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August 25, 1979
Howe-228-79

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QUALITY ASSURANCE

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 JULY 1979
DOCKET NOS 50-329 AND 50-330

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

Stephen H Howell

CC: J G Keppler, USNRC Region III

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LOG OF NONCONFORMANCE REPORTS

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PROJECT NAME [1] Midland JOB NO. [1] 7220 PAGE [8] 86

2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1295	3-31-78	C-626. Missing Dowels between the south west corner of the south sec. shield wall.	Rework Use as is	4-3-78	F. Milsovic
1296	4-4-78	E-20. Electrical Penetration Assemblies, received at site with no documentation, 2Z145 chafed inboard box.	Doc. Rework Use as is		
1297	4-4-78	Dwg. C-93. During filling of the cooling water pond Zone 4Z material was partially washed out.	Repair	4-5-78	D. Osborn
1298	4-6-78	Dwg. C-171, C-826. 4-#6 dowels omitted on slab #4, 4-#6 dowels omitted on slab #5. Aux. El. 674'	Rework	6-5-78	J. Moyers
1299	4-5-78	Dwg. C-99. #6 dowels incorrectly placed between the ext. wall of the SW Pump Struct and sump walls	Std. Repair	4-7-78	D. Osborn
1300	4-10-78	Dwg. C-1022. #5 Ties were not installed from Elev. 634-6 to 649'-0", Diesel Generator.	Use as is	4-28-78	A. Lamach
1301	4-10-78	M-104C-AC. Pipe Spool 8"-1HBC-98-S619-13-2 has a code data plate with no manufactures name on it.	Rework	7-17-78	M. Donovan
1302	4-10-78	M-104A-AC. Pipe Spool 2HBC-232-S657-4-2 fabbed to wrong vendor dwg.	Rework		
1303	4-13-78	C-230. Concrete Cylinder Strengths - Sets 2981, 2982, and 2985 did not meet 6000 psi at 90 days.	Use as is	8-15-78	T.Lieb
1304	4-12-78	E-20. Electrical Penetration Assembly - Module C is leaking and has caused conductor insulation to swell &	Std.Repair expand.	6-21-78	F. Ringe
1305	4-13-78	Dwg. 2-613-[illegible]5. Hanger has incomplete field weld, numbers 4 and 5.	Rework		
1306	4-13-78	C-304. FAWs were found to be unacceptable due to undersize, oversize and weld defects. El. 646' Unit 2	Use as is	5-30-78	J. Huron
1307	4-14-78	E-20. Electrical Penetrations received @ jobsite without Documentation & had "0" psig pressure reading.	Use as is		
1308	4-17-78	C-233. 80 Anchor Bolts - C660-1F, size of bolts sent do not agree with Bechtel approved vendor drawing.	Reject	4-26-78	C. Gwin
1309	4-17-78	M-14, Aux. Feedwater Pumps, 1P-05A, 2P-05A, documentation does not agree with material sent.	Doc. Rework	5-22-78	J. Slifer
1310	4-17-78	M-123B. Quality Verification Documentation required is missing Mat'l Cert. of Compliance & Elec. Test Reports.	Doc. Rework	7-11-78 6-15-78	H. D. Foster D. Delaney
1311	4-17-78	Dwg. C186. 480 V. MCC 0B45, 0B46, face of MCC cabinet intermittently welded to the face of foundation pads.	Use as is Repair	8-2-78	J. C. Huron
1312	4-18-78	E-3091. 8 Anchor Plate Embeds were not inspected for drawing configuration.	Rework	5-19-78	J. Slifer
1313	4-18-78	C-50B. Air Tanks for Personnel Air Locks received with no shop inspector's release or Documentation.	Reject Reject	7-12-79	B. Mo Glashan

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PROJECT NAME [1] Midland JOB NO. [1] 07220 PAGE [8] 92

[2] NCR NO.	[3] DATE	[4] NONCONFORMANCE DESCRIPTION / REMARKS	[5] DISPO.	[6] DATE NCR CLOSED	[7] CLOSED BY
1409	7-17-78	Dwg. C-96. Mislocated Anchor Bolts on sluice gate frame extensions.	Repair	7-6-79	S. Gelnett
1410	7-18-78	M-1.19. Nuclear Power Generation Division QA Hold placed on C of C for Core Flooding Tank - 1T-63A	Doc. Rework		
1411	7-18-78	M-118A. Numerous documentation problems for main steam isolation valve.	Doc. Rework		
1412	7-18-78	C-198.Rebar dowels broken off during installation of foundations forsafeguards chilled water pumps	Repair	12-4-78	P. Vanderveer
1413	7-19-78	M-132AC. Quality Verfication Doc. not recd for valve returned from the Vendor on NCR 1216	Doc. Rework	10-4-78	R. Moray
1414	7-19-78	C-24. G-321-D rec'd w/motor operated lifting devices has revisions that vary from the specification.	Doc. Rework	8-8-78	T. Christofferson
1415	7-20 78	C 94, Use of D 1 Concrete in the Service Water Pump Structure	Use as is	9-1-78	B. T. Cheek
1416	7-21-78	J-201. Certification of compliance not available for Control Boards.	Doc. Rework	8-18-78	K. Deitz
1417	7-21-78	E-19. Required documentation is not available for AC Power Supplies.	Doc. Rework	9-15-78	K. Deitz
1418	7-21-78	C-233 Required Documentation is not available for NPS shipment number NPSI-6837/cc	Doc. Rework	8-4-78	R. Montreuil
1419	7-24-78	C-208. 1½" Aggregate failed to meet gradation test	Use as is	9-19-78	T. Lieb
1420	7-24-78	M-14. Elec. Motor Drivers/Aux. Feedwater Pumps. Seismic calculations have not been supplied to Project prior to shipment release.	Doc. Rework Use as is		
.1421	7-25-78	M-104. Missing Documentation for Fabricated Pipe 2HCB-50-S614-3-1.	Rework	9-29-78	R. Moray
1422	7-25-78	CRDM'S Position Indicator's - Humidity of storage area to high, making quality of items indeterminate.	Use As Is	1-12-79	C. R. Fugate
1423	7-25-78	C-304. Wireway Support was fabricated without the use of a design drawing. Elev. 646. Aux.	N/A	6-13-79	D. Squires
1424	7-25-78	M-104A. Spool 2 HBC-54-614-3-1A - Wall thickness is less than minimum allowable thickness. Elev. 605' 273°	Use As Is	10-17-78	J. Hamler
1425	7-25-78	J-229. Temperature Switch Thermowells - MTR has not been certified by mat'l manufacture as required.	N/A	7-26-78	J. Slifer
1426	7-26-78	FPG -F1-70. Waterstop in storage area not covered - exposed to direct sunlight.	Reject	4-3-79	R. Valentine
1427	7-26-78	M-1.17. Pump stuffing box flange on the same side as the motor coupling-Decay Ht. Rem. PUmp. 2P60A	Reject	8-22-78	J. Slifer

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PROJECT NAME [1] Midland JOB NO. [1] 07220 PAGE [8] 99

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	7-5-79	T. Arritola
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 received 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.	Doc. Rework N/A	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. Lamach~~ ~~S. Kirker~~ 5-23-79 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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PROJECT NAME [1] Midland JOB NO. [1] 7220 PAGE [8] 100

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.	Use As Is		
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 bay 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 30960 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,W040594 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(672)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	7-9-79	K. Nutitis
1575	10-4-78	F-3107. Documentation required is neither traceable or legible- no mill test report for Heat code NA154.	Doc. Rework	11-3-78	C. Gwinn
1576	10-4-78	E-20. Electrical Penetration Assemblies had leak rates greater than allowed, when tested 9-28-78.			
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 1 North secondary shield Wall	Use as is	1-11-79	D. VanderVeer

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PROJECT NAME [1] Midland Units 1&2 JOB NO. [1] 07220 837 169 [8] PAGE 101

2 NCR NO.	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 Sandb. sted 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	10-18-78	F-30537. No manufacturer's identification Mark	Reject	1-30-79	J. Gray
1590	10-19-78	E-20. Quality Verification Documentation Packages have not been received from the vendor	Doc Rework		
1591	10-19-78	M-204. Flued Head 1Z-39 has a large ARC burn and g ouge	Repair	6-4-79	K. Roberge
1592	10-19-78	E-21. 500' on Reel #7220-E-21-AC-1A-H-1977 had imperfections in the insulation.	Use as is	7-16-79	K. Nutaitis
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	6-25-79	S. Gelnett
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. Gelnett
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 Ells insuficient Doc.	Rework Reject	1-31-79	R. Valentine

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

[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 to 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	Use As Is	7-25-79	R. A. Moray
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'mts per spec M-14			

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PROJECT NAME [1] Midland JOB NO. [1] 07220 PAGE [8] 112

[2] NCR NO.	[3] DATE	[4] NONCONFORMANCE DESCRIPTION / REMARKS	[5] DISPO.	[6] DATE NCR CLOSED	[7] CLOSED BY
1786	1-9-79	M-127-A. Q-mat'l indeterminate in regards to satisfactory completion of qualification test req'mts per spec M-127			
1787	1-9-79	M-127-B. Q-mat'l indeterminate in regards to satisfactory completion of qualification test req'mts per spec M-127			
1788	1-9-79	M-127-CC.Q-mat'l indeterminate in regards to satisfactory completion of qualification test req'mts per spec M-127			
1789	1-9-79	M-132-AC.Q-mat'l indeterminate in regards to satisfactory completion of qualification test req'mts per spec M-228			
1790	1-9-79	M-134-AC.Q-mat'l indeterminate in regards to satisfactory completion of qualification test req'mts per spec M-134			
1791	1-9-79	M-146-AC.Q-mat'l indeterminate in regards to satisfactory completion of qualification test req'mts per spec M-146			
1792	1-9-79	M-149-AC.Q-mat'l indeterminate in regards to staisfactory completion of qualification test req'mts per spec M-149			
1793	1-9-79	M-150-AC.Q-mat'l indeterminate in regards to satisfactory completion of qualification test req'mts.per spec M-150			
1794	1-9-79	M-163-AC.Q-mat'l indeterminate in regards to satisfactory completion of qualification test req'mts per spec M-163			
1795	1-9-79	M-168-AC.Q-mat'l indeterminate in regards to satisfactory completion of qualification test req'mts per spec M-168			
1796	1-9-79	M-169-AC.Q-mat'l indeterminate in regards to satisfactory completion of qualification test req'mts per spec M-169			
1797	1-9-79	M-61. 3/4" diameter mounting holes have been elongated approx. 3/8", and equipment moved to install piping	Rework	1-19-79	M. Gulaino
1798	1-9-79	J-258-AC. Gages, output sensing line and pneumatic supply tubing damaged on control valve ITV-1621B	Rework	7-7-79	E. Urbanbanawiz
1799	1-10-79	F-31737.975-5/8"x6"Kwik Bolt Stud Anchors were not stamped with manuf. length ID mark.	Reject	1-24-79	T. Estes
1800	1-10-79	M-204. Incorrect welding Proc. listed on WR-5; welding of CSpipe to SS pipe.	Rework		
1801	1-10-79	C-231. Pour #A(704.54)f had low curing temps. for approx. 21 hours.	Use As Is	3-27-79	J. Moyers
1802	1-10-79	M-204. Check Valve 2 1/2"-CCB-CK-L (403-2-79) missing one hinge pin cover; integrity indeterminate.	Rework		
1803	1-10-79	M-204. Spool IHBC-147-S-616-9-1 has an arc strike on the west lower 90° elbow.	Rework		

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PROJECT NAME [1] _____ JOB NO. [1] _____ 837 172 PAGE [8] 116

2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1861	2-6-79	F-30208 Variable Spring Hangers no certificate of compliance was received.	Doc, Rework	2-26-79	R. Montreuil
1862	2-6-79	C-1033 Missing Vertical Rebar was not installed prior to pouring of concrete.	Use As Is	2-15-79	S. Kirker
1863	2-6-79	C-231 Cut Rebar. Bond Beam was cut without project engineering approval.	no non-conf.	2-16-79	S. Kirker
1864	2-7-79	E-620 Cables have been burned in tray 1AKA 12.	Use As Is		
1865	2-7-79	E-656 Seismic Conduit Supports,,support for conduit was welded without a project approval drawing.	Use As Is	7-12-79	D. C. Squires
1866	2-7-79	C-23 Cut Rebar, not more than two bars shall be cut eachway,eachface,per bundleof core drillings& threewas cut.	Use As Is	3-16-79	J. Moyers
1867	2-9-79	M-169 Identification plates was reversed they were attached to the wrong panels.	Rework	2-16-79	A. Lobrovich
1868	2-9-79	M-204 Amperage & voltage checks on installation of pipe voltage measured 10 which is outside WPS specified value.	Use as is	4-13-79	J. C. Huron
1869	2-12-79	M-204 Valves,2XV-3966A(439-3-45)serial no.670716 & 2XV-3966B(439-3-61) serial no. PSMM-13 are reversed.	Use As Is		
1870	2-12-79	M-342 Large Pipe Spools,red paint on external surface made integrity of components Indeterminate.	Rework	3-7-79	L. Brown
1871	2-13-79	ASTM C-230 Type1 Cement Acceptance Tests. Maximum alkaline in type I cement too high.	N/A	2-15-79	T. Leib
1872	2-12-79	C-231 Cut Rebar, One Bar of the bundle was cut without Project Engineering approval.	Use As Is	3-23-79	K.Gunser
1873	2-13-79	M-342 F-10 Pipe Spool 2ELB-10-632-1-5 had 100% heavy rust film internally.	Rework	2-22-79	L. Brown
1874	2-14-79	E-6 4160/480- Transformer-2X17 Wires has been damaged.	Rework	4-12-79	A. M. Lobrovich
1875	2-14-79	E-6 1B17&1B18 480 V. General Electrical Load Centers, wires have been damaged by rodents.	Rework		
1876	2-14-79	E-12 Battery Racks.do not meet clearance requirements.			
1877	2-14-79	Steam Driven Auxiliary Feedwater Pump,FPG-5.000 F10housing for turbines pump is broken feedwater pump is broken.	Rework		
1878	2-14-79	E-42 Electrical Raceways. numeraus nonconforming raceway installation in the process instrument rms. El.646 conb 1&1	Rework		
1879	2-14-79	M-204 Spool 1HBC-100-619-6-4 has a arc strike.	Rework	6-9-79	L. Brown

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2 NCR NO.	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	3-1-79	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 beeh installed with only one weld per rail.	Rework	7-3-79	C. A. Cameron
1930	3-5-79	E-26 2Conductor #14 Cable, doesn't have the asbestos/polyester binder tape betweenouter jacket&individual condc. insulation	Use As Is	6-20-79	K. Nutaitis
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	P. 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	Use As Is		
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 G-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	Radiographs of welds have incorrect pentrameters used on 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	STD. Repair slip WR-6	7-17-79	Wm. Smith
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	7-16-79	D. S. Squires
1950	3-13-79	DWG E-650.sh. 1 Tray section installed w/o project engineering approval ~~to~~ on 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 certifiaation.	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 downhill progression inW.P.S.P1-A-LH-(structural)	Rewmrk	6-14-79	L. Harrison
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	7-6-79	L. Harrison
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 broken 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] . W. #25-Vertical Reinforcing Dowels on the intermediate 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, similar to type 20 fabricated and installed with no project approved drawing.	Use As Is	6-12-79	D. Squires

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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 2GCB-15-S613-4-7, shows wall thickness on this spool tobe 0.245 &should be 0.282.			
1991	3-22-79	M-619-8-57A Field Weld #57A was welded without QCwelding being notified & AI 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 eng. 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	E-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	3-26-79	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	7-11-79	E. Urbanawiz
1999	3-26-79	M-204 10" Butterfly Valve, 2TV-1721-B has several nonconformingitems against this valve.	Rework		
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-Nonconformance	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-Nonconformance	5-9-79	L. Brown
2002	3-26-79	M-204 Spool 0HBC-21-S619-9-4 shows to be Grinnel Fabricated actually it has pup piece incorporated withput engineering requirement.	N/A	6-5-79	L. Brown
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.	N/A		
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° ELL.	Std. Repair		
2011	3-29-79	M-204 Spool 1-HBC-123-S616-8-3,is heavily pitted on the gasket sealing surface.	Rework	7-5-79	D. Kimbro
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 weldd to decking support angles,item 2 has damage to lower flangesadjacent clevis.	Rework		
2014	3-29-79	C-10177C-1018 Missing Horizontal Curb Dowels, no horizontal 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.	Doc. Rework 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 2HCR-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	6-22-79	M. Moore
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. Valentine
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.	Repair		
2030	4-2-79	M-55 Fuel pool heat exchangers op-76A-D couplings was installed non-vice versa from vendor'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	7-18-79	E. Fryman
2033	4-4-79	E-60 Instrument & Special purpose cable,no documentation forS05&S09on MRR9357,P.O.107 shop inspector failed to sign off.	Doc. Rework	7-31-79	T. Estes
2034	4-4-79	C-231. Void in the concrete base mat of Aux. Bldg. at Elev. 568'.	Std. Repair	6-8-79	R. Harvey
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	6-4-79	C. Cameron
2039	4-5-79	G-34 Conduit and box supports were installed without prior project approved drawing or engineering approval	Rework Use As Is		
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	FPG-7.000 Equipment and material not protected by coverings during concrete chipping, thereby rendered indeterminate.	Rework		
2043	4-9-79	A-14 Field testing of grout exceeded 3-day test requirements.	Use As Is	7-20-79	S. Selnett

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2 NCR NO.	3 DATE	4 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.	Use As Is	7-20-79	L. Brown
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.	Repair		
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 reqm'ts.	Std. Rework	5-18-79	D. Fredianelli
2068	4-13-79	Dwg. E-614. Conduit support installed without a project approved drawing.	Rework	7-12-79	D. Squires
2069	4-13-79	Dwg. E-614. 8 supports constructed of P1001 unistrut were installed w/o prior engineering approval.	Use as is	7-14-79	
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	Use as is	7-16-79	D. Squires
2072	4-16-79	E-510. Conduit 2BA074 has a stream of water flowing from it.	Repair		
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	Rework		
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	6-18-79	D. Squires
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.	Use as is non-nonconformance	4-19-79	L. Brown
2081	4-18-79	Hanger 2-657-3-18. Hanger not installed in compliance with pipe support design drawings.	Use As Is	7-9-79	R. Amos
2082	4-18-79	E-650 Sh. 1. Type 14 supports have continuous welds. E-42 Sh. 335 specifies intermittant welding.	Rework	~~4-24-79~~	~~J. Kexel~~
2083	4-19-79	E-532. Conduit 2AA037 was damaged by core drilling the slab.	Doc. Rework		
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.	Reject	6-5-79	M. Moore
2086	4-19-79	F-31391. Chemical composition not included in MTR submitted with returned bolts originally rejected on NCR-1695.	Doc. Rework	4-30-79	T. Estes
2087	4-20-79	F-34605. G-321-D furnished with Quality Verification Documentation was not signed by vendor.			
2088	4-20-79	Hanger 2-619-1-3. Inadequate installation of 5/8" expansion anchors.	Rework		
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.	Rework	7-16-79	D. Squires
2091	4-20-79	E-535. Six conduits have incorrect supports as per E-42, Rev. 39.	Use As Is	5-8-79	S. Kirker
2092	4-24-79	C-231 Cadwelding was done and was not qualified until one day later.	Rework		
2093	4-24-79	M-342 PipeSpool 1HCB-1-S-612-8-1 has an excessive amount of contrete splatter near FW 18.			
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.	Std. Repair	-	
2095	4-24-79	M-204 4" 2HCB-11 (M-608sht.1 FW21) A pitted area was found on this spool.	Rework	-	
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.	Use As Is	5-30-79	D. Squires
2097	4-24-79	E-42 Unscheduled pullbox size. three boxes do not meet criteria of E-42.			

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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 6X6" 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	6-4-79	C. Cameron
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.	Use As Is	6-12-79	D. Squires
2103	4-26-79	E-538 2" GRS#2B0034 Conduit has been damaged by drilling the concrete slab.			
2104	4-26-79	C-304 Structural Steel EL 602, welder I-177 was using electrodes, from container#62, not assigned to him,#361was assigned to him andnotplugged in.			
2105	4-26-79	E-42 Conduit Support,asupport very similar toa type 12A has been welded to a existing column.	Use As Is	6-4-79	C. Cameron
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 verifiaation 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.	Doc. Rework	7-9-79	T. Estes
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. approa..	Use As Is	5-24-79	C. Spinks
2111	4-26-79	E-19 2 Each Capacitor, 13 MFD@1000 VAC no quality verification documentation was received with this item.	Use as is	5-29-79	T. J. Estes
2112	4-26-79	E-47 (1DJ474 & 1BJ477) (1DJ475 & 1BJ476) was installed without a separation between them& calls for (1) inch separation.	Repair	6-28-79	D. C. Squires
2113	4-26-79	E-47 Pull Boxes 2DJ803&@BJ802 was installed without a inch separation between them.	Repair		
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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2134	5-1-79	M-326. Hanger, No. 10-1HBC-103-H12, installed improperly and configuration of section B-B is not per sketch.	Use as is		
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		
2137	5-1-79	F-34259. Jacket repair sleeve kit received with no Statement of Conformance.	Doc. Rework	7-30-79	T. J. Estes
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.	Use as is		
2139	5-2-79	F-27952. Socket Weld Adapters received without a form G-321-D.	Doc. Rework	7-6-79	D. A. Delaney
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	6-4-79	C. Cameron
2142	5-2-79	E-611 Box support, type 9E, has been installed with continuous across the flange welds.	Use As Is	6-4-79	C. Cameron
2143	5-2-79	E-607. Unistrut improperly installed on conduit no. 2BC019.	Rework	7-19-79	D. Squires
2144	5-2-79	E-607. Conduit support, type 14, has been installed with continuous across the flange weld.	Use As Is	7-3-79	C. A. Cameron
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 weled to an existing embed.	Rework	7-12-79	D. Squires
2148	5-2-79	E-20. Replacement Module Assy. installed in pent. 2Z132, documentation indicates pent. tag no. as 1Z150.	Doc. Rework		
2149	5-2-79	E-609. Conduit support, type 13, installed by continuous welds across the flange.	Use As Is		
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.	Rework	6-26-79	J. Miller

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2151	5-3-79	E-37. #6 Essex Cable have no identification marker conductors.	Repair		
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	7-24-79	D. Squires
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.	Use As Is		
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.	Rework	6-27-79	K. Gunser
2158	5-4-79	E-60. Instr. & Special Purpose Cable; received with no documentation on MRR-9553, 13 cable reels	Doc. Rework	7-31-79	T. Estes
2159	5-4-79	M-125.C. Manual Operated Valve Upper and Lower Limit Switches are identified incorrectly by vendor.	Rework	6-25-79	A. Lobrovish
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.	Rework		
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.	Doc. Rework		
2165	5-8-79	E-612. Type 11 support has been installed improperly, with 13" P1001A3.	Use As Is	7-16-79	D. Squires
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.	Rework	6-25-79	S. Marietti
2168	-8-79	E-625 Sht 2. Seismic Conduit Support, incorrect unistrut used for installation.	Use As Is	7-16-79	D. Squires

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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	6-4-79	K. Roberge
2188	5-15-79	F-27952. Documentation is not traceable to material, G-321D is incomplete and incorrect in some entries.	Doc. Rework	7-6-79	R. A. Montreuil
2189	5-16-79	F-35238. Hex head bolts, washers and nuts, certificate of compliance states conformance to different grade than in P.O.	Use As Is	6-18-79	T. Estes
2190	5-16-79	F-34998. Washers and caps screws received with no statement of conformance or certificate of compliance.	Doc. Rework	6-1-79	R. Montreuil
2191	5-16-79	F-10-204. Safety Related Equipment Rooms, equipment left uncovered during construction work; dirt & dust in panels.	Repair		
2192	5-16-79	M-610 Sh. 6. Hairline crack in ss socklet 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 enq. approval.	Use As Is	6-25-79	S. Marietti
2194	5-18-79	E-629. Box support installed without prior project approved drawing.	Use As Is	7-3-79	
2195	5-18-79	E-624. Sh. 2. Box support installed without approved drawing or specification.	Use As Is		
2196	5-18-79	M-129BC. Valve, ½" ECB-GT-DV has fillet weld which is not within drawing specification.	~~Rework~~		
2197	5-18-79	Hanger Sketch expansion anchors installed with no visually inpsection for correctness.	Rework		
2198	5-18-79	M-657 Sh. 38. Pipe Spool 0HBC-78-S657-38-1 has a minimum wall thickness violation.	Repair		
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.	Use As Is		
2201	5-21-79	M-125C. Nuclear Service Valves, documentation discrepancies involving pages numbered and supplied.	Doc. Rework	6-19-79	B. MacGlashan
2202	5-21-79	E-60. Instrument and special purpose cable was received with no quality verification documentation. (Cable I-18)	Doc. Rework		

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2203	5-21-79	Hanger 6" 1DBC-5-H8, Item 1 of hanger sketch 1-633-6-13 forced out of perpendicular to base plate.	Rework		
2204	5-21-79	Hanger 2½" 2HBC-178-H9, expansion anchor broken off during expansion anchor torque testing.	Rework		
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"	Rework	7-31-79	M. Moore
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.	Rework	6-25-79	S. Gelnett
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.	Reject		
2213	5-23-79	M-163. Recirculating Air Cooling Unit Fans released from warehouse without performance of maintenance activities.	Use As Is		
2214	5-23-79	E-655. Expansion Anchors for conduit support 1AVA017, spaced incorrectly; stud anchor not marked/coded.	Test & Use As Is		
2215	5-23-79	M-617-11. Valve 8"HBC-BF has gross arc damage to stem.	Rework		
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.	Rework	6-18-79	L. Brown
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 G-321D, wrong rev. to Spec. on certificate of compliance.			

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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.	N/A		
2221	5-30-79	E-42 Conduit Supports. Unistrut attachment to liner on center of L3" x 2" stiffner.	Rework		
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, has no welders stamp.			
2226	5-31-79	Hanger 2-619-4-18. Structural tubing installed by the field is not heat traceable.	Rework		
2227	6-1-79	F-3103. Material received from Wiltse does not have quality verification documentation or G-321D form with shipment.			
2228	6-1-79	C-208. Cylinders being tested, curing tank #6 had a temperature exceeding the maximum by 1°F.	Use As Is		
2229	6-4-79	Hanger, small pipe, 1HBC-207-1-H4, embedment length of expansion anchor bolts used is less than the 5" requirement.	Use As Is	6-27-79	F. Mahala T. Arritola
2230	6-5-79	M-106AC. CS pipe clamps rec'd on shop order EMD-429-01 have incomplete or incorrect mark numbers.	Rework		
2231	6-5-79	Dwg. E-599. Service water pumps. Polarization values on motors do not conform to FPE 2000.			
2232	6-5-79	Spool 1ELB-9-631-1-9. Linear indications on spool are in excess of those allowed by specification M-204.			
2233	6-5-79	E-60. No QVD package received for Instrument & Special Purpose Cable (H08) (H16)	Doc. Rework	6-29-79	T. J. Estes
2234	6-5-79	E-60. No QVD package received for Instrument & Special Purpose cable (S-09) (I-05)	Doc. Rework	7-31-79	T. Estes
2235	6-5-79	E-27952. No CMTR received for material on MRR AEO-9692	Doc. Rework	6-18-79	T. Estes
2236	6-6-79	M-14. Pump Lube Oil Coolers do not meet requirements of ASME section III class 3.	Rework		
2237	6-6-79	M-104A. No documentation rec'd for 1½" Ell rec'd on AEO-9645. No line designation on fitting.	Doc. Rework Reject	7-26-79	M. J. Moore

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2238	6-6-79	M-104A. No documentation rec'd for 3-2½" flanges rec'd on AEO-9667. No line designation data marked on fittings.	Doc. Rework Reject	7-26-79	M. J. Moore
2239	6-6-79	C-231. Air entrainment of concrete in Pour CC(674.67)a' too low.	Use As Is		
2240	6-7-79	E-42. Conduit Supports, type 23, not installed in compliance with spec., exceeds max. ½" gap betwn. support angle & beam			
2241	6-7-79	E-615. Expansion anchors for junction boxes skewed in excess of 3° from perpendicular with the mounting surface.	Rework	7-21-79	L. Harrison
2242	6-7-79	Pipe Spool OHBC-76-657-44-8, has a cut in the 45° elbow, 2" long.	Std. Repair		
2243	6-7-79	Pipe Spool 1HBC-95-619-4-3, has an arc strike approx. 4' east of fw 24, 2" long.	Std. Repair		
2244	6-7-79	Check valves 439-3-010 and 439-3-023 are installed in a different location in the system as indicated on P & ID			
2245	6-7-79	M-131AC. 1"MCC-Dia Valves; discrepancies in documentation no traceability on studs & hex nuts, pages missing	Doc. Rework		
2246	6-7-79	F-35791. Bolts, nuts & washers received with no certificate of compliance	Doc. Repair		
2247	6-7-79	E-657 Sh. 1. Expansion anchors installed on conduit supports 1BG049 and 1AG042 are not marked/coded.	Test & Use As Is		
2248	6-8-79	E-36066. Burndy lugs received with no statement of conformance.	Doc. Rework	7-6-79	R. Montreiul
2249	6-11-79	Expansion Anchors on NCR-1994; a structural beam was set over these expansion anchors without a conditional release.	N/A		
2250	6-11-79	Pipe Spool 2HBC-109-619-17-1 has a gouge between FW 4 and 5 making wall thickness below minimum standards.	Std. Repair		
2251	6-11-79	Pipe Hanger 1HBC-206-1-H9, baseplate cut off & different baseplate welded which has no visible identification marks	Rework	6-30-79	E. Urbanawiz
2252	6-11-79	Pipe spool 2EBB-15-634-1-1, removel of arc strike violated minimum wall thickness.	Std. Repair		
2253	6-11-79	Hanger 4" 2CCB-70-H11, per design drawing a double fillet weld is required for item 4 to 2, weld cannot be made.	Rework		
2254	6-11-79	C-337, Angle splices; work completed to FCN-C-91 & designated non-Q prior to issuance of FCR 1813 & no QC inspection performed.			

