev. 4. The revised FPW 6.000 has been approved by Bechtel and is awaiting CPCo approval.

4) A training session was held 1/26/79 with all Field Welding Engineers to re-instruct them in the requirements of FPW 6.000 and to instruct them in regard to the latest revision to the procedure which reflects the requirements of SF/PSP G-3.2 Rev. 4.

This response was discussed with your site representative, Mr. J. Zimmerman.

270 292

JLC	
DRK	
RSH	
RBK	
JLZ	
QS	

I believe this addresses all of your concerns expressed in the subject NCR. If you need any additional information, please contact the undersigned.

Very truly yours,

L. A. Dreisbach
Project Quality Assurance Engineer

LAD/BA/re

cc's: W. Bird
B. Marguglio
J. Milandin
W. Moring
P. Martinez
W. Williams
B. Barclay
J. F. Newgen

X-130

Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

5. PROJECT NAME:	7. NONCONFORMING PART NO:	8. NONCONFORMING PART NAME:	1. NCR SERIAL NO: NCOI-3-9-008
Midland 1 & 2	NA	NA	4. DATE: 2-2-79
6. BUILDING NUMBER: NA	10. ORG. CONNECTED NO: Bechtel FE	11. LOCATION OF NC: Area 7 659' elev of Aux Bldg	3. DATE OF REV: Closed 5-16-79
			2. ITEM NO: 16.3.4, 16.3.6

12. DESCRIPTION OF NONCONFORMANCE (CONDITION FOUND AND APPLICABLE DOCUMENTS AND ITEMS):

Field purchased cable supports brackets (shelf item) are being used on main control panels J-201 to support incoming cables. These shelf brackets have been installed without any documentary evidence of Project Engineering approval prior to the installation. Cable clamps to support incoming cables are required to be furnished and installed by the vendor in an area adjacent to and immediately below and/or above the terminal blocks as required by J-201 Technical Specification, paragraph 7.2.7, Rev 5. Contrary to this requirement in the Technical Specification, these cable clamps have been furnished by the vendor but not installed. Furthermore, there is no documentary evidence to show a deviation from the J-201 specification.

13. DISPOSITION AS REQUIRED BY PART 21:

1. Bechtel Project Engineering determine if incoming cable support brackets being installed are adequate and equivalent to the supports furnished by the vendor to seismically support incoming cable.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [X] NOT REQUIRED [ ]

9. DISTRIBUTION

ORIG. CERT:
L.D.Dreisbach

CONC. CERT:

W.C.Barclay	D.B.Miller
M.R.Bird	W.Moring
T.C.Cooke	J.F.Newgen
J.L.Corley	R.A.Simanek
R.Hermeston	D.A.Taggart
S.H.Howell	
D.R.Johnson	
G.S.Keeley	
B.W.Marguglio	
P.A.Martinez	
J.Milandin	

14. HOLD TAGS APPLIED: YES [ ] NO [X] STORED, LOCATION & TYPE OF HOLD TAGS APPLIED: NA

15. IS PROCESS TO BE REVISED: YES [Y] NO [ ] IF NO, GIVE JUSTIFICATION BELOW:

16. WILL NC AFFECT 1-CERT ITEM: YES [X] NO [ ]

17. IS NC REPORTABLE PER 50.55(e): YES [ ] NO [X]

18. IS NC REPORTABLE PER PART 21: YES [ ] NO [X]

19. IF YES, DATE & TIME OF REPORT TO NRC: NA

20. IF YES, WAS REPORT TO NRC: NA

21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

22. NCR INITIATED BY: L.D. Dreisbach

23. VERIFIED DISPOSITION BY: 2-16-79

TO BE COMPLETED ON COMPLETION DATE

24. DISPOSITION APPROVED/DATE: Paul Lyon 2-2-79

25. PART 21 DISPOSITION, VERIFICATION & COMPLETION DATE:

The field procured support brackets, (shelf brackets) have been replaced with a Project Engineering approved alternate. (Refer to letter LAD: 892 attached)

270 294

26. DESIGN/PROJECT ENG. AUTH. SIGN.: NA	27. QA ENG. AUTH. SIGN.: NA	28. CONSTRUCTION ENG. AUTH. SIGN.: NA	29. NRC OF NRC REPORT (IF ANY): Letter LAD: 892
30. PROJECT ENG. AUTH. SIGN. FOR PART 21:	31. ENG. OF NRC REPORT DISPOSITION: NA	32. QCS VERIF. AUTH. SIGN. - QA ENG. AUTH. SIGN.: NA	33. NRC APPR. OF DISPOSITION: Letter LAD: 892

34. VERIFIED OF PART 21 DISPOSITION:

Verified that the new support brackets were approved by Project Engineering and the field procured br[illegible] were removed and replaced with the approved brackets.

35. IF YES, GIVE NCR PART 21 DISPOSITION INFORMATION: Refer to LAD: 892	36. CERTIFICATE OF COMPLIANCE NO. & DATE OF REVISAL DATE: NA	37. NCR CLOSED BY QA: NAME & PROCESS IN COMPLIANCE: [signature] 5/16/79

CONSUMERS POWER COMPANY
RECEIVED
MAY 16 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640

May 15, 1979

Consumers Power Company
P. O. Box 1963
Midland, MI 48640

Attention: J. L. Corley:

Job 7220 Midland Project
CPCo NCR M-01-8-9-008
Complete Response
LAD: 892 Action Item: 5[illegible]A

Dear Mr. Corley:

The subject NCR addresses a concern with the unauthorized installation of material in "Q-listed" equipment.

Field purchased support brackets (shelf brackets) were installed in the J-201 Main Control Panels in lieu of the cable supports furnished by the panel manufacturer. These brackets were procured non-Q without Project Engineering concurrence.

Part Corrective Action: The field procured support brackets have been replaced with a Project Engineering approved alternate described in Resident Engineer Memo J-153 dated 2/14/79. The original cable support brackets provided by the panel manufacturer caused an interference problem when terminating and will be returned to the vendor.

Process Corrective Action: The use of the shelf support brackets was noted by Bechtel Quality Control and was under investigation at the time CPCo issued the subject NCR.

To preclude Quality Control's failure to document the nonconforming condition in a timely manner, a training session was held on SF/PSP 3-3.2 to better define the criteria differences between initiation of Discrepancy Reports and Nonconformance Reports (reference QCFN-5847).

Bechtel Field Engineers have been instructed that material will not be installed in "Q" equipment without prior project approval.

This letter is considered to be a complete response to the subject NCR. If further assistance and/or clarification be necessary, please contact the writer.

JLC	
DRK	
PGW	
[illegible]RK	
[illegible]NL	
QE	
FILE	

Very truly yours, 270 295

L. A. Dreisbach
Project Quality Assurance Engineer

LAD/RCH/cb

X 131

Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

PAGE 1 OF 2

6. PROJECT NAME:	7. NONCONFORMING PART NO:	8. NONCONFORMING PART NAME:	1. NCR SERIAL NO: MC-01-4-79-020
Midland 1 & 2	1BB5603 G	Cable	2. DATE: 2-21-79
9. SERIAL NUMBER: NA	10. QUAL. CONDITION NO: Bechtel Const & QC	11. AREA (BLDG., ELEV., ETC.): El 674'-6" Upper Cable Spreading Room	3. DATE OF REV: Closed 4-1-79
			4. FILE NO: 16.3.4, 16.3.6

12. "AS IS" NONCONFORMING CONDITION (CHECK "AS REQUIRED" CONDITION FROM LIST):

Drawing E-37, Rev 24 shows routing of cable 1BB5603 G to be as follows: from tray BFA03 to wireway BWW017.

Contrary to the above, cable 1BB5603 G is routed as follows: from cable tray BFA02 to wireway BWW017.

Quality Control Inspector signed off on Activity 2.6 (vias) on the IR (on 2-14-79) attesting to proper routing.

5. DISTRIBUTION

ACTION COPY:

I\Dreisbach

INFO COPY:

WLBarclay	JMilandin
WRBird	DBMiller
TCCooke	WGMoring
JLCorley	JFNewgen
RHermeston	RASimanek
SHHowell	DATaggart
DRJohnson	
GSKeeley	
BWMarguglio	
PAMartinez	

13. QA RECOMMENDATION FOR PART DA:

Activity 2.6 on the IR should be lined through as an erroneous entry. Cable tray sections should be marked as indicated on design drawings or all the drawings should be corrected.

DESIGN/PROCESS CONT. DISPOSITION REQUIRED [ ] NOT REQUIRED [X]

14. HOLD TAGS APPLIED: YES [ ] NO [X] PLACED, LOCATION & DATE OF HOLD TAGS APPLIED: NA

15. IS PROCESS QA REQUIRED: YES [X] NO [ ] IF NO, ENTER JUSTIFICATION BELOW:

16. DOES NC AFFECT A-LIST ITEM: YES [X] NO [ ]

17. IS NC REPORTABLE PER 50.55(e): YES [ ] NO [X]

18. IS NC REPORTABLE PER PART 21: YES [ ] NO [X]

19. IF YES, DATE & TIME OF REPORT TO NRC: NA

20. IF YES, WHO MADE REPORT TO NRC: NA

21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

22. NCR CLASSIFIED BY: Edgar A Jones

23. RESPONSE NEEDED BY: 3-7-79

TO DISCUSS QA COMPLETION DATE

24. DISPOSITIONED, SIGNATURE/DATE: Paul Kuper 2-21-79

25. PART QA DISPOSITION, JUSTIFICATIONS & COMPLETION DATE:

See letter LAD: 842 Action Item 598 dated 4-27-79.

26. DESIGN/PROCESS REQ. ACTN. DISP.: NA	27. PRO REQ. ACTN. DISP.: NA	28. PROCUREMENT REQ. ACTN. DISP.: NA	29. REQ. OF CORR. ACTN. FOR QA: See Letter LAD: 842
30. PAR/CONST. REQ ACTN. COR. DISP.:	31. REQ. OF DEPT GROUP ACTION, CONDITION: NA	32. FOR MAJOR NCR - PAT. REQ. REQ. ACTN. DISP.: NA	33. QA ACTN. REQ. TO CORRECT DISP.: See Letter LAD: 842

34. METHOD OF PART QA VERIFICATION:

Visual verification of correction made to inspection record.