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2255	6-11-79	E-657 Sh. 1. Conduit support 1BVA007 welded, welder's WR-6 form for that day shows his work as being non-Q.			
2256	6-13-79	F-32165. Rear brackets and rod ends of sway struts rec'd. welded in place; P.O. requires them to be banded.	Reject	7-6-79	R. Valentine
2257	6-12-79	C-110. Liner Plate Coatings; wrong coating being applied to welds and liner plate surrounding welds w/no surface preparation.			
2258	6-12-79	M-154AC. HVAC Isolation Valves, discrepancies in documentation; no item no.s on some doc., G-321-D partly illegible	Doc. Rework		
2259	6-12-79	F-33741. 20 Resistors received on AEO-9721 have no traceability to P.O., packing slip or markings on material			
2260	6-13-79	M-104AC. Four pieces of 24" pipe received on AEO-9699 have no line designation data marked on it.			
2261	6-13-79	C-305. 6" anchors delivered without traceability to Form G-321-D and Certificate of Compliance.	Doc. Rework		
2262	6-13-79	M-1.16. RCS Makeup Pumps delivered from vendor do not have nameplates which are required.			
2263	6-14-79	Hanger 1HBC-196-2-H4, wrong diameter expansion anchors used for installation; also does not meet min. embedment requirement.	Rework		
2264	6-14-79	E-205. 4160 Switchgear, rodents have chewed & bared wiring to CT's and control switches.	Rework		
2265	6-14-79	M-618 Sh. 1. C/S pipe; butt welds are not full penetration, weld is not completely fused around the joint.	Rework		
2266	6-14-79	E-617 Sh. 2. Conduit support, type 12, installed with P1001 instead of the required P1001A3.	Rework		
2267	6-14-79	E-617 Sh. 2. Conduit support, type 12, to be installed with 2"x 2"x¼" tube steel (min.), field used P1001.	Rework		
2268	6-14-79	F-30537. A portion of the studs received have no identification marking, the majority have illegible markings.			
2269	6-15-79	M-167. Service Water Piping 26" OHBC-54, wall thickness indeterminate, soil sample drill bit hit this line.			
2270	6-15-79	E-900. Termination was made with 2BD2001AP as positive and 2BD2001X as negative which is not as required by dwg.	Rework		
2271	6-15-79	F-36480. Bolts received on AEO-9874 received with no marking at all on the bolt heads.	Reject		

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2 NRC NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
2272	6-15-79	M-104A. Concentric reducers, G-321-D not signed by shop inspector; no line designation data or spool number on concentric reducers.			
2273	6-15-79	Hanger 2½" 1CCB-24-H14 has no visible identification and cannot be traced to a certificate of compliance.			
2274	6-15-79	Hanger 8" 1CCB-15-H56 has no visible identification and cannot be traced to a certificate of compliance.			
2275	6-15-79	Hanger 3" 2CCB-63-H3 has no visible identification and cannot be traced to a certificate of compliance.			
2276	6-18-79	Hanger 6" 2EBB-13-H15, has no visible identification and cannot be traced to a certificate of compliance.	Rework		
2277	6-18-79	Hanger 6" 2EBB-6-H8 has no visible material identification and cannot be traced to a certificate of compliance.			
2278	6-18-79	Hanger 10" 1CCB-2[illegible]-H4 has no visible marking and cannot be traced to a certificate of compliance.			
2279	6-18-79	F-3150. Misc. Pipe Fittings. ½" plugs have no sizeoor service rating stamped and no service rating listed on CMTR's.			
2280	6-18-79	F-3103. Packing list and documentation received with material from Wiltse has several discrepancies between packing list & material.			
2281	6-19-79	J-258AC. Butterfly valves received with only G-321-D, no other documentation. Nameplate taped to inside of valves.	Doc. Rework		
2282	6-19-79	E-617 Sh. 2. Expansion anchors used to install support conduit run and junction box. Expansion anchor not to be used.			
2283	6-20-79	Stud expansion anchors are not installed with the required minimum embedded length.			
2284	6-19-79	M-183 Sh. 1. Two reinforcing bars in slabs were cut on the same face, in the same direction for pipesleeve on line 0JBD-42.			
2285	6-20-79	Hanger expansion anchors have been installed below minimum embedment requirements.			
2286	6-20-79	Wires in wireways in 4 panels are pulled so tight that wireway covers cannot be reinstalled. Pieces of wood used in wireways as braces.			
2287	6-21-79	M-127 Check valve 1"-CBC-CK edges have forced together & surrounding paint is chipping away.			
2288	6-21-79	J-218 Instrument tubing to 0P1-1422B, 0P1-1424A, 0P1-1424B has been damaged by filing of weld fit-up scribe mark.			
2289	6-21-79	Torque Wrench BPC-2175 out of calibration thereby making torque tests made during 5-30-78 thru 2-20-79 indeterminate.			
2290	6-22-79	2ELB-12-S632-3-2 & 3-3, spools, thermocuples welded to line w/o QCIR W-1.00B being issued, also 2 were welded to code data PH.	Rework	7-23-79	D. Kimbro

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
2291	6-22-79	C-1.50 Hanger 1HBC-196-2-H4, work was done on this NCRed hanger without documentation approval.	Rework	6-28-79	L. Brown
2292	6-22-79	C-305 Expansion anchors are still available and being issued from electrical crib unmarked.			
2293	6-22-79	E-42 Supports for conduit 2ASA014 was installed using 3"1/4" as a min.	Use As Is		
2294	6-23-79	C-211 Twenty-two (22) failing soil density tests have not been reworked.			
2295	6-23-79	C2-146-7 Coiled tendon wires wasreleased from storage &installed &no form was issued to cover inspection of this equipment.			
2296	6-22-79	G-27 Pipe Restraint PR 631-1-30, Items on attached sheet were welded with gaps From 1/4" to 5/16".			
2297	6-21-79	Wall Mount Instr.stands was installed with base plates welded to existing steel with 4,-1 1/2" fillet welds.			
2298	6-21-79	J-233 Discrepancies betweendoc. item nos. and tag item nos. on thermowells.	Rework		
2299	6-22-79	C-111-232w Radiation Shield, Items were welded without complete fit-up inspection by weld engin. inspectors.			
2300	6-23-79	F-10-19 Component Cool Wtr. Pump Motors were released to field for installation &no maintenance inspectionswas preformed.			
2301	6-25-79	F-36664 G.E. Control Switches, No documentation was received.	Reject	7-12-79	B. MacGlashan
2302	6-25-79	J-201 Control Panels interal have sharpe edges&damaged factory installed wire & will damage the wire being installedfor modifi.	Rework		
2303	6-25-79	F-1-467 Component cool wtr. Pumpmotors, storage maintenance Inspec. was never preformed, activity 2.3 was never preformed.	Rework		
2304	6-25-79	C-24 6-Housing cover gaskets,no inspection release or doc. has been received making items nonconforming.			
2305	6-25-79	E-22 3/C 350 MCM Cable, cables have splits varying in length & depth. Repair work performed to FCN-E-825, not required.	Repair, Use As Is		
2306	6-26-79	C-304 Field worked through NCR-2161. No conditional release obtained.	Rework		
2307	6-27-79	C-211 Yard Area Soils tests, tests failed to meet specification because of low densities.			
2308	6-27-79	F-36501. 3" .216W LR 90 E11, no G-321-D form was received.	Doc. Rework	7-6-79	T. J. Estes

LOG OF NONCONFORMANCE REPORTS

BECHTEL

PROJECT NAME: Midland JOB NO.: 07220 837 191 PAGE: 141

2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
2309	6-27-79	Service Water Pumps w/Motors, no seven day "in place" maintenance inspections made since 3-29-79.			
2310	6-28-79	Valves, IXV-0324A & IXV-034B, were removed from their installed design location without proper documented approval on NCR-1933			
2311	6-28-79	E-650 Sh. 1. Conduit support, 2HBD-442 is non-Q, welded to Q-listed beam; no project approval for installation of 2HCD-204.			
2312	6-28-79	Burndy crimp tool, BPC-2527), did not pass the Go, No Go Test and ratchet releases before the jaws close. Tool used on Q terminations.	Rework		
2313	6-29-79	Violation of Hold Tag; cable pulling performed which caused working through a hold tag from NCR-1929.			
2314	6-29-79	E-532. Motor Control Center, 2B23, splice buses between shipping sections installed without documentation to conform with requirements.	Rework		
2315	6-29-79	F-3152. Sch. 80 Smls C.S. Pipe, vendor supplied G-312-D against wrong spec. revision information required on G-321-D is incomplete	Doc. Rework	7-5-79	R. A. Montreuil
2316	7-2-79	Dwg E-610. Panel 2BP03 installed using embeds that were too short			
2317	7-2-79	E-22. Incorrect embeds used to install distribution panels 1BP04 & 2BP04.	Use as is	7-30-79	Spinks
2318	7-2-79	Dwg E-632. Control Panels OC151 and 1C150 have water setting in them due to improper protection from environmental conditions.			
2319	7-2-79	E-22. Cable #2BB1805B - Reel #4751 has a vendor flaw, in the individual copper conductor (red), affecting the outer strands	Reject Rework		
2320	7-2-79	Dwg. FSK-JBI-0033 sh 1. Field welds made on instrument tubing without prior verification of internal cleanliness.			
2321	7-2-79	M-1.7. Non documentation has been received forTab Washers. Byron Jackson order #793-S-3630			
2322	7-3-79	Dwg. M-179. 30" Temp flex expansion joint stored in the Aux. Bldg. without conforming to the field procedure FPG-4.000 & 5.000	Rework		
2323	7-3-79	C-50B. Aux. Air Tank Ass'y. Generic welding problem discovered during receipt inspection on supports; weld splatter, under-cut, etc.			
2324	7-3-79	Conduit #1BJ035. During the pull out of conduit, cable became bound w/existing cables causing stress	Rework		
2325	7-6-79	C-50B. Numerous ducomentation problems and structural defects in Aux. Air Tank Assemblies.			
2326	7-9-79	F-36024. Round head plugs & threaded hex head bushings received with incomplete identification markings as called for by P.O.			
2327	7-9-79	M-18AC. Starting Air Receivers, tags do not have buyer order no.; no traceability from welders to welds in doc. or weld markings.	Doc. Rework	7-27-79	R. MacGlashan

LOG OF NONCONFORMANCE REPORTS

BECHTEL

PROJECT NAME: Midland JOB NO: 07220 837 192 PAGE: 142

2 NRC NO	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO	6 DATE NCR CLOSED	7 CLOSED BY
2328	7-9-79	C-24. Sluice gates w/ lifting operators released to construction without maintenance compliance to FPG 5.000.			
2329	7-9-79	CRD Primary AC Breakers, dehumidifiers have not been properly maintained, causing oxidation of bolt holes on bus bars of panels.			
2330	7-9-79	Concrete slab at 628'6", rebar cut (no. 11).			
2331	7-10-79	Check Valve 2½" CCB-CK-L (403-2-061), both hinge pin covers & hinge pins disassembled without use of field instruction FIP-2.112.			
2332	7-10-79	M-1.7. T-304 SS Safety Wire delivered without documentation.			
2333	7-10-79	M-1.1. Dowels for DRDM indexing hole Mod. FCA-34 received without documentation.	Doc. Rework	7-25-79	D. A. Delaney
2334	7-10-79	J-256AC. Solenoid valve, tag # 2SV-3969A, received with name-plate marked with incorrect serial number.			
2335	7-10-79	OHBC-17-619-8-1, pipe spool damaged, has an arc strike approximately 7/8" in diameter.			
2336	7-10-79	F-27952. 48 ea. 3/4" to 3/8" socket weld tube reducer, are not marked with alpha-numeric code B-31.			
2337	7-10-79	E-12AC. 125 volt station battery, supplier release twx and quality verification documentation not received.	Use As Is		
2338	7-11-79	C-306. Rebar (#11) was cut at the top of D/5.6 pilaster while core drilling for hanger.			
2339	7-11-79	Spec. M-342. Q piping & components have a gross amount of concrete, also within pipe spool 1FCB-19-610-7-8.	Rework		
2340	7-12-79	C-306. Grouted anchor bolts for hanger in concrete block walls, contrary to spec. requirements.			
2341	7-12-79	Hanger 8" 2GCB-15-H21, sketch shows part 4 attached to part 2 with fillet welds; part 5 attached to part with no weld symbol.			
2342	7-12-79	F-3107 Rev. 24. G-321-D form received with documentation for the restraint material received on AEO-9764 is from Rev. 14 of Spec. C-233.	Rework Doc.		
2343	7-13-79	Dwg. FSK-M-1HBC-207-1, 3/4" globe valve is inoperative due to piping insulation interference.			
2344	7-13-79	E-750 Sh. 1, Anchor center to center spacing do not meet requirements of Spec. C-305.			
2345	7-14-79	Dwg. E-611. Conduit Installation 1BJE002. Conduit has total of 405° between pulling points. Anchor bolts do not meet dwg. dimensions.			
2346	7-14-79	Dwg. M-631 sh. 3. Block welding done pipe spool 1ELB-12-631-3-1 This is not permitted by Spec. G-27 and M-204.	Use As Is		

LOG OF NONCONFORMANCE REPORTS

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PROJECT NAME [1] Midland JOB NO. [1] 07220 PAGE [8] 143

[2] NRC NO.	[3] DATE	[4] NONCONFORMANCE DESCRIPTION / REMARKS	[5] DISPO.	[6] DATE NCR CLOSED	[7] CLOSED BY
2347	7-14-79	Dwg. FSK-M-1HBC-196-2. Gouge in pipe violates minimum wall thickness.	Std. Repair Use As Is		
2348	7-16-79	FSK-M-2EBC-3-1, SW #10 was welded completely prior to the attachment of copy #4 of QCIR W-1.00B or fit-up acceptance by the F.W.E.	Rework		
2349	7-16-79	Dwg. 632-1. F.W. 106 welded by unqualified welder.			
2350	7-16-79	C-211. Backfill Sand, test number 4407 from stockpile had only 96% passing the 3/4" sieve.			
2351	7-16-79	F-34750. Orfice flanges received on AEO-10114 without a G-321-D form.			
2352	7-17-79	E-60. Quality verification documentation packages not received for cable code I05-2892' 24/C, reel B-5871; reel 4016-650' indeterminate.			
2353	7-17-79	E-37 Cable Scheme #0AY3307A and 1AD1101A was pulled without QC verification and documentation.			
2354	7-18-79	F-1-505 48"Motor operated BF Valves, were left outside, heaters not energized, not covered with plastic, in containers exposed to weather.			
2355	7-18-79	FPG-4000 Q Valves (storage) are not being seperated from non-Q valves Valves were found with ends uncapped & dirt&dust inside.			
2356	7-18-79	FPG-4.000 Outdoor staging area for storage, Q &non-Q hangers stored together, scrap material stored in area, valves in pipe not capped properly.			
2357	7-17-79	E-26. 600 volt control cable 5150', reel G010288A has an uncapped or taped cable end.			
2358	7-19-79	E-629. Control panel, 2C166, vendor drawing has descrepancies in relation to project engineering approved REM-J120 for installation			
2359	7-19-79	E-657 Sh. 1. Conduit supports, 1CVA021, 1CVA022, no project eng. approval for center to center distance being being less than 7½".			
2360	7-19-79	C-304. Spec. 304 states requirements for minor repairs per sec. 11.3.1 & 11.3.3; these sections do not exist in spec.			
2361	7-20-79	FSK-M-196-197-204-205; reinspection on socket welds were found undersized and unacceptable.			
2362	7-20-79	E-205 4160V. Switchgear, 2A06, sliding links have split upon tightening.	Rework		
2363	7-20-79	E-643. Stud anchors used for installation of supports were uncoded.			
2364	7-20-79	C-304 Conduit Support, installed with continuous across the flange weld.			
2365	7-21-79	C-304, Four fillet welds were completed across the flange of beam #507B12, without project engineering approval.			

LOG OF NONCONFORMANCE REPORTS

PROJECT NAME: Midland JOB NO: 07220 837 194 PAGE: 144

2 NRC NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO	6 DATE NCR CLOSED	7 CLOSED BY
2366	7-21-79	E-22. 3/C #350 MCM Cable, Reel indeterminate due to flaws in cable scheme 1AB1702 B & 2BB1805 B.			
2367	7-19-79	F-3150. Socket weld reducing inserts; no G-321-D received with quality verification documentation.			
2368	7-19-79	F-35159. Hilti Kwik Bolts, received on AEO-9949 without documentation.	Doc. Rework	7-23-79	M. Moore
2369	7-19-79	F-34876. Studs and nuts received on AEO-9981 has no G-321-D.			
2370	7-19-79	F-35266. Studs received on AEO-9909 has no G-321-D.			
2371	7-19-79	E-757. Bracing; 2 areas of excessive grinding that required major repair were repaired without project engineering approval.			
2372	7-23-79	E-650 Sh. 1. A 3/8" stud anchor installed 1½" from abandoned hole & hole was not repaired prior to loading the anchor			
2373	7-24-79	C-1AC. Post-tension tendons have wire lengths indeterminate because of a malfunction of the automatice cut-off shears.			
2374	7-24-79	M-619 Sh. 17. Field welds 10, 11, 12, 13, 15 were made by welder P-742 who was not qualified in the weld procedure used.			
2375	7-24-79	FSK-M-2CCB-33-3. Socket weld 12 has no fit-up scribe marks leaving fit-up of socket weld indeterminate.			
2376	7-24-79	M-614 Sh. 11. Pipe spools 2HCD-151-S-614-11-2,3; installed in contact with four "Q" listed conduits & an unscheduled pullbox.			
2377	7-24-79	C-304. Across the flange welding performed without prior approval of project engineering.			
2378	7-24-79	F-3107. Welding performed on misc. fabricated metals with weld procedures that were not prequalified to Bechtel dwgs. & specs.			
2379	7-25-79	E-650 Sh. 1. A type 14 conduit support for 2AG083 is welded continuously across the bottom flange of the beam.			
2380	7-25-79	Service Water Strainer, OF-75C, mounting holes are not spaced as called for on dwg. M-180-2-5.			
2381	7-25-79	Make-up pump, 2P-58B, during maintenance inspection, metal rubbing sound originating from within the pump casing area.			
2382	7-25-79	C-2. Installed post tensioning tendons, one wire in tendon V-77-2 does not have a buttonhead on shop end of tendon.			
2383	7-25-79	C-2. Installed post tensioning tendons, horizontal H21-234 & H21-236 have tendon wires with a Level E rating due to rusting & pits.	Reject		
2384	7-26-79	C-485. Bolts installed in pipe restraints 611-1-6A & B w/o a hardened washer under the bolt head.			

LOG OF NONCONFORMANCE REPORTS

BECHTEL

PROJECT NAME: Midland JOB NO.: 07220

837 195

NRC NO.	DATE	NONCONFORMANCE DESCRIPTION / REMARKS	DISPO	DATE NCR CLOSED	CLOSED BY
2385	7-27-79	1-GCB-33-M-610-5, temp. lugs to FW 39 welded one day before issue-ance of the QCIR W-1.00B, no IR on pipe joint.			
2386	7-27-79	Dwg. M-619 sh. 18. Block welding done on FW#36. Weld passes not completed circumferentially before other passes were made.			
2387	7-27-79	Pipe Spool 2ECC-1-S602-3-1 not cleaned in accordance with the spec. requirements of M-342.			
2388	7-27-79	Dwg. M-619 sh. 9. Welder not qualified to weld sockolet on 6" HBC line.			
2389	7-27-79	C-231. Integrity of grout repair in secondary shield wall is in-determinate . Elev. 610' ± "C"			
2390	7-30-79	M-180. OF-75B. Weld Repair done on strainer after AI sign-off on N-2 form thereby voiding N-2 form in QVD package.			
2391	7-30-79	F-10-206. 460 V. Motor Control Centers in storage. No power going to the heaters.			
2392	7-31-79	G-27 Socket welds not in accordance with ASME or QC procedures.			
2393	7-31-79	C-304. Web of embedded steel is cut completely through. Requires major repair & project eng. direction.			
2394	7-31-79	Spec. C-231. Blockwall has 52 hours lapsed since placement with-out moist curing within a seclect area of the blockwall.			
2395	7-31-79	E-750 Sh. 1. Drop-in anchor was installed too close to an abandoned hole which was not repaired prior to loading the anchor.			

837 196

S/N # 2PRA

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO. 07220			19. NO. ~~2315~~ 2316	20. PAGE 1 OF 1
2. UNIT(S): 2	3. DRAWING/PART NO.: E-610	REV: 11	4. ITEM DESCRIPTION: Distribution Pnl 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 (X) SPEC (X) OTHER IR NO. C.I. 50-E# 279 NO. E-45	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: Contrary to the instructions in IOM BEBC-2624, which requires 3/8" Expansion anchors with 5" embed, Panel 2BP03 was installed using E Length coded anchors. Code E designates > 3½" up to but not including 4" Length

Q List 3.108 Hold for Engineering Disposition

1 Hold Tag Applied

17. REPORTED BY: [signature] DATE: 6/29/79

18. VALIDATED BY: [signature] DATE: 7-2-79

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

Corrected Copy

837 197

NONCONFORMANCE REPORT

S/U 1PRB & 2PRB

1. PROJECT NAME	JOB NO.			19. NO. 2317	20. PAGE 1 OF 2
Midland	7220				
2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION	
1 & 2	E-610	11	Distribution Panels 1BP04 & 2BP04	Aux Bldg 584'	
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		CONST	N/A	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC (X) OTHER IR NO. CI 50-EH 279 NO. E-45	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Rec'g (X) Const ( ) Test	15. Equi Furnished By ( ) Client (X) ng ( ) FLD	

16. NONCONFORMING CONDITION: IOM BEBC 2624 requires 5" embed of anchors supporting 1 & 2BP04. Contrary to this requirement, there are 11 coded length anchors used on both panels. H code indicates From 5" to but not including 5½" length.

Hold for Engineering Disposition 2 Hold Tag applied
Q-List # 3.108

17. REPORTED BY: [signature] DATE: 7/2/79

VALIDATED BY: W. A. Barclay DATE: 7-12-79
W. A. Barclay 7-2-79

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

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

"USE AS IS"

W. B. Hagen 7/11/79

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

POOR ORIGINAL

NONCONFORMANCE REPORT (CONT'D) 1. PAGE 2 OF 2 14. NCR NO. 2317

BLOCK 16 CONTINUED

The anchors installed are Hilti and all H coded Hilti anchors that I have measured were 5.0" Long. The shortest exposed length measured was .75" leaving 4.25" embedded. This does not leave the required 5" embed stated in the IOM

QC 7-12-79 Sj 7/12/79

Corrected Copy

POOR ORIGINAL

10098-2

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

QC-G3-3

b

BECHTEL

NONCONFORMANCE REPORT

s/u IGTA, OGLA

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 2318	20. PAGE 1 OF 1
2. UNIT(S): 1	3. DRAWING/PART NO.: E-632	REV: 6	4. ITEM DESCRIPTION: Control Panels OC151, 1C150		5. ITEM LOCATION: 685' 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: Const.	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER	IR NO. E&O-153,154 NO. J-202 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: Control Panels OC151 and 1C150 Both have water setting in them whenever it rains. This condition is due to improper protection from environmental conditions.
NON-Q Panel OC155 in the same area also has this problem.

E

Q-list 5.032 Hold for ENG. Disposition 2 Hold Tags

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
George Young	7-2-79	~~[illegible]~~ Barclay	7-2-79

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

837 199

NONCONFORMANCE REPORT

S/U 2PHF

1. PROJECT NAME: Midland	JOB NO.: 07220			19. NO. 2319	20. PAGE 1 OF 1
2. UNIT(S): 2	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: 3/C #350 MCM (Cable Code B-10)	5. ITEM LOCATION: Installed	614' Area 3
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 Wire + Cable Co.	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. 2BB1805B 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: Scheme Cable # 2BB1805B Reel # 4267 Has a Vendor Flaw, In The Individual Copper Conductor (Red), Affecting The Outer Strands. The Nature of The Flaw Is an Indentation Approx. 1/32" Deep, For The Length Of The Cable Cut.

E

Hold for Engineering Disposition

Q List #3.003

2 Hold Tags Applied

17. REPORTED BY: James L Henderson DATE: 7-2-79

18. VALIDATED BY: DCB W Barclay DATE: 7-2-79

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

837 200

SU # 18CA

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 2320	20. PAGE 1 OF 1
2. UNIT(S): ONE	3. DRAWING/PART NO.: FSK-JB1-0033 sh1	REV: 0	4. ITEM DESCRIPTION: Cleanliness of Instrument tubing	5. ITEM LOCATION: Aux Bldg Elev 568'	
6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART P/N ____ REV ____ SER NO. ____	9. SOURCE	10. CONTRACTOR/SUPPLIER	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. NO. J 218 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: Technical Specification J-218 sec 6.4 states in part: "Prior to installation, all tubing shall be visually checked for cleanliness." Contrary to this Field Welds 12, 13, 14, 15, 16, 17, 18, 19 & 20 were welded without prior verification of internal cleanliness (on dwg FSK-JB1-0033-1). One Hold Tag applied to tubing. Q list # 5.034

17. REPORTED BY: E. Urbanowicz DATE: 6-26-79

18. VALIDATED BY: [illegible] Barclay DATE: 7-2-79

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

POOR ORIGINAL

837 201

BECHTEL

NONCONFORMANCE REPORT

S/U - B & W Equipment

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO. 2321	20. PAGE 1 OF 2
2. UNIT(S): 1 & 2	3. ~~DRAWING~~/PART NO.: 650683	REV: N/A	4. ITEM DESCRIPTION: 70 EA. TAB WASHERS BYRON JACKSON ORDER # 793-5-3630 (for R.C. Pumps)	5. ITEM LOCATION: WHSE. 1	
6. P.O. ~~OR SPEC NO.~~: M1-7	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV ____ SER NO. ____	9. SOURCE: SUPPLIER	10. ~~CONTRACTOR~~/SUPPLIER: BABCOCK & WILCOX	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER IR NO. R2.00-4910 NO. SEE BLOCK 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: PQCI R-2.00 & R-2.20 Rev. 4 requires review of the B&W and or supplier furnished QA documentation for availability, legibility and traceability. Contrary to the above, no documentation has been received for the material listed above. "Q" numbers are 4.015 & 4.025. Hold pending final disposition. One hold tag applied.

Continued on Page 2

17. REPORTED BY: Dean A. DeLaney DATE: 7/2/79

18. VALIDATED BY: T.D. Barclay DATE: 7-2-79

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

POOR ORIGINAL

837 202

Block 16 Con't.

A conditional release has been granted to allow relocation of storage and installation of the Tab Washers.
Correction or removal can be accomplished without causing damage or contamination to associated plant equipment or structure.

7-2-79
PFE Date

7-2-79
PFQCE Date

7/2/79
for. PQAE Date

POOR ORIGINAL

S/U 1BKA
2BKA

NONCONFORMANCE REPORT

1. PROJECT NAME: MIDLAND	JOB NO. 7220			19. NO. 2322	20. PAGE 1 OF 2
2. UNIT(S): 1 & II	3. DRAWING/~~PART NO.~~: M-179	REV: 2	4. ITEM DESCRIPTION: 30" TEMP. FLEX EXPANSION JOINT		5. ITEM LOCATION: WING WALLS EL 564
6. P.O. OR ~~SPEC NO.~~: M-112 Rev 2	7. SERIAL NO.: See Blk 16	8. REPLACEMENT PART P/N N/A REV ____ SER NO. ____	9. SOURCE: SUPPLIER	10. ~~CONTRACTOR~~/SUPPLIER: ASSOCIATED PIPE & ENGINEERING Co.	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER IR NO. N/A NO. FPG 4.000 5.000	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: SF/PSP 4.5.1 Rev 4 para 4 Surveillance Inspection of Maintenance Activities States in part, para 4.1.1; ... ALL "Q" LISTED PERMANENT PLANT EQUIPMENT AND MATERIAL IS MAINTAINED IN ACCORDANCE WITH THE REQUIREMENTS OF FPG 4.000 & FPG 5.000... CONTRARY TO THE ABOVE, (CON'T ON Pg 2) "Q" NUMBERS 4.129 & 4.139 1 HOLD TAGS AFFIXED

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
K. Deitz	7-2-79	7/2 M.C. Barclay	7-3-79

21. ROUTING: XX 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

POOR ORIGINAL

(PAGE 2- BLK 16 CON'T)

THE FOLLOWING EQUIPMENT HAS BEEN STORED IN THE AUXILLARY BLD WITHOUT CONFORMING TO THE FIELD PROCEDURE AS LISTED BELOW:

ITEM	DESCRIPTION		
30" TEMP FLEX EXPANSION JOINT	1-XJ-1201	SN	J-0458
	1-XJ-1202		J-0459
	2-XJ-1301		J-0460
	2-XJ-1302		J-0461

ITEM 1 - MATERIAL RECEIVED 5-20-77, RELEASED TO FIELD FOR CONSTRUCTION 6-22-78. THE F-1 FORM WAS ISSUED 12/13/76 NO FIELD INSPECTIONS HAVE BEEN PERFORMED.

ITEM 2. MATERIAL STORED IMPROPERLY - PIECE XJ-1201 & XJ-1202

1) EXPANSION JOINTS NOT ON CRIBING AND EXPOSED TO WATER.
2) A PIECE OF 10" PIPE IS STORED ON TOP OF JOINT 1-XJ-1202.

K. Deitz 7-2-79

POOR ORIGINAL

X

NONCONFORMANCE REPORT

S/U Non-Faithful Weld

1. Project Name: MIDLAND Units 1&2	Job No. 7220			19. No. 2323	20. Page 1 of 2
2. Unit(s): N/A	3. ~~Drawing~~/Part No.: SEE ITEMS "A" THRU "F"	Rev: N/A	4. Item Description: AUX. AIR TANK ASSY.	5. Item Location: WAREHOUSE #1	
6. P.O. Or ~~Spec No:~~: 7220-C-50-13-AEO-9838-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: PROGRESSIVE FABRICATORS, INC.	

11. Inspection Criteria: ☐ DWG ☒ SPEC ☐ OTHER — IR NO. R-100-9838, NO. C-50 Rev 14

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 GENERIC WELDING PROBLEM HAS BEEN DISCOVERED DURING RECEIVING INSPECTION ON THE FOLLOWING SUPPLIER FURNISHED, AUX. BLDG., AIR TANK ASSY. SUPPORTS. EXAMPLE: WELD SPATTER, UNDER-CUT, BURN-THRU. INSUFFICIENT THROAT, EXCESSIVE CONVEXITY, INCOMPLETE FUSION AND OVER-LAP, CRACKS. (FILLET WELDS) ALSO TEN (10) CRACKS WERE NOTED IN ONE OF THE SUPPORTS.

17. Reported By: John C. Braun — Date: 7-3-79

18. Validated By: W. T. Barclay — Date: 7-3-79

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

POOR ORIGINAL

837 206

BECHTEL

NONCONFORMANCE REPORT (CONT'D) 1 PAGE 2 OF 2 14 NCR NO. 2323

Cont. of Block "16."

A. MFG. Serial No.# 1523-L6
B. MFG. Serial No.# 1523-L5
C. MFG. Serial No.# 1523-L8
D. MFG. Serial No.# 1523-L10
E. MFG. Serial No.# 1523-L1
F MFG. Serial No.# 1523-L9 Q.List

Hold for Engineering Disposition, 2 hold Tag's Applied.

POOR ORIGINAL

837 207

NONCONFORMANCE REPORT S/U 1PEB

1. PROJECT NAME: Midland	JOB NO.: 07220			19. NO. 2324	20. PAGE 1 OF 2
2. UNIT(S): 1	3. DRAWING/PART NO.: See Scheme No. in Block 16	REV:	4. ITEM DESCRIPTION: Cable	5. ITEM LOCATION: Area 3 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 ( ) SPEC (X) OTHER IR NO. IBA0602 V NO. 42132		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: Cable damaged during pull. Cable was pulled through conduit #IB-035 without QCE monitor. To satisfy "Q" pull requirements, subject cable was pulled out of the conduit for the purpose of repulling with QCE monitoring. During the pull out of the conduit, the cable became bound with existing cables in the conduit causing stress on the cable. After the cable was pulled out there were several locations in the cable where the outer jacket was wrinkled extensively

17. REPORTED BY: Neil W. Unsworth DATE: 7/3/79

18. VALIDATED BY: W. A. Barclay DATE: 7-3-79

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

POOR ORIGINAL

8211 208

BECHTEL

Block #16 Cont. NONCONFORMANCE REPORT (CONT'D) 1 PAGE 2 OF 2 14 NCR NO. 2324

indicating overstress. There is approximately 30 ft. of cable with damage identified visually, other damage, such as breakdown of insulation is indeterminant.

The friction plus stress on this cable may have caused damage to other cables existing in the conduit rendering the quality indeterminant.

Other cables that may have been affected are;

1BB1802F
1BB1801E
1BQ121D
1BB2417D
1BQ155E
1BA0605G (2 cables identical marking)

Q-List number 3,007 Two (2) Hold Tags Applied.

Hold For Engineering Disposition.

POOR ORIGINAL

837 209

X

BECHTEL

NONCONFORMANCE REPORT

S/U - Non-Testable Unit

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 2325	20. PAGE 1 OF 2
2. UNIT(S): 1 + 2	3. DRAWING/PART NO.: Unavailable	REV	4. ITEM DESCRIPTION: 4- BOX. AIR TANK ASSEMBLIES FOR PERSONNEL & EMERGENCY AIRLOCKS	5. ITEM LOCATION: Work #1	
6. P.O. ~~OR SPEC NO.~~: C-50-B REV 11	7. SERIAL NO.: see block 16	8. REPLACEMENT PART P/N ____ REV ____ SER NO. N/A	9. SOURCE: Supplier	10. CONTRACTOR/SUPPLIER: W.F. Hockley Co/ Progressive Fabrication	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER — IR NO. C-1.00-9838 NO. C-50-Rev 14	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:

1. Specification 7220-C-50 Rev. 14 states in Part: The seller will furnish detail drawings of all items and their connections. Contrary to the above, no drawing is available for the 3 tank assemblies containing tanks S/N 152349, 610, 611 and S/N 152365, 66, 68. Drawing 7220-C50R-207-2 for 2 tank assemblies is stamped "For information only." (cont. page 2)

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
R.W. Mc Walt	7-6-79	(JH) W.F. Barclay	7-6-79

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

POOR ORIGINAL

837 210

Block 16 cont.

2. Specification 7220-C50, Rev. 14 states in part, All required mill test reports and inspection certificates must accompany the material shipment to the jobsite. Contrary to the above, No documentation was received on the support members, air boosters and accessories. (SDR-878 - waived requirements for the mill test reports for the tanks only.)

3.(a) Unit containing tanks S/N 152364, 67 has a large area of oil in bottom of shipping crate, also 1 pressure gauge is missing glass cover.

(b.) Unit containing tank S/N 152362, 63 has 2 glass covers missing on pressure gauges.

(c) Units containing tanks S/N 152369, 610, 611 and S/N 152365, 66, 69 has welding problems. (See NCR 2323.)

4. Column 9 of the G32D was not signed or initialed by shop inspector.

Q number is 1.1013 hold pending Engineering disposition.
4 Hold tags applied to the nonconforming items.

POOR ORIGINAL

837 211

NONCONFORMANCE REPORT

start up code: indeterminate

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 2326	20. PAGE 1 OF 2
2. UNIT(S): Indeter.	3. DRAWING/PART NO.: N/A	REV	4. ITEM DESCRIPTION: 30 PCS 1" round head plugs SA-105; 60 PCS 3/4" x 1" threaded reducing hex head bushings		5. ITEM LOCATION: QC Hold Whse #1
6. P.O. CONTRACT NO.: 7220-F-36024 rev. 1	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV SER NO.	9. SOURCE: supplier	10. MANUFACTURER/SUPPLIER: Chicago Tube & Iron	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER	IR NO. R-1.00-9710 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 ( ) Eng (X) FLD

16. NONCONFORMING CONDITION: Purchase Order 7220-F-36024 rev. 1 requires the above listed material to be marked in accordance with ASME specification SA-105-'77. SA-105 requires each forging to be marked with the following: the manufacturer's symbol or name, the designation of service rating, the ASTM designation number, the size, and where test reports are required the material shall be marked as necessary to identify the part with the test report. (CONT'D PAGE 2)

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Rick A Montanari	7-5-79	[signature]	7-9-79

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

POOR ORIGINAL

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 2 19NCR NO 2326

(CONTD FROM BLK 16)
Contrary to the above, the material is marked with the heat code and SA-105. Hold for engineering disposition. "Q" number is indeterminate. 2 hold tags applied to the nonconforming material.

837 213

0-EAB
0-DCA

NONCONFORMANCE REPORT

1. PROJECT NAME: MIDLAND — JOB NO.: 7220 — 19. NO. 2328 — 20. PAGE 1 OF 2

2. UNIT(S): 1 & 2 COMMON — 3. DRAWING/PART NO.: 7220-C-96 — REV: 7 — 4. ITEM DESCRIPTION: SLUICE GATES W/LIFTING OPERATORS — 5. ITEM LOCATION: CIRCULATING WATER BO

6. P.O. OR SPEC NO.: 7220-C-24 Rev 3 — 7. SERIAL NO.: SEE BLK 16 — 8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A — 9. SOURCE: SUPPLIER — 10. CONTRACTOR/SUPPLIER: ARMCO STEEL CO.

11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER — IR NO. N/A — NO. FPG 4.000 FPG 5.000 — 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: SF/PSF 65.1 Rev 4 para 4, SURVEILLANCE INSPECTION OF MAINTENANCE ACTIVITIES STATES IN PART para 4.1.1; ... ALL "Q" LISTED PERMANENT PLANT EQUIPMENT AND MATERIAL IS MAINTAINED IN ACCORDANCE WITH THE REQUIREMENTS OF FPG 4.000 AND FPG 5.000. CONTRARY TO THE (CON'T PG 2)
"Q" NUMBER 1506 — 6 HOLD TAGS APPLIED

17. REPORTED BY: K. Neil — DATE: 7/5/79

18. VALIDATED BY: 7-6-79 — DATE: 7-9-79

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

POOR ORIGINAL

(BLOCK 16 CON'T)
ABOVE, THE FOLLOWING EQUIPMENT WAS RELEASED TO CONSTRUCTION WITHOUT COMPLIANCE TO PARA 7.0 OF FPG 5.000:

EQUIPMENT	LIFTING OPERATOR S/N	DATE RECEIVED EQUIPMENT	DATE RECEIVED OPERATOR	DATE RELEASED EQUIPMENT	DATE RELEASED OPERATOR
OM 96A	274935	12/19/17	6/21/18	7/1/18	7/20/18
OM 96B	274936	12/21/17			
OM 96C	274937	1/9/18			
OM 96D	274938	1/9/18			
OM 91A	274933	4/28/18			
OM 91B	274934	6/29/18			

ITEM 2: (A) INSTALLATION, OPERATION & MAINTENANCE MANUAL G1000, ARMCO STEEL CORP, MAINTENANCE AND LUBRICATION SECTION, (F9 22), para 2 REQUIRES SEATING FACES AND WEDGING SURFACES TO BE CLEANED & GREASED WHEN THE GATE HAS BEEN IN THE CLOSED OR OPENED POSITION FOR LONG PERIODS OF TIME WITHOUT MOVEMENT.

(B) MAINTENANCE OF THE THREADED PORTION OF THE GATE STEM IS CRITICAL

K. Deitz 7/5/19

POOR ORIGINAL

NONCONFORMANCE REPORT

S/U 1SFB & 2SFB

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO.: 2329	20. PAGE 1 OF 1
2. UNIT(S): UNITS 1 & 2	3. ~~DRAWING~~/PART NO.: 1B/2B-91A+B & 92A+B	REV: N/A	4. ITEM DESCRIPTION: CRD PRIMARY AC BREAKERS	5. ITEM LOCATION: EL 674'6" AREA 3 UNIT 1-W OF 3-6 UNIT 2-E OF 9-4	
6. P.O. OR SPEC NO.: N/A	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE: CONSTRUCTION	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER IR NO. N/A NOF-10-160 REV 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

16. NONCONFORMING CONDITION:

F-10-160 REQUIRES RELATIVE HUMIDITY TO BE MAINTAINED AT 50% OR LESS, NOT TO EXCEED 60%, DEHUMIDIFIERS HAVE NOT BEEN PROPERLY MAINTAINED (ie. UNPLUGGING, WATER DRAIN PAN SPILLING ON FLOOR, NOT FUNCTIONING PROPERLY) ALLOWING RECURRENT HUMIDITY READINGS EXCEEDING 60% CAUSING OXIDATION OF THE BOLT HOLES ON THE BUS BARS OF THE ABOVE LISTED PANELS. "Q" NUMBER IS 5.30. 8 HOLD TAGS APPLIED TO THE NON CONFORMING ITEMS.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Marian Donovan	7-6-79	7-9-79	7-9-79

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

837 216

NONCONFORMANCE REPORT

S/O NON RESTABLE UNIT

1. PROJECT NAME: MIDLAND POWER PLANT, UNITS 1&2 — JOB NO. 7720				19. NO. 2330	20. PAGE 1 OF 2
2. UNIT(S): AUX. BLDG	3. DRAWING/PART NO.: C-214	REV: 9	4. ITEM DESCRIPTION: CONCRETE SLAB @ 632'-6"	5. ITEM LOCATION: NEAR (H-1) & (K-1) LINES	
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. NOC-214 R.9		12. ASME AUTHORIZED INSPECTION REQ'D: [ ] YES [X] NO	13. SKETCH ATTACHED: [X] YES [ ] NO	14. Discovered Dur.: [ ] Rec'g [X] Const [ ] Test	15. Equip Furnished By: [ ] Client [ ] Eng [ ] FLD N/A

16. NONCONFORMING CONDITION: DESIGN DRAWING C-214, REV. 9, REFERING TO TEMP. ELEC PENETRATION NO 12, STATES "NO BARS TO BE CUT AT THESE PENETRATIONS." CONTRARY TO THIS, A #11 REINFORCEMENT BAR WAS CUT. THIS BAR RUNS NORTH & SOUTH 4" BELOW THE TOP OF THE CONCRETE SLAB.

17. REPORTED BY [illegible] DATE 7-5-79

18. VALIDATED BY [signature] DATE 7-9-79

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

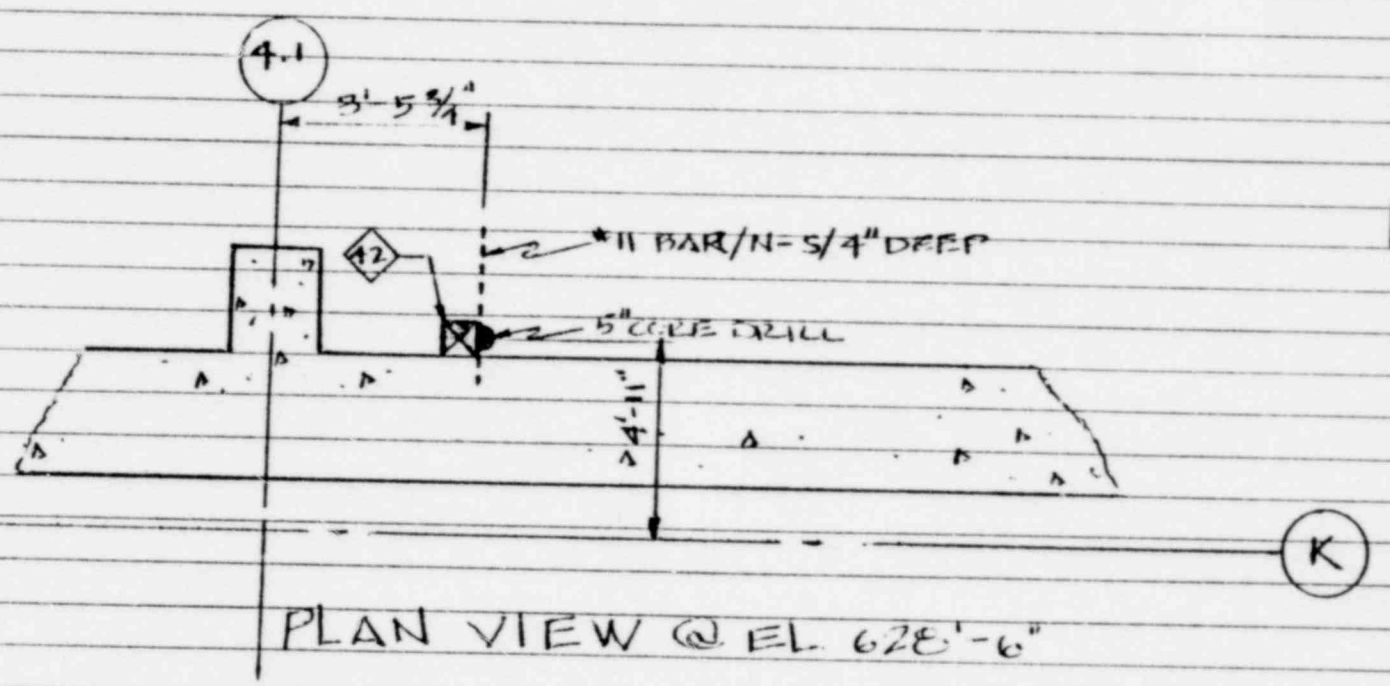
QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

POOR ORIGINAL

NONCONFORMANCE REPORT (CONT'D) 1. PAGE 2 OF 2 14. NCR NO. 2330

ELECTRICAL PENETRATION ROOM
3F 440 B



PLAN VIEW @ EL. 628'-6"

10098-2

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

QC-G3 3

POOR ORIGINAL

837 218

D

BECHTEL

NONCONFORMANCE REPORT

SIU 1-BGC

1. Project Name: MIDLAND	Job No.: 7220				19. No. 2331	20. Page 1 of 1
2. Unit(s): 1	3. Drawing/Part No.: M-603-SH.7	Rev: 4/F2	4. Item Description: CHECK VALVE 2½" CCB-CK-L (403-2-061) S/N 2N785		5. Item Location: AUX BLDG El. 606' E of WEST OF 5.6	
6. P.O. Or Spec No.: N/A	7. Serial No.: SEE BLOCK # 4	8. Replacement Part P/N N/A REV N/A SEP NO. N/A	9. Source: CONSTRUCTION	10. Contractor/Supplier: N/A		
11. Inspection Criteria ☐DWG ☐SPEC ☒OTHER IR NO. P-1.30-603-7-5 NO. FIP 2.112 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 ☐FLD		

16. Nonconforming Condition:

FIP-2.112-1.0 REV. 0, STATES IN PART: "PURPOSE OF THIS INSTRUCTION IS TO PROVIDE GUIDELINES & REQUIREMENTS FOR THE DISASSEMBLY & REASSEMBLY OF VALVES AS NECESSITATED BY CONSTRUCTION REQUIREMENTS."

CONTRARY TO THE ABOVE: 2½" CHECK VLV. (403-2-061) S/N 2N785, HAS HAD BOTH HINGE PIN COVERS & HINGE PINS DISASSEMBLED, WITHOUT USE OF FIELD INSTRUCTION FIP-2.112. THEREFORE LEAVING THE OPERATIONAL & PRESSURE RETAINING VALUE OF SAID VALVE INDETERMINATE.

Q. LIST # 4.0310 (1) ONE HOLD TAG APPLIED TO CHECK VALVE

17. Reported By: [signature] Date: 7-9-79

18. Validated By: [signature] Date: 7-10-79

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

8207270219

NONCONFORMANCE REPORT S/U NO. B&W EQUIPMENT

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO. 2332	20. PAGE 1 OF 1
2. UNIT(S): INDETERMINATE	3. DRAWING/PART NO.: N/A	REV	4. ITEM DESCRIPTION: 100' (52Lbs.) .051" DIA. T-304 STAINLESS Steel SAFETY WIRE		5. ITEM LOCATION: WAREHOUSE 1
6. P.O. OR SPEC NO.: M-1.7	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV ____ SER NO. ____	9. SOURCE: SUPPLIER	10. CONTRACTOR/SUPPLIER: BYRON JACKSON PUMP	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. R-2.00-10062 NO. M-1.7	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: PQCI/IR R-2.00 REQUIRES that DOCUMENTATION be AVAILABLE AND LEGIBLE FOR EACH SHIPMENT. CONTRARY to this, the ABOVE ITEM WAS DELIVERED AT the JOB-SITE WITHOUT DOCUMENTATION. Hold FOR DISPOSITION. "Q" List NO. IS INDETERMINATE. ONE(1) HOLD TAG APPLIED to the CONTAINER.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
R. Valentine	7-7-79	(QA) Barclay	7-10-79

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

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

837.220

D

NONCONFORMANCE REPORT

STARTUP CODE INDETERMINATE

1. PROJECT NAME: MIDLAND	JOB NO. 7220			19. NO. 2334	20. PAGE 1 OF 1
2. UNIT(S): UNIT 2	3. DRAWING/PART NO.: N/A	REV	4. ITEM DESCRIPTION: P.O. ITEM 28 TRC 3" 1500# CLASS 3 TAG # ZSV-3969A S/N 7	5. ITEM LOCATION: QC HOLD WHSE # 1	
6. P.O. OR SPEC NO.: J-256 AC	7. SERIAL NO.: N/A	8. REPLACEMENT PART N/A P/N ____ REV ____ SER NO. ____	9. SOURCE: SUPPLIER	10. CONTRACTOR/SUPPLIER: TARGET ROCK CORP.	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO R1-00-10032 NO J-603 REV 6	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 SPEC. J-603 REV. 6 requires "EACH VALVE AND EACH ACTUATOR SHALL BE PROVIDED WITH IMPRESSED, STAMPED, OR ETCHED SELLER'S STANDARD STAINLESS STEEL NAMEPLATE." NAMEPLATE ON ABOVE DESCRIBED SOLENOID VALVE IS MARKED WITH S/N 71 WHICH IS IN ERROR. THE CORRECT SERIAL NUMBER SHOULD BE S/N 7. HOLD FOR ENGINEERING DISPOSITION. ONE HOLD TAG APPLIED TO NONCONFORMING ITEM. "Q" number is 5.023.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
[signature]	7/10/79	[signature] Bob Barclay	7-10-79

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 ____

837 221

S/U 2EAD

NONCONFORMANCE REPORT

1. Project Name: Midland	Job No.: 7220			19. No. 2335	20. Page 1 of 1
2. Unit(s): 1&2	3. Drawing/~~Part No.~~: M-619-8	Rev: 6/F4	4. Item Description: OHBC-17-619-8-1		5. Item Location: Aux Bldg. Elev. 645' 1'E/5.1
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 ☐DWG ☒SPEC ☐OTHER IR NO. 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: Specification M-204 Rev. 10 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, Spool OHBC-17-619-84 has an arc strike in it approx. 7/8" in dia. this strike has been filled with melted copper contamination and its depth cannot be effectively measured. This strike is approx. 3' south of fw. #24

Q List # 4.192 One QC Hold Tag Applied

17. Reported By	Date	18. Validated By	Date
M. Hulsey	7/9/79	J.B. Barclay	7-10-79

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

POOR ORIGINAL

837 222

NONCONFORMANCE REPORT

S/N CODE INDETERMINATE

1. PROJECT NAME: MIDLAND	JOB NO. 7220					19. NO. 2336	20. PAGE 1 OF 1
2. UNIT(S) INDETER.	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION 84 ea. PARKER #12-6-TRW-SS 3/4" to 3/8" SOCKET WELD TUBE REDUCER			5. ITEM LOCATION QC HOLD WHSE #1	
6. P.O. ~~OR SPEC NO.~~ F-27952 rev. 5	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N ____ REV ____ SER NO. N/A		9. SOURCE SUPPLIER	10. ~~CONTRACTOR~~/SUPPLIER PARKER HANNIFIN (FORBERG SCIENTIFIC)		
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER IR NO. R-1-00-10048 NO. S-710 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: PURCHASE ORDER F-27952 rev. 5 AND MATERIAL REQUISITION TJ-0032 rev. 4 requires that ALL PIECES BE MARKED WITH ALPHA-NUMERIC CODE B-31 CONTRARY TO THIS, ABOVE DESCRIBED ITEMS WERE NOT MARKED. HOLD FOR ENGINEERING DISPOSITION. 2 HOLD TAGS APPLIED TO NONCONFORMING ITEMS "Q" Number is indeterminate

17. REPORTED BY [signature] DATE 7/10/79

18. VALIDATED BY [signature] DATE 7-10-79

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

837 223

NONCONFORMANCE REPORT

START UP CODE : I-PKA

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO. 2337	20. PAGE 1 OF 1
2. UNIT(S): INDETER.	3. DRAWING/PART NO.: N/A	REV	4. ITEM DESCRIPTION: MATERIAL REQUISITION Tag: 1001 (1 EA) 125 VOLT STATION BATTERY ITEM NO. 9		5. ITEM LOCATION: QC Hold Whse #2
6. P.O. ~~ORDER~~ NO.: rev. 6 7220-E-12AC	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV ____ SER NO. ____	9. SOURCE: Supplier	10. ~~CONTRACTOR~~/SUPPLIER: Exide Power Systems	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER IR NO. I-1.00-9988 NO. E-12AC rev. 6	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: Purchase Order 7220-E-12AC rev. 6 requires shop inspection prior to shipment to jobsite and quality verification documentation in accordance with specification 7220-E-12 rev. 4. Contrary to the above, a supplier release twix and quality verification documentation has not been received for the station battery listed in block 4. Held for engineering disposition. "Q" number is indeterminate. 1 hold tag applied to the nonconforming item.

17. REPORTED BY / DATE: Rick A Montreuil 7-10-79

18. VALIDATED BY / DATE: J. Beasley 7-10-79

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

8307 224

S/U Non Testable

NONCONFORMANCE REPORT

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO. 2338	20. PAGE 1 OF 2
2. UNIT(S): COMMON	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: CUT REBAR		5. ITEM LOCATION: AUX. BLDG. EL 634'-6" NEAR COL. LINES D-5.6
6. ~~P.O. OR~~ SPEC NO.: C-306, Rev. 4	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-306		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: SPEC. C-306, APPENDIX D, PART 1.2.3, PROHIBITS CUTTING OF REINFORCING STEEL IN PILASTERS. CONTRARY TO THIS, THE TAIL OF A #11 VERTICAL BAR WAS CUT AT THE TOP OF THE D/56 PILASTER WHILE CORE DRILLING FOR HANGER # 603-12-17, 2½"-IHCC-78-H1. SEE SKETCH ON PAGE 2. Q LIST #1.2.03. ONE HOLD TAG APPLIED.

C

17. REPORTED BY: Steve Page DATE: 7-3-79

18. VALIDATED BY: D.B. Barclay DATE: 7-11-79

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

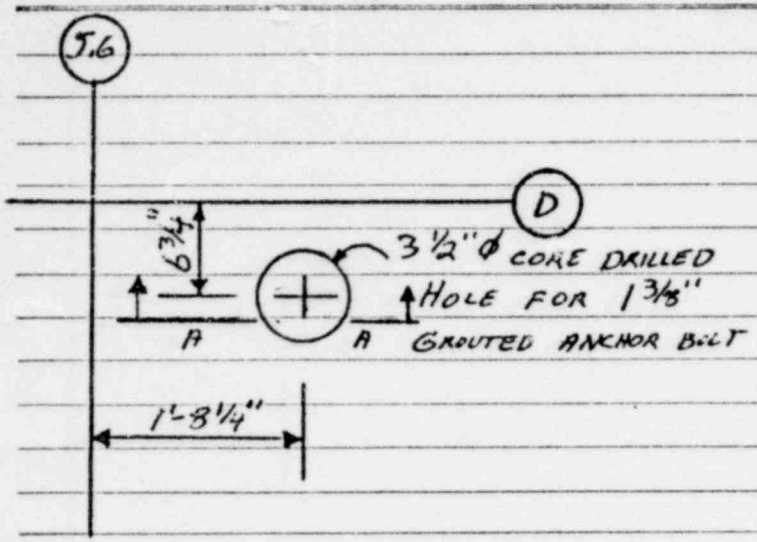
QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

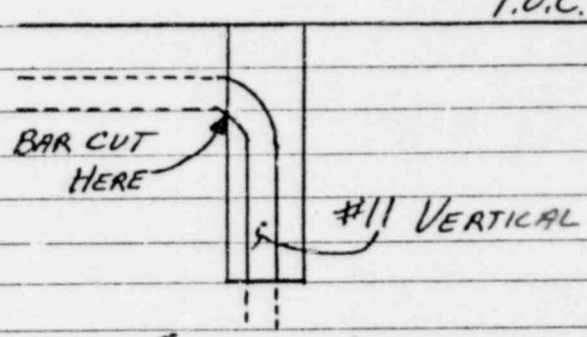
837 225

BECHTEL

NONCONFORMANCE REPORT (CONT'D) 1. PAGE 2 OF 2 14. NCR NO. 2338



PLAN @ ELEV. 634'-6"



SECTION AA

837 226

10098-2

QC-G3-3

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

NONCONFORMANCE REPORT

S/U ECB, BVA, BKA, BCA, EGA

3 ECB 8-1-79

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO. 2339	20. PAGE 1 OF 2
2. UNIT(S): 1	3. DRAWING/PART NO.: SEE BLOCK # 16	REV: N/A	4. ITEM DESCRIPTION: SEE BLOCK # 16		5. ITEM LOCATION: A-H B/AG EL. 539' WEST WING WALL
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: CONSTRUCTION	10. CONTRACTOR/SUPPLIER: N/A
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. NOM-342 3 M 209		12. ASME AUTHORIZED INSPECTION REQ'D (X) YES ( ) NO	13. SKETCH ATTACHED (X) YES ( ) NO N/A	14. Discovered During ( ) Rec'g (X) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION: SPEC M-342 REV 2 -6.4.2 STATES IN PART: "(EXTERNAL) SURFACES CLEANED TO CLASS D REQUIREMENTS SHALL BE VISUALLY INSPECTED TO ENSURE FREEDOM FROM GROSS FOREIGN MATERIALS", SPEC M-342 REV 2 6.2.2 STATES IN PART: THE SURFACE (INTERNAL) SHALL BE FREE FROM CONTAMINANTS SUCH AS SAND, PACKING MATERIAL, SAWDUST, SLAG, ETC." SPEC. M-209-REV 10 6.4 PARA 2 STATES IN PART: "DURING INSTALLATION OF PIPING & EQUIP, ALL OPENINGS FOR PIPE CONNECTIONS, ALL ACCESS OPENINGS AND ALL SEE CONT. SHEET

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

PROJECT FIELD ENGINEER — DATE 7/24/79

PROJECT ENGINEER — DATE 7-26-79

PROJ. CONSTR. QC ENGINEER — DATE 7-27-79

AUTHORIZED INSPECTOR — DATE 7-30-79

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
[illegible]	7-11-79	[illegible] 7/11-79	7-11-79

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

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

Exterior of pipe, motors, and fluied heads to be cleaned to class D cleanliness per F.I.P. 4.100 appendix "A". ~~XXXXXX~~ Interior of flange and spool on spool 1FCB-19-S-610-7-8 shall be cleaned and capped to level "C" cleanliness per Spec. M-342(Q) rev. 2 ~~XXXXXXXX~~ 6.2.2.

23. PROJECT ENGINEERING DISPOSITION

E.G.
D. Shaw 7/24/79

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

POOR ORIGINAL

837 227

CONTINUATION OF BLOCK # 16

OPENED END OF PIPES SHALL BE COVERED WITH DUST-PROOF COVERS WHENEVER WORK IS NOT ACTUALLY IN PROGRESS."

CONTRARY TO THE ABOVE: "DUE TO CONCRETE SPILLAGE, 4 PIPING & COMPONENTS LOCATED IN THE WEST WING WALL BETWEEN ℄ 16 / CONT. I WALL ℄ 5.6, AT EL. 599' TO 612' HAVE A GROSS AMOUNT OF CONCRETE ~~PIPING~~ KEB 5-11-79 ON SAID PIPING & COMPONENTS, AND WITHIN PIPE SPOOL 1FCB-19-610-7-8. ~~ALSO~~ AGAIN SPOOL 1FCB-19-610-7-8 ORIFICE FLANGE WAS FOUND WITHOUT PIPE CAP KEB 5-11-79

PIPING & COMPONENTS FOUND WITH GROSS AMOUNTS OF CONCRETE WITHIN SAID AREA

FLUID HEADS,

1Z-27; 1Z-35, 1Z-71

MOTOR OPERATORS,

1MO-3126, 1MO-1405, 1MO-1028

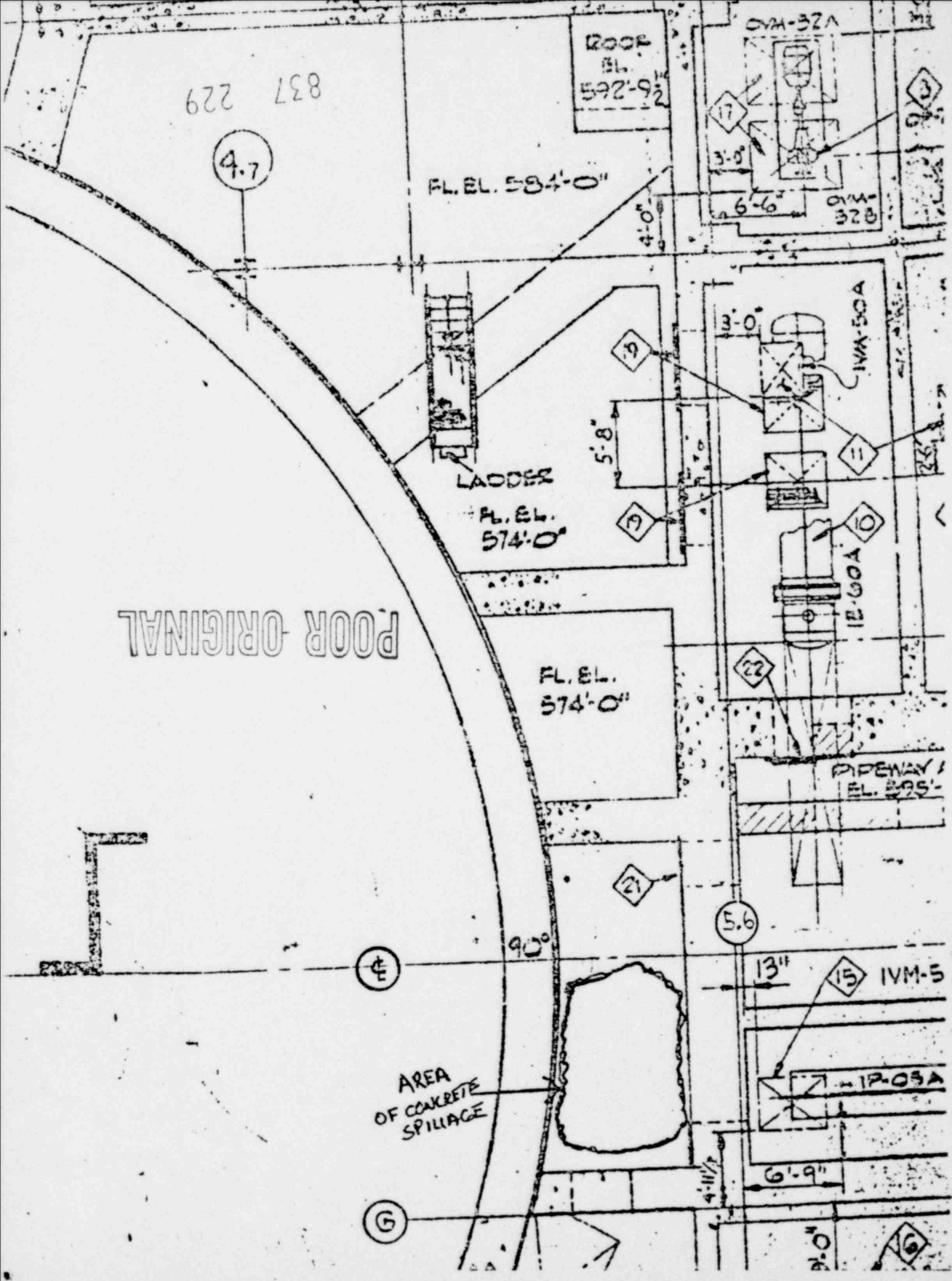
PIPING,

1HCB-54, 1HCB-1, 1HCB-53, 1GCB-15, 1GCB-25, 1FCB-19, 1HBL-149

1FCB-19-610-7-8 HAS CONCRETE INSIDE PIPE

6 LIST # INDETERMINATE 12 HOLD TAGS APPLIED (ONE TO EACH LISTED ABOVE)

POOR ORIGINAL


837 229
ROOF EL. 592'-9½"
FL. EL. 584'-0"
4.7
OVM-32A
OVM-32B
3'-0"
6'-6"
4'-0"
LADDER
FL. EL. 574'-0"
5'-8"
IVM-50A
IP-60A
FL. EL. 574'-0"
PIPEWAY EL. 595'-
POOR ORIGINAL
5.6
90°
13"
IVM-5
IP-05A
AREA OF CONCRETE SPILLAGE
6'-9"
24'-0"

NONCONFORMANCE REPORT

Not - testable unit

1. PROJECT NAME: Midland	JOB NO. 7220			19. NO. 2340	20. PAGE 1 OF 1
2. UNIT(S): Common	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: Grouting of Anchor Bolts in Block Walls	5. ITEM LOCATION: Aux. Bldg. El. 645'	
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-1.10-604 NO C-306 Rev. 4	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 C-306 Rev. 4, Table 2.1, Note 2 states: "Grouted anchor bolts shall not be used in concrete block walls." Contrary to the above, Hanger #(657-42-17) 4-2HBC-234-H2, El. 646'-6" ±, 6' N/E 3' E/W has been drilled and ready for grouting in Block Wall #30 in the Aux. Bldg. Held for Engineering Disposition. (1) Hold Tag Applied. "Q" List # 1.205.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
K. Gunser	7/10/79	K. Barclay	7-12-79

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 ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

8311230

S/4 2BKA

NONCONFORMANCE REPORT

1. Project Name: Midland	Job No.: 7220			19. No. 2341	20. Page 1 of 2
2. Unit(s): 2	3. Drawing/Part No.: 2-613-2-30 Sh 3/Fl	Rev: 2	4. Item Description: 8" 2GCB-15-H21 (HANGER)	5. Item Location: Cont 2 Elev 627'6"	
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: Const.	10. Contractor/Supplier: N/A	
11. Inspection Criteria ☑ DWG ☑ SPEC ☐ OTHER — IR NO. M326-245 Cl 4 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 ☑ ENG ☐ FLD	

16. Nonconforming Condition:

M326 Rev 3 Page 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 Hgr. sketch shows part 4, 1/4 x 2 x 2 T.S., Attached to part 2, 1/4 x 4 x 4 T.S., with double fillet weld. Also part 4 attached to part 4 with no weld symbol. As built condition per sketch is attached; Cont.