270 296

35. REQ. IF CORR. REQ'D, FOR PART QA REJECTION'S DISPOSITION: See Letter LAD: 842	36. REQ. VERIFIED PART QA & HOLD TAG REMOVAL DATE: Edgar A Jones 5/1/79	37. NCR CLOSED (QA ONLY) DATE & SIGNATURE OF CONCURRENCE: Edgar A Jones 5/1/79

CONSUMERS POWER COMPANY
RECEIVED
APR 3 1979
FIELD QUALITY ASSURANCE
MIDLAND MICHIGAN

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640

April 27, 1979

Consumers Power Company
P.O. Box 1963
Midland, MI 48640

Attention: J. L. Corley

Job 7220 Midland Project
CPCo NCR M-01-4-9-020
Complete Response
LAD: 842 Action Item: 598

Dear Mr. Corley:

Reference: CPCo NCR M-01-4-9-020

The subject NCR identifies a concern regarding the routing of cable not being in accordance with the design drawing. Quality Control's inspection record (IR) for the routing of cable IBB5603-G agreed with the current circuits schedule E-37, but not the actual routing via.

To resolve this concern the following actions have been taken:

1) The cable installation IR identified in the subject NCR, IBB5603-G has been corrected to show the actual routing. The conflict between the actual routing and E-36 is documented by NCR #1727.

2) NCR #1727, issued December 22, 1978, which identifies the mismarking of tray in the Auxiliary Building, has received a Field Engineering recommended disposition to as-built the layout drawings. Implementation of the NCR's disposition will preclude a recurrence of the subject concerns.

3) As part of a training session held on March 5, 1979 (Ref. QCEM-5802), the electrical QCEs were reinstructed in the use of DRs and NCRs.

This letter is considered to be a complete response to the subject NCR. If further assistance and/or clarification is necessary please contact the writer.

Very truly yours,

L. A. Dreisbach
Project Quality Assurance Engineer

LAD/RCH/bjc
cc: W. Bird
B. Marguglio

270 297

14-32

Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

PAGE 1 OF 3

4. PROJECT NAME: Midland 1 & 2	7. NONCONFORMING PART NO: NA	8. NONCONFORMING PART NAME: NA	1. NCR SERIAL NO: M-01-4-9-030
5. SERIAL NUMBER: NA	10. ORG. CONSTRUCTION NO: Bechtel Construction	11. AREA/LOC. OF NC: NA	2. DATE: 3-1-79
			3. DATE OF REV: Closed 5-31-79
			6. FILE NO: 16.3.4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS DRAWING" CONDITION WILL BE:

Paragraph 8.1 of FPW-6.000 requires that the Field Welding Engineer (FWE) shall record the welding procedure and revision number and the voltage and current ranges specified in the welding procedure on the Measurement of Welding Arc Voltage and Amperage Form.
Welding Procedure Specification (WPS) P1-A-LH Rev 0 specifies the 1/8" E7018 electrode amperage range will be 115-165. Field Change Request (FCR) No M-1537 allows interim approval to WPS P1-A-LH Rev 0 for a specified voltage range to be 19-28 volts.
WPS P1-T Rev 2 specifies the current range shall be 40-140 amps and the voltage range shall be 8-16 volts. (Contd on Page 3)

9. DISTRIBUTION
ACTION COPY:
LADreisbach

INFO COPY:

WLBarclay	JMilandin
WRBird	DBMiller
TCCooke	WGMoring
JLCorley	JFNewgen
RHermeston	RASimanek
SHHowell	DATaggart
DRJohnson	
GSKeeley	
BWMarguglio	
PAMartinez	

13. RECOMMENDATION FOR DISPOSITION:
Process deviation in accordance with FPW-6.000.
Correct documentation.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [ ] NOT REQUIRED [X]

14. HOLD TAGS APPLIED: YES [ ] NO [X] SUBJECT, LOCATION & TYPE OF HOLD TAGS APPLIED:

15. IS INSPECTION QA REQUIRED: YES [X] NO [ ] IF NO, ENTER JUSTIFICATION BELOW:

16. DOES NC AFFECT Q-LISTED ITEM(S): YES [ ] NO [X] *

17. IS NC REPORTABLE PER 50.55(e): YES [ ] NO [X]

18. IS NC REPORTABLE PER PART 21: YES [ ] NO [X]

19. IF YES, DATE & TIME OF REPORT TO NRC: NA

20. IF YES, WHO MADE REPORT TO NRC: NA

21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

22. NCR ORIGINATED BY:

23. WRITTEN REPLY REQUIRED BY: 3-15-79
TO ESTABLISH QA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: DRKeeley 3-1-79

25. PART QA DISPOSITION, VERIFICATION & COMPLETION DATE:
March 14, 1979 - Measurement of Welding Arc Voltage and Amperage Report #9 documentation corrected by retesting welder (P499) to revised procedure. Documentation verified on May 30, 1979.

26. DESIGN/PROJECT RES. ACTIV. REQ'D.: NA	27. PRO RES. ACTIV. REQ'D.: NA	28. PROCUREMENT RES. ACTIV. REQ'D.: NA	29. CONST. RES. ACTIV. REQ'D.: See Letter LAD: 914
30. FAB/CONSTR. RES. ACTIV. REQ'D.: See Letter LAD: 914	31. RES. OF THIS NCR ACTIVITY COMPLETED: NA	32. PCR FAILED YES • P.E. SUPV. RES. ACTIV. REQ'D.: NA	33. QA ACTIV. RES. TO BE COMPLETED REQ'D.:

34. DETAILS OF PART QA VERIFICATION:
Reviewed Measurement of Welding Arc Voltage and Amperage Report #9. 270 298

35. RES. OF DES. VERIF. FOR PART QA REJECTING CONDITION: See Letter LAD: 914	36. RES. VERIFIED PART QA • SIGN DAT APPROVAL DATE: 5/31/79	37. NCR CLOSED BY (DATE): (QA/QC) PROJECT QA COMPLETE: 5/31/79

*It is noted that the measurements were taken for welding on non-Q hardware and thus no Q-listed hareware was affected. CPCo QA involvement is due to a CPCo commitment to the NRC to address weld voltage and amperage checks for all machines on site. The identities or welders in non-Q areas could be used for Q-listed welding and, therefore, the (Over)

NCR SERIAL NO: M-01-4-9-030
DATE: 3-1-79
DATE OF REV: Closed 5-31-79
FILE NO: 16.3.4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Contd from Page 1)

Contrary to the above, Measurement of Welding Arc Voltage and Amperage Report #9 dated 2/23/79 does not indicate a voltage range specified for WPS P1-A-LH Rev 0. Therefore, no actual results were recorded for voltage. Further, the current range specified in Record #9 for P1-A-LH Rev 0 - 1/8" E7018 is incorrect and the recorded actual results of 85 amps is 30 amps out of range.

Additionally, WPS P1-T Rev 1 has been superseded by Rev 2 dated 1/16/79 and SCN #G-27-9002 issued 2/9/79. Therefore, the amperage and voltage range specified in incorrect.

CONSUMERS POWER COMPANY
RECEIVED
MAY 31 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640

May 25, 1979

Consumers Power Company
P.O. Box 1963
Midland, MI 48640

Attention: J.L. Corley

Job 7220 Midland Project
CPCo NCR No. M-01-4-9-030
Complete Response
LAD-914 Action Item-627

Dear Mr. Corley:

This letter is Bechtel's response to the referenced CPCo NCR which identified noncompliance to the arc voltage and amperage recording requirements of FPW 6.000 relevant to non-Q listed welding activities.

An investigation was made to evaluate the reported findings. The results are as follows:

1. Although interim approval for the change to P1-A-LH was given on February 5, 1979, the field engineer was unaware of this while performing his amperage and voltage checks on February 23, 1979. It should be noted that the formal approval of the revision to this procedure did not become effective until March 9, 1979.

2. The incorrect entry on the form has been revised to show the actual condition that was present when the survey was taken.

3. Although the SCN which changed the revision for P1-T Rev. 1 to P1-T Rev. 2 was written on February 9, 1979, it did not become effective until February 23, 1979 which was the same day the survey was taken. Therefore, there is no conflict in the voltage range which was used.

270 300

If you have any further questions, please contact my office.

Very truly yours,

L. A. Dreisbach
Project Quality Assurance
Engineer

LAD/RA/bjc
cc: W. Bird
B. Marguglio

JLC
DRK
SGM
PSK
JLZ
CE
FILE

7. X.133

Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

PAGE 1 of 2

6. PROJECT NAME: Midland	7. IDENTIFICATION PART NO: Welds WJ-2-4, WJ-2-3	8. IDENTIFICATION PART NAME: NA	1. NCR NUMBER NO: M-03-7-9-032
9. SERIAL NUMBER: NA	10. CSD. CONSTRUCTION NO: B&W CC	11. AREA/LOC. OF NC: Containment 2	2. DATE: 1-2-79
			3. DATE OF DISP: Closed 5-7-79
			4. PAGE NO: 16.4.4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION (GIVE DETAILS):

Welding current as listed on W119-1 Rev 3 is being exceeded in production welding of joints WJ-2-4 and WJ-2-3 (an example - on February 26, 1979 the volt amp record for weld WJ-2-4 shows that 195 amps was being used with 5/32 filler material. WIN 119-1 Rev 3 has an amperage range of 110-135 specified for 5/32 electrode diameter). This is not in conformance with B&W Quality Control Procedure 9-WP-100 Rev 6, paragraph 7.5.2 which states, in part, "The voltage, amperage.....shall be in accordance with the applicable WIN sheets".