17. Reported By: William Smith — Date: 6-27-79

18. Validated By: FM 7-11-79 C.B. Barclay — Date: 7-12-79

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

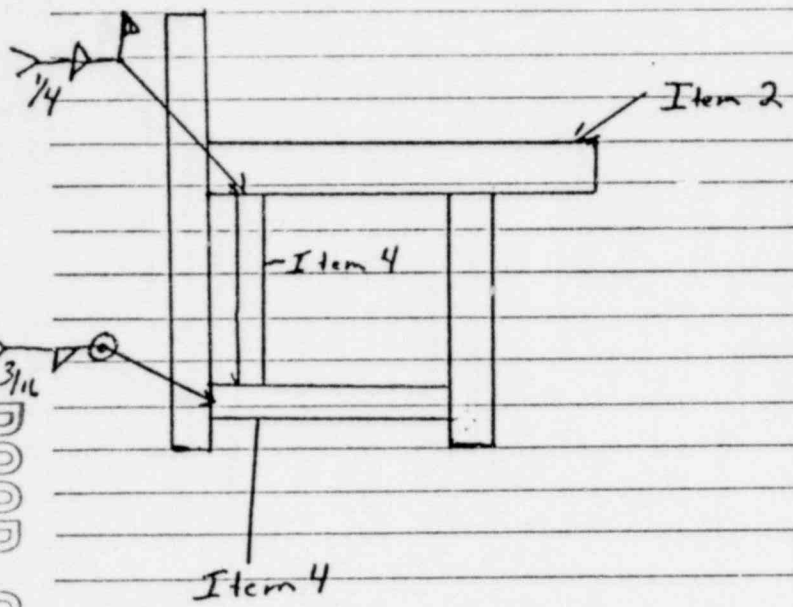
AUTHORIZED INSPECTOR — DATE

POOR ORIGINAL

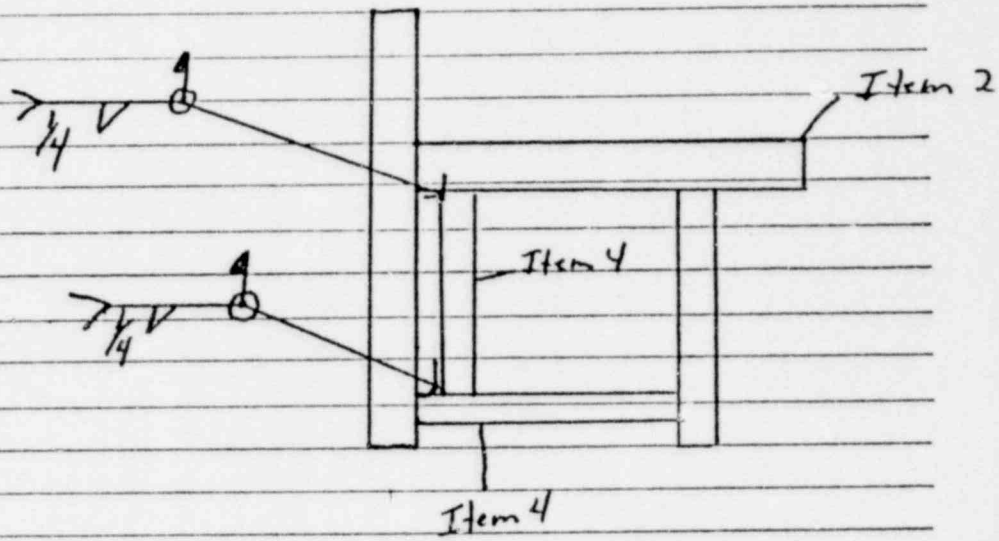
837 231

Block 16 Continued;
Q No is 4.131 Hold tag Applied

As per Sketch



As built



POOR ORIGINAL

POOR ORIGINAL

NONCONFORMANCE REPORT startupcode: indeterminate

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO.: 2342	20. PAGE 1 OF 1
2. UNIT(S): indeterminate	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: NPSI-8104/cc thru NPSI-8107/cc 123 pcs. of Miscellaneous Fab. Hangar Material	5. ITEM LOCATION: WHSE #2 and pasoyville	
6. P.O. OR ~~SPEC~~ NO.: F3107 Rev. 24	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N ____ REV ____ SER NO.: N/A	9. SOURCE: supplier	10. ~~CONTRACTOR~~/SUPPLIER: N.P.S. Industries	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER — IR NO.: R-1.10-9764 NO: C-233 Rev. 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 ( ) Client ( ) Eng (X) FLD	

16. NONCONFORMING CONDITION: Bechtel Specification C-233 Rev. 15 requires documentation in accordance with form G-321-D for C-233 Rev. 15. Contrary to the above, the G-321-D form received with the documentation for the restraint material received on AEO-9764 is from Rev. 14 of Spec. C-233. "Q" numbers are indeterminate until installation. Hold pending final disposition. 6 Hold tags applied.

17. REPORTED BY: Michael J. Moore — DATE: 7-12-79

18. VALIDATED BY: [illegible] Barclay — DATE: 7-12-79

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 ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

837 233

SU # 1GJA

NONCONFORMANCE REPORT

1. PROJECT NAME: MIDLAND	JOB NO.: 07220			19. NO. 2343	20. PAGE 1 OF 2
2. UNIT(S): ONE	3. DRAWING/PART NO.: FSK-M-1HBC-207-1	REV: 3	4. ITEM DESCRIPTION: INOPERATIVE Globe Value	5. ITEM LOCATION: West Battery Room 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 (X) SPEC ( ) OTHER IR NO. N/A NO. M-204 Rev 10	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: Section 8.0 of Specification M-204 Rev 10 states in part: The piping shall be neat in appearance, provide adequate space For pipe insulation, be convienent to operate and shall provide For proper expansion, venting and drainage. In addition, the piping shall not interFere with access to values or equipment etc.. Contrary to this the 3/4" globe value located at FW-5 on Dwg: FSK-M-1HBC-207-1 (see page 2)

17. REPORTED BY: E Urbanowic DATE: 7-11-79

18. VALIDATED BY: C.A. Barclay DATE: 7-13-79

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

POOR ORIGINAL

837 234

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 2 19NCR NO 2343

(cont. From page 1)

is inoperative due to piping insulation interference.

One Hold tag applied to the valve
Q-list No. 4.579

POOR ORIGINAL

837 235

Cilaf

NONCONFORMANCE REPORT S/U - Non Testable Unit

1. PROJECT NAME: Midland — JOB NO.: 07220 — 19. NO. 2344 — 20. PAGE 1 OF 3

2. UNIT(S): 2 — 3. DRAWING/PART NO.: ~~N/A~~ E-7505111 ~~03/13/79~~ — REV: ~~N/A~~ A — 4. ITEM DESCRIPTION: Minimum Anchor center to center spacing — 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. see block #16 NO. C-305 rev 8 — 12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO — 13. SKETCH ATTACHED (X) YES ( ) NO — 14. Discovered During ( ) Rec'g (X) Const ( ) Test — 15. Equip Furnished By ( ) Client ( ) Eng (X) FLD

16. NONCONFORMING CONDITION: Specification C-305 rev 8 gives minimum anchor center to center spacings in table 4.1. The following cases exist which do not conform to C-305.

1.) Two (~~type~~) conduit support anchors, support type 520, were installed such that its anchors and those of a type 22A tray support do not meet the minimum on center spacing. Approx. location is 260° AZ, El 618', 5' East of Liner, 9' south of Reactor ℄. (con't. p.2)

17. REPORTED BY: Raleigh Cimas — DATE: 7/13/79

18. VALIDATED BY: [signature] C.B. Barclay — DATE: 7-13-79

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 — DA

AUTHORIZED INSPECTOR — DATE

POOR ORIGINAL

block 16 continued

1.) (continued) Conduits are 2BLB001, 2BLB002, 2BVA001 and 2BVA002. Trays are 2BLB06 and 2BVA06. See attached sketch p. 3 . (IR# C1.50-EH185, C1.50-EH135, and E2.1-169) (EC2-33-216 and 750-59)

2.) The longitudinal braces for two type 520 conduit supports are installed ½" apart, thus the nearest anchors do not meet minimum on center spacing. Approx. location is 280° AZ, El. 618, 4' East of Liner. Supports are for 2BLB001, 2BLB002, 2BVA001, 2BVA002, 2ALA010, 2CVA005, 2DVA004, and 2DVA006. The 5/8" anchors are on 4½" centers. (IR# C1.50-EH185) (EC2-33-119 and EC2-33-120)

3.) A non-Q conduit support, type 534, was installed such that one of its anchors and one for a type 22A tray support do not meet the minimum on center spacing. Approx location is 250° AZ, El. 618', 4' East of Liner. Tray support is for 2BLB06 and 2BVA06. Conduit support is for 2NLE015. A 5/8" tray support anchor is 4¼" from 3/8" conduit support anchor. (C1.50-EH135) (750-60) (E2.1-169)

4.) A type 1, alt. D, conduit support, for 2ALA008, was installed next to a stairway supportsuch that the minimum on center spacing was not met. Approx. location 135° AZ, El. 604', on outside of Secondary Shield Wall. A ½" conduit support anchor is 6-5/8" from 3/4" stairway support anchor. (IR# C1.50-EH118) (EC2-33-41)

Q list 1.102
. Five (5) Hold Tags Applied
Hold For Engineering Disposition

POOR ORIGINAL

BECHTEL

CALCULATION SHEET

0510 111-74

DATE

DESIGN BY ____ DATE ____ CHECKED BY ____ SHEET NO. ____

PROJECT ____ JOB NO. ____

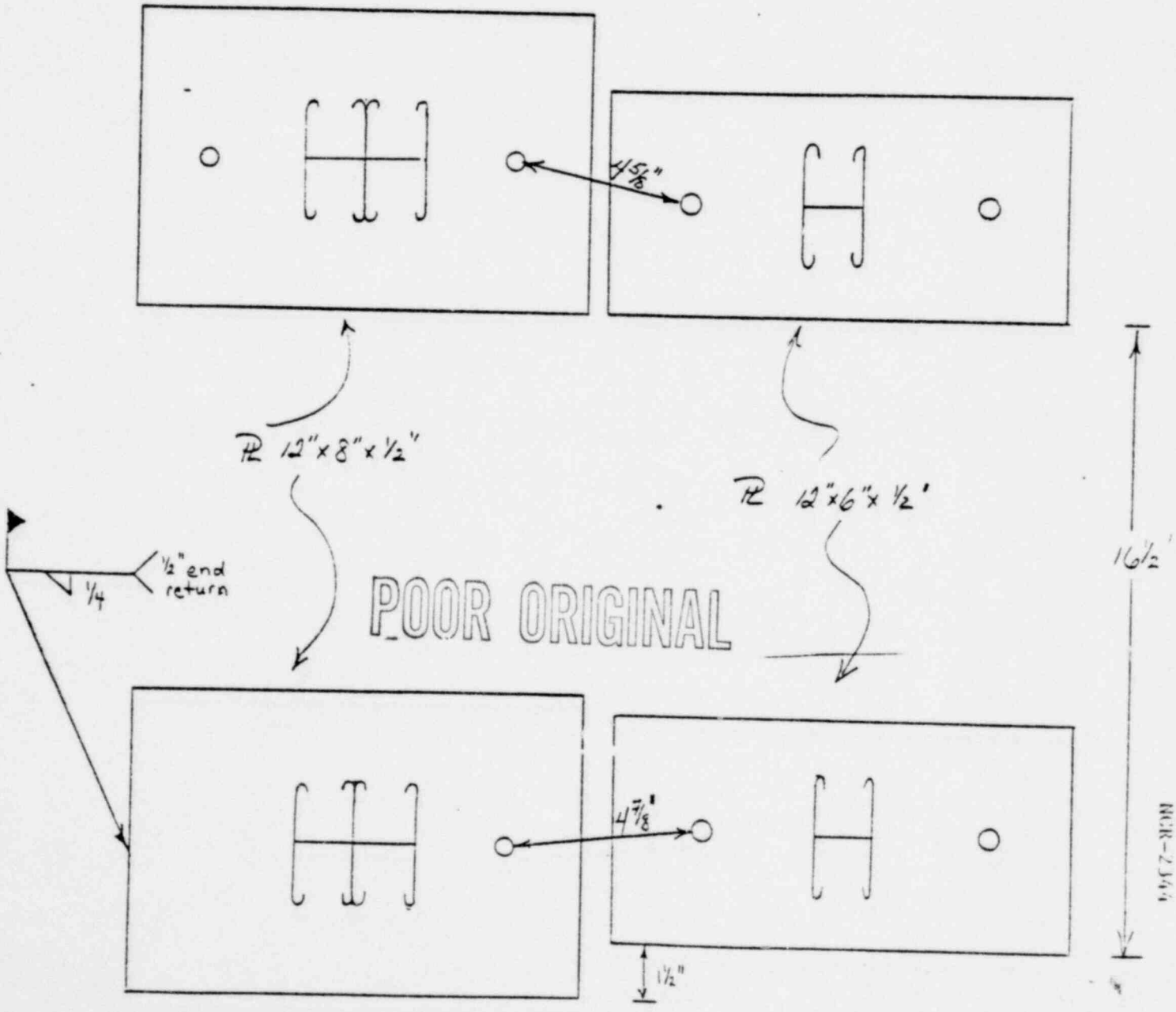
SUBJECT ____ CALCULATION NO. ____ FILE NO. ____

PAGE 3 of 3

CONDUIT
Type 520 Support

Tray
Type 22A Support

ALL ANCHORS 5/8"



POOR ORIGINAL

837 238

Alaf

BECHTEL

NONCONFORMANCE REPORT

S/u Non-testable unit.

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
Midland	7220	2345	1 OF 2

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
1	E-611	11	Conduit Installation - 1BJE002	Aux Bldg 599' D-E, 6.2-5.9

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
N/A	1BJE002	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
(X) DWG ( ) SPEC ( ) OTHER IR NO. N/A NO. E-42 Rev 41	( ) YES (X) NO	( ) YES (X) NO	( ) Rec'g (X) Const ( ) Test	( ) Client ( ) Eng (X) FLD

16. NONCONFORMING CONDITION:

1) E-42 Rev 41, Section III, Paragraph 8 states in part, "Conduit runs shall have no more than the equivalent of 4 - 90° bends between pulling points.." Contrary to the above, 1BJE002 has 405° of bend between pulling points. This condition was noted on DR E-612 on February 5, 1979.

2) E-42 Rev 41, Shts 316 and 363 give requirements for plate size, anchor bolt spacing, and tube steel dimensions for type 13 conduit supports.

Continued on page 2.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
J. W. Miller	7-14-79	T. J. Russell/wes	7/14/79

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

837 239

Block 16 continued.

Contrary to the above, one type 13 support for 1BJE002 has anchor bolts that do not meet the 'A' and 'B' dimensions. This condition was noted on DR E-289 on October 26, 1978.

Cables 1BB2441A and 1BB2441B have been pulled and terminated.

Hold for Engineering disposition.

One QC Hold Tag applied.

Q List #3.005

837 240

NONCONFORMANCE REPORT

5/4 1-ABA

1. PROJECT NAME: Midland Units 1&2	JOB NO.: 7220			19. NO. 2346	20. PAGE 1 OF 2
2. UNIT(S): Common	3. DRAWING/PART NO.: M-631 - 3	REV: 4/F1	4. ITEM DESCRIPTION: FW 1 Block Welding	5. ITEM LOCATION: EL 704 Main Steam	
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 (x) DWG (x) SPEC ( ) OTHER IR NO. M631-3-1 NO. G-27 rev 10 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 G-27 subsection GWS FM para 4.4.7 states in part, "when welding on pipe, each weld layer shall be essentially completed around the entire circumference of the weld groove before successive weld passes are made. Also Technical Specification M-204 references the same when it states in section 5.1.3 para. k , each weld pass shall be completed around the entire circumference before succeeding passes or layers are deposited. Block welding is not permitted. Contrary to the above, FW 1 on ISO ELB-12-631-3-1 (OK 7-14-79) has been block welded approximately- cont.

17. REPORTED BY: D Kemboa — DATE: 7-14-79

18. VALIDATED BY: J. E. Russell/WLS — DATE: 7/14/79

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

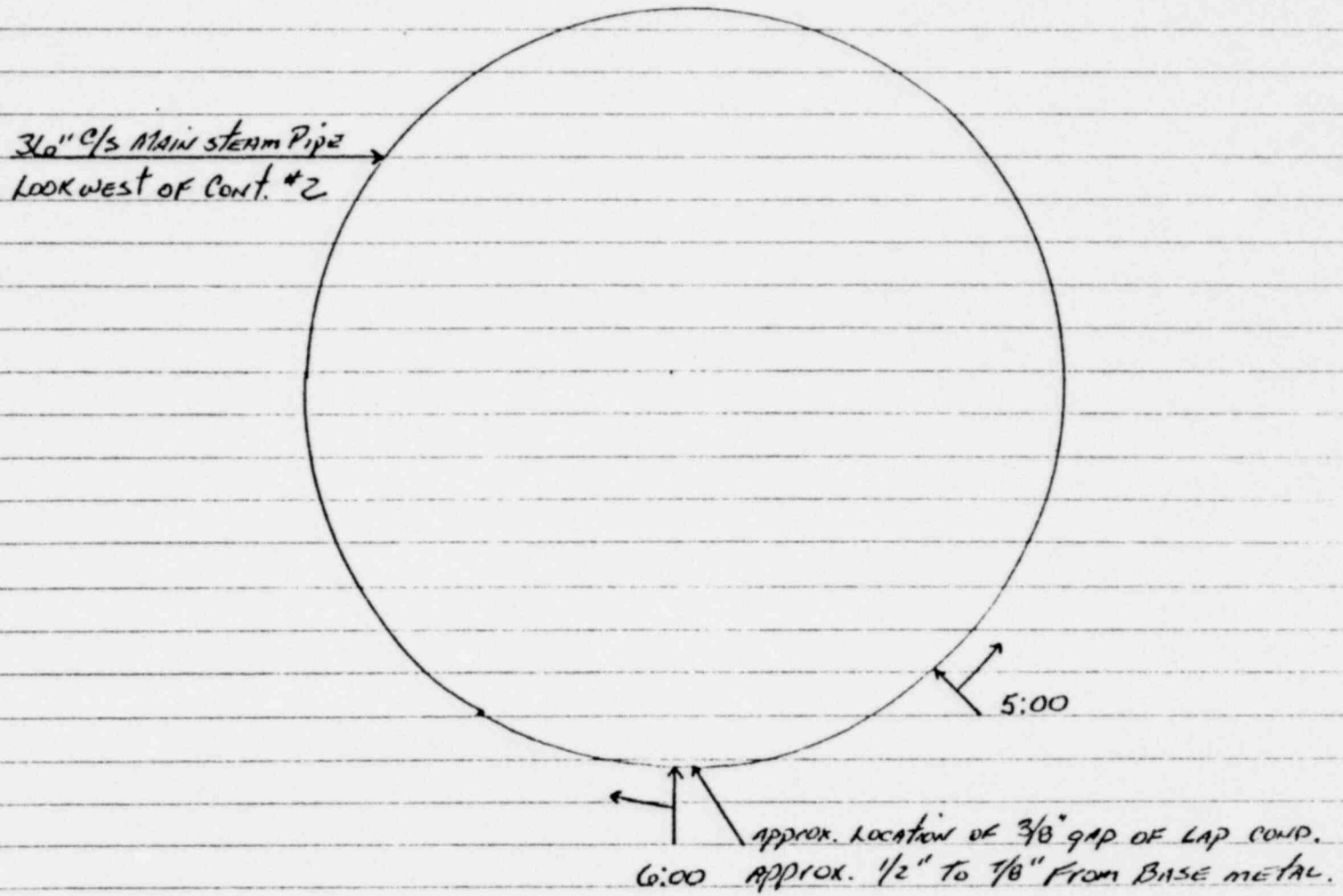
AUTHORIZED INSPECTOR — DATE

Continuation of Block #16

from the 6:00 position to the 5:00 position in a clockwise direction facing west.

Specification G27 GWS FM para. 4.4.10.2 states in part," the weld bead starts and stops shall overlap approximately one(1) inch for all weld passes when practical. Contrary to this, Fw 1 on 12 WC 7-4-79 ELB 12 631-3-1 has an approximate 3/8 inch gap at the 6:00 position. P#LIST 4.312

HOLD FOR ENGINEERING DISPOSITION. 1 HOLD TAG APPLIED TO JOINT



837 242

S/U #63A

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO. 2347	20. PAGE 1 OF 2
Midland	7220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
#1	FSK-MIHBC-196-2	3	1½" (IHEC-196) SUP Pipe Between FW31 & FW30 Battery Room IVH 406	

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. P-110-1 NO. M-204 Rev 10	(X) YES ( ) NO	( ) YES (X) NO	( ) Rec'g (X) Const ( ) Test	( ) Client ( ) Eng (X) FLD

16. NONCONFORMING CONDITION: Spec. M-204 Rev 10, Para. 5.2.6 States in part: "Minimum wall thickness for fabricated assemblies as finally fabricated shall be at least 87-½% of the NOMINAL WALL thickness for pipe specified by NOMINAL WALL." Contrary to this, A 1½" SUP Pipe between FW31 and FW30 on FSK-MIHBC-196-2, Rev 3 has a bevel located approx. 1" from FW30 facing East.

(Block #16 continued on Pg 2)

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
J. Stair	7/14/79	J.S. Russell/WLB 7.14.79	7/14/79

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

POOR ORIGINAL

Block #16 Continued. NONCONFORMANCE REPORT (CONT'D) PAGE 2 OF 2. NCR NO 2347

This gauge has violated minimum wall thickness. gauge depth was .035
(Gauge # B12 - M209 - Calib. due date 9-15-71) NOMINAL WALL .200
Hold For Engineering Disposition Q" NO 4-5-71 MIN. WALL .175

1 QC. Hold Tags. Applied to the 1½" pup piece between FW 30 & 31.

POOR ORIGINAL

5/4 2-FCA

NONCONFORMANCE REPORT

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO. 2348	20. PAGE 1 OF 1
2. UNIT(S): TWO	3. DRAWING/PART NO.: FSK-M-2EBC-3-1	REV: 0	4. ITEM DESCRIPTION: SW#10 ON FSK-M-2EBC-3-1		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 (X) OTHER IR NO. P-1.20-1 NO. FPW-4.000 REV 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 ( )Eng (X)FLD	

16. NONCONFORMING CONDITION:

FPW-4.000, REV 1, STATES IN PART: COPY #4 OF THE QCIR W-1.00B FORM MUST BE AT THE WELD JOINT PRIOR TO THE F.W.E. ACCEPTING THE FIT-UP AND RELEASING THE JOINT FOR WELDING. CONTRARY TO THE ABOVE, SW#10 WAS WELDED COMPLETELY PRIOR TO THE ATTACHMENT OF COPY #4 OF THE QCIR W-1.00B OR FIT-UP ACCEPTANCE BY THE F.W.E. QP#4.393, 1 QC HOLD TAG AT S.W#10

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
M. Hollebeek	7-16-79	W. Barclay	7-16-79

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

837 245

NONCONFORMANCE REPORT

5/6 2-14-80

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NCR NO.: 2349	20. PAGE 1 OF 1
2. UNIT(S): 2	3. DRAWING/PART NO.: M-432-2h1	REV: 7/16	4. ITEM DESCRIPTION: F.W. 106		5. ITEM LOCATION: 685 Cont #2
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: Constr	10. CONTRACTOR/SUPPLIER: N/A
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC ( ) OTHER IR NO. M-432-1-106 NO.		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:

Field Weld #106 on Spool 2"LB-10-632-1-9 was welded By Welder #P-742 C. Rausch, whom was NOT qualified to Procedure PI-AT-4A (CVN) He is only qualified To PI-T. FW 106 was finished 2/14/79 and Turned in for RT the same date.

Q List #4.322

One Hold Tag Applied to FW #106

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Curtis Stobb	2/14/79	J.H. Barclay	7-17-79

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

PROJ CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

POOR ORIGINAL

-X

NON Testable

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 7220				19. NO. 2350	20. PAGE 1 OF 2
2. UNIT(S): Common	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: Backfill Sand		5. ITEM LOCATION: Stockpiled	
6. ~~P.O.~~ OR SPEC NO.: C-211 Rev. 7	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: Bechtel		
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC ( ) OTHER IR NO. C-1.05-132 NO. C-211 Rev. 7	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( )Rec'g ( )Const (X)Test	15. Equip Furnished By ( )Client ( )Eng (X)LD		

16. NONCONFORMING CONDITION: Spec C-211 Rev 7 section 8.2.3 states that sand from offsite sources shall be 100% passing the 3/4-inch sieve. Contrary to this, test no. 4407 sampled 7-13-79 from the stockpile had only 96% passing the 3/4 inch sieve. In addition, section 8.8.2 of same spec requires visual examination of sand from off-site sources be performed by the contractors soil

17. REPORTED BY: Thomas Lee DATE: 7-16-79

18. VALIDATED BY: R.W. Barclay DATE: 7-16-79

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

POOR ORIGINAL

Non testable

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 2 19NCR NO 2350

Block 16 cont: testing representative, U.S. Testing states in the remark section of test no. 4407, " oversize coarse particles, silt lumps, roots, vegetation, organic soil and conglomerated aggregate clusters were observed during visual inspection."
4 hold tags applied. "Q" list is 6.101.

A conditional release is granted to ~~XXX~~ allow placement in ~~XXXXXXX~~ non (Q) areas. Corrections or removal can be accomplished without causing damage or contamination to associated plant equipment or structure.

PFE J. J. Schwark /ATC 7/17/79 DATE

PFQCE [illegible] 7-17-79 DATE

POAE R. C. Haller 7/17/79 DATE

POOR ORIGINAL

NONCONFORMANCE REPORT

S/U Indeterminate

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 2351	20. PAGE 1 OF 1
2. UNIT(S): Indeterminate	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: 8 sets (16 EA) 1" 3000 S.W. Orifice Flange		5. ITEM LOCATION: Warehouse #1
6. P.O. OR ~~SPEC~~ NO.: F34750	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N ____ REV ____ SER NO.: N/A	9. SOURCE: Supplier	10. ~~CONTRACTOR~~/SUPPLIER: Liberty Equipment + Supply	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER — IR NO. R-1.00-10114 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) LD	

16. NONCONFORMING CONDITION: Bechtel Specification M-305 Rev. 3 requires documentation in accordance with form G-321-D. Contrary to the above, No G-321-D form was received with the documentation for the orifice flanges received on AEO-10114. "Q" number is indeterminate until installation. Hold pending final disposition. 1 Hold tag applied.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Michael J. Moore	7-16-79	C.O. Barclay	7-16-79

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

837 249

NONCONFORMANCE REPORT (CONT'D) [20]PAGE 2 OF 2 [19]NCR NO 2351

A conditional release is granted to Install the items described in block #4. Corrections or ~~XXXXXX~~ removal can be accomplished without causing damage or contamination to associated plant equipment or stucture.

J J Gilmartin 7/17/79
DATE

PTOCE R B Barclay 7-17-79
DATE

PQAE R C Haller 7/17/79
DATE

837 250

NONCONFORMANCE REPORT

S/U CODE INDETERMINATE

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO. 2352	20. PAGE 1 OF 1
2. UNIT(S): INDETER.	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: CABLE CODE IO5 AND INDETERMINATE REEL INSTRUMENT AND SPECIAL PURPOSE CABLE	5. ITEM LOCATION: POSEYVILLE	
6. P.O. OR SPEC NO.: E-60	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N ____ REV ____ SER NO. ____ N/A	9. SOURCE: SUPPLIER	10. CONTRACTOR/SUPPLIER: ROCKBESTOS	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER IR NO. R-1.00-10024 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 REQUIRES QUALITY VERIFICATION DOCUMENTATION. CONTRARY TO THE ABOVE, QVD PACKAGES WERE NOT RECEIVED FOR CABLE CODE IO5: 2892' 24/C #14 7/STR REEL# B-5871 AND REEL #4016 -650' INDETERMINATE CABLE CODE. HOLD FOR ENGINEERING DISPOSITION 2 QC HOLD TAGS APPLIED TO NONCONFORMING ITEMS. Q NUMBER IS INDETERMINATE.

17. REPORTED BY: [signature] DATE: 7/16/79

18. VALIDATED BY: [signature] DATE: 7-17-79

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 ____

PROJ CONSTR QC ENGINEER ____ DATE ____

AUTHORIZED INSPECTOR ____ DATE ____

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER ____ DATE ____

AUTHORIZED INSPECTOR ____ DATE ____

251

NONCONFORMANCE REPORT

S/U 1 PBA

1. PROJECT NAME: MIDLAND	JOB NO.: 07320			19. NO. 2353	20. PAGE 1 OF 1
2. UNIT(S): 1	3. DRAWING/PART NO.: E 37	REV: 28	4. ITEM DESCRIPTION: CABLE SCHEME #OAY3307A AND 1AD1101A	5. ITEM LOCATION: AUX BLD.	
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 (X) OTHER SR NO. SEE BLOCK #16 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 (X) Eng ( ) FLD

16. NONCONFORMING CONDITION: CABLE PACKET A-452 (CABLE #OAY3307A AND 1AD1101A) WAS PULLED WITHOUT QC VERIFICATION AND DOCUMENTATION ON 4-20-79.

NO HOLD TAGS APPLIED, NO QLIST NO., HOLD FOR ENGINEERING DISPOSITION.

17. REPORTED BY [signature] DATE 7-17-79

18. VALIDATED BY [signature] DATE 7-17-79

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

PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

837 252

2-7

NONCONFORMANCE REPORT

S/u # - 2-GTE/2GTL

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 2354	20. PAGE 1 OF 2
2. UNIT(S): 2	3. DRAWING/PART NO.: M462-011/M462-013	REV: N/A	4. ITEM DESCRIPTION: 48" MOTOR OPERATED BF VALVES	5. ITEM LOCATION: EAST OF CONT. #2 BESIDE STAGING AREA	
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 Construction	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA: ( ) DWG ( ) SPEC (4) OTHER IR NO. 4A NO. F-1-505	12. ASME AUTHORIZED INSPECTION REQ'D: ( ) YES (4) NO	13. SKETCH ATTACHED: ( ) YES (4) NO	14. Discovered During: ( ) Rec'g (4) Const ( ) Test	15. Equip Furnished By: ( ) Client (4) Eng ( ) FLD	

16. NONCONFORMING CONDITION:

ACTIVITY 1.0 (INITIAL STORAGE PROVISIONS) OF F-1-505, REV. 1 REQUIRES COATING THE EXPOSED SURFACE OF THE VALVE RUBBER SEAL WITH A FILM OF SILICONE BASED GREASE (DOW CORNING III COMPOUND OR EQUAL) AND DOCUMENTATION OF THE INITIAL STORAGE ACTIVITIES. F-1-505 ALSO REQUIRES A STORAGE LEVEL "C" (INDOORS), "Q"-Listed # 4,626 CONTINUED ON ATTACHED SHEET 2 Hold tags Affixed to valves.

17. REPORTED BY: C L Fugate DATE: 7-18-79

18. VALIDATED BY: A B 7-18-79 1-14-79 A R Barclay DATE: 7-18-79

21. ROUTING: (4) 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

POOR ORIGINAL

Block #16 continued:

Contrary to the above, valves M462-011 and M462-013 were received on site 2-26-79 and were released from WHSE #2 on 5-21-79 without the initial storage provisions being accomplished. Also the vendor's instructions 7220-M168-50-2 requires the valves heaters in the motor operator to be energized when the valve is stored in a damp area. The vendor's instructions also require the valves to be covered with plastic and stored under a shelter. The valves are being stored outdoors, not under a shelter, heaters not energized, not properly covered with plastic, in their shipping containers, exposed to the weather.

POOR ORIGINAL

NONCONFORMANCE REPORT

S/U # N/A

1. Project Name: MIDLAND — Job No.: 7220 — Rev — 19. No. 2355 — 20. Page 1 of 2

2. Unit(s): 1 + 2 — 3. Drawing/Part No.: N/A — 4. Item Description: Q. VALVES (STORAGE) — 5. Item Location: CRANE BAY (NORTH EAST) EL 634, AUX. BLDG. CORNER

6. P.O. Or Spec No.: N/A — 7. Serial No.: SEE BELOW — 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. FPG-4000 — 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: FPG-4000 PARA 6.1.1 thru 6.1.4 requires material to be segerated, to be protected from construction activities and to have general housekeeping pratice in effect at all times. In addition to the storage requirements, F-1-183 + F-1-396 for nuclear service valves, require closures or tape for any opening.

Contrary to the above Q valves are not being

17. Reported By: Richard A. Kamen — Date: 7/17/79 — 18. Validated By: R.B. Barclay — Date: 7-18-79

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

POOR ORIGINAL

segerated from non-Q valves, and other construction material.
These valves are stored in a staging area in the crane bay of the Aux. Bldg.

Valve 1½" - EBC - YGB-R S/N - 3771
¾" - ECB - GT - D S/N - 154CCB1-002
1" - CBB - YGB - S/N - A 4947, were found with the ends uncapped and dirt and dust inside.

NOTE: This discrepancy has been identified by Consumers Power.

Q LIST # N/A.

storage area flagged. (as noted in Block #5)

POOR ORIGINAL

8311 256

NONCONFORMANCE REPORT

S/u # — N/A

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 2356	20. PAGE 1 OF 2
2. UNIT(S): 1+2	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: OUTDOOR STAGING AREA FOR STORAGE	5. ITEM LOCATION: EAST OF CONT. #2 BETWEEN TRANSFORMER + MORTAR 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 (X) OTHER IR NO. N/A NO. FPG-4.000	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Rec'g ( ) Const ( ) Test	15. Equip Furnished By ( ) Client ( ) Eng ( ) FLD	

16. NONCONFORMING CONDITION: SECTION 6.0 OF FPG-4.000 REQUIRES THAT STORAGE AREAS SHALL BE ORGANIZED TO MAINTAIN PROPER SEGREGATION OF MATERIALS. ITEMS SHALL RETAIN IDENTIFICATION FOR RETRICUABILITY, AS APPLICABLE TO THE NATURE AND USE OF THE MATERIAL. SECTION 6.1.1 OF FPG-4.000 REQUIRES THAT THE ACCESS TO STORAGE AREAS SHALL BE LIMITED TO

SEE ATTACHED SHEET

17. REPORTED BY: S.K. Fugate DATE: 7-17-79

18. VALIDATED BY: T.B. 7.17.79 T.O. Barclay DATE: 7-18-79

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

PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

837 257

Block #16 Continued:

PERSONNEL ACTUALLY INVOLVED IN WORK OR INSPECTION OF THE MATERIAL.

CONTRARY TO THE ABOVE, THE OUTDOOR STAGING AREA EAST OF CONT. #2 BETWEEN THE TRANSFORMER AND THE MECHAK Bldg. HAS VALVES, PIPING, AND HANGERS THAT ARE "Q" AND "NON-Q" MIXED TOGETHER. THERE IS ALSO NEW HANGERS AND EXCESS HANGER SUBASSEMBLIES IN THE AREA. THERE IS ALSO SCRAP MATERIAL STORED IN THE AREA. THERE ARE TWO HANGERS (2-613-3-9 AND 2-619-5-7) THAT HAVE NCR Hold TAGS (NCR 1086) ON THEM. SEVERAL OF THE "Q"-VALVES AND SEVERAL PIECES OF "Q"-PIPE ARE NOT CAPPED PROPERLY.

THE AREA HAS BEEN ROPED OFF WITH Q.C. Hold FLAGGING. NO Hold TAGS APPLIED.

"Q"-Listed # — N/A.

POOR ORIGINAL

837 258

D

NONCONFORMANCE REPORT

S/U CODE INDETERMINATE

1. PROJECT NAME: MIDLAND	JOB NO. 7220			19. NO. 2357	20. PAGE 1 OF 1
2. UNIT(S): INDETERMIN.	3. DRAWING/PART NO.: N/A	REV	4. ITEM DESCRIPTION: 600 Volt Control Cable 5/150' 2/C #14 FWL III	5. ITEM LOCATION: POSEYVILLE LAYDOWN	
6. P.O. OR SPEC NO.: E-26	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N ____ REV ____ SER NO. ____ N/A	9. SOURCE: SUPPLIER	10. CONTRACTOR/SUPPLIER: CERRO WIRE & CABLE Co.	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER — IR NO. R-100-1005B NO. E-26 rev-6	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 REV. 6 REQUIRES "The method of preparation for shipment shall be such as to protect the cable against dust, dampness or injury that might be encountered in transportation and handling." Contrary to this REEL # G01C288A has an uncapped or taped cable end. Hold for engineering disposition. Q number is 3.007. ONE QC HOLD TAG APPLIED TO THIS NONCONFORMING ITEM.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Sol D Estes	7/17/79	for C W Barclay	7-17-79

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

PROJ CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

R E

8337 259

Also

stamp 2RLC.

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 7220				19. NO. 2358	20. PAGE 1 OF 5
2. UNIT(S): 2	3. DRAWING/PART NO.: E629	REV: 7	4. ITEM DESCRIPTION: Control Panel 2C 166		5. ITEM LOCATION: Aux Bldg El 659	
6. P.O. OR SPEC NO.: NA	7. SERIAL NO.: NA	8. REPLACEMENT PART P/N NA REV NA SER NO. NA	9. SOURCE: Construction	10. CONTRACTOR/SUPPLIER: NA		
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. E6.0-75 NO. J 204 Rev. 7	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: Project Engineering has approved the use of Studs ½ x 13 for the Attachment of 2C-166 to the Steel Embeds, REM J-120 dated 9/28/79 Approves this method. The torque value for the ½ x 13 welded stud, in accordance with A.W.S. D1.1 Specification Fig 4.30.2 are tested at 37 Ft. Lbs. Contrary to the above information, Foxboro" Vendor Dwg. 7220-J20-32-4, Suggests the USE of "½ x 20 Stud SAE 85. A.8 Medium Carbon Quenched & Tempered, Torque to 115 Ft. Lbs"

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Wm. Labrozik	7/18/79	W. T. Barclay	7-19-79

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

POOR ORIGINAL

(Recommended for Seismic Loads). Equipment 2C-166 has been installed in accordance with REM J-120 dated 9/28/78 Equipment 1C-166 is not installed. Attached for Information Purposes REM J-120 dated 9/28/78 DWG SC-1 7220-J204-32-4

9 List 5.037 (1 Hold) Tag Applied Hold for Engineering Disposition

837 261

MIDLAND PROJECT

RESIDENT ENGINEER MEMORANDUM

RE- J-120

DATE 9-28-78

SUBJECT: ATTACHING OF PANELS 1C166 AND 2C166 TO EMBEDS

REF: FIELD ENGINEERS REPORT DATED 9/20/78 # E-170

AAO COORDINATION: Date 9/28/78 / Time 0930 / AAO Contact CHARLES RACK

PROJECT ENGINEERING HAS REVIEWED THE REFERENCED FIELD ENGINEERS REPORT AND HAS FOUND IT ACCEPTABLE TO USE THE $\frac{1}{2}$"-13 STUDS FOR ATTACHING PANELS 2C166 AND 1C166 TO EMBEDS.

RESIDENT ENGINEER John Mayer
M D Rencle 9-28-78

AAO Review: Group Supervisor _____

Date: _____

E-17c

FIELD ENGINEER'S REPORT FORM

MIDLAND UNITS 1 & 2

JOB 7220 DATE 9/20/78 PAGE 1 OF 1

ITEM NO.	INSPECTION DESCRIPTION	ACTION REQUIRED/TAKEN
1	DWGS. E-628(Q) & E-629(Q) SHOW EQUIPMENT 2C166 & 1C166 RESPECTIVELY. THE FOXBORO VENDOR DWG. LISTED UNDER THE REFERENCE NO. J204-32-4 SHOWS THESE CABINETS TO BE SECURED TO EMBEDS BY ½"-20 CAP SCREW OR STUD. FIELD HAS CHOSEN TO USE THE STUD METHOD; HOWEVER, ½"-20 STUD BOLTS WOULD HAVE TO BE SPECIAL ORDERED. FIELD REQUESTS THAT ½"-13 STUD BOLTS BE USED SINCE THEY ARE READILY AVAILABLE AND WOULD NOT CAUSE UNDUE DELAY TO EQUIPT. INSTALLATION.	RE-J-120 Jerry Wesley 9/28/78

NCR-23 8 Page 4 of 5 1-31-79

REMARKS:

POOR ORIGINAL

837 263

RICK AUGER

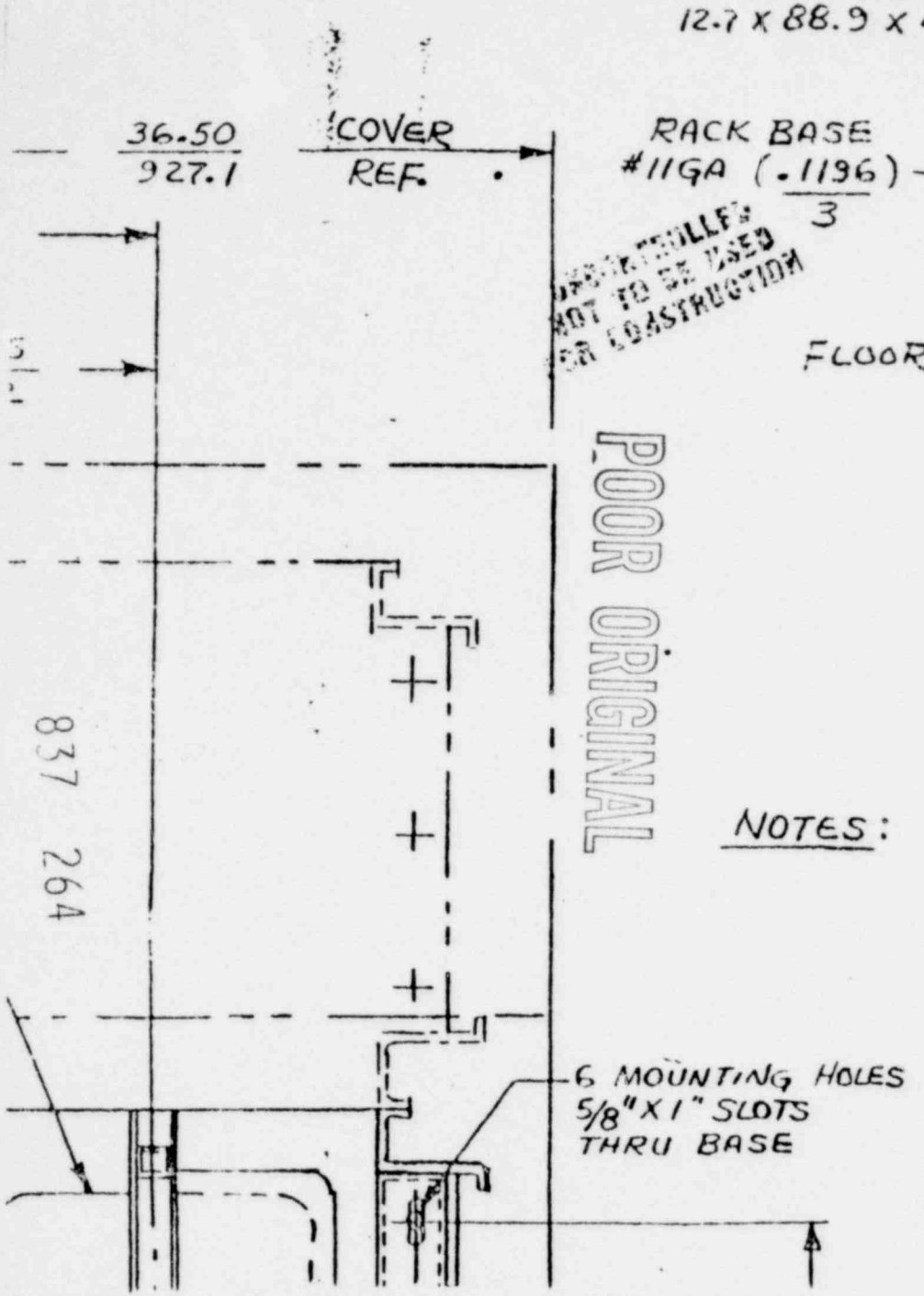
R. Auger

SIGNATURE

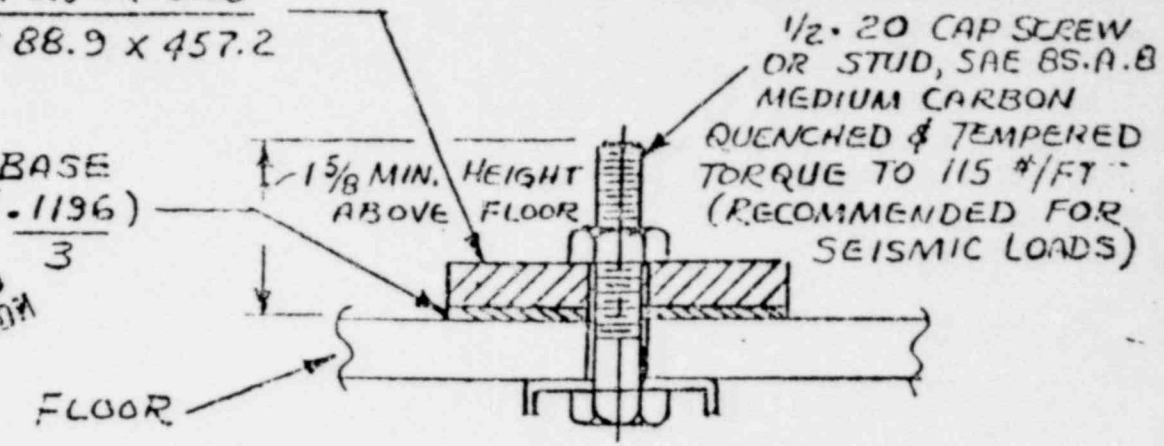
ROUTE

1. W. ANDERSON
2. B. MATHEWS
3. J. WARD
4. D. THOMSON
5. C. CROSBY
6. J. VORIS

FILE AUX BLDG.



POOR ORIGINAL



SECTION "A-A"

SCALE: NONE

SUGGESTED FLOOR MOUNTING OF RACK

NOTES:

1. CABLE ENTRY OR EXIT THRU BOTTOM ACCESS HOLES (2 HOLES SEE VIEW "B-B") ROUTE CABLE DIRECTLY UP CENTER OF RACK. THIS ROUTE CANNOT BE USED WHEN NEST IS LOCATED IN BOTTOM ROW. (USE BOTTOM SIDE OPENING.)
2. CABLE EXIT OR ENTRY DIRECTLY THRU TOP COVER
3. ALL WELDED STANDARD NUCLEAR DESIGN PER CORPORATE SPEC – MODEL N-2EZ-B
4. RACK NO: 1C166, 2C166
   ITEM NO: 14.3

BECHTEL

NONCONFORMANCE REPORT

S/U Non-Testable Unit

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 2359	20. PAGE 1 OF 2
2. UNIT(S): Cont#1	3. DRAWING/PART NO.: E-657 Sh 1	REV: 8	4. ITEM DESCRIPTION: Conduit supports for 1CVA021, 1CVA022 and Communications conduit		5. ITEM LOCATION: Cont#1 Wall @ Col #7, 645'
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. See Block 4 NO. C-305Rev 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:

Specification 7220-C-305 Table 4.1 gives minimum center-to-center spacing for 3/4" wedge and stud type anchors as 7 1/2". Note #3 allows the reduction of the center-to-center spacing of up to 50% with prior approval of Project Engineering.

Contrary to the above, there is no Project Engineering approval for the center-to-center distance between on 3/4" anchor of a Type 11 conduit support and a 3/8" anchor of a Type 1A conduit support being 4 1/2". Continued on page 2.

E

17. REPORTED BY: [signature] DATE: 7-17-79

18. VALIDATED BY: [signature] DATE: 7-19-79

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

837 265

NONCONFORMANCE REPORT (CONT'D) [20]PAGE 2 OF 2 [19]NCR NO 2359

Continued for Block 16.

One QC Hold Tag applied. Hold for Engineering Dispostion. Q List #3.006

837 266

NONCONFORMANCE REPORT

S/U Non Testable Unit

1. PROJECT NAME: Midland	JOB NO.: xxxxxx 7220			19. NO. 2360	20. PAGE 1 OF 1
2. UNIT(S): N/A	3. DRAWING/PART NO.: Specification C-304	REV: 6	4. ITEM DESCRIPTION: Technical Specification for Field Fab., Repair, Erection of Struct. Steel.	5. ITEM LOCATION: N/A	
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: Engineering	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. ____ NO C-304 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:

Specification 7220-C-304, Rev. 6, Section 11.3.b.1 states:

"Minor Repairs - Repair shall proceed for Section 11.3.3 below if the total material removed from a structural element per Section 11.3.1 falls ....."

Contrary to the above, neither Section 11.3.1 nor Section 11.3.3 exist in Specification 7220-C-304, Rev. 6.

No QC Hold Tags applied.

17. REPORTED BY: J W Miller DATE: 7-17-79

18. VALIDATED BY: K B Barclay DATE: 7-19-79

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

22. ( ) Field Engineering Disposition ( ) Field Engineering Recommend ; 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 ____

8227 2267

S/U 1-GJA

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland Units 1&2	JOB NO. 7220				19. NO. 2361	20. PAGE 1 OF 3
2. UNIT(S): Common	3. DRAWING/PART NO.: FSK-M-1HI3C-196-197-204-205-1	REV: 3/4/5	4. ITEM DESCRIPTION: Under-Size Socket Welds		5. ITEM LOCATION: EL 614, 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: Const.	10. CONTRACTOR/SUPPLIER: N/A		
11. INSPECTION CRITERIA ( ) DWG (X) SPEC (X) OTHER	IR NO X SEE Block-16 NOG-27 (Rev 10) ASME Sec. III, 1974 ED.	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES ( ) NO	13. SKETCH ATTACHED ( ) YES ( ) NO	14. Discovered During ( )Rec'g ( )Const ( )Start-up	15. Equip Furnished By ( )Client ( )Eng ( )FLD	

16. NONCONFORMING CONDITION: ASME Sec. III, 1974 ED., Subsection ND, Article ND-4000, Fig. ND-3661.1-1, and Spec. G-27, Rev. 10, sheet 12, Drawing No. 7, Rev. 3, under socket weld details, X min. = 1.4 T, Times Thickness or thickness of hub whichever is smaller but not less than 1/8 inch, For socket welding flanges, and C X min. = 1.0.9 T Times Thickness, Times 0.7, But not less than 1/8 inch For socket welding, Fitting. Contrary to the above: Reinspection on the following socket welds listed below by system and socket weld number were found to be unacceptable.

17. REPORTED BY: John C. Braun DATE: 7/20/79

VALIDATED BY: W B Barclay DATE: 7-20-79

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

837 268

Cont. of Block 16,

FSK-M-1HBC-197-2, sch.80 c/s Pipe 1½"

	Throat	min. Required	Leg	min. Required	Remarks
SW #24	5/32" + 3/16"	3/16"	5/16" + 1/4"	1/4"	
SW #26	5/32" + 3/16"	3/16"	1/4"	1/4"	

FSK-M-1HBC-196-2, sch.80 c/s Pipe 2" & 1½"

	Throat	min. Required	Leg	min. Required	Remarks
SW #16	5/32" + 3/16"	3/16"	1/4"	1/4"	
SW #17	5/32" + 3/16	3/16"	1/4"	1/4"	
SW #18	5/32" + 3/16	3/16"	3/16" + 1/4"	1/4"	
SW #22	5/32"	3/16"	3/16" + 1/4"	1/4"	
SW #23	5/32" + 1/4"	3/16"	1/4" + 5/16"	1/4"	Welder I.D. or SW Number
SW #24	5/32"	3/16"	1/4"	1/4"	
SW #25C1	5/32" + 3/16"	3/16"	1/4"	1/4"	

FSK-M-1HBC-205-1, sch.80 c/s Pipe, 1".

	Throat	min Required	Leg	min Required	Remarks
SW #34	5/32"	3/16"	1/4"	1/4"	
SW #5	5/32"	3/16"	1/4"	1/4"	
SW #6	5/32"	3/16"	1/4"	1/4"	
SW #37	5/32" + 3/16"	3/16"	1/4"	1/4"	
SW #23	SEAL WELD	→			LACK of FUSION 360°
SW #42	5/32" + 3/16"	3/16"	1/4"	1/4"	GOUGED Fitting, Approx. 3/32"
SW #43	5/32" + 3/16"	3/16"	1/4"	1/4"	GOUGED Fitting, Approx. 3/32"

837 269

Cont. of Page 2, Block "16"

FSK-M-1HBC-204-1, sch 80 c/s Pipe, 1"

	Throat	min. Required	Leg	min. Required	Remarks
SW #12C1	5/32"	3/16"	1/4"	1/4"	
SW # 2	5/32"	3/16"	1/4"	1/4"	No SW. number
SW #15C1	5/32"+3/16"	3/16"	1/4"	1/4"	Undercut Deeper than 1/32"
SW #11C1	5/32"	3/16"	3/16"+1/4"	1/4"	Undercut Deeper than 1/32"
SW #10	5/32"+3/16"	3/16"	1/4"	1/4"	

FSK-M-1HBC-205-1, sch. 80 c/s Pipe, 1".

	Throat	min. Required	Leg	min. Required	Remarks
SW #18	5/32"+3/16"	3/16"	1/4"	1/4"	Flange weld
SW #25	5/32"	3/16"	3/16"+1/4"	1/4"	Flange weld
SW #26	5/32"+3/16"	3/16"	3/16"+1/4"	1/4"	Valve weld
SW #33	5/32"	3/16"	3/16"+1/4"	1/4"	Inst. valve weld
SW #27	5/32"+3/16"	3/16"	1/4"+5/16"	1/4"	Flange weld
SW #28	5/32"+3/16"	3/16"	1/4"	1/4"	Flange weld
SW #32	5/32"	3/16"	1/4"	1/4"	Inst. valve weld
SW #21	5/32"	3/16"	3/16"+1/4"	1/4"	Valve weld on sys. FSK-M-1HBC-204-1
SW #22	5/32"+3/16"	3/16"	3/16"+1/4"	1/4"	Valve weld on sys. FSK-M-1HBC-204-1

HOLD FOR ENGINEERING DISPOSITION — 31 HOLD TAGS APPLIED.

837 270

S/U #'s - 2-NGE
2-BCA
2-EGA
2-BGC

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 07220			19. NO. 2362	20. PAGE 1 OF 3
2. UNIT(S): 2	3. DRAWING/PART NO.: E-532	REV: 13	4. ITEM DESCRIPTION: 4160V. Switchgear 2A06		5. ITEM LOCATION: Aux. Bldg. El. 614'
6. P.O. OR SPEC NO.: E-205 Rev.9	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: I. T. E. Gould	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. E-6.0-6 NO. E-205 Rev. 9		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:

A survey of the "States Block" terminal blocks in the 2A06 4160V switchgear revealed that some of the sliding links have split upon tightening. The following blocks were found to have this problem: Compartment 605 - Terminal LX31; Compartment 607 Terminal LX27 ; Compartment 610 - Terminal LX14 & LX24; Compartment 611 - Terminal LX7, LX38, LX24. A complete examination of these compartments has not been made. The quanity of Terminals that have been split is indeterminate. See attached sketch for location of split in metal.

17. REPORTED BY: A.M. Lobsiger DATE: 7/20/79

18. VALIDATED BY: A.C. Barclay DATE: 7-20-79

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

8311271

BECHTEL

NONCONFORMANCE REPORT (CONT'D) 1 PAGE 2 OF 3 14 NCR NO 2362

Block 16 continued:

The first non conformance was noted by Consumers Power, who have identified 38 individual cases, which required 13 blocks to be replaced on Start-Up Transformer "0X03A" (Non Q).

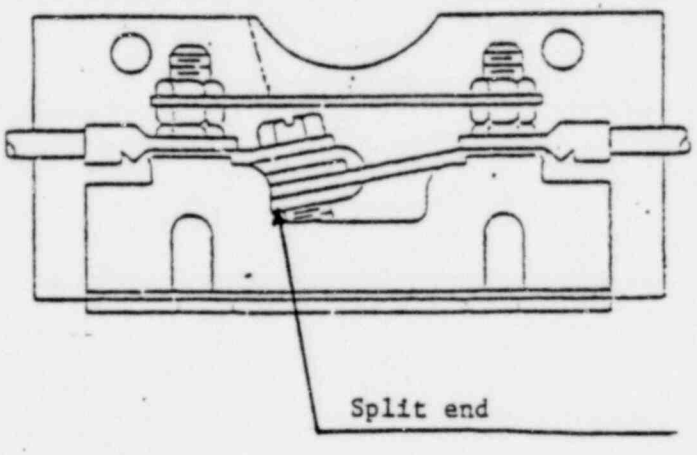
Q-List # 3.101 4 Hold Tags Applied Hold for Engineering Disposition

10098-2

QC-G1-3

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

8311272


Split end

NONCONFORMANCE REPORT

S/U nontestable unit

1. PROJECT NAME: Midland	JOB NO. 7220			19. NO. 2363	20. PAGE 1 OF 2
2. UNIT(S): 1 & 2	3. DRAWING/PART NO.: E642 sh 2 / 643 sh 2	REV 5/4	4. ITEM DESCRIPTION: STUD ANCHORS	5. ITEM LOCATION: AUX BLDG ELEV 674'6"	
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 ( ) DWG (X) SPEC ( ) OTHER	IR NO. C305 Rev 8 NO. SCN 9002	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: C3.05 Rev 8 SCN 9002 states in part... "Each stud anchor shall be marked/coded to provide a positive method to identify the length of the stud anchor after it has been installed." The supports listed below were installed with uncoded stud anchors, but not accepted by Quality Control prior to SCN 9002 being issued. These anchors are now nonconforming per SCN 9002.

(continued page 2)

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
T Brinster	7-20-79	C Barclay	7-20-79

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

837 217A

(continued Block 16)

ALL Supports are TYPE 1A WIREWAY. ALL Supports have 4 anchors each.

UNIT 1

RACEWAY	ANC. DIA	APPROX. LOC.
1BGB001	3/4" ϕ	10' E. of 5.3
1BFB012		2' N. of K
1BFB013		
1BFA002	3/4" ϕ	10' E of 5.7
1BFB008		12' S of H
1BGB004	TWO SUPPORTS THIS LOCATION	

UNIT 2

RACEWAY	ANC. DIA	APPROX. LOC.
2BFA006	3/4" ϕ	4' E of 7.2
2BFB006		12' S of H
2BFB007		
2BGB007		

UNIT 2 cont.