5. DISTRIBUTION:

ACTION COPY:

RWShope

INFO COPY:

VNAsgaonkar JFNewgen
WRBird DATaggart
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AWDePatie
RHermeston
SHHowell
GSKeeley
BWMarguglio
PAMartinez
DBMiller

13. QA RECOMMENDATION FOR PART QA:

1. Review all voltage and amperage records 100% for similar discrepancies.
2. Provide assurance that discrepant welds are acceptable.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [ ] NOT REQUIRED [X]

14. HOLD TAGS APPLIED: YES [ ] NO [X] TAGGED, LOCATION & DATE OF HOLD TAGS APPLIED: NA

15. IS PROCESS QA REQUIRED: YES [X] NO [ ] IF NO, ENTER JUSTIFICATION BELOW:

16. DOES NC AFFECT S-LIST ITEM: YES [X] NO [ ]

17. IS NC REPORTABLE PER 50.55(e): YES [ ] NO [X]

18. IS NC REPORTABLE PER PART 21: YES [ ] NO [X]

19. IF YES, DATE & TIME OF NOTICE TO NRC: NA

20. IF YES, WHO MADE REPORT TO NRC: NA

21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

22. NCR INITIATED BY: R.O. Kaffenberger

23. VERIFICATION ACTIVITY REQUIRED BY: 3-16-79
TO ESTABLISH QA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: DKKunteng 3-2-79

25. PART QA DISPOSITION, VERIFICATION & COMPLETION DATE:

See attached letters.

26. DESIGN/PROJECT ENG. APPL. DISP.: NA	27. PRO ENG. APPL. DISP.: NA	28. PROCUREMENT APPL. DISP.: NA	29. APPL. OF ENG. APPL. FOR S/A: See Attached Letters
30. FAB/CONST. ENG. APPL. DISP.: NA	31. ENG. OF TEST PROOF ACCEPT. CONDITION: NA	32. FOR VALVE NCR - PROC. ENG. APPL. DISP.: NA	33. QA APPL. ENG. DISPOSITION: R.O. Kaffenberger

34. METHOD OF PART QA VERIFICATION:

Reviewed attached letters.

270 301

35. ENG. OF QA APPL. DATE FOR PART QA SATISFACTORY COMPLETION: See Attached Letters	36. ENG. VERIFICATION DATE QA & QUAL ENG REMOVAL DATE: 11 MAY 79 R.O. Kaffenberger	37. QA ENGINEER SIGNATURE DATE (PART A DISPOSITION COMPLETE): 11 MAY 79 R.O. Kaffenberger

1400

Babcock&Wilcox

B&W Construction Company
Copley, Ohio 44321
Telephone (216) 665-8841

RECEIVED
MAR 2 01979
BECHTEL POWER CORP.
JOB 7220
PER 5480.07.1A

March 15, 1979

Bechtel Power Corporation
P. O. Box 2167
Midland, Michigan 48640

SUBJECT: Subcontract 7220-M-1A
NSSS Erection
Response to Nonconformance
Report #M-03-4-9-032

Attention: J. F. Newgen

Serial: M-1A-(Q)-116

Dear Mr. Newgen:

Following is our response to Consumers Power Company's Nonconformance Report #M-03-4-9-032, dated March 2, 1979, please forward to Consumers Power Company's Quality Assurance:

We have reviewed all the voltage and amperage records for discrepancies. Those with discrepancies are limited to stainless welds, WJ31-1, WJ31-2, WJ2-1 and WJ2-2, as well as WJ2-3 and WJ2-4 which are listed on the subject Noncomformance Report, all others are satisfactory.

Weld records for WJ2-4 contain four (4) amperage readings between 175 and 195 amps. These were determined to be erroneous recordings and shall be deleted from the records. The other records and records for WJ2-4 contain readings such as 80 amps. for 3/32, 115 amps. for 1/8 and 155 amps. for 5/32 electrode.

The welding procedure (WIN-119-1) shall be reviewed to allow use of higher amperage for all referenced sizes of electrode.

However, the maximum amperage shall be limited to 145 amps. Welds WJ2-1 thru WJ2-4 and WJ31-1 which contain amp. readings from 145 to 155 amps. will be examined by P.T. both inside and outside surfaces, as well as R.T. to establish their acceptability.

We have instructed all concerned personnel of the importance in following procedural requirements.

270 302

Babcock & Wilcox

In addition we have referred this matter to our Quality Assurance Organization for their consideration of possible procedural revisions to further assure compliance with procedure 9-WP-100.

If you have any further questions concern. .he above, please contact me.

Very truly yours,

R W Shope

R. W. Shope,
B&WCC Q.C. Supervisor

RWS/dbc

cc: A. W. DePatie
C. D. Thompson
V. N. Asgaonkar
File

270 303

Consumers Power Company

Midland Project: P.O. Box 1963, Midland, Michigan 48640 · Area Code 517 631-0951

March 28, 1979

Mr. J. F. Newgen
Bechtel Power Corporation
P.O. Box 2167
Midland, MI 48640

MIDLAND PROJECT - CPCO NCR M-03-4-9-032
B&W CC LETTER M-1A-(Q)-116
File: 16.4.4 Serial: 108FQA79

The Babcock & Wilcox Construction Company's response to Consumers Power Company NCR M-03-4-9-032 is not acceptable based on the following omissions or inadequacies.

1. The voltage and amperage records for the pipe whip restraint lug to embed welds were apparently not reviewed and assurance of acceptability provided as required by Block 13 of the subject NCR.

2. For the discrepant stainless steel welds to be acceptable, B&W CC must provide assurance that the maximum allowable heat input was not exceeded as well as meeting the NDE Acceptance Criteria.

3. A firm commitment as to when the process corrective action specified in Block 41, Item 2 of the subject NCR will be forthcoming is required.

A response to this letter to establish completion dates for these actions is required by April 25, 1979.

RGWalbney

J. L. Corley
Section Head - IE&TV, Midland

JLC/KOR

CC VNAsgaonkar GSKeeley DBMiller
WRBird BWMarguglio LFStornetta
TCCooke PAMartinez CDThompson

270 304

Babcock&Wilcox

B&W Construction Company

Copley, Ohio 44321
Telephone: (216) 666-8841

April 23, 1979

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

SUBJECT: Subcontract 7220-M-1A
NSSS Erection
Response to Nonconformance
Report M-03-4-9-032 and
Letter #108FQA79

Attention: J. F. Newgen

Serial: M-1A-(Q)-121

APR 26 1979

BECHTEL POWER CORP.
JOB 7220
PER 575(Q) M-1A

Dear Mr. Newgen:

Following is our response to Consumers Power Company's Nonconformance Report #M-03-4-9-032, dated March 2, 1979, and Mr. J. L. Corley's letter #108FQA79, dated March 28, 1979, please forward to Consumers Power Company's Quality Assurance.

The voltage and emperage records for pipe whip restraint lug to embed welds were reviewed and found to be acceptable. Due to no requirement in the AWS Welding Code that amperage and voltage is an essential variable. There were very few voltage and amperage measurements recorded. However, during periodic checks made by the welding supervisor the welding was found to be acceptable. Only stainless steel weld joints noted in my letter dated March 15, 1979, are welds in which the amperage limits were exceeded. Due to the carbon steel welding procedures having a much higher amperage range, problems were found with any carbon steel welds.

Attached is a letter dated April 17, 1979, from J. Derrico, which provides assurance that the maximum allowable heat input was not exceeded. The actual travel speed for WJ2-4 was checked and recorded as ten (10) inches per minute on the voltage and amperage record by the welding supervisor on February 28, 1979.

270 305

Babcock & Wilcox

The welding procedures were revised as specified, in the subject Nonconformance Report and were transmitted for your approval on April 20, 1979.

If you have any further questions concerning the above, please contact me.

Very truly yours,

RW Shope

R. W. Shope,
B&W CC Supervisor

RWS/dbc
Attachment

cc: A. W. DePatie, w/o
C. D. Thompson, w/o
V. N. Asgaonkar, /wo
File, w/o

270 306

BABCOCK & WILCOX COMPANY
ER GENERATION GROUP

R. W. SHOPE - P.O. BOX 1984
MIDLAND, MI 48640

From

J. DERRICO
QUALITY ASSURANCE

BOS 663-6

Cust.

CONSUMERS POWER COMPANY

File No. or Ref.

NSS-12&13

Subj.

NCR M-03-4-9-032 DATED 3/2/79
HEAT INPUT ON STAINLESS STEEL WELDS

Date

APRIL 17, 1979

This letter to cover one customer and one subject only.

The subject NCR addresses the acceptability of stainless steel welds made by B&W Construction Company at amperages above those listed on the applicable Welding Instruction Sheet. According to T. W. Davis, Field Welding Supervisor, the welds in question were made with a maximum of 155 amps and not 195 amps as recorded for weld WJ-2-4. Based on 155 amps, the data below shows that these welds are acceptable.

1. The B&W response to Regulatory Guide 1.44 dated May, 1973 indicates that we would observe a maximum heat input of 60,000 joules/inch for welding austenitic stainless steels. Using the formula Voltage X Amperage X 60/Travel Speed, and using the maximum value for voltage (26) and minimum value for travel speed (8) for 5/32" electrode shown on WIN 119-1 Rev. 3, the maximum heat input possible at 155 amps is 30,225 joules/inch. Since neither the maximum voltage nor the minimum travel speed was used for the welds in question, it does not appear that 60,000 joules/inch could have been exceeded.

2. Also, please note that travel speed proportionately has a much greater effect on heat input than excessive amperage. Suppose the subject welds had been made at 195 amps instead of 155, but the travel speed was increased to 10 inches/minute instead of 8. The heat input would then be 30,420 joules/inch or about the same as before. Therefore, in this particular case, as long as the minimum travel speed of 8 inches/minute was maintained, there was no chance of excessive heat input.

If there are any further questions, please contact me.

Jim Derrico

B&W Construction Company

JD:ce

CC: R. C. Sulzer

270 307

4/4 X 134

Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

PAGE 1 OF 2

6. PROJECT NAME:	7. NONCONFORMING PART NO:	8. NONCONFORMING PART NAME:	1. NCR SERIAL NO: M-01-4-0-033
Midland	NA	In-Process Inspections	2. DATE: 3-5-79
9. SERIAL NUMBER: NA	10. ORG. CONSTRUCTION NO: Bechtel QC	11. AREA/LOC. OF NC: NA	3. DATE OF NCR: Closed 5-2-79
			4. TASK NO: 16.3.6

12. "AS IS" NONCONFORMING CONDITION WITHOUT "AS REQUIRED" DISPOSITION WITH DATA:

Review of QCIR's for hangers 2FCB-28-A1 and 1CCB-2-A1 indicates the hangers have not received prerequisites or in-process inspection activities as required by QCI 7220/P-2.10.

5. DISTRIBUTION

ACTION COPY:

LADreisbach

INFO COPY:

WLBarclay	JMilandin
WRBird	DBMiller
TCCooke	WGMoring
JLCorley	JFNewgen
RHermeston	RASimanek
SHHowell	DATaggart
DRJohnson	
GSKeeley	
BWMarguglio	
PAMartinez	

13. QA RECOMMENDATION FOR PART 21:

1. Perform in-process inspection on subject hangers.
2. Review similar installations for similar problems and document.
3. Devise and implement program to preclude recurrence.

DESIGN/PROJECT ORG. DISPOSITION REQUIRED [ ] NOT REQUIRED [X]

14. HOLD TAGS APPLIED: YES [ ] NO [X] TAGGED, LOCATION & DATE OF HOLD TAGS APPLIED: NA

15. IS PROGRAM QA REQUIRED: YES [X] NO [ ] IF NO, ENTER JUSTIFICATION BELOW:

16. DOES NC AFFECT Q-LIST ITEM: YES [X] NO [ ]

17. IS NC REPORTABLE PER 50.55(e): YES [ ] NO [X]

18. IS NC REPORTABLE PER PART 21: YES [ ] NO [X]

19. IF YES, DATE & TIME OF REPORT TO NRC: NA

20. IF YES, WHO MADE REPORT TO NRC: NA

21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

22. NCR ORIGINATED BY: [signature] 3-5-79

23. WRITTEN NCR ROUTED BY: 3-20-79

TO ESTABLISH QA CONCLUSION DATE

24. SUPERVISOR'S SIGNATURE/DATE: [signature] 3-5-79

25. PART QA DISPOSITION, JUSTIFICATION & CONCLUSION DATE:

1. In-process inspections on subject hangers have been performed and documented on the respective QCIR's.
2. QC is presently performing, on an ongoing basis, a review of all hanger documentation and resolving problems in accordance with the QC program.
3. To preclude recurrence of this problem, on 4-5-79 a new program was devised and implemented. The new program will assure QCIR's are generated and properly implemented in a timely manner with the work schedule.

26. DESIGN/PROJECT ORG. ACTIV. DISP.:	27. IND ORG. ACTIV. DISP.:	28. PROCUREMENT ORG. ACTIV. DISP.:	29. ORG. OF ORIG. RESP. QA ACTIV.:
NA	NA	NA	LAD: 838, Action Item 621
30. FAB./CONST. ORG. ACTIV. DISP.:	31. ORG. OF NEXT HIGH ACTIVITY CONCLUSION:	32. OTH MAJOR ORG - FAB. CONST. ORG. ACTIV. DISP.:	33. QA ACTIV. ORG. TO IMPLEMENT DISP.:
NA	NA	NA	

34. METHOD OF PART QA VERIFICATION:

Reviewed actions delineated in block 25 and the actions are considered satisfactory.

35. ORG. TO IMP. DISP. FOR PART QA ACTIVITIES NON-CONCURRENCE:	36. [illegible]	37. [illegible]
LAD: 838, Action Item 621	[signature] 5-7-79	[signature] 5-7-79

CONSUMERS POWER COMPANY
RECEIVED
MAY 2 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640

April 26, 1979

Consumers Power Company
P.O. Box 1963
Midland, MI 48640

Attention: J. L. Corley

Job 7220 Midland Project
CPCo NCR M-01-4-9-033
Complete Response
LAD: 838 Action Item: 621

Dear Mr. Corley:

This is Bechtel's complete response to your NCR M-01-4-9-033 which identified a reported noncompliance with Bechtel's QCI 7220/P-2.10 covering in-process inspection of pipe supports Nos. 2FCB-28-A1 and 1CCB-2-A1.

In-process inspections have been performed by QC and the results documented on the applicable QCIRs for hangers 2FCB-28-A1 and 1CCB-2-A1.

A QC review of all hanger documentation is currently being performed, assuring that any similar problems existing will be recognized and resolved in accordance with the Quality Control program.

To preclude recurrence of this problem, on March 5, 1979 a new method was devised and implemented. This new method will assure that QCIRs are generated and properly implemented in a timely manner with the work schedule as provided by construction supervision.

The old method was dependent on construction's completed work, i.e., supports that were completed and ready for QC inspection.

270 309

The new method is dependent on construction's scheduled work list, i.e., a schedule of the supports to be erected or fabricated.

If you need any additional information, please feel free to contact Bob Ablondi at ext. 390.

Very truly yours,

L. A. Dreisbach
Project Quality Assurance
Engineer

LAD/HA/bjc

cc: W. Bird
B. Marguglio

Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

6. PROJECT NAME:	7. DESCRIPTION PART NO:	8. DESCRIPTION PART NAME:	1. NCR SERIAL NO:
Midland	See Below	High Current Test Set & MCC Circuit Breakers	M-QA-C-9-047
9. SERIAL NUMBER:	10. QTY. CONCERNED NO:	11. LOCATION OF NCR:	2. DATE: 4-26-79
See Below	CPCo Project Testing	El 614' & 685' Aux Bldg	3. DATE OF DISCOVERY: 4-26-79
			4. CODE 50.55: 10.2

12. "AS IS" DESCRIPTION/NCR CONDITION (INCLUDE "AS OBSERVED" CONDITION WITH NCR#):

During routine calibration by System Protection & Laboratory Services of the EIL High Current Test Set (Co No 3742-00529), it was noted that the unit was found out-of-tolerance.

The specified accuracy of subject M&TE is ± 5.0% FS, however from 60% to 100% of meter range an additional 2.5% FS error was measured.

The following molded case circuit breaker trip settings were set with this Test Unit:

2B5518	2B5529	0B4525	0B4629
2B5519	2B5536	0B4625	0B4631

5. DISTRIBUTION

ACTION COPY:
JTPride

INFO COPY:
WRBird
TBriningstool
RClipper
JLCorley
SHHowell
PWJacobsen
GSKeeley
BWMarguglio
DBMiller
WSSchoeppach
WShotwell

13. QA IDENTIFICATION FOR PART OR:

Adjust and recalibrate subject M&TE to specified accuracy and reset the trip times of suspect circuit breakers.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED: ☐ NOT REQUIRED: ☒

14. HOLD TAGS APPLIED: YES ☒ NO ☐ TAG#, LOCATION & DATE OF HOLD TAGS APPLIED: Three (3) MCC 2B55, 0B45 & 0B46, Aux Bldg el 614' & 685'

15. IS PROCESS CA REQUIRED: YES ☐ NO ☒ IF NO, ENTER JUSTIFICATION BELOW:

System Protection & Laboratory Services identified the out-of-tolerance M&TE in accordance with Procedure No SPLS-07 Paragraph 5.4.1.

16. DOES DC AFFECT 4-DIGIT ITEM: YES ☒ NO ☐	17. IS DC REPORTABLE PER 50.55(e): YES ☐ NO ☒
18. IS DC REPORTABLE PER PART 21: YES ☐ NO ☒	19. IF YES, DATE & TIME OF REPORT TO NRC: NA
20. IF YES, WAS NCR REPORT TO NRC: NA	21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

22. DOC GENERATED BY:	23. VERIFIED HOLD REMOVED BY: 5-2-79	24. SUPERVISOR'S SIGNATURE/DATE:
M.J. Schaefer	TO ESTABLISH CA COMPLETION DATE	M.J. Schaefer 4/26/79

25. POST CA DISPOSITION, VERIFICATION & COMPLETION DATE:

The calibration of the suspect molded case circuit breakers will be checked and they will be re-calibrated if necessary.

The subject circuit breaker acceptance criteria was unaffected by the additional 2½ FS error. M&TE has been re-calibrated within specified tolerances. 4/27/79

26. DESIGN, PROJECT ENG. APPR. DISP.:	27. PAC REP. APPR. DISP.:	28. DEPARTMENT MGR. APPR. DISP.:	29. QA SUP. OF QUAL. APPR. DISP.:
NA	NA	NA	NA
30. FAB/CONST. REP. APPR. DISP. DISP.:	31. QA SUP. OF TEST GROUP ACCEPT. CONCURRENCE:	32. QCA MGR. OR A DES. CONTR. REP. APPR. DISP.:	33. QA APPR. REQ. TO CLOSE/REJ.:
NA	[illegible] 4/27/79	NA	M.J. Schaefer 4/27/79

34. DETAILS OF POST CA VERIFICATION:

Reviewed breaker acceptance limits. (See attached from Project Testing)

270 311

35. QCA SUP. OF QUAL. REVIEW FOR PART 21A REPORTING CONSIDERATION:	36. QCA VERIFICATION POST CA & CLOSE OUT REVIEWAL DATE:	37. NCR CLOSED TO SITE (POST & PRIOR CA COMPLETE):
See Attached Memo from TJWojcik	M.J. Schaefer	M.J. Schaefer 4/27/79

Mike Schaeffer

QA-PE&C

FROM CONSUMERS POWER COMPANY
ECO/Testing
Attachment to
CPCo NCR M-01-6-9-04

ATTN Ted J. Wojcik

SUBJECT NONCONFORMANCE REPORT - REPLY

DATE 5/2/79

MESSAGE

In reference to breakers listed in 12. page 1 of NCR #M-01-6-9-047, it was found that the additional error of 2.5% F.S applied to the measurements taken would keep the breakers within the limits of the Acceptance Criteria. Therefore, no action will be taken on said breakers. E.I.L. Test Set has been recalibrated and is due April 18, 1980

SIGNED Ted J Wojcik

REPLY

Thank you for your prompt response

DATE 5/2/79

SIGNED M. J. Schaeffer

Send white and pink copies with carbons intact to recipient. Pink copy to be returned with reply. Yellow copy retained by sender.