RACEWAY	ANC. DIA.	APPROX. LOC.
2BWW023	3/4" ϕ	4' W of 7.8
2BWW024		12' S of H
2BFG004	5/8" ϕ	4' W of 7.8
		14' S of H
2BWW020	5/8" ϕ	8' E of 7.2
		2' S of K
2BGB003	3/8" ϕ	2' E of 6.6
		6' N of K
2DH041	1/2" ϕ	6' E of 7.2
		4' N of K

9 HOLD TAGS APPLIED

Hold for Engineering Disposition

Q List 3.806

POOR ORIGINAL

837 275

NONCONFORMANCE REPORT

s/u Non testable unit

1. PROJECT NAME: MIDLAND	JOB NO. 7220					19. NO. 2364	20. PAGE 1 OF 1
2. UNIT(S): AUX	3. DRAWING/PART NO.: E-628	REV: 6	4. ITEM DESCRIPTION: Conduit Support			5. ITEM LOCATION: GAT 5.6 EL 689'	
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. C304-948WR1 NO. C-304	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) LD		

16. NONCONFORMING CONDITION: Spec. C304 Rev 6, Paragraph 6.3.10 states: "No welding shall be done across the flange of the beam without prior approval of Project Engineering." Contrary to the above a P1001 support has been installed with continuous across the flange weld. Conduit attached to this support is INTQ001. Support location: Rigid frame area GAT 5.6, 689' Aux Bldg.
ONE HOLD TAG APPLIED HOLD FOR ENGINEERING DISPOSITION
"Q" List 1,201

17. REPORTED BY: KLB John A. Low DATE: 7-20-79

18. VALIDATED BY: [illegible] DATE: 7-20-79

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

837 276

NONCONFORMANCE REPORT

NON-TESTABLE UNIT

1. Project Name: Midland Units 1 & 2	Job No.: 7220					19. No. 2365	20. Page 1 of 1
2. Unit(s): 2	3. Drawing/~~Part No.~~: C-241 (Q)	Rev: 11	4. Item Description: Structural Steel			5. Item Location: See Block 16	
6. ~~P.O.~~ Or Spec No.: C-304 (Q)	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. C-2.10-25 NO. 7220-C-304 (Q)	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:

Specification 7220-C-304 (Q) Revision 6 Paragraph 6.2.6 states: "No welding across the flange of the beam shall be done without the prior approval of Project Engineering." Contrary to the above, four (4) (4), 3/16" fillet welds were completed across the flange of beam #507B12 (W18x60), to mount an electrical junction box. (support type 9E similar) Location is approximately 1' north of "K" line and 12'6" east of 7.4. Elevation: 683'6" (TOS)

Hold for Engineering disposition. "Q" list #1.102 1 "HOLD" tag applied

17. Reported By: L. A. Hanson Date: 7-20-79

18. Validated By: J. E. Russell/WIB Date: 7/21/79

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

8711270278

NONCONFORMANCE REPORT

S/U 2-PHA 1-PHH 2-PHF 1-PHA 1-PHG 2-PHE 0-PHI

1. PROJECT NAME: Midland	JOB NO.: 07220			19. NO. 2366	20. PAGE 1 OF 2
2. UNIT(S): 1 & 2	3. DRAWING/PART NO.: N/A	REV	4. ITEM DESCRIPTION: 3/C #350 MCM (Cable Code B-11)	5. ITEM LOCATION: Aux. Bldg. El.614	
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 Wire and Cable Co.	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO 1AB1702 B 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:

The quality of cable reel # 4751 has been found to be indeterminate due to flaws discovered in scheme cable # 1AB1702 B and 2BB1805 B. Scheme cable # 1AB1702 B has been identified as containing an indentation of approximately 1/32 of an inch in depth on one of the copper conductors for the length of the run. This same condition is evident in scheme cable # 2BB1805 B also (reference NCR #2319).

The 'Q' scheme cable nos. affected by the indeterminate

E

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
R. L. Gibbons	7-21-79	J. E. Russell/WLB	7/21/79

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

837 278

NONCONFORMANCE REPORT (CONT'D) PAGE 2 OF 2 NCR NO 2366

Block 16 continued :

quality of cable reel # 4751 are listed below:

Scheme Cable No.	Date cable pulled off of reel #4751
1BB2401 A	5-11-79
1AB2301 A	5-16-79
2BB1805 B	5-16-79
2BB1805 A	5-16-79
2AB1705 A	5-19-79
2AB1705 B	5-19-79
2AB1702 B	5-19-79
2AB1702 A	5-19-79
1AB2312 A	5-29-79
2AB2312 A	5-29-79
1AB1702 B	5-30-79
1AB1702 A	5-30-79

Hold for Engineering Disposition.

'Q' List # 3.003

24 Hold Tags Applied

827 279

BECHTEL

NONCONFORMANCE REPORT

START UP CODE : INDETERMINATE

1. PROJECT NAME: MIDLAND			JOB NO.: 7220			19. NO. 2367	20. PAGE 1 OF 2
2. UNIT(S): INDETER.	3. DRAWING/PART NO.: N/A	REV	4. ITEM DESCRIPTION: 3000 # SA-105 SOCKET WELD REDUCING INSERTS	50 PCS 3/8" x 1/4" 200 PCS 1" x 1/4"		5. ITEM LOCATION: QC HOLD WHSE #1	
6. P.O. ~~OR SPEC~~ NO. REV. 1 REL. 1 REV. D: 7220-F-3150	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV ____ SER NO. ____		9. SOURCE: SUPPLIER	10. ~~CONTRACTOR~~/SUPPLIER: CHICAGO TUBE &	PDN NO.	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. R-1.00-9999 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. Furnished By ( ) CONTR ( ) Eng (X) FLD	

16. NONCONFORMING CONDITION: PURCHASE ORDER 7220-F-3150 RELEASE 1 REV. D REQUIRES THE ABOVE LISTED MATERIAL AND CORRESPONDING QUALITY VERIFICATION DOCUMENTATION TO BE IN ACCORDANCE WITH SPECIFICATION 7220-M-305 REV. 4 AND FORM G-321-D. M-305 REQUIRES THE SUPPLIER TO SUBMIT THE G-321-D AND DOCUMENTATION PRIOR TO OR WITH ARRIVAL OF THE MATERIAL AT THE JOBSITE. CONTRARY TO THE ABOVE, NO FORM G-321-D (CONT'D PAGE 2)

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Rick G Montrenes	7-19-79	W Barclay	7-19-79

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

8311
830

NONCONFORMANCE REPORT (CONT'D) [20]PAGE 2 OF 2 [19]NCR NO 2367

(CONT'D FROM BLK 16)
WAS RECEIVED WITH THE QUALITY VERIFICATION DOCUMENTATION FOR THE MATERIAL LISTED ABOVE. HOLD FOR ENGINEERING DISPOSITION. "Q" NUMBER IS INDETERMINATE. 2 HOLD TAGS APPLIED TO THE NONCONFORMING MATERIAL.

837 281

D

BECHTEL

NONCONFORMANCE REPORT start upcode: indeterminate

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 2369	20. PAGE 1 OF 1
2. UNIT(S): indeterminate	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: SA-193 Gr. B7 (studs) SA 194 Gr. 2H (NUTS) 1725 pcs. studs and nuts P.O. item #'s 1-4	5. ITEM LOCATION: WHSE # 2	
6. P.O. OR ~~SPEC~~ NO.: F34876	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N ____ REV ____ SER NO. N/A	9. SOURCE: Supplier	10. ~~CONTRACTOR~~/SUPPLIER: NPS Industries	
11. INSPECTION CRITERIA ( ) DWG (M) SPEC ( ) OTHER IR NO. R-1.00-9981 NO M-305 Rev. 3	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (M) NO	13. SKETCH ATTACHED ( ) YES (M) NO	14. Discovered During (M) Rec'g ( ) Const ( ) Test	15. Equip Furnished By ( ) Client ( ) Eng (~~M~~) LD	

16. NONCONFORMING CONDITION: Bechtel Specification M-305 Rev. 3 requires documentation in accordance with form G-321-D. Contrary to the above, no G-321-D form was received with the documentation for the 1725 studs and nuts received on AEO-9981 "Q" number is indeterminate until installation. Hold pending final disposition. 4 Hold tags applied.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Michael J. Moore	7-19-79	W. W. Barclay	7-19-79

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

837 282

D

BECHTEL

NONCONFORMANCE REPORT

start up code: indeterminate

1. PROJECT NAME: Midland	JOB NO. 7220			19. NO. 2370	20. PAGE 1 OF 1
2. UNIT(S): Indeterminate	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: ASME SA-193 Grade B7 100 ea. 5/8" x 5" All thread stud heatcode - JD67		5. ITEM LOCATION: WHSE #1
6. P.O. OR ~~SPEC~~ NO.: F35266 Rev. 1	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N ____ REV ____ SER NO. N/A	9. SOURCE: Supplier	10. ~~CONTRACTOR~~/SUPPLIER: TEXS BOLT COMPANY	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER — IR NO. R-1.00-9909 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: Bechtel Specification M-305 Rev. 3 requires documentation in accordance with form G-321-D. Contrary to the above, NO G-321-D form was received with the documentation for the 100 ea. studs received on AEO-9909 "Q" NUMBER is indeterminate until installation. Hold pending final disposition. 1 Hold tag applied.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Michael J. Moore	7-19-79	W. Barclay	7-19-79

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

837 283

X

BECHTEL

NONCONFORMANCE REPORT

S/U Non Testable Unit

1. PROJECT NAME: Midland	JOB NO. 7220			19. NO. 2371	20. PAGE 1 of 1
2. UNIT(S): Cont #1	3. DRAWING/PART NO.: E-757 Sht 1	REV: 5	4. ITEM DESCRIPTION: Bracing per ~~XXXX~~ FCR E-1696		5. ITEM LOCATION: Cont#1 649', SouthSecSidwall
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. ____ NO. C-304 Rev. 6		12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED XX YES ~~XX~~ NO	14. Discovered During ( )Rec'g (X)Const ( )Test	15. Equip Furnished By ( )Client ( )Eng (X)FLD

16. NONCONFORMING CONDITION: Specification 7220-C-304, Rev. 6, Section 11.3.b.2 states;

"Major Repairs - Project Engineering approval is required for repair if the total material removed from a structural element per Section 11.3.a cannot be classified as a minor repair in accordance with Section 11.3.b.1."

Contrary to the above, two (2) areas of excessive grinding that required major repair were repaired without Project Engineering approval.

Q List #3.006. Two QC Hold Tags applied. Hold for Engineering Dispostion.

E

17. REPORTED BY: J W Miller DATE: 7-17-79

18. VALIDATED BY: G K Barclay DATE: 7-19-79

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

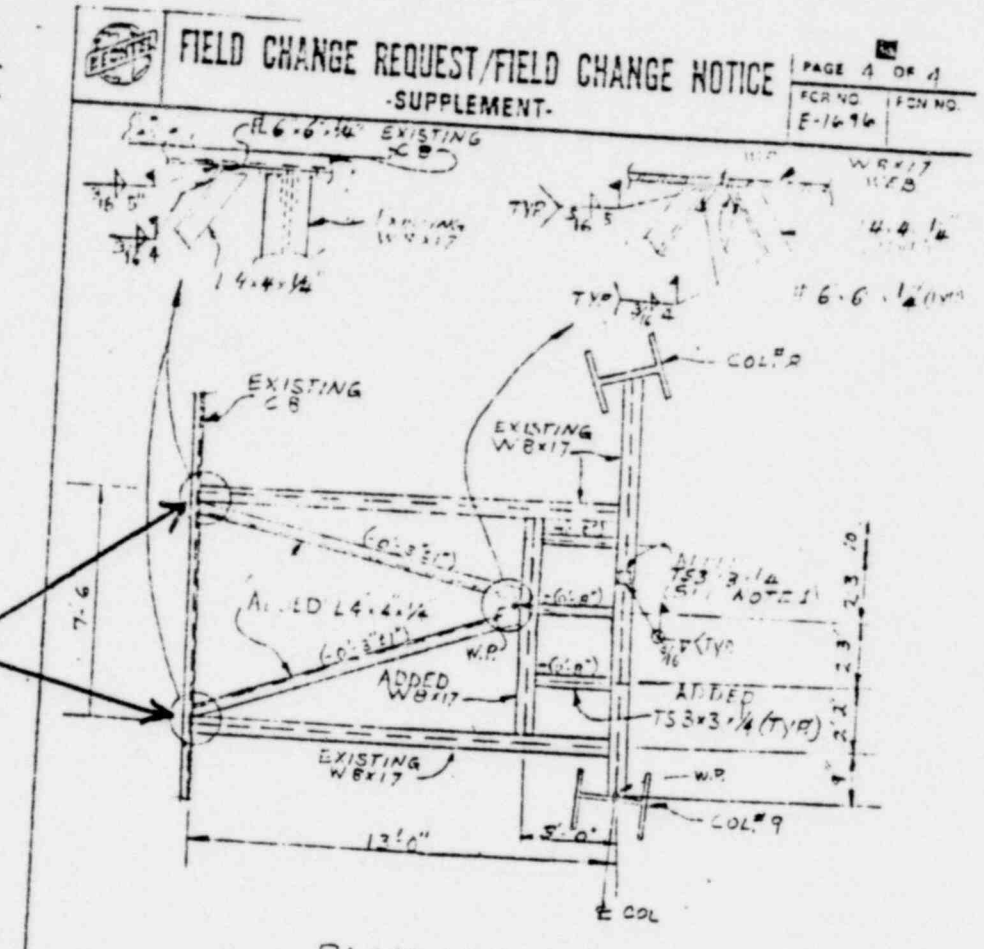
AUTHORIZED INSPECTOR — DATE

837 284

NCR-2371

PAGE 2 of 2

AREAS OF EXCESSIVE GRINDING & REPAIR



PLAN VIEW (PARTIAL)
T.O.S. EL. 649'-11" U.N. (DWG. E-75)

NOTES

1) ADDED TS3x3x1/4 SHALL BE ATTACHED TO THE FLANGE OF THE WBx17 CABLE TRAY SUPPORT STEEL AT EL. 649'-11" AND EXISTING STRUCTURAL STEEL AT EL. 656'-6"
2) ALL DIMENSIONS ARE APPROX.; VERIFY IN FIELD.

POOR ORIGINAL

837 285

NONCONFORMANCE REPORT

S/a Non Testable Unit.

1. PROJECT NAME: Midland	JOB NO.: 07220			19. NO. 2372	20. PAGE 1 OF 2
2. UNIT(S): 2	3. DRAWING/PART NO.: E-650 sh 1	REV: 15	4. ITEM DESCRIPTION: Anchor Installition	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 (XX) SPEC ( ) OTHER IR NO. 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 (XX)Const ( )Test	15. Equip Furnished By ( )Client ( )Eng (X)FLD

16. NONCONFORMING CONDITION:

Specification 7220-C-305, Rev 8, SCN #9005 states, "An abandoned anchor hole need not be repaired prior to loading of an expansion anchor if that expansion anchor is at least as far as the minimum edge distance defined in Tables 3.2 and 4.1." Also Appendix E states, "When an expansion anchor hole is abandoned, the new hole can be drilled at a minimum distance of two (2) times the diameter of the hole, provided the abandoned hole is repaired in accordance with section 17 of Specification 7220-C-231 prior to application of

E

17. REPORTED BY: Raleigh Amos DATE: 7/21/79

18. VALIDATED BY: DC Barclay DATE: 7-23-79

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

837 286

Block 16 continued

load on anchor."

Contraty to the above, a 3/8" stud anchor was installed 1 1/2" from an abandoned hole and that hole was not repaired prior to loading the anchor. The anchor is located in Unit #2 Containment, Elev. 601'-8", in North doorway of Let Down Cooler.

HOLD FOR ENGINEERING DISPOSITION

One (1) Hold Tag Applied

Q List # 1.102

837 287

S/L Non-Testable

NONCONFORMANCE REPORT

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO. 2373	20. PAGE 1 of 2
2. UNIT(S): UNIT #2	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: POST-TENSION TENDON LENGTHS		5. ITEM LOCATION: CONT. #2
6. P.O. OR SPEC NO.: 7220-C-1-AC	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, Inc.	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER IR NO. FSAR (Midland 1&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 (N/A ( )FLD

16. NONCONFORMING CONDITION: Sect. 3.8.1.6.3.2 of the Midland 1&2 FSAR rev. 14 states that the differential length for all tendons greater than 100' in length is ± 1/8" and that the overall tendon length shall be ± 1" from the correct length. Contrary to this, tendons numbered H21-254, H21-253, H21-251, H21-250, H21-249, H21-247, H21-246, H21-245, H21-243, H21-241, V-77, V-78, V-79, V-80, V-81, V-82 and V-83 have wire lengths that are indeterminate because of a malfunction of the automatic cut-off shears at the point of fabrication. The vertical tendons (cont.)

17. REPORTED BY: Stan VanderHeyden DATE: 7/24/79

18. VALIDATED BY: R. E. Russell/WLB DATE: 7/24/79

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

837 288

- Continuation of Block 16 -

were received on site and installed, but the horizontal tendons were placed on hold upon their receipt and were not installed into the sheaths. Q-List No. 1.107. Hold for Engineering Disp. 17 Hold Tags Applied.

837 289

NONCONFORMANCE REPORT

SU 2-EAC

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
MIDLAND	7220	2374	1 OF 2

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
2	M619 - SH. 17	3/F3	FIELD WELDS # 10, 11, 12, 13, 15	CONT # 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	IR NO	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG (X) SPEC ( ) OTHER	NO G-27-WQ1-1.3	(X) YES ( ) NO	( ) YES (X) NO	( ) Rec'g (X) Const ( ) Test	( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION: G-27-WQ1-1.3 STATES IN PART: WELDERS AND/OR WELDING OPERATORS SATISFACTORILY PASSING THE APPLICABLE TEST DESCRIBED IN THIS SPEC. WILL BE QUALIFIED TO WELD ON COMPONENTS WHICH ARE GOVERNED BY ANY CODE OR SPEC. THAT REFERENCES SECT. IX OF THE ASME BOILER & PRESSURE CODE.
CONTRARY TO THE ABOVE: FIELD WELDS INCLUDING # 10, 11, 12, 13, 15 ON DWG. M-619 SH 17 WHERE WELDED BY WELDER # P-742 BY PROCEDURE PI-AT-1.1T REV. 1. AT THE TIME WELDS WHERE DONE.

SEE CONT. SHEET FOR CONTINUATION OF BLOCK # 16

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
[signature]	7-19-79	[signature]	7/24/79

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

8027290

CONTINUATION OF BLOCK # 16

P-742 WAS CERTIFIED ONLY ON PI-T REV 2

QLIST # 4.192 ONE HOLD TAG APPLIED TO EACH WELD

837 291

NONCONFORMANCE REPORT

S/V 2BBB

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
MIDLAND	7220	2375	1 OF 1

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
2	FSK-M-2CCB-33-3	0	SOCKET WELD # 12	AUX BLDG EL 599' E OF G-6 S OF C

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
N/A	SEE BIDCK # 16	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 FSK-M-2CCB-33-3-6 NO GWS-NF 4.1, 4.2 & 2	( ) YES (X) NO	( ) YES (X) NO	( ) Rec'g (X) Const ( ) Test	( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION: SPEC. GWS-NF 4.1 STATES: SCRIBE A LINE ON THE FITTING O.D. EQUAL TO THE DISTANCE FROM THE FACE OF THE FITTING TO THE BOTTOM OF THE SOCKET. GWS-NF-4.2 SCRIBE A LINE ON THE PIPE OR TUBE THAT IS 2 INCHES, OR OTHER PRE-DETERMINED DISTANCE.

CONTRARY TO THE ABOVE: SOCKET WELD # 12 ON 2CCB-33 HAS NO FIT-UP SCRIBE MARKS THEREFORE LEAVING FIT-UP OF SOCKET WELD # 12 INDETERMINATE

QLIST # 4.047 ONE HOLD TAG APPLIED TO SOCKET WELD # 12

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
[signature]	7-21-79	[signature]	7/24/79

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

837 292

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
Midland Units 1 & 2	7220	2376	1 OF 1

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
2	M614 Sh. 11	4/F2	2HCD-151 s-614-11-2 and s-614-11-3	Aux. bldg. El. 614 5' E of 7.4 8'N of G

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

11. INSPECTION CRITERIA	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
(X) DWG ( ) SPEC ( ) OTHER IR NO. C304-802W NO.	( ) YES (X) NO	( ) YES (X) NO	( ) Rec'g (X) Const ( ) Test	( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION:

Drawing E42 (Q(Sheet 10, Note 10b states, in part: "In general, conduit shall not be installed within 3" of large pipes (2½" and larger... Contrary to the above, spools s-614-11-2 and s-614-11-3 were installed in contact with four (4) "Q" listed conduits and an unscheduled pullbox. The conduits are 2BKA016, 2BKA009, 2BKA007, and 2BKA017, and are embeded within 18" of spool s-614-11-3.

Hold for engineering disposition. "Q" list number 3.005 1 "HOLD" tag applied.

17. REPORTED BY: W. T. Hudson DATE: 7-23-79

18. VALIDATED BY: DF J. E. Russell/WLB DATE: 7/24/79

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

837 293

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
Midland	7220	2377	1 OF 1

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
Unit #1	Dwg. C-382	7	Steel Framing	Cont. #1 Azmuth 345°

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
Spec. C-304	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. C-2.10-C-382-63 NO. Spec. C-304	( ) YES (X) NO	( ) YES (X) NO	( )Rec'g (X)Const ( )Test	( )Client (X)Eng ( )FLD

16. NONCONFORMING CONDITION: Specification C-304 Rev. 6, Section 6.2.6 states in part; No welding across the flange of the beam shall be done without the prior approval of Project Engineering. Contrary to the above, across flange welding was performed at the two locations on the bottom flange of 604B4 W36X150 (4 fillet welds) and one location on the bottom flange of 608B4 W36X150 (2 fillet welds), floor elevation 640' (tos) FGA 7-23-79

Hold for Engineering Disposition 2 Hold Tags Applied "Q"-List No. 1.101

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
D.M. Doss	7-23-79	DF J.E. Russell/WLB	7/24/79

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

8307290294

BECHTEL

NONCONFORMANCE REPORT

START UP CODE: NON-TESTABLE UNIT

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
MIDLAND	7220	2378	1 OF 3

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
INDETER.	N/A		SEE BLK. 16	G-12-N QC HOLD POSEYVILLE

6. P.O. ~~OR SPEC NO.~~	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. ~~CONTRACTOR~~/SUPPLIER
REV. 25 REL. 1 REV. 17 7220-F-3107	N/A	P/N N/A REV ____ SER NO. ____	SUPPLIER	NPS INDUSTRIES INC.

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-1.60-1090 NO. SEE BLK 16	( ) YES (X) NO	( ) YES (X) NO	(X) Rec'g ( ) Const ( ) Test	( ) Client ( ) Eng (X) FLD

16. NONCONFORMING CONDITION: WELDING WAS PERFORMED ON MISCELLANEOUS FABRICATED METALS FOR RELEASE # 7 OF PURCHASE ORDER 7220-F-3107 WITH WELD PROCEDURES THAT WERE NOT PREQUALIFIED TO THE TOTAL REQUIREMENTS OF BECHTEL'S DRAWINGS AND SPECIFICATIONS. MISCELLANEOUS FABRICATED METALS RECEIVED ON NPS SHIPPING NOTICE NPS1-8241/CC REMAINS ON QC HOLD UNTIL BECHTEL HAS REVIEWED AND APPROVED (CONT'D ON PAGE 2)

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Rick G. Montgomery	7-24-79	J.E. Russell/WLB	7/24/79

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

8307 295

(CONT'D FROM BLOCK 16)
AN SDDR AND WELD PROCEDURES FROM NPS INDUSTRIES.
REFERENCE: TELECOPY C233A-F-3107-122 (0) PAGE 3 OF 3 OF THIS NCR
HOLD FOR ENGINEERING DISPOSITION.
"Q" NUMBER IS INDETERMINATE
4 HOLD TAGS APPLIED.

837 296

L. Dudley

TELECOPY

PAGE 3 OF 3
NCR # 2378

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640

July 10, 1979

NPS Industries, Inc.
2750 South West Moody
Portland, Oregon 97201

Attention: D. Stout
E. Prehn

Job 7220 Midland Project
Midland Plant 1 and 2
P.O. 7220-F-3107
C233A-F-3107-122 (0)

This letter is written to give authorization to ship the material on Release number 7 of the subject P.O. without approval of the Weld Procedure and Qualification Records.

The material will be placed on hold once it arrives on the jobsite until Bechtel has reviewed and approved an SDDR and weld procedures from NPS. The SDDR must address the fact that the welding was done with weld procedures that were not prequalified to the total requirements of Bechtel's drawings and specifications. This SDDR should include all welding procedures used on Release number 7.

Should the procedures not be approved and rework be necessary, Bechtel will perform the rework at the jobsite and backcharge NPS accordingly.

Very truly yours,

for J. F. Newgen
Project Superintendent
Bechtel Power Corporation
Agents of Consumers Power Company

JFN/JPB/jss

ROUTE QC 07220 INIT.
PFOCE
A. PFOCE
CIVIL
ELECT.
PIPING
MECH.
WELDING
QOC.
RECEIVING
ADM ASST
Mech Insp
Lab Supv.
OPEN ITEM
YES NO
DATE

POOR ORIGINAL

RECEIVED
JUL 12 1979
QUALITY CONTROL
BECHTEL JOB 7220
SIGNATURE

837 297

NONCONFORMANCE REPORT

s/u NON Testable Unit

1. PROJECT NAME: Midland	JOB NO.: 07220			19. NO. 2379	20. PAGE 1 OF 2
2. UNIT(S): 2	3. DRAWING/PART NO.: E-650 sh 1	REV: 15	4. ITEM DESCRIPTION: Cross Flange Welds	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. block #16 NO. C-304 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 ( )Eng (X)FLD	

16. NONCONFORMING CONDITION:

Specification C-304 rev. 6 para. 6.3.10 states,"No welding shall shall be done across the flange of the beam without prior approval of project engineering." Also, for a type 14 conduit support, E- 42 rev. 41 sh. 335 welding detail states," Continuous weld across flange not allowed."

Contrary to the above,a type 14 conduit support for 2AG083 is welded continuously across the bottom flange of the beam. The location is El. 612',

(Contiued on page 2)

17. REPORTED BY: Kalinga Rao DATE: 7/24/79

18. VALIDATED BY: [illegible] DATE: 7-25-79

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

837 298

Block 16 continued

4' Northeast of col. # 14, 3'-4" East of Liner.

(IR # 2AG083, C304 - 683W)

(EC2 - 33 - 203)

HOLD FOR ENGINEERING DISPOSITION

One (1) Hold tag applied

Q List 3.006

837 299

NONCONFORMANCE REPORT

S/U # OEAA ~~OEAA~~ MM 7-26-79

1. PROJECT NAME	JOB NO.	19. NO. 2380	20. PAGE 1 OF 2
MIDLAND	7220		

2. UNIT(S)	3. ~~DRAWING~~/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
COMMON	OF-75C	N/A	SERVICE WATER STRAINER	SERVICE WATER PIG EL 634

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	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
(✓) DWG ( ) SPEC ( ) OTHER	NO. 7220-M180-2-5	( ) YES (✓) NO	( ) YES (✓) NO	( ) Rec'g (✓) Const ( ) Test	( ) Client (✓) Eng ( ) FLD

16. NONCONFORMING CONDITION: VENDOR'S DWG # 7220-M180-2-5 SHOWS THAT THE MOUNTING HOLES WILL BE: 24 HOLES, 1¾" DRILL EQUALLY SPACED ON ℄'s FOR 1½" DIA ANCHOR BOLTS. CONTRAY TO THIS BOLT HOLES HAVE BEEN ELONGATED ¾" CIRCUMFERENTIALLY TO FACILITATE INSTALLATION.

"Q" LIST # 4,182

1 HOLD TAG APPLIED TO STRAINER

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
M. Sukhoo	7-25-79	D.B. Barclay	7-25-79

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

837 300

A Conditional release is granted to release strainer for pipe fitup and flange bolting. Strainer not to be grouted. Strainer remains retreivable without harm to ~~XXXX~~ adjacent material as main connections are flanged. Corrections or removal can be accomplished without causing damage ~~X~~ or contamination to ~~XXXXXXXXXXXXXXXXXXXXXXXXXXX~~ associated plant equipment or structure.

PFE 7-25-79 DATE

7-25-79 PFQCE J.B. Barclay 7-25-79 DATE

PQAE R.C. Hollar 7/25/79 DATE

8217 301

Brown

S/U - 2BGC

NONCONFORMANCE REPORT

1. PROJECT NAME: MIDLAND — JOB NO.: 7220 — 19. NO.: 2381 — 20. PAGE 1 OF 2

2. UNIT(S): 2 — 3. DRAWING/PART NO.: N/A — REV — 4. ITEM DESCRIPTION: MAKE-UP PUMP #2P-58B — 5. ITEM LOCATION: EL. 599

6. P.O. OR SPEC NO.: 7220-M1.16 — 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: B + W

11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER IR NO. N/A NO. F-10-12 — 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 (X) Client ( ) Eng ( ) FLD

16. NONCONFORMING CONDITION:

F-10-12 PARA 1.16 REQUIRES, AS PART OF THE THIRTY (30) DAY MAINTENANCE, FOR THE SHAFT TO BE ROTATED FIVE (5) REVOLUTIONS. WHEN THE ROTATION WAS PERFORMED IT WAS NOTED THAT THE PUMP MADE A METAL TO METAL RUBBING SOUND ORIGINATING FROM WITHIN THE PUMP CASING AREA. THE B+W REPRESENTATIVE WAS NOTIFIED OF THE PROBLEM ON 7/20/79 ON 7/24/79 a SPECIAL ROTATION OF THE PUMP WAS PERFORMED

17. REPORTED BY: Richard Kramer — DATE: 7/25/79 — 18. VALIDATED BY: J.B. Barclay — DATE: 7-25-79

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

837 302

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 2 19NCR NO 2381

With the B+W on site Rep. present, and again a metal to metal rubbing sound was noted. The B+W Rep. concured that the rubbing sound would warrent further investigation. NO official B+W recommendation has been received as of this date.

Q List # 41,046 ONE Hold Tag Applied to Pump

POOR ORIGINAL

C of CO

NONCONFORMANCE REPORT

S/U - NON TESTABLE UNIT

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO. 2382	20. PAGE 1 OF 1
2. UNIT# 2	3. DRAWING/PART NO.: 7220-C2-170-3	REV 3	4. ITEM DESCRIPTION: INSTALLED POST TENSIONING TENDONS		5. ITEM LOCATION: CONTAINMENT 2
6. P.O. OR SPEC NO.: 7220-C2-[redacted]	7. SERIAL NO.: V-77-2	8. REPLACEMENT PART N/A P/N ____ REV ____ SER NO. ____	9. SOURCE FIELD ENGINEERING	10. ~~CONTRACTOR~~/SUPPLIER: INRYCO	
11. INSPECTION CRITERIA ( ) DWG (✓) SPEC ( ) OTHER IR NO. NO. C2-[redacted]		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:

ONE WIRE IN TENDON V-77-2 HAS BEEN FOUND NOT HAVING A BUTTON HEAD ON THE SHOP END OF THE TENDON. SECTION 9.1.3.1 OF SPEC. C-2 REQUIRES THE SUPPLIER TO PROVIDE TENDONS WITH A COMPLETE END ANCHORAGE ON THE 'SHOP' END. Q. # 1.107, / HOLD TAG APPLIED, HOLD FOR ENGINEERING DISPOSITION.