270 312

0

Consumers Power Company

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

"AS IS" CONDITION VERSUS "AS REQUIRED"/"AS NEEDED" CONDITION WITH REFERENCES:

1. Hanger 611-6-22 (2FCB-22-H19) contain additonal welds not shown on the drawings.

   a. This is contrary to requirements of Spec M-326, paragraph 4.2.5 which states in part, "Additional welds not shown on drawings require field engineering approval prior to final acceptance".

AFR SER NO: M-01-14-9-01

PROJ/DEPT AUDITED: BPC Hangers

DATE OF ORIGINATION: 3-30-79

FILE NUMBER: 18.4.3.4, 18.4.3.6

DISTRIBUTION:

WLBarclay, WRBird, TCCooke, JLCorley, LADreisbach, RHermeston, SHHowell, DRJohnson, GSKeeley, BWMarguglio, PAMartinez, JMilandin, DBMiller, WGMoring, JFNewgen, RASimanek, DATaggart

RECOMMENDED CORRECTIVE ACTION:

1. Bechtel to review subject drawings and respond with corrective action or
2. Provide clarification to the Grinnell weld symbol "Typical" which could allow local interpretations of required welds to vary.

CORRECTIVE ACTION COMMITMENT:

Bechtel QA to respond by 5-25-79.

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A:

PERSON MAKING C/A COMMITMENT: R Ablondi

METHOD OF VERIFICATION:

IS AF REPORTABLE PER 50.55(e): YES [ ] NO [X]

IF "YES", DATE OF REPORT TO NRC: NA

IF "YES", TIME OF REPORT TO NRC: NA

IF "YES", WHO MADE REPORT: NA

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

270 313

AFR ORIGINATOR'S SIGNATURE: S H Howell 5-15-79

SUPERVISOR'S SIGNATURE: [illegible] 5/15/79

C/A VERIFICATION SIGNATURE:

VERIFICATION TYPE:

Consumers Power Company

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

AS "IS" CONDITION VERSUS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCES:

1. Review of hanger drawings 603-6-18 and 612-3-24 indicates that each drawing contains the statement, "Weld only on longitudinal axis of existing member".

   a. However, each drawing contains a weld that is 90° to the longitudinal axis of the existing member.

   b. Review of the installed hangers confirms that the 90° welds are installed as the drawings indicate.

AFR SER NO: M-01-14-9-02

PROJ/DEPT AUDITED: BPC Hangers

DATE OF GRADUATION: 3-30-79

FILE NUMBER: 18.4.3.4, 18.4.3.6

DISTRIBUTION:

WLBarclay, WRBird, TCCooke, JLCorley, LADreisbach, RHermeston, SHHowell, DRJohnson, GSKeeley, BWMargulio, PAMartinez, JMilandin, DBMiller, WGMoring, JFNewgen, RASimanek, DATaggart

RECOMMENDED CORRECTIVE ACTION:

1. Bechtel to review subject drawings, determine generic implications, and respond with corrective action or provide clarification to the stated conditions.

CORRECTIVE ACTION COMMITMENT:

Bechtel QA to respond by 5-25-79

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A:

PERSON MAKING C/A COMMITMENT: R Ablondi

METHOD OF VERIFICATION:

IS AFR 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", WHO MADE REPORT: NA

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

270 314

AFR ORIGINATOR'S SIGNATURE: 5-15-79

SUPERVISOR'S SIGNATURE: 5/15/79

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:

Consumers Power Company

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

"AS IS" CONDITION VERSUS "AS REQUIRED"/"AS NEEDED" CONDITION WITH REFERENCES:

1. Pipe clamp located on hanger 1CCB-13-H14 (1-60[illegible]-5-7) requires torquing to 15.528 ft lbs.

   a. As a practical matter, this requirement cannot be attained with available equipment, nor has any tolerances been established.

AFR SER NO: M-01-14-9-03

PROJ/DEPT AUDITED: BPC Hangers

DATE OF ORIGINATION: 3-30-79

FILE NUMBER: 18.4.3.4, 18.4.3.6

DISTRIBUTION:
WLBarclay, JFNewgen, WRBird, RASimanek, TCCooke, DATaggart, JLCorley, LADreisbach, RHermeston, SHHowell, DRJohnson, GSKeeley, BWMarguglio, PAMartinez, JMilandia, DBMiller, WGMoring

RECOMMENDED CORRECTIVE ACTION:

1. Bechtel Engineering to review subject requirements on hanger drawings and, where applicable, provide an acceptable range of torque values. This action will provide necessary acceptance/rejection criteria.

CORRECTIVE ACTION COMMITMENT:

Bechtel has provided acceptance/rejection criteria. However, this finding will remain open until the acceptance/rejection criteria has been incorporated into the installation and inspection phase of construction. Criteria will be incorporated or an interim response will be provided by 5-25-79.

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A:

PERSON MAKING C/A COMMITMENT: R Ablondi

METHOD OF VERIFICATION:

IS AF REPORTABLE PER 10.55(e): YES [ ] NO [X]

IF "YES", DATE OF REPORT TO NRC: NA

IF "YES", TIME OF REPORT TO NRC: NA

IF "YES", WHO MADE REPORT: NA

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

AFR ORIGINATOR'S SIGNATURE: [signature] 5-15-79

SUPERVISOR'S SIGNATURE: [signature] 5-15-79

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:

270 315

Consumers Power Company

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

"AS IS" CONDITION VERSUS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCES:

Paragraph 7.1.5 of FPD-1.100 Rev 0 states in part, "If there is a drawing revision, the old is collected from the individual and replaced with the new revision. The old revision is destroyed or marked "Void".

Contrary to the above, drawing E-608 Rev 12 and E-608 Rev 11 were both in the possession of Mr Kienbaum and Rev 11 was not marked "Void".

Mr Lupo had drawing M-532 Sh 1, Rev 2 in his possession and it should have been Rev 3.

AFR SER NO: M-01-16-9-01

PROJ/DEPT AUDITED: Bechtel Document Contro

DATE OF ORIGINATION: 5-22-79

FILE NUMBER: 18.4.3.4

DISTRIBUTION:
WRBird
TCCooke
JLCorley
LADreisbach
RHermeston
SHHowell
GSKeeley
BWMarguglio
JMiladin
DBMiller
JFNewgen
DATaggart
TValenzano

RECOMMENDED CORRECTIVE ACTION:

It is recommended that FPD-1.100 be revised to clearly indicate who will be responsible for marking void or destruction of old revision of drawings.

CORRECTIVE ACTION COMMITMENT:

Interim response will be provided by June 1, 1979.

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A: Document Control

PERSON MAKING C/A COMMITMENT: T Valenzano

METHOD OF VERIFICATION:

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", WHO MADE REPORT: NA

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

270 316

AFR ORIGINATOR'S SIGNATURE: Edgar A Jones

SUPERVISOR'S SIGNATURE: 5/23/79

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:

0

Consumers Power Company

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

"AS IS" CONDITION VERSUS "AS REQUIRED"/"AS NEEDED" CONDITION WITH REFERENCES:

Paragraph 6.1 FPD-1.100 Rev 0 states in part, "Work prints differ from other controlled drawings on the jobsite in that they are not consigned to a specific location, but rather to construction personnel".

Contrary to the above, Mr Terry is missing drawing E-619 Sh 1, Rev 8 and one copy of drawing E-618 Sh 2 that was issued to him.

Mr Clements is missing drawing M-513 Sh 1, Rev 2 that was issued to him.

AFR SEQ NO: M-01-16-9-02

PROJ/DEPT AUDITED: Bechtel Document Contro

DATE OF ORIGINATION: 5-22-79

FILE NUMBER: 18.4.3.4

DISTRIBUTION:
WRBird
TCCooke
JLCorley
LADreisbach
RHermeston
SHHowell
GSKeeley
BWMarguglio
JMilandin
DBMiller
JFNewgen
DATaggart
TValenzano

RECOMMENDED CORRECTIVE ACTION:

It is recommended that action be taken to make construction personnel who are allowed to request work prints more aware of their responsibility.

CORRECTIVE ACTION COMMITMENT:

DATE OF C/A COMPLETION: 6-08-79

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A: Bechtel Construction

PERSON MAKING C/A COMMITMENT: O H Holman

METHOD OF VERIFICATION:

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", WHO MADE REPORT: NA

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

270 317

AFR ORIGINATOR'S SIGNATURE:

SUPERVISOR'S SIGNATURE: 5/23/79

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:

Consumers Power Company

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

"AS IS" CONDITION VERSUS "AS REQUIRED"/"AS NEEDED" CONDITION WITH REFERENCES:

Paragraph 3.2.1.3 of TPD-1.000 Rev 5 requires that the new drawing sign-off sheets be routed to the responsible engineers and superintendents for review and verification along with an uncontrolled print of the drawing.

Contrary to the above, Superintendent Corder was listed on the new drawing sign-off sheet for drawing M-514 Rev 3 but did not initial to indicate he had seen the sheet.

A total of eight new drawing sign-off sheets were checked by the auditor from the 98 drawings being tracked.

AFR SER NO: M-01-16-° 03

PROJ/DEPT AUT: Bechtel Document Contro

DATE OF ORIGINATION: 5-22-79

FILE NUMBER: 18.4.3.4

DISTRIBUTION:
WRBird
TCCooke
JLCorley
LADreisbach
RHermeston
SHHowell
GSKeeley
BWMarguglio
JMilandin
DBMiller
JFNewgen
DATaggart
TValenzano

RECOMMENDED CORRECTIVE ACTION:

It is recommended that Superintendent Corder initial the new drawing sign-off sheet if he did review it and, if not, the name should be lined out and initialed by the Document Control Supervisor.

CORRECTIVE ACTION COMMITMENT:

DATE OF C/A COMPLETION: 6-08-79

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A: Bechtel Construction

PERSON MAKING C/A COMMITMENT: O H Holman

METHOD OF VERIFICATION:

IS AF REPORTABLE PER 50.55(e)? YES ☐ NO ☒

IF "YES", DATE OF REPORT TO NRC: NA

IF "YES", TYPE OF REPORT TO NRC: NA

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED: NA 270 518

IF "YES", WHO MADE REPORT: NA

AFR ORIGINATOR'S SIGNATURE: Stephen L Jones

SUPERVISOR'S SIGNATURE: [signature] 5/22/79

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:

0

Consumers Power Company

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

"AS IS" CONDITION VERSUS "AS REQUIRED"/"AS NEEDED" CONDITION WITH REFERENCES:

Paragraph 4.0, FPD-3.000 Rev 2 requires Document Control to perform a monthly audit of work prints.

Contrary to the above, no documentary evidence was found that an audit was conducted in March 1979.

AFR SER NO: M-01-16-9-04

PROJ/DEPT AUDITED: Bechtel Document Control

DATE OF ORIGINATION: 5-22-79

FILE NUMBER: 18.4.3.4

DISTRIBUTION:
WRBird
TCCooke
JLCorley
LADreisbach
RHermeston
SHHowell
GSKeeley
BWMarguglio
JMilandin
DBMiller
JFNowgen
DATaggart
TValenzano

RECOMMENDED CORRECTIVE ACTION:

It is recommended that the individual responsible for the monthly audit of work prints initiate a suspense file on recurring reports such as the monthly audit.

CORRECTIVE ACTION COMMITMENT:

DATE OF C/A COMPLETION: 6-08-79

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A: Document Control

PERSON MAKING C/A COMMITMENT: T Valenzano

METHOD OF VERIFICATION:

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: NA

IF "YES", WHO MADE REPORT: NA

270 319

AFR ORIGINATOR'S SIGNATURE: Dolph L Jones

SUPERVISOR'S SIGNATURE:

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:

0

Consumers Power Company

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

"AS IS" CONDITION VERSUS "AS REQUIRED" /"AS NEEDED" CONDITION WITH REFERENCES:

Paragraph 7.1.3 FPD-1.100 Rev 0 states in part, "Reproduction of the applicable addenda will be attached to the 'work prints'."

Contrary to the above, attachments were missing from drawings as indicated below:

Work Print No	Issued To	Finding
M-410 Rev 8	Gustafson	DCN #12 Missing
M-457 Sh 5 Rev 2	Grahl	DCN #2 Missing
E-607 Rev 14	Kienbaum	FCR-E1657 Missing
M-457 Sh 1 Rev 2	Wigham	P&ID Sheet Missing
M-405 Sh 1 Rev 7	Lupo	P&ID Sheet Missing

AFR SER NO: M-01-16-9-05

PROJ/DEPT AUDITED: Bechtel Document Contro

DATE OF ORIGINATION: 5-22-79

FILE NUMBER: 18.4.3.4

DISTRIBUTION:

WRBird
TCCooke
JLCorley
LADreisbach
RHermeston
SHHowell
GSKeeley
BWMarguglio
JMilandin
DBMiller
JFNewgen
DATaggart
TValenzano

RECOMMENDED CORRECTIVE ACTION:

It is recommended that correct addenda be obtained and attached to the drawings indicated. It is further recommended that responsible individuals be instructed to not remove addenda from the drawings.

CORRECTIVE ACTION COMMITMENT:

DATE OF C/A COMPLETION: 6-08-79

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A: Bechtel Construction

PERSON MAKING C/A COMMITMENT:

METHOD OF VERIFICATION:

IS AN 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: NA

IF "YES", WHO MADE REPORT: NA

270 320

AFR ORIGINATOR'S SIGNATURE: Esther A Jones

SUPERVISOR'S SIGNATURE: 5/23/79

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:

Consumers Power Company

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

"AS IS" CONDITION VERSUS "AS REQUIRED"/"AS NEEDED" CONDITION WITH REFERENCES:

FPG-4.000, "Storage-Maintenance/Inspection of Equipment and Materials" 6.1 states, "...Items shall retian identification for retrievability, as applicable to the nature and use of the material". Also, 6.4.3 states, "Q-listed items, or their containers or external covers, or their storage area, shall be plainly marked so that they are easily identified without excessive handling..."

Contrary to the above shims and anchorheads and bushings in Warehouse #1 and #2, respectively, were not identified.

AFR SER NO: M-01-17-9-01

PROJ/DEPT AUDITED: Bechtel Const & QC

DATE OF ORIGINATION: 5-31-79

FILE NUMBER: 18.4.3.6

DISTRIBUTION:

LADreisbach

WLBarclay, WRBird, TCCooke, JLCorley, RHermeston, SHHowell, DRJohnson, GSkeeley, BWMarguglio, PAMartinez, JMilandin, DBMiller, WGMoring, JFNewgen, RASimanek, DATaggart

RECOMMENDED CORRECTIVE ACTION:

Identify materials in accordance with FPG-4.000 6.1 and 6.4.3 by June 14, 1979.

CORRECTIVE ACTION COMMITMENT:

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A: Bechtel Construction

PERSON MAKING C/A COMMITMENT: NA

METHOD OF VERIFICATION:

270 321

IS AF REPORTABLE PER 50.55(e): YES [ ] NO [X]

IF "YES", DATE OF REPORT TO NRC: NA

IF "YES", TIME OF REPORT TO NRC: NA

IF "YES", WHO MADE REPORT: NA

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

AFR ORIGINATOR'S SIGNATURE: [signature]

SUPERVISOR'S SIGNATURE: [signature] 5/31/79

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:

Consumers Power Company

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

"AS IS" CONDITION VERSUS "AS REQUIRED"/"AS NEEDED" CONDITION WITH REFERENCES:

FPG-4.000, 2.0 states, "...The use of this procedure shall commence after the delivery of an item and will continue through the storage period". 7.0 states, "Information for storage-maintenance/inspection of material and equipment is provided by preparing the dual purpose storage-maintenance/inspection form(s) (F-1/F-2) for a given item or group of items".

F-1-566 storage information for coiled tendon wires for containment 1 and 2 post-tensioning system, anchorheads, bushings, and shims requires, 1.0 "Initial Storage Activities" and 2.0 "Maintenance and Storage Activities" (at 30 day intervals).

Contrary to the above, shims in Warehouse #1, and anchorheads and bushings in Warehouse #2 had not been inspected initially nor at the 30 day intervals, as of May 23, 1979. Shims had been released for storage 2-15-79, and anchorhead and bushings had been released 3-28-79.

AFR SER NO: M-01-17-9-02

PROJ/DEPT AUDITED: Bechtel Const & QC

DATE OF ORIGINATION: 5-31-79

FILE NUMBER: 18.4.3.6

DISTRIBUTION:

LADreisbach

WLBarclay, WRBird, TCCooke, JLCorley, RHermeston, SHHowell, DRJohnson, GSKeeley, BWMarguglio, PAMartinez, JMilandin, DBMiller, WGMoring, JFNewgen, RASimanek, DATaggart

RECOMMENDED CORRECTIVE ACTION:

As the anchorheads and bushings have been inspected May 24, 1979 (F-2-10906), inspect shims as required per F-1-566 and determine root cause of not identifying items to be inspected (method of notification to Material Storage Supervisor) and take corrective action to preclude repetition. Respond to this by June 14, 1979.

CORRECTIVE ACTION COMMITMENT:

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A: Bechtel Const & QC

PERSON MAKING C/A COMMITMENT:

METHOD OF VERIFICATION:

270 322

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: NA

IF "YES", WHO MADE REPORT: NA

AFR ORIGINATOR / TITLE: [signature]

SUPERVISOR'S SIGNATURE: [signature] 5/31/79

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:

0

CORRECTIVE ACTION REPORT

(1) Unit S/U System Discip Serial: 1-PKA-E-200

(2) Description of Deficiency

A. 1D10 PANEL DC AMPMETER ELEMENTS ARE OPEN; NO DEFLECTION.

B. 1D17 BATTERY CHARGER DC AMPMETER DOES NOT MEET 2% ACCEPTANCE CRITER

☐ (√) Con't on Attachment

(3) Recommended Corrective Action and Retest

A. REPLACE METER

B. RECALIBRATE OR REPLACE

☐ (√) Con't on Attachment

(4) Related Documents and References

a) See ATTACHED SHEETS

b) Tech. Spec. E-11

(5) ☒ Deficiency ☐ Design Chg ☐ Troubleshoot ☐ Maintenance ☐ Retest Only

(6) Initial: B.P.C

Action Subsequent:

(7) Cause: .02

Category: .05

☐ Retest Req ☒ Q-Listed

NRC Reportability 10CFR50.55e (8)

☐ Not Reportable Patrick P. Davis 5/10/79

☐ Reportable; QA Notified _____ Name _____ Date

(9)

Signature	Date	Time
Orig: B.R. DeZeeuw	5-10-79	1945
FE/TE: [illegible]	5/10/79	1945
PS/PTS: [illegible]	5/11/79	1020

(10) Corrective Action or Response:

270 323

Action Organization Representative

Date

CONSUMERS POWER COMPANY
RECEIVED
MAY 14 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

(11) Retest Complete — Date

TE:

Completion Review Signature — Date

QA:

TE:

PS/PTS:

☐ (√) Con't on Attachment

cc PPD
READING
ASP

CORRECTIVE ACTION REPORT

(1) Unit S/U System Discip Serial: 1 - PKB - E - 200

(2) Description of Deficiency

A.) 1D20 PANEL DC VOLTMETER DOES NOT FALL WITHIN 1.% ACCEPTANCE CRITERIA

B.) 1D20 PANEL DC AMMETER IS OPEN - NO DEFLECTION FOR ANY APPLIED mV.

☐ (√) Con't on Attachment

(3) Recommended Corrective Action and Retest

A.) RECALIBRATE OR REPLACE DC VOLTMETER

B.) REPLACE DC AMMETER

☐ (√) Con't on Attachment

(4) Related Documents and References

E58(Q) SEE TECH. SPEC. E13

SEE ATTACHED SH.