C

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
L. E. Morris, F.E.	7-24-79	K. [redacted] Barclay	7-25-79

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

837 304

S/U - Non Testable

NONCONFORMANCE REPORT

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO. 2383	20. PAGE 1 OF 2
2. UNIT: CONT. 2	3. DRAWING/~~PART NO~~: 7220 - C2 - 170 - 3	REV: 3	4. ITEM DESCRIPTION: INSTALLED POST TENSIONING TENDONS		5. ITEM LOCATION: CONTAINMENT #2
6. P.O. OR SPEC NO.: 7220-C2-146-8	7. SERIAL NO.: H21-234, H21-236	8. REPLACEMENT PART P/N ____ REV ____ SER NO. ____	9. SOURCE: FIELD ENGINEERING	10. ~~CONTRACTOR~~/SUPPLIER: INRY CO	
11. INSPECTION CRITERIA: ( ) DWG (✓) SPEC ( ) OTHER — IR NO. NO. C2-146-8	12. ASME AUTHORIZED INSPECTION REQ'D: ( ) YES (✓) NO	13. SKETCH ATTACHED: ( ) YES (✓) NO	14. Discovered During: ( ) Rec'g (✓) Const ( ) Test	15. Equip Furnished By: ( ) Client (✓) Eng ( ) FLD	

16. NONCONFORMING CONDITION:

HORIZONTAL TENDONS H21-234 & H21-236 IN CONTAINMENT #2 HAVE TENDON WIRES WITH A LEVEL 'E' RATED WIRE CONDITION DUE TO RUSTING AND PITS. AS PER FIELD MANUAL 7220-C2-146 WIRES WHICH SHOW EVIDENCE OF PITTING MUST BE REJECTED UNLESS THE DEFECTIVE SECTIONS CAN BE REMOVED WITHOUT IMPAIRING THE QUALITY INTEGRITY OF THE TENDON. Q# 1.107

17. REPORTED BY / DATE: K. E. Morris, F.E. 7-24-79

18. VALIDATED BY / DATE: D. Barclay 7-25-79

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

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

REJECTABLE TENDONS H21-234 & H21-236 TO BE REMOVED AND REPLACED WITH ACCEPTABLE SUBSTITUTE TENDONS. REJECTED TENDONS WILL BE SCRAPPED.

K. E. Morris 7-25-79 — J. Betts 7/25/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
	X		

PROJECT FIELD ENGINEER — DATE: 7-25-79

PROJECT ENGINEER — DATE

PROJ CONSTR QC ENGINEER — DATE: 7-26-79

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

837 305

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 2 19NCR NO 2383

BLOCK 16. CONT.
HOLD FOR ENGINEERING DISPOSITION, 2 HOLD TAGS APPLIED.

837 306

NONCONFORMANCE REPORT

S/U NON-TESTABLE UNIT

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. ~~2284~~ 2384	20. PAGE 1 OF 2
2. UNIT(S): CC #2	3. DRAWING/PART NO.: C485	REV: 4	4. ITEM DESCRIPTION: PIPE RESTRAINTS 611-1-6A & 611-1-6B	5. ITEM LOCATION: CONT #2 EL 612±	
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. C-2.10-120 NO. C-304-4a	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:

AISC section 5 states., Because greater clamping force is used with A490 bolts, it is required that hardened washers, conforming to the requirements of ASTM Specification A325, be installed under both the nut and bolt head when A490 bolts are used. Spec. C-304-4a par. 9.6.2 states A490 bolts which have been tightened to the full extent specified by section. cont

C

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Edwin Dutton	7-25-79	T. B. Barclay	7-26-79

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

26. QC ACCEPTANCE

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

837 307

5 of the "AISC" shall not be reused.
Contary to the above 232 A540 1" ø bolts were installed in Pipe Restraints 611-1-6A and 611-1-6B without a hardened washer under the bolt head. Bolts have been tightened to the full extent specified in section 5 of the "AISC". Two hold tags applied. Q list #1.101

8-7 308

*0

BECHTEL

NONCONFORMANCE REPORT

SU 1-BCA

1. Project Name: MIDLAND Units 1+2	Job No.: 7220			19. No. 2385	20. Page 1 of 1
2. Unit(s): COMMON	3. Drawing/Part No.: 1-GCB-33-M-610-5	Rev: 8/F2	4. Item Description: QCIR-W.100B Form	5. Item Location: EL. 57'-5', 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: CONST.	10. Contractor/Supplier: N/A	
11. Inspection Criteria ☐DWG ☑SPEC ☐OTHER IR NO. M-610-5-39.5 FPW-4.000 REV. 1	12. ASME AUTHORIZED INSPECTION REQ'D ☑YES ☐NO	13. SKETCH ATTACHED ☐YES ☑NO	14. Discovered During ☐REC'G ☑CONST ☐TEST	15. Equip Furnished By ☐CLIENT ☑ENG ☐FLD	

16. Nonconforming Condition: FPW-4.000 para. 7.0, 7.1 Bullet B states: Copy #4 of the QCIR-W.100B Form must be in a envelope (plastic) on the run of pipe or adjacent to the weld before the first weld joint may be fit-up.: Contrary to this, Temp. Lugs to FW #39 were welded on 5-24-79 one (1) day before issueance of the QCIR W.100B Form dated 5-25-79. QCIR still not on Pipe Joint. Hold for Engineering Disposition - 1 Hold Tag applied (Hold List No. 4.104)

17. Reported By: John C. Braun Date: 7-26-79

18. Validated By: N/A W.E. Barclay Date: 7-27-79

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

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

23. Project Engineering Disposition

POOR ORIGINAL

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 ____

837 309

S/U 2-EAC

NONCONFORMANCE REPORT

1. Project Name: MIDLAND	Job No.: 7220			19. No. 2386	20. Page 1 of 2
2. Unit(s): 2	3. Drawing/Part No.: M-619-SH 18	Rev: 4/F4	4. Item Description: FIELD WELD # 36		5. Item Location: CONT #2 685' NORTH/EAST
6. P.O. Or Spec No.: N/A	7. Serial No.: SEE BLOCK # 4	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. N-100-619-18.36 NO. M-204-FEND 6-27-78/0	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 ☐ FLD

16. Nonconforming Condition:

6.2.1-6 WS FM 4.4.7 STATES IN PART: " WHEN WELDING PIPE, EACH WELD LAYER SHALL BE ESSENTIALLY COMPLETED AROUND THE ENTIRE CIRCUMFERENCE OF THE WELD GROOVE BEFORE SUCCESSIVE WELD PASSES ARE MADE. M-204-5.1.3 K STATES: EACH WELD PASS SHALL BE COMPLETED AROUND THE ENTIRE CIRCUMFERANCE BEFORE SUCCEEDING PASSES OR LAYERS ARE PERMITTED. BACK WELDING IS NOT PERMITTED.

CONTRARY TO THE ABOVE: FW 36 ON 2HBC-103-619-18-2 / SEE CONT. SHEET FOR CONT OF BLOCK # 16

17. Reported By: [signature] Date: 7-26-79

18. Validated By: R.W. Barclay Date: 7-27-79

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

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

POOR ORIGINAL

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

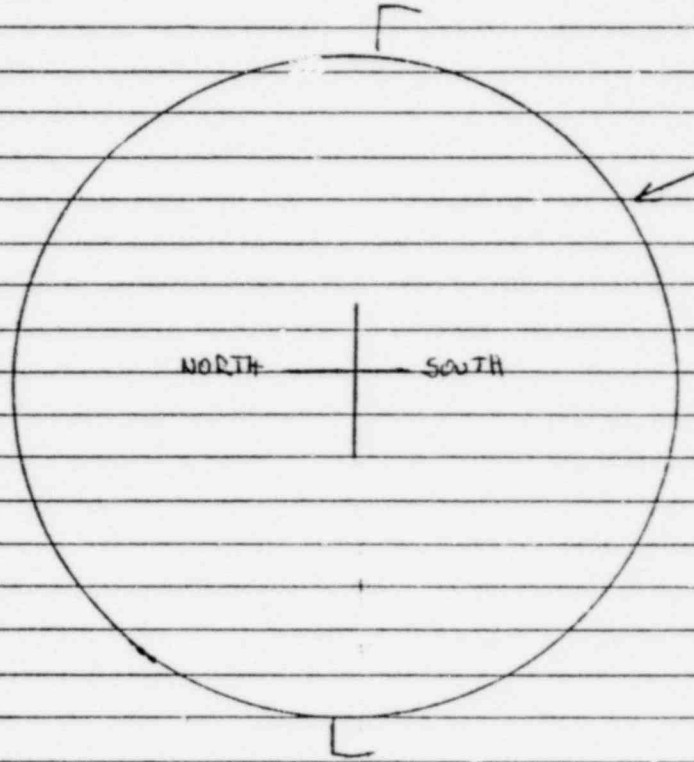
BECHTEL

NONCONFORMANCE REPORT (CONT'D) 1. PAGE 2 OF 2 14. NCR NO. 2386

CONTINUATION OF BLOCK # 16

HAS BEEN BLOCK WELDED, BY THE THIRD AND FOURTH (CAP) PASS OF E7018 BEING PERFORMED ON APPROX 180° OF THE RADIUS OF PIPE BEFORE THE THIRD PASS BEING PERFORMED ON THE REMAINING 180° RADIUS OF PIPE.

Q. LIST # 4.192 ONE HOLD TAG APPLIED TO F.W. 36



THIRD & FOURTH PASS PERFORMED THIS SIDE, BEFORE THIRD PASS PERFORMED ON NORTH SIDE RADIUS

10098-2

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

QC-G3-3

POOR ORIGINAL

S/u 2-BBB

NONCONFORMANCE REPORT

2387

1. Project Name: MIDLAND	Job No.: 7220			19. No. ~~2378~~	20. Page 1 of 2
2. Unit(s): 2	3. Drawing/Part No.: M-602 SH. 3	Rev: 6/E1	4. Item Description: PIPE SPOOL 2ECC-1-S-602-3-1		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-M-602-3-1 NO. SPEC-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 PARA. 6.5.1 READS IN PART: "FIELD FABRICATED AUSTENITIC STAINLESS STEEL PIPING SHALL BE CLEANED, AFTER COMPLETION OF SUB ASSEMBLY WORK, TO REMOVE ALL MILL SCALE, RUST, GREASE, OIL, DIRT, FLUX, WELD SPLATTER, OXIDATION (NOT HEAT TINT), AND OTHER CONTAMINANTS. ... FINAL SUB ASSEMBLY CLEANING SHALL INCLUDE A FLUSH AND RINSE WITH WATER MEETING THE WATER QUALITY (CONT. 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: Tom Arnold — Date: 7-27-79

18. Validated By: R.L. Barclay — Date: 7-27-79

25. Disposition Results

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

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

23. Project Engineering Disposition

26. QC Acceptance

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

837 312

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 2 19NCR NO 2387

(CONTINUED FROM BLOCK #16)

REQUIREMENTS SPECIFIED IN TABLE I OF SPECIFICATION 7220-M-342(Q). AFTER RINSING, SUBASSEMBLIES SHALL BE DRIED IN ACCORDANCE WITH THE REQUIREMENTS OF SPECIFICATION 7220-M-342(Q)." CONTRARY TO THIS THE ABOVE PIPE SPOOL HAS NOT BEEN CLEANED IN ACCORDANCE WITH THE ABOVE. C.P. CO. IS AWARE OF THIS PROBLEM.

Q-LIST No. 4.028 I HOLD TAG APPLIED

837 313

NONCONFORMANCE REPORT

5/11 2GAG

1. PROJECT NAME: MIDLAND UNITS 1 & 2	JOB NO.: 7220			19. NO. 2388	20. PAGE 1 OF 1
2. UNIT(S): COMMON	3. DRAWING/PART NO.: M619-9	REV: 6/FS	4. ITEM DESCRIPTION: 1" SOCKOLET (SW53) .444 WALL THICKNESS		5. ITEM LOCATION: EL. 645 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: CONST.	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. M619-9-53 NO. GTA WQ1-4	12. ASME AUTHORIZED INSPECTION REQ'D (X) YES ( ) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Rec'g (X) Const ( ) Test	15. Furnished By ( ) Client (X) Eng ( ) FLD	

16. NONCONFORMING CONDITION: WELDING STANDARD WQ-1 PARA. 3.2.1 STATES IN PART, "QUALIFICATION WITH BACKING DOES NOT QUALIFY FOR OPEN BUTT JOINTS". CONTRARY TO THIS, WELDER P757, CERTIFIED P1-T-b, WELDED A 1" SOCKOLET ON A 6" HBC LINE. ALSO THE 1" SOCKOLET HAS A WALL THICKNESS OF .444, WHEN WELDER P-757 IS CERTIFIED .062 THRU .436. QLIST 4.192

HOLD FOR ENGINEERING DISPOSITION - HOLD TAG APPLIED TO JOINT.

17. REPORTED BY: D Kimberly DATE: 7-27-79

18. VALIDATED BY: Bob Barclay DATE: 7-27-79

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

827 314

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 7220			19. 2389	20. PAGE 1 OF 3
2. UNIT(S): Common	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: Concrete Curing		5. ITEM LOCATION: "C" El. 610'±
6. P.O. OR SPEC NO.: C-231 AB	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-231 AB		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)FLG

16. NONCONFORMING CONDITION: QC. inspected some heat damaged concrete surrounding a steel embed in the north secondary shield wall. The concrete was chipped back to a depth of 3/4". The total area effected is app. 4 sq. ft. The concrete surface was reinspected to assure that no major defects had been uncovered. The area was treated as a "Cosmetic repair", and the field then made a 5 Star Grout repair. Appr. VA day

17. REPORTED BY: S. Jelnett DATE: 7/25/79

18. VALIDATED BY: K. W. Barclay DATE: 7-27-79

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

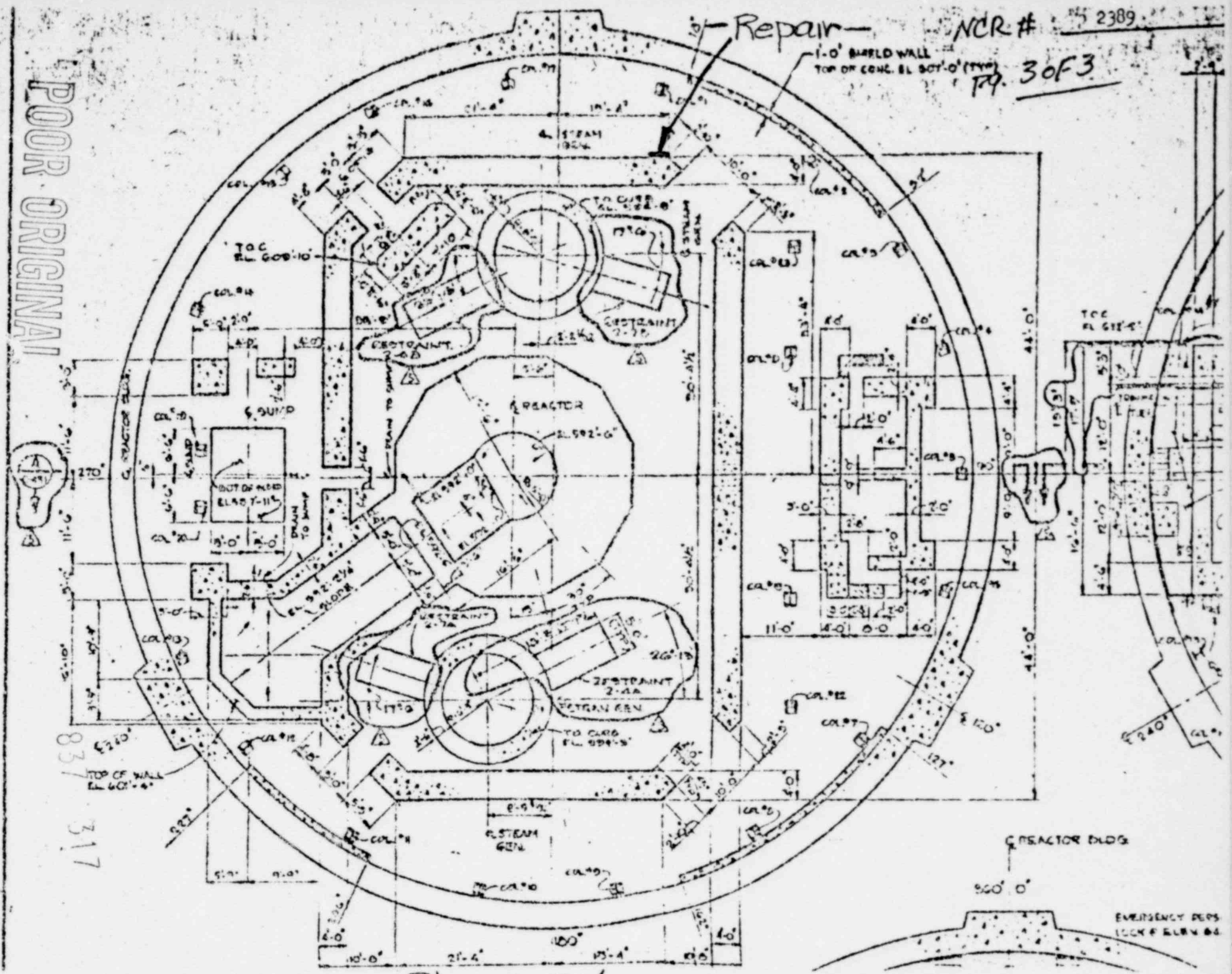
AUTHORIZED INSPECTOR — DATE

837 315

Block #16 Continued

later a C.P.Co. Q.A. Inspector notified Q.C. that the repair was not being cured in accordance with the requirements of Spec C-231. C.P.Co. Q.A. considers the integrety of the grout repair to be indeterminate. 1 Hold Tag applied. Q list # 1.105

837 316


Repair
NCR # NS 2389
1'-0" BARRIER WALL TOP OF CONC. EL 607'-0" (TYP.)
Pg. 3 of 3
POOR ORIGINAL
TOC EL 606'-10"
REACTOR
EL 592'-6"
RESTRAINT 2-7A
RESTRAINT 2-7B
RESTRAINT 2-7C
RESTRAINT 2-7D
SUMP
DRAIN TO SUMP
TOP OF WALL EL 607'-6"
TO CURB EL 599'-5"
EL 592'-6" SLOPE
EL STEAM GEN.
TOC EL 618'-4"
REACTOR BLDG.
960'-0"
EMERGENCY DOOR LOCK # ELEV. 64
Plan @ 593'
317
83

S/u CODE : OEAA

NONCONFORMANCE REPORT

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO. 2390	20. PAGE 1 OF 2
2. UNIT(S): COMMON	3. ~~DRAWING~~/PART NO.: OF-75 B	REV: N/A	4. ITEM DESCRIPTION: SERVICE WATER SELF-CLEANING STRAINER	5. ITEM LOCATION: Q.C. HOLD SERVICE WATER BLDG.	
6. P.O. ~~OR SPEC NO.~~: 7220-M180-AC REV. 1	7. SERIAL NO.: 4126	8. REPLACEMENT PART P/N N/A REV ____ SER NO. ____		9. SOURCE: SUPPLIER	10. ~~CONTRACTOR~~/SUPPLIER: S.P. KINNEY ENGINEERS, INC.
11. INSPECTION CRITERIA ( ) DWG (X) SPEC (X) OTHER IR NO. N/A NO M-180 REV 2		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:

P-X ENGINEERING (SUB-VENDOR FOR S.P. KINNEY) PERFORMED WELD REPAIR WORK, ON THE STRAINER LISTED ABOVE, AFTER THE AUTHORIZED INSPECTOR SIGNED OFF ON THE ORIGINAL N-2 FORM, THEREFORE, VOIDING THE N-2 FORM PRESENTLY CONTAINED IN THE C.V.D. PACKAGE. REF. TWX 5193, DATED 7-19-79 (ATTACHED)

"Q" NUMBER IS 4.182. HOLD PENDING FINAL DISPOSITION. ONE HOLD TAG APPLIED TO THE STRAINER.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Dean A Delaney	7/27/79	W B Barclay	7-30-79

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

22. ( ) Field Engineering Disposition ( ) ~~d~~ 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 ____

POOR ORIGINAL

837 8- 318 317

NCR # 2390

PAGE 2 OF 2

western union TELEX / TWX

BECHTEL ARB
TWX 5193 7/19/79 XE-10:55

ATTN: J.F . NEWGEN

BEBC- 3117
SUBJECT: CPCO/MIDLAND PLANT JOB 7220
SERVICE WATER STRAINERS
FILE: 0274, M-180

S.P. KINNEY ADVISED US VIA TWX ON 7/17/79 THAT STRAINER OF 75B
M
HAS AN INCORRECT N-2 FORM IN THE DOCUMENT PACKAGE. APPRAENTLY P-X ENGINEERING DID SOME WELD REPAIR WORK ON EITHER THE INLET OR OUTLET NOZZLE AFTER THE AUTHORIZED INSPECTOR SIGNED OFF ON THE ORIGINAL N-2 FORM. WE BELIEVE THIS WILL BE RESOLVED WITHIN A FEW WEEKS, WHEN A REVISED N-2 FORM WILL BE FORWARDED FOR INCLUSION INTO THE DOCUMENTATION PACKAGE.
IN THE INTERIM, PLACE A NCR TAG ON OF-75B. INSTALLATION MAY PROCEED AT YOUR DISCRETION AS THE MATERIAL, WHEN INSTALLED, IS COMPLETELY RETRIEVEABLE.

M ROTHWELL FOR
RL CASTLEBERRY
ANN ARBOR/7PE2118/7220-001/ER

837 719

POOR ORIGINAL

NCR 2390 Page 2 of 2

NONCONFORMANCE REPORT

S/U 1PHK, 2PHK, 1PHL, 2PHL, 0PHM, 0PHN, 0PH6, 0PHP

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO. 2391	20. PAGE 1 OF 2
2. UNIT(S): COMMON	3. DRAWING/PART NO.: SEE BLK 16	REV: N/A	4. ITEM DESCRIPTION: 460 VOLT MOTOR CONTROL CENTERS	5. ITEM LOCATION: EL. SERVICE WATER BLG	
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	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER IR NO. N/A NO F-10-206 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 (X) Eng ( ) FLD	

16. NONCONFORMING CONDITION: F-10-206 FORM MAINTAINANCE REQUIREMENTS FOR 460 V MOTOR CONTROL CENTERS REQUIRES WEEKLY INSPECTION OF INDICATOR LIGHTS TO ASSURE POWER AVAILABILITY TO HEATERS. CONTRARY TO THE ABOVE, THE HEATERS HAVE HAD NO POWER TO THE MOTOR CONTROL CENTERS LISTED BELOW.

CONT PG. 2

17. REPORTED BY: Marian Donovan DATE: 7/27/79

18. VALIDATED BY: T.D. 7.28.79 W.B. Barclay DATE: 7-30-79

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. 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

837 320

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 2 19NCR NO 2391

BLOCK 16 CONT

APPLICABLE MOTOR CONTROL CENTERS	DATE INSPECTION	F-20 NO.
1B-64, 2B-64, 0B-66, 0B-68	7/6/79	F-20-E5086
1B-64, 2B-64, 0B-66, 0B-68	7/13/79	F-20-E5119
1B-63, 2B-63, 1B-64, 2B-64, 0B-65, 0B-66, 0B-68, 0B69	7/20/79	F-20-E5150
1B-63, 2B-63, 1B-64, 2B-64, 0B-65, 0B-66, 0B-68, 0B-69	7/27/79	F-20-E5181

"Q" NUMBER N/A. 8 HOLD TAGS APPLIED TO THE NON CONFORMING ITEMS.

8 RQ1

book

R.E. 8-2-79

S/U-EMA

NONCONFORMANCE REPORT

1. Project Name: Midland Units 1&2	Job No. 7220			19. No. 2392	20. Page 1 of 3
2. Unit(s): Ser. Water Bldg.	3. Drawing/Part No.: FSK-DUI-M-618-1, FSK-M-618-1	Rev: 0, 9 FI	4. Item Description: Welding without an open gap & under size socket welds	5. Item Location: Ser. Water Bldg.	
6. P.O. Or Spec No.: N/A	7. Serial No.: N/A	8. Replacement Part P/N N/A REV N/A SER NO. N/A	9. Source: Const.	10. Contractor/Supplier: N/A	

11. Inspection Criteria ☐ DWG ☑ SPEC ☐ OTHER — IR NO. FSK-DUI-M-618-1, NO. 6-27, & ASME Sec. III, '71	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 ☑ CNG ☐ FLD

16. Nonconforming Condition: ASME Sec. III, 1971, Subsection ND, Article ND-4000, Fig. ND-3661.1-1, and Spec. 6-27, Rev. 10, sheet 12, Drawing #7, Rev. 3, under socket weld details X min. = 1.4 T, Times Thickness or Thickness of hub whichever is smaller but not less than 1/8 inch, for socket welding flanges and C x min. = 1.09 T, Times Thickness, Times 0.7, but not less than 1/8 inch. For socket welding fitting. Contrary to the above: Inspection on the following socket welds as listed in Block 'A' of this NCR were found to be under-sized. Cont'd on Page 2.

17. Reported By: Gerhard C. Braun — Date: 7-31-79

18. Initiated By: J.E. Russell/WLB — Date: 7/31/79

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

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

Field Engineering recommends Project Engineering disposition.

P.S. Brooks
8-2-79

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

1 2 / 3 36

POOR ORIGINAL

837 322

Cont'd of Block 16,

Per. PQC1 W.100, Rev. 7, The purpose of this QC1 is to provide sufficient inspection activities to assure that the required quality for welding, heat treating and non-destructive examination of the Q-listed and ASME Sec. III items have been achieved.

Contrary to the above: Socket welds listed in Block 'B' were welded complete without a QC1R-W.100B Form being prepared.

Per. PQC1 W.100, Rev. 7 and FPW-4.000, Rev. 0, Copies number one and two are placed in a protective plastic envelope, and prior to or during fabrication, they will be located at, or as near as practical to the joint to be fabricated.

Copy #4 of the QC1R W.100B Form must be in a plastic envelope on the run of pipe or adjacent to the weld before the first weld joint may be fit-up.

Contrary to the above: Socket welds listed in Block 'C' were welded complete without QCE or FWE required inspections.

Block 'A'

FSK-DU1-M-618-sh.#1 - OHBC-19. 3/4" sch.80 C/S Pipe.

SW#	Actual Throat	Req. Throat	Actual Leg	Req. Leg	Remarks
3	3/32"	1/8"	3/16" - 1/4"	3/16"	P-130
4	3/32"	1/8"	3/16" - 1/4"	3/16"	P-130
6	3/32"	1/8"	3/16" - 1/4"	3/16"	P-543, VALVE
10	3/32"	1/8"	3/16" - 1/4"	3/16"	P-130
13	3/32" - 1/8"	1/8"	3/16" - 1/4"	3/16"	P-130, CONN. WELD.
14	3/32" - 1/8"	1/8"	3/16" - 1/4"	3/16"	P-130, CONN. WELD.

POOR ORIGINAL

INT'D OF BLOCK "16",

BLOCK, B
FSK-DU1-M-618-sh.#1
3/4" sch. 80 c/s pipe

SW#	REMARKS
13	P-130, CONN. WELD, ALSO LISTED IN BLOCK, A
14	P-130, CONN. WELD, ALSO LISTED IN BLOCK, A
15	P-320, WRONG SW NO.#
16	P-130
17	P-130
18	P-130, VALVE
19	P-320, WRONG SW NO.#, VALVE
20	P-320 WRONG SW NO.# VALVE
21	P-130, VALVE
22	P-130
23	P-130
24	P-320, WRONG SW NO.#

BLOCK C
FSK-DU1-M-618-sh.#1, OMBC-19
3/4" sch. 80 c/s pipe.