(5) ☒ Deficiency ☐ Design Chg ☐ Troubleshoot ☐ Maintenance ☐ Retest Only

(6) Initial: B,P,C

Subsequent Actions:

(7) Cause: 0,2

Category: 0,5

☐ Retest Req ☒ Q-Listed

NRC Reportability 10CFR50.55e

☒ Not Reportable — Patrick P. Sena 5/10/79 (8)

☐ Reportable; QA Notified _____ Name _____ Date

(9)

Signature	Date	Time
Orig: D. Sartain	5/10/79	0900
FE/TE: [illegible]	5/10/79	1045
PS/PTS: [illegible]	5/11/79	1020

(10) Corrective Action or Response:

270 324

CONSUMERS POWER COMPANY
RECEIVED
MAY 14 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

Action Organization Representative _____ Date _____

(11) Retest Complete TE: _____ Date _____

Completion Review Signature — Date

QA: _____

TE: _____

PS/PTS: _____

☐ (√) Con't on Attachment

CC PPD
NSP - QUALS
READING

CORRECTIVE ACTION REPORT

(1) Unit S/U System Discip Serial: 2 - EGA - M - 005

(2) Description of Deficiency: THE PENETRATION PRESSURIZATION PIPING TO THE COMPONENT COOLING WATER SUPPLY VALVE 2MO-1760 TO UNIT 2 CONTAINMENT IS CONNECTED (WELDED) TO THE LOWER CLOSURE FLANGE PIPE INSTEAD OF THE PIPE PLUG ON THE YOKE BONNET AS SHOWN IN M120-37-5.

☐ (√) Con't on Attachment

(3) Recommended Corrective Action and Retest

☐ (√) Con't on Attachment

(4) Related Documents and References

VENDOR PRINT 7220-M120-37-5

(5) ☒ Deficiency ☐ Design Chg ☐ Troubleshoot ☐ Maintenance ☐ Retest Only

(6) Initial: B,P,C

Subsecnt Action:

(7) Cause: 0,2

Category: 0,5

☐ Retest Req ☒ Q-Listed

NRC Reportability 10CFR50.55e (8)

☒ Not Reportable [illegible] 10/19/79

☐ Report[illegible] QA Notified

(9) Signature	Name	Date	Time
Orig: AL Purdy / R.F. Warnick		10/19/79	1000
~~RE~~/TE: [illegible]		10/19/79	—
PS/PTS: R.F. Warnick		10/19/79	1200

(10) Corrective Action or Response:

270 325

Action Organization Representative

Date

CONSUMERS POWER COMPANY
RECEIVED
MAY 1 : 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

☐ (√) Con't on Attachment

(11) Retest Complete	Date
TE:	
Completion Review Signature	Date
QA:	
TE:	
PS/PTS:	

CAR ATTACHMENT A
COST/BENEFIT ANALYSIS

ESTIMATED COST:

BENEFITS ($):

BENEFITS (If not able to assign $):

Valve will not isolate containment on an engineered Safeguards signal if left as is. Penetration piping must be installed per vendor rg. drawing 220-M120-37-3.

270 326

Donald R. Towne 3/24/7
Analysis Performed By Date

J F Lynn 3/24/7
Superintendent Date

CORRECTIVE ACTION REPORT

(1) Unit S/U System Discip Serial: 1 - B B D - I - C C 1

(2) Description of Deficiency

BAILEY 771 RECORDERS, WITH TAGS READING 1LRS-3880A&B, ARE LISTED IN: INSTRUMENT INDEX J700(REV6), AS 1LR-3880A&B. NO SWITCH CONTACTS ARE EVIDENT ON SCHEMATICS OR EQUIPMENT (BAILEY NUMBERS 1SP-LR9A&B)
(MR # 1.35)

☐ (√) Con't on Attachment

(3) Recommended Corrective Action and Retest

UPDATE EQUIPMENT TAGS

☐ (√) Con't on Attachment

(4) Related Documents and References

INSTRUMENT INDEX J700 (REV6)

pmw Bu12

(5) ☒ Deficiency
☒ Design Chg
☐ Troubleshoot
☐ Maintenance
☐ Retest Only

(6) Initial
Subseqnt
ACTION

(7) Cause: 03
Category: 05
☐ Retest Req
☒ -Listed

NRC Reportability 10CFR50.55e
☒ Not Reportable — E Mahul 4/25/79 (8)
☐ Reportable; QA Notified _____
Name Date

(9)

Signature	Date	Time
Orig: R G Bellamy	4/26/79	0930
FE/TE: D E Kelley	4-26-79	1020
PS/PTS: R A Stahle	4/27/79	1430

(10) Corrective Action or Response:

270 327

Action Organization Representative

_____ Date _____

CONSUMERS POWER COMPANY
RECEIVED
MAY 4 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

mrA 5/24/79

☐ (√) Con't on Attachment

(11) Retest Complete — Date
TE: _____

Completion Review Signature — Date
QA: _____
TE: _____
PS/PTS: _____

CORRECTIVE ACTION REPORT

(1) Unit S/U System Discip Serial: 2 - [ ][ ][A] - [ ] - 0 0 7

(2) Description of Deficiency

Rkg One of the bus connectors between cells 15 and 16 of battery 2D01 is made of the wrong material. It is made of copper and should be made of copper-plated with lead.

[ ] (√) Con't on Attachment

(3) Recommended Corrective Action and Retest

Replace the bus connector with one made of copper-plated with lead.

[ ] (√) Con't on Attachment

(4) Related Documents and References

Exide Instruction Manual, Section 58.11 (E12-53)

(5) [X] Deficiency
[ ] Design Chg
[ ] Troubleshoot
[ ] Maintenance
[ ] Retest Only

(6) Initial: B,P,C
ACTION Subsequnt:

(7) Cause: 0,2
Category: 0,5
[ ] Retest Req
[X] Q-Listed

NRC Reportability 10CFR50.55e (8)
[X] Not Reportable Paul Shiller 22 MAY 79
[ ] Reportable;QA Notified

(9) Signature		Name	Date	Time
Orig:	Paul R. Shiller	25	5/17/79	1430
FE/TE:	[illegible]	15	05-18-79	0800
PS/PTS:	[illegible]	5	5-17-79	0700

(10) Corrective Action or Response:

270 328

Action Organization Representative

_____ Date _____

CONSUMERS POWER COMPANY
RECEIVED
MAY 25 1979
FIELD QUALITY ASSUR...
MIDLAND, MICHIGAN

[ ] (√) Con't on Attachment

(11) Retest Complete	Date
TE:	
Completion Review Signature	Date
QA:	
TE:	
PS/PTS:	

CORRECTIVE ACTION REPORT

(1) Unit S/U System Discip Serial: C - M K L - E - 2 0 1

(2) Description of Deficiency

Indicating devices located in panel 2020 - DC Voltmeter, DC Ammeter and milliAmp Graphic Recorder do not calibrate per requirements set forth in Technical Specifications 7220-E-13 Rev 4.

Indicating device located in charger 2027 - DC Ammeter - does not calibrate per requirements set forth in Technical Specifications 7220-E-11 Rev. 3.

SEE ATTACHED TEST RECORDS

[X] (√) Con't on Attachment

(3) Recommended Corrective Action and Retest

Re-scale meter faces or replace meter.

[ ] (√) Con't on Attachment

(4) Related Documents, and References

TECHNICAL SPECIFICATIONS 7220-E-11 Rev. 3
7220-E-13 Rev. 4
7220-E-58 (Q) Rev. 3

[X] Deficiency (5)
[ ] Design Chg
[ ] Troubleshoot
[ ] Maintenance
[ ] Retest Only

(6) Initial: B, P, C

ACTION Subseqnt:

(7) Cause: 23

Category: 0,5

[ ] Retest Req
[X] Q-Listed

NRC Reportability 10CFR50.55e (8)
[X] Not Reportable
[ ] Reportable; QA Notified

(9) Signature		Name	Date	Time
Orig:			5-17-79	14:00
FE/TE:			5/18/79	1200
PS/PTS:			5/17/79	1200

(10) Corrective Action or Response:

270 329

Action Organization Representative

Date

CONSUMERS POWER COMPANY
RECEIVED
JUN 4 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

[ ] (√) Con't on Attachment

(11) Retest Complete	Date
TE:	
Completion Review Signature	Date
QA:	
TE:	
PS/PTS:	

INDICATING DEVICE TEST RECORD

ACM: Midland Plant UNIT: #2

INDICATING DEVICE: DC Voltmeter RANGE: 0 - 150 Volts

LOCATION: 2D20

INSTR. MFG: ETI MODEL: DB-19 S/N:

CALIBRATED: YES ✓ NO SYSTEM DESIGNATOR: 2 - PKB

CALIBRATION CHECK TEST RECORD

CAL. CHECK POINT		TEST		ACCEPT STATUS		REMARKS/DISPOSITION
Scale Indication	Input Value	Reading	Variance	In	Out	
0V	0V	+3V	+3V		✓	
30	30	33.5	+3.5		✓	
60	60	63.0	+3		✓	
90	90	91.5	+1.5	✓		
120	120	120.5	+0.5	✓		
130	130	130.0	0	✓		
135	135	135.0	0	✓		
140	140	140.0	0	✓		
145	145	145.5	+0.5	✓		
150	150	150+				
						270 350

CALIBRATED TEST EQUIPMENT	C.P. NUMBER	CAL. DUE DATE
Data Precision Multimeter	3742-00701	3-23-80
Multiamp Test Set	6572	N/A

TESTED BY: D L Valley DATE: 5-3-79

APPROVED BY: DATE:

INDICATING DEVICE TEST RECORD

ATION: Midland Plant UNIT: #2

INDICATING DEVICE: Ammeter

RANGE: 50-0-50 mV
200-0-200 A
100-0-100 mV
400-0-400 A

LOCATION: 2D20

INSTR. MFG: E.I.L. MODEL: DB-40 S/N:

O LISTED: YES ✓ NO SYSTEM DESIGNATOR: 2-PKB

CALIBRATION CHECK TEST RECORD

CAL.CHECK POINT		TEST		ACCEPT STATUS		REMARKS/DISPOSITION
Scale Indication	Input Value	Reading	Variance	In	Out	
0A	0mv	0A	0A	✓		
40	10	42	+2	✓		
80	20	80	0	✓		
120	30	123	+3		✓	
160	40	164	+4		✓	
200	50	200+				
-40	10	-40	0	✓		
-80	20	-80	0	✓		- scale indication
-120	30	-123	+3		✓	indicates counter-
-160	40	-163	+3		✓	clockwise movement
-200	50	-200+				of meter.