SW#	REMARKS
1	P-130
2	P-130
3	P-130, ALSO LISTED IN BLOCK, A
4	P-130, ALSO LISTED IN BLOCK, A
5	P-130
6	P-543, VALVE, ALSO LISTED IN BLOCK, A
7	P-740, VALVE
8	P-130
9	P-130
10	P-130, ALSO LISTED IN BLOCK, A
11	P-130
12	P-320, WRONG SW NO.#

HOLD FOR ENGINEERING DISPOSITION — 30 HOLD TAGS APPLIED TO JOINTS.
Q-LISTED 4.185

POOR ORIGINAL

837 324

BECHTEL

NONCONFORMANCE REPORT

S/U Non Testable

1. PROJECT NAME: Midland	JOB NO. 7220				19. NO. 2393	20. PAGE 1 OF 2
2. UNIT(S): Common	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: Embedded Steel		5. ITEM LOCATION: C El. 603'	
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: Construction	10. CONTRACTOR/SUPPLIER		
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. N/A NO. C-304 Ⓒ	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: The web of an embedded E6X10.5 channel has been cut completely through, within eight inches of a splice in the channels. A Non-Q hanger is welded to the embed between the cut and the butt splice. Per Sec. 11.3.b.2 of C-304 Ⓒ the defect is classified as requiring a major repair, and Project Engineering direction is required! Q list # 1.102 1 Hold Tag applied.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
S. Jewett	7/27/79	X D.F. Barclay	7-31-79

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

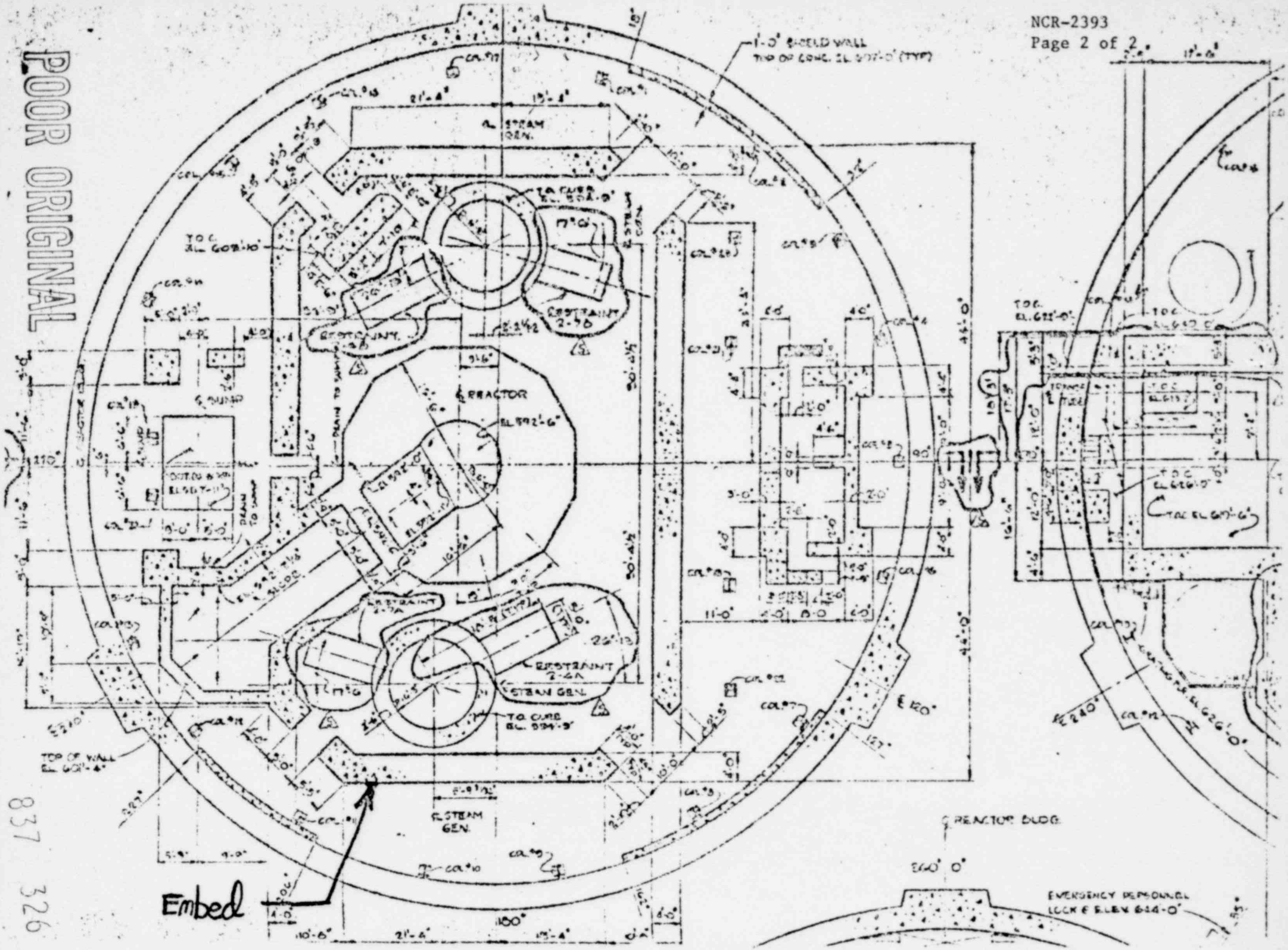
26. QC ACCEPTANCE

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

837 325

POOR ORIGINAL



837 326

NONCONFORMANCE REPORT

S/U Non Testable

1. PROJECT NAME: MIDLAND UNITS 1&2	JOB NO. 7220			19. NO. 2394	20. PAGE 1 OF 3
2. UNIT(S) COMMON (AUX. BLDG)	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION: BLOCKWALL MOIST CURING		5. ITEM LOCATION BW. #15 EL. 645 BET. B&C AND 5&6 LINES
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. C-1.81-209 NO. C-231-REV.18	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 ( )FLD N/A	

16. NONCONFORMING CONDITION: SPEC. # C-231 (18) PART 14.1 STATES; NEWLY PLACED CONCRETE SHALL BE KEPT WET . . . FOR THE FIRST SEVEN DAYS AFTER THE CONCRETE HAS BEEN PLACED. CONTRARY TO THE ABOVE, BW. #15 1ST LIFT HAS HAD 52 HRS. ELAPSED SINCE THE PLACEMENT OF THE COARSE CONCRETE GROUT WITHOUT THE MOIST CURING WITHIN A SELECT AREA OF THE BLOCKWALL. DR # 249 WAS IMPLEMENTED ON 7-26-79

17. REPORTED BY [signature] DATE 7-27-79

18. VALIDATED BY [signature] DATE 7-31-79

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

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

"USE AS IS." Coarse grout which was placed at the cavity of blockwall #15@ 645' ele. in th aux. bldg. had indeterminate moist curing for ~~XXXX~~ the first 52hr. after placement. Curing for this placement was extended an additional 3 days to insure 7 days of acceptable moist curing. ~~X~~ Compressive strength results for this placement represented by cylinder ~~XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX~~ set SP 827 will be forwarded upon request as soon as they become available. [signature] 8/2/79

23. Project Engineering Disposition. From conversation with Steve Gelnett, Bechtel Q.C., it was found that the actual conditions were as follows:
-The first lift for B.W. #15 was poured on the night shift.
-The Q.C. inspection during day shift reported unacceptable moist curing for approximate-ly 5' of the wall. (continued pate 2)

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

PROJECT FIELD ENGINEER [signature] DATE 8-1-79

PROJECT ENGINEER [signature] DATE 8-13-79

PROJ CONSTR QC ENGINEER [signature] DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE [signature] 8/13/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

837 327

A.M. AND UPON DISTRIBUTION, AREAS OF BW. #15 WERE MOIST CURED BUT A PORTION OF THIS BLOCKWALL WAS NEGLECTED FROM THE MOIST CURING. @ LIST # 1.205. ✓ HOLD TAGS APPLIED. HOLD FOR ENGINEERING DISPOSITION.

23. PROJECT ENGINEERING DISPOSITION:

-The condition was not corrected until nightshift when it was reported as acceptable by Q.C.

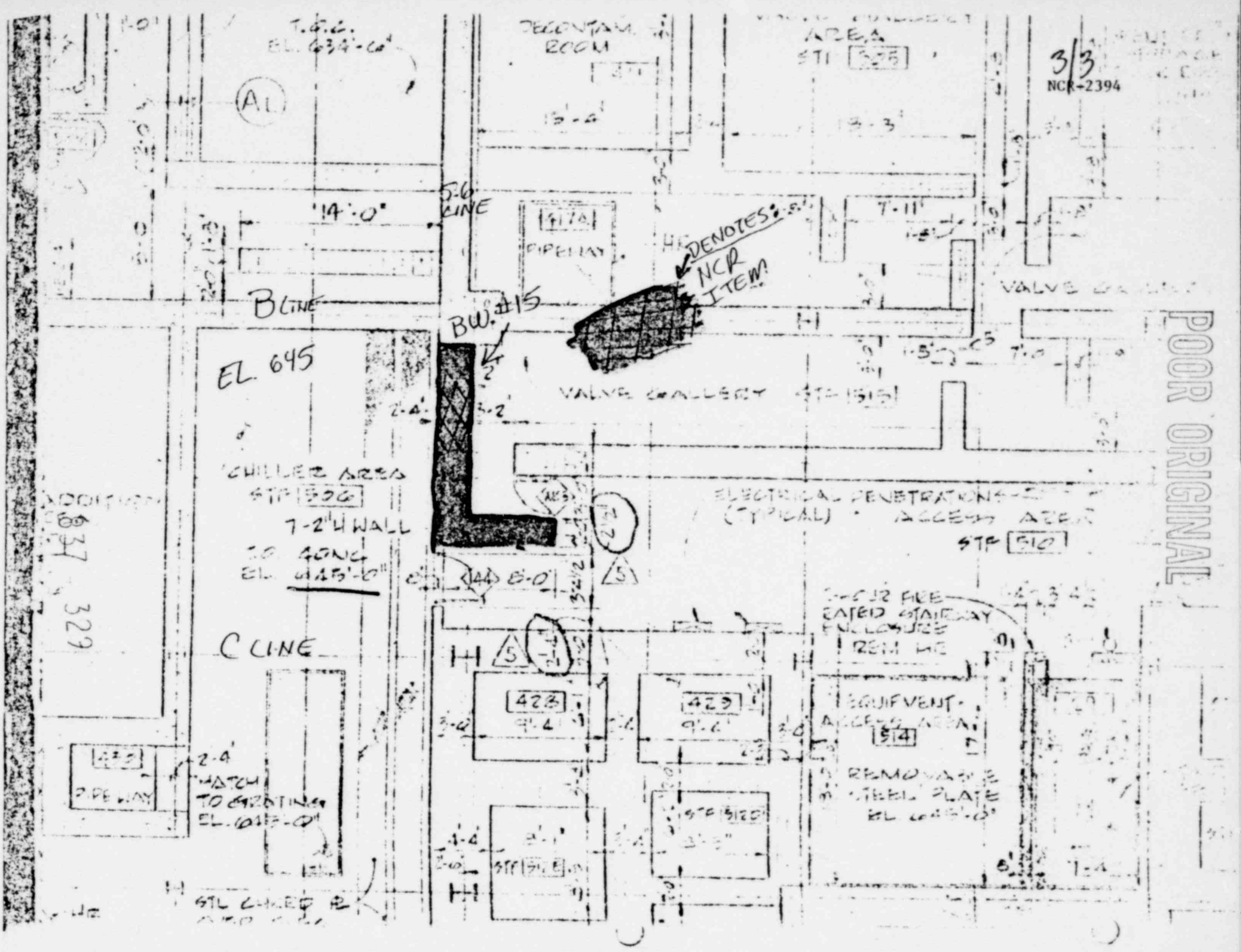
-This day/night pattern was repeated for the first 52 hours after placement.

-The pour then received seven consecutive days of acceptable curing.

If the pour had received no curing at all, the lack of moisture would have affected only a 1" to 2" thickness of the top surface because the pour was enclosed on five sides. The lack of moisture during early stages of curing results in lower early strength and lower ultimate strength. Because the top surface was not moist cured for only 8 hours each of two days (and the curing time was extended), the effect upon long term strength will be small. Since the wall height is approximately 1/2 of the maximum allowed (based on wall thickness and reinforcing steel), the small reduction in conc. strength will not be detrimental. Therefore, Project Engineering concludes to "use as is."

REM No. C-2325
John W. Darby
8/9/79 RS

837 328


3/3
NCR-2394
DENOTES NCR ITEM
BW. #15
B LINE
C LINE
EL 645
14'-0"
5'-6" LINE
VALVE GALLERY
CHILLER AREA
STR 506
7-2"H WALL TO 4ONC EL 645'-6"
ELECTRICAL PENETRATIONS (TYPICAL)
ACCESS AREA
STR 510
EQUIPMENT ACCESS AREA
514
REMOVABLE STEEL PLATE
EL 645'-0"
423
424
425
426
428
429
PIPEWAY
2-4" MATCH TO EXISTING EL 601'-0"
POOR ORIGINAL

MIDLAND PROJECT

RESIDENT ENGINEER MEMORANDUM

RE- C - 2325

DATE 8/9/79

UNCONTROLLED
NOT TO BE USED
FOR CONSTRUCTION

Aux. Bldg.

SUBJECT: BLOCK WALL No. 15 MOIST CURING

REF: NCR No. 2394

AAO COORDINATION: Date 8-9-79 /Time — /AAO Contact JON HOOK

SEE NCR No. 2394 FOR PROJECT ENGINEERING'S DISPOSITION.

ATTACHMENT: NCR No. 2394

RESIDENT ENGINEER John W. Darby RS

AAO Review: Group Supervisor _____

Date: _____

No SU

NONCONFORMANCE REPORT

S/U Non-testable Unit

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
Midland	07220	2395	1 OF 2

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
2	E-750 sh. 1	7	Anchor Installation	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	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG (X) SPEC ( ) OTHER IR NO. see block #16 NO. C-305 rev 8	( ) YES (X) NO	(X) YES ( ) NO	( )Rec'g (XX)Const ( )Test	( )Client ( )Eng (XX)FLD

16. NONCONFORMING CONDITION:

A) Specification C-305, Rev. 8, SCN# 9005 states." An abandoned anchor hole need not be repaired prior to loading of an expansion anchor if that expansion anchor is at least as far as the minimum edge distance defined in Tables 3.2 and 4.1."

Contrary to the above, a 5/8" Hilti drop-in anchor was installed 2 1/4" from an abandoned hole and the hole was not repaired prior to loading the anchor. The

(See Page 2)

17. REPORTED BY Eileen Ames DATE 7/30/79

18. VALIDATED BY D.B. Barclay DATE 7-31-79

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

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

Abandon existing 5/8" Hilti Drop in anchors. Repair abandoned hole per spec. requirements. Install two new 5/8" Hilti Drop in anchors not less than two diameters from repaired hole.

John Armando 8-7-79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
X			

C. Miller NRC 8-8-79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

R.E. Lussell/WLB 8/10/79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

827 331

Block # 16 continued

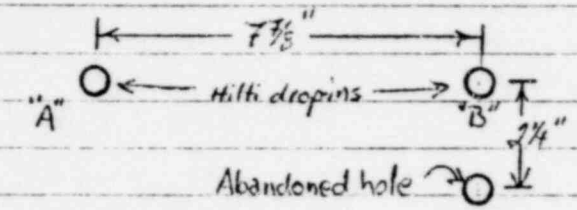
minimum edge distance for a 5/8" Hilti drop-in anchor is 4 1/4 ".

B) Specification C-305, Rev. 8, Table 3.2 gives the minimum embedment for a 5/8" Hilti drop-in as 2 5/8". This requires the drop-in portion of the anchor to be flush with or deeper than the concrete surface.

Contrary to the above, anchor "A" does not have minimum embedment (see sketch). Due to irregularities in the concrete, the right side of anchor "B" is flush, while the left side does not have the minimum embedment (~~see sketch~~).

Location: Unit 2 Containment, Elev. 618', AZ 333°, outside Secondary Shield Wall

I.R.#: C1.50- EH118 and E2.1- 133 (750-52)



HOLD FOR ENGINEERING DISPOSITION

One (1) Hold Tag Applied

Q List # 1.102

837 332

alat

NONCONFORMANCE REPORT S/A Non-Testable Unit

1. PROJECT NAME	JOB NO.			19. NO.	20. PAGE
Midland	7220			1313	1 OF 1

2. UNIT(S)	3. DRAWING/[redacted]	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
Units 1 & 2	7220-C50B-207-1	N/A	Air Tanks for Personnel Airlocks	QC Hold Area Whse #1

6. P.O. [redacted]	7. SERIAL NO.	8. REPLACEMENT PART P/N	REV	SER NO.	9. SOURCE	10. [redacted]/SUPPLIER
7220-C50B Rev 10	30437 & 30438	N/A	Rev 2		Supplier	Progressive Fabricators, 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	R-1.00-2621 NO. PO C50B Rev 10	( ) YES (X) NO	( ) YES (X) NO	(X) Rec'g ( ) Const ( ) Test	( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION:

Purchase Order 7220-C50B Rev. 10 requires that the material shall not be shipped without the Bechtel Inspector's release. Contrary to the above the air tank assemblies for the Personnel Airlocks (S/N 30437/N100 & 30438/N130) were received at the jobsite with no shop inspector's release or Quality Verification Documentation. "Q" number is 1.1013. Hold pending final disposition. 2 hold tag(s) applied to the nonconforming item(s).

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
John R Slifka Jr	4-13-78	P J Barclay	4-18-78

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

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

Reject. ~~Mar~~ Material to be returned to vendor for proper inspection.

L. E. Morris 4/21/78 J Beck 4/21/78

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
	X		

C R Boor 4/21/78
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

P J Barclay 4-24-78
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

MATERIAL Returned to vendor Shipping notice 7220-5890 on 11-10-78

S. R. Thomas 7-12-79

26. QC ACCEPTANCE S. R. Thomas 7-12-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

837 333

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 1409	20. PAGE 1 OF 7
2. UNIT(S): Common	3. DRAWING/PART NO.: C-96	REV: 5	4. ITEM DESCRIPTION: Mislocated Anchor Bolts		5. ITEM LOCATION: Service Water Disch. Structure
6. P.O. OR SPEC NO.: C-24	7. SERIAL NO.: See Block 16	8. REPLACEMENT PART P/N N/A REV SER NO.	9. SOURCE: Construction	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA (X) DWG ( ) SPEC ( ) OTHER IR NO. N/A NO. C-96	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 B and Detail AB-10, Drawing C-96 indicates the required Anchor Bolt locations for the frame extensions of the sluice gates. Contrary to the location requirements indicated, at least one(1) anchor bolt is mislocated (See sketch attached for the exact location) on each of the following gates: OM-91A, ~~AM-91B~~, OM-96A, OM-96B, OM-96C, and OM-96D. "Q" List No. 1.506. 6 Hold Tags applied to the Anchor Bolts. Hold for ~~Project~~ Engineering Disposition.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
S Johnson	7-17-78	[illegible] Barclay	7/17/78

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

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

Disposition Required By 7/27/78

Elongate the holes in the frame extensions as required. This will be to a maximum of one inch. [redacted] Repair the coating as per Rem#C-1347 as required.

S Johnson 7/20/78
[illegible] 7/20/78

23. PROJECT ENGINEERING DISPOSITION

This is a partial response.

Project Engineering has reviewed the above noted nonconforming condition and concludes the following:

1) Rework the following gates by slotting the frame extensions as required to match the anchor bolts and provide stainless steel washers on the holes slotted.
   A) The East and West extensions of gates OM-91A; OM-91B; OM-96B; OM-96D.
   B) The West extension of gates OM-96A; and OM-96C.
2) The remaining East extensions for gates OM-96A, and OM-96C will be dispositioned based on vendor's evaluation of the noted nonconforming condition.

[illegible] 7/14/78 C. DIRNBAUER 9/1/78 Rao 9/14/78 [illegible] 9-14-78

24. DISPOSITION CONCURRENCE

rework	repair	use as is
	X	

AS NOTED IN BLOCK 23

[illegible] 9-22-78
PROJECT FIELD ENGINEER DATE

for M W Kellogg 9-18-78
PROJECT ENGINEER DATE

for L B Barclay 9-25-78
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Rework, Repair and Installation of gate extensions inspected and accepted on PQCIR C-1.90-1&2.
S Johnson 7/6/79

26. QC ACCEPTANCE
S. Johnson 7/6/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

837 334

BECHTEL

NONCONFORMANCE REPORT (CONT'D) 14 KEB 7-2-79 PAGE 2 OF 12 14. NCR NO. 1409

Block 16 Con't.

A conditional release has been granted to allow grouting of the East and West Extensions for gates OM-91B, OM-96B and OM-96D. Corrections or removal can be accomplished without causing damage or contamination to associated plant equipment or structure.

PFE DATE 3/12/79 PFQCE T.E. Barclay DATE 3-12-79

PQAE DATE

10098-2

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

QC G33

831

335

BECHTEL

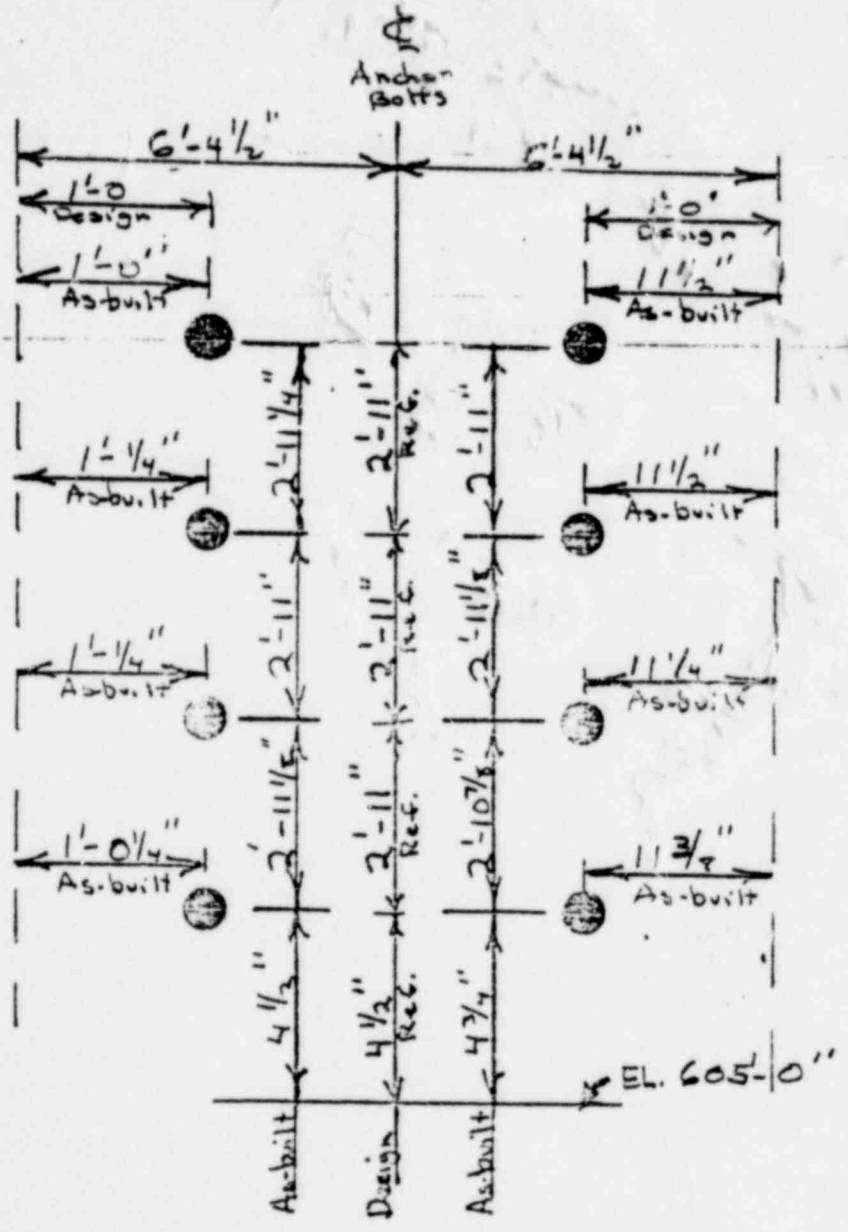
CALCULATION SHEET

DATE

DESIGN BY S. Johnson DATE CHECKED BY SHEET NO.

PROJECT Midland JOB NO.

SUBJECT NCR # 1479 2 of 7 CALCULATION NO. FILE NO.



Sluice gate OM-96A
View Looking North

POOR ORIGINAL

CALCULATION SHEET

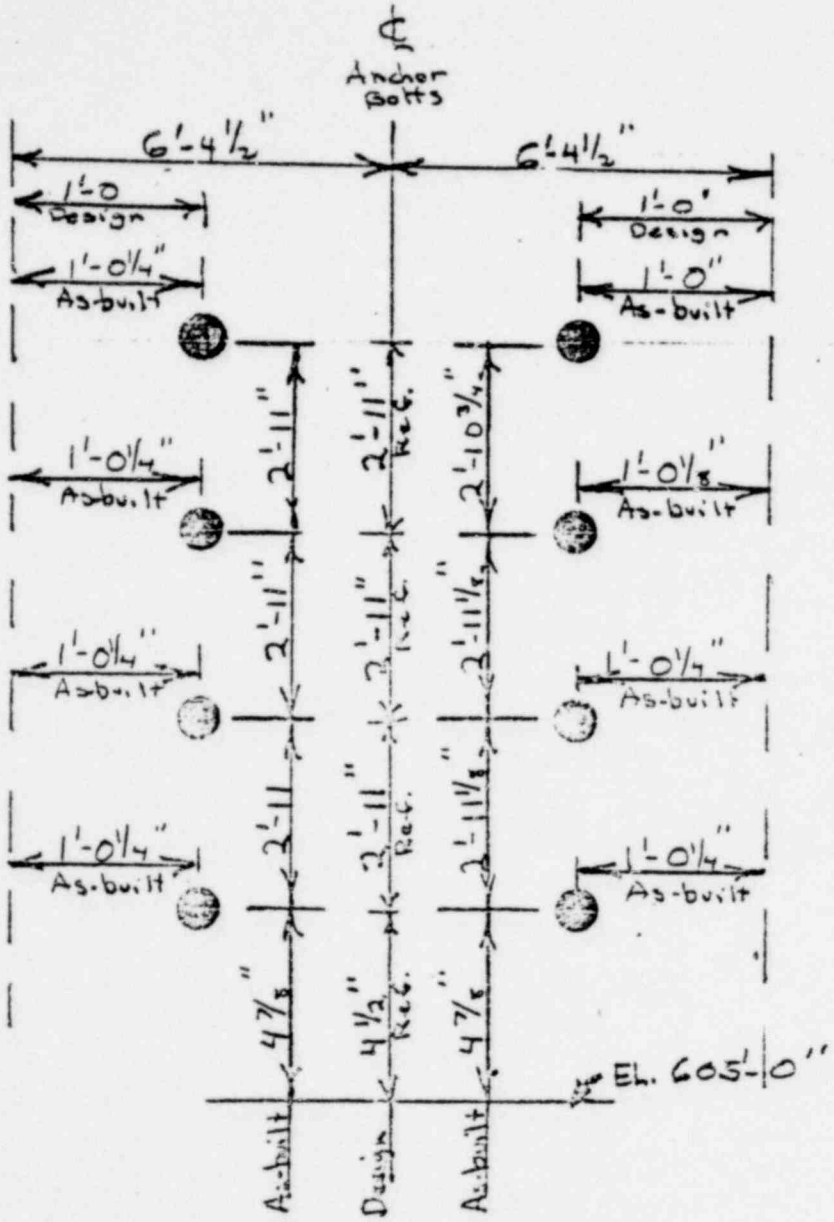
18 0510 (11-74)

DATE

DESIGN BY S. Johnson DATE CHECKED BY SHEET NO.

PROJECT Midland JOB NO.

SUBJECT NCR # 1409 3 of 7 CALCULATION NO. FILE NO.



Sluice gate OM-96B

View looking North

POOR ORIGINAL

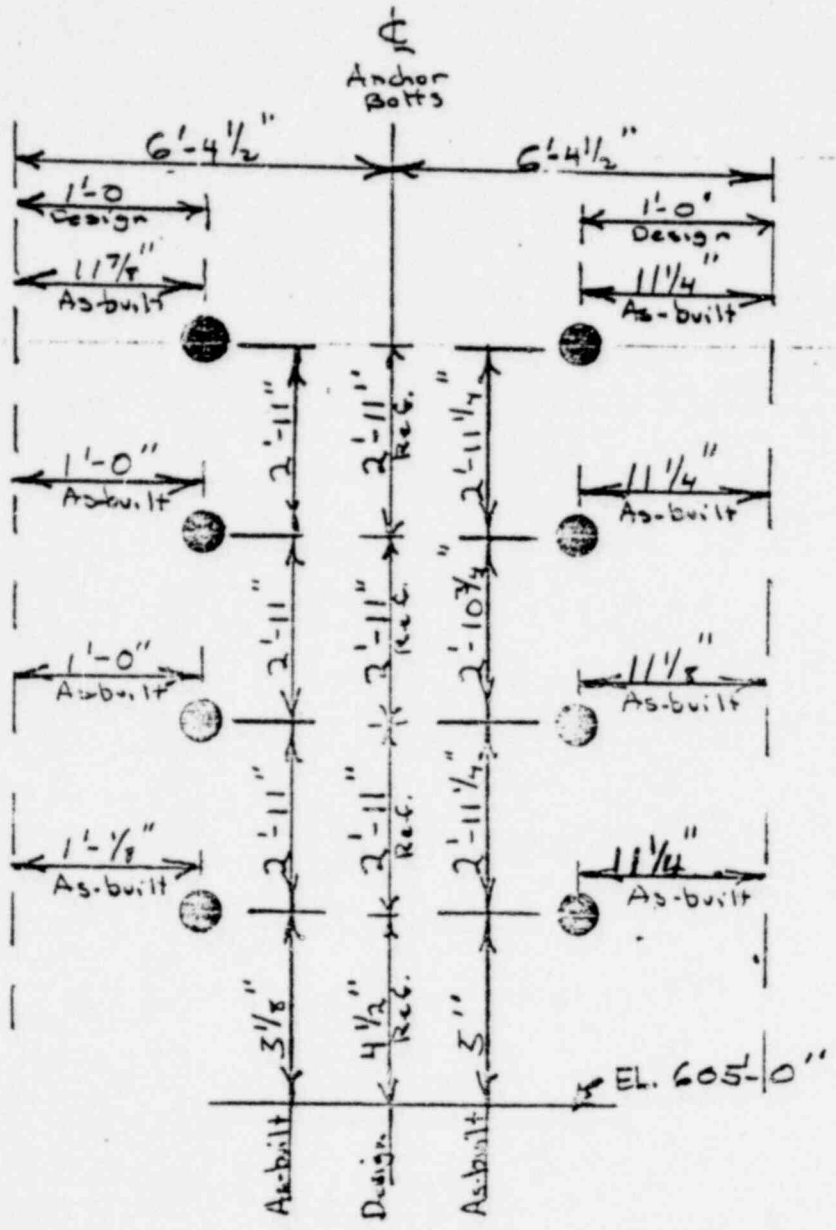
837 337

CALCULATION SHEET

DESIGN BY S. Johnson DATE ____ CHECKED BY ____ DATE ____ SHEET NO. ____

PROJECT Midland JOB NO. ____

SUBJECT NCR # 1409 4 of 7 CALCULATION NO. ____ FILE NO. ____



Sluice gate - OM96C
View Looking North

POOR ORIGINAL

BECHTEL

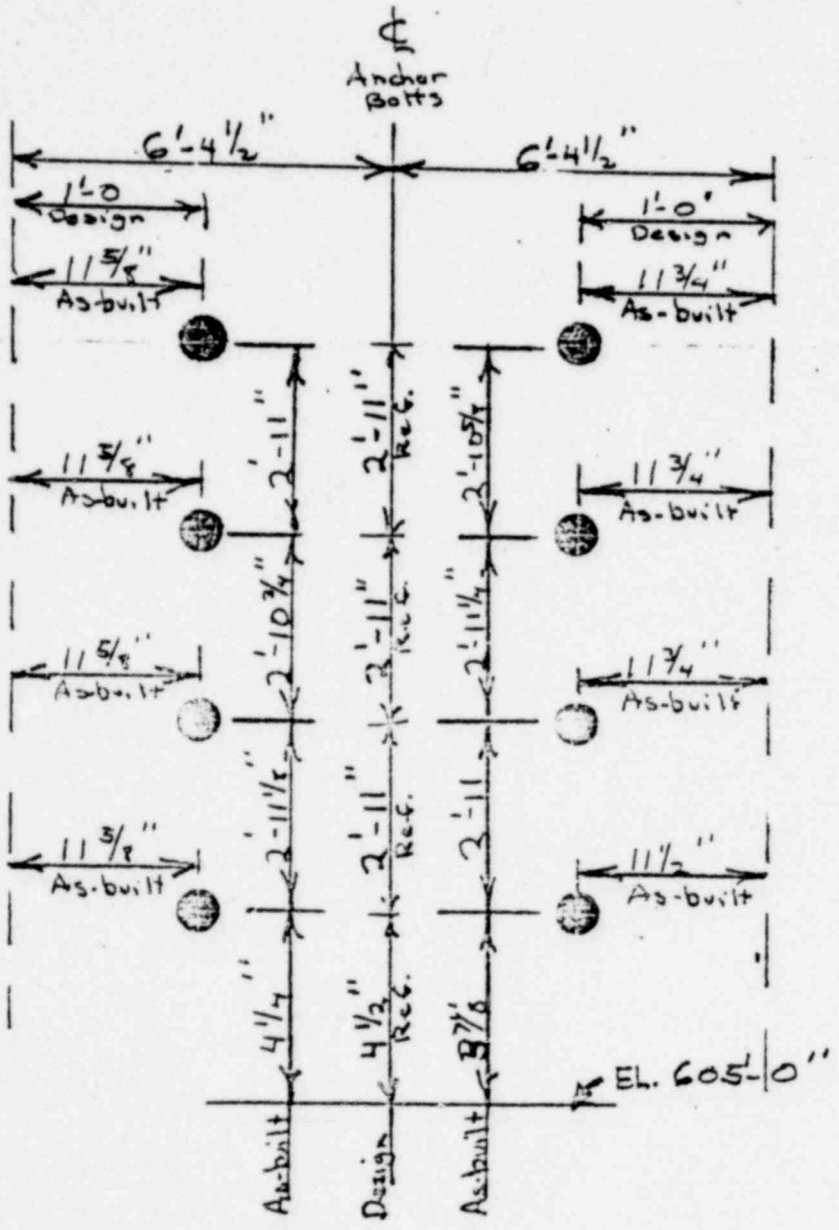
CALCULATION SHEET

DATE

DESIGN BY S. Johnson DATE CHECKED BY SHEET NO.

PROJECT Midland JOB NO.

SUBJECT NCR # 1409 5 of 7 CALCULATION NO. FILE NO.



Sluice gate OM-96 D

View looking North

POOR ORIGINAL

SARGENT & LUNDY