CALIBRATED TEST EQUIPMENT	C.P. NUMBER	CAL. DUE DATE
Data Precision Multimeter	3747-00701	3-23-80
H.P. Power Supply	3742-00146	N/A

TESTED BY: D.A. Mey DATE: 5-3-79

APPROVED BY: 270 DATE:

INDICATING DEVICE TEST RECORD

JOB: Midland Plant UNIT: #2

INDICATING DEVICE: Ammeter

RANGE: 50 - 0 - 50 mV
200 - 0 - 200 A
100 - 0 - 100 mV
400 - 0 - 400 A

LOCATION: 2D 20

INSTR. MFG: E.I.L. MODEL: DB-40 S/N:

Q LISTED: YES ✓ NO ___ SYSTEM DESIGNATOR: 2-PKB

CALIBRATION CHECK TEST RECORD

CAL. CHECK POINT		TEST		ACCEPT STATUS		REMARKS/DISPOSITION
Scale Indication	Input Value	Reading	Variance	In	Out	
0 A	0 mV	0 A	0 A	✓		
80	20	81	+1	✓		
160	40	158	-2	✓		
240	60	240	0	✓		
320	80	320	0	✓		
400	100	398	-2	✓		
-80	20	-78	-2	✓		
-160	40	-156	-4	✓		- Scale indication
-240	60	-240	0	✓		indicates counter-
-320	80	-319	-1	✓		clockwise movement
-400	100	-399	-1	✓		of meter.

CALIBRATED TEST EQUIPMENT	C.P. NUMBER	CAL. DUE DATE
Data Precision Multimeter	3742-00701	3-23-80
H.P. Power Supply	3742-00146	N/A

TESTED BY: A. J. Wally DATE: 5-3-79

APPROVED BY: DATE:

270 352

PLANT: Midland Plant UNIT: #2

INDICATING DEVICE: Graphic Recorder RANGE: 50-0-50 ma

LOCATION: 2D 70

INSTR. MFG: Esterline Angus MODEL: A 6010 S/N: 205854

Q LISTED: YES ✓ NO ___ SYSTEM DESIGNATOR: 2-PKB

CALIBRATION CHECK TEST RECORD

CAL. CHECK POINT		TEST		ACCEPT STATUS		REMARKS/DISPOSITION
Scale Indication	Input Value	Reading	Variance	In	Out	
0 ma	0 ma	0 ma	0 ma	✓		
10	10	10.0	0	✓		
20	20	19.5	-0.5	✓		
30	30	29.5	-0.5	✓		
40	40	39.5	-0.5	✓		
50	50	49.5	-0.5	✓		
-10	10	-9.5	-0.5	✓		
-20	20	-19.5	-0.5	✓		- in scale
-30	30	-29.0	-1.0		✓	indication indicates
-40	40	-38.5	-1.5		✓	DCN left of zero.
-50	50	-49.0	-1.0		✓	

CALIBRATED TEST EQUIPMENT	C.P. NUMBER	CAL. DUE DATE
Data Precision Multimeter	3742-00701	3-23-80
H.P. Power Supply	3742-00146	N/A

TESTED BY: D. E. Valley DATE: 5-4-79

APPROVED BY: DATE:

270 333

LATION: Midland UNIT:

INDICATING DEVICE: Ginger 2D27 Annuta RANGE: 0-100mVDC
0-100ADC Scale

LOCATION: 2D27

INSTR. MFG: G.E. MODEL: 50-25342ACBSC-1 SER: 10/1/054/pcm/3

Q LISTED: YES X NO ___ SYSTEM DESIGNATOR: 2-PKB

CALIBRATION CHECK TEST RECORD

CAL.CHECK POINT		TEST		ACCEPT STATUS		REMARKS/DISPOSITION
Scale Indication	Input Value	Reading	Variance	In	Out	
0 ADC	0mVDC	0	0	✓		200A/50mV
80	20	75	-5	✓		Shunt
160	40	150	-10		✓	
240	60	225	-15		✓	
320	80	309	-11		✓	
400	100	389	-11		✓	

CALIBRATED TEST EQUIPMENT	C.P. NUMBER	CAL. DUE DATE
Data Precision Dvm	3742-00702	3-23-80
H.P. Power Supply	3742-00146	N/A

TESTED BY: [signature] DATE: 5-7-79

APPROVED BY: DATE: 270 334

E-1-X

CORRECTIVE ACTION REPORT

(1) Unit S/U System Discip Serial: 2 - FK-A - E - 0207

(2) Description of Deficiency: Charge 2D17 ammeter does not conform to the accuracy stated on Elect. Spec 7220-E11-3

Bus 2D10 ammeter does not conform to the accuracy of Elect Spec. 7220-E13-4

SEE ATTACHED DEVICE TEST RECORDS

☒ (√) Con't on Attachment

(3) Recommended Corrective Action and Retest

Replacement

☐ (√) Con't on Attachment

(4) Related Documents and References

Elect Spec 7220-E11-3

Elect Spec 7220-E13-4

☒ (5) Deficiency
☐ Design Chg
☐ Troubleshoot
☐ Maintenance
☐ Retest Only

(6) Initial: B P C

ACTION — Subsequnt:

(7) Cause: 2 3

Category: 0 5

☐ Retest Req
☒ Q-Listed

NRC Reportability 10CFR50.55e (8)

☒ Not Reportable

☐ Reportable; QA Notified

(9) Signature	Name	Date	Time
Orig:	T.E. Musselman EO	5-31-79	1400
FE/TE:			
PS/PTS:			

(10) Corrective Action or Response:

Action Organization Representative

Date

CONSUMERS POWER COMPANY
RECEIVED
JUN 4 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

☐ (√) Con't on Attachment

(11) Retest Complete	Date
TE:	
Completion Review Signature	Date
QA:	
TE:	
PS/PTS:	

270 335

INDICATING DEVICE TEST RECORD

STATION: Midland UNIT: 2

INDICATING DEVICE: Charge 2D17 Ammeter RANGE: 0-100 mV DC
0-100 A ~~DC~~ Shunt

LOCATION: 2D17

INSTR. MFG: G.E. ~~TYPE~~: 50-255-12-1 CBSE-1 S/N: 10/1951/6005 / 10

Q LISTED: YES X NO ___ SYSTEM DESIGNATOR: 2-PKA

CALIBRATION CHECK TEST RECORD

CAL. CHECK POINT		TEST		ACCEPT STATUS		REMARKS/DISPOSITION
Scale Indication	Input Value	Reading	Variance	In	Out	
0 ADC	0 mVDC	0	0	✓		Shunt: 200A-50mV
80	20	75	-5	✓		Weston
160	40	150	-10		✓	K9442-L7
240	60	225	-15		✓	
320	80	309	-11		✓	
400	100	389	-11		✓	Rend. Acc = 2% = 8A

CALIBRATED TEST EQUIPMENT	C.P. NUMBER	CAL. DUE DATE
Data Precision DVM	3715-00702	3-23-80
Data Precision DVM	3715-00701	3-23-80
Multimeter Set	6572	NA
H.P. Supply	3715-00146	NA

TESTED BY: J. J. Hendricks DATE: 5-7-79

APPROVED BY: 270 336 DATE:

INDICATING DEVICE TEST RECORD Sht 1 of 2

TION: Midland UNIT: 2

INDICATING DEVICE: 2D10 Bus Ammeter

RANGE: 100mV-0-100
50mV-0-50mV
400-0-400 ADC Scale
200-0-200 ADC Scale

LOCATION: Panel 2D10

INSTR. MFG: E.I.L MODEL: DB-40 S/N: NA

Q LISTED: YES X NO ___ SYSTEM DESIGNATOR: 2-PKA

CALIBRATION CHECK TEST RECORD

CAL. CHECK POINT: ACCA Scale		TEST		ACCEPT STATUS		REMARKS/DISPOSITION
Scale Indication	Input Value	Reading	Variance	In	Out	
0 ADC	0 mVDC	0	0	✓		This sheet
80	20	80	0	✓		applies to
160	40	160	0	✓		100 ADC-0-400
240	60	240	0	✓		Scale
320	80	321	+1	✓		
400	100	400	0	✓		200-0-200 is
-80	-20	-78	-2	✓		on sheet 2
-160	-40	-159	-1	✓		
-240	-60	-243	+3	✓		(-) indicates CCW
-320	-80	-320	0	✓		movement from 0
-400	-100	-400	0	✓		
						Read acc = 1% = 4A

CALIBRATED TEST EQUIPMENT	C.P. NUMBER	CAL. DUE DATE
Data Precision Dvm	3742-00702	3-23-80
H.P. Supply	3742-00146	N/A

TESTED BY: [signature] DATE: 5-7-79

APPROVED BY: [signature] DATE: 270 337

STATION: Midland UNIT: 2

INDICATING DEVICE: ADU Recorder RANGE:

LOCATION: See info. on sheet 1

INSTR. MFG: MODEL: S/N:

Q LISTED: YES NO SYSTEM DESIGNATOR:

CALIBRATION CHECK TEST RECORD

CAL. CHECK POINT 200A SCALE		TEST		ACCEPT STATUS		REMARKS/DISPOSITION
Scale Indication	Input Value	Reading	Variance	In	Out	
0 ADC	0mVDC	0	0	✓		this sheet
40	10	40	0	✓		applies to
80	20	80	0	✓		200 ADC-0-200
120	30	120	0	✓		Scale
160	40	162	+2	✓		
200	50	200	0	✓		- indicates
-40	-10	-39	-1	✓		CCW movement
-80	-20	-80	0	✓		from 0.
-120	-30	-121	+4		✓	/
-160	-40	-160	0	✓		Rqrd accuracy = 1
-200	-50	-200	0	✓		= 2%

CALIBRATED TEST EQUIPMENT C.P. NUMBER CAL. DUE DATE

SAME AS SHEET 1

TESTED BY: DATE: 5-7-79

APPROVED BY: 270 338 DATE: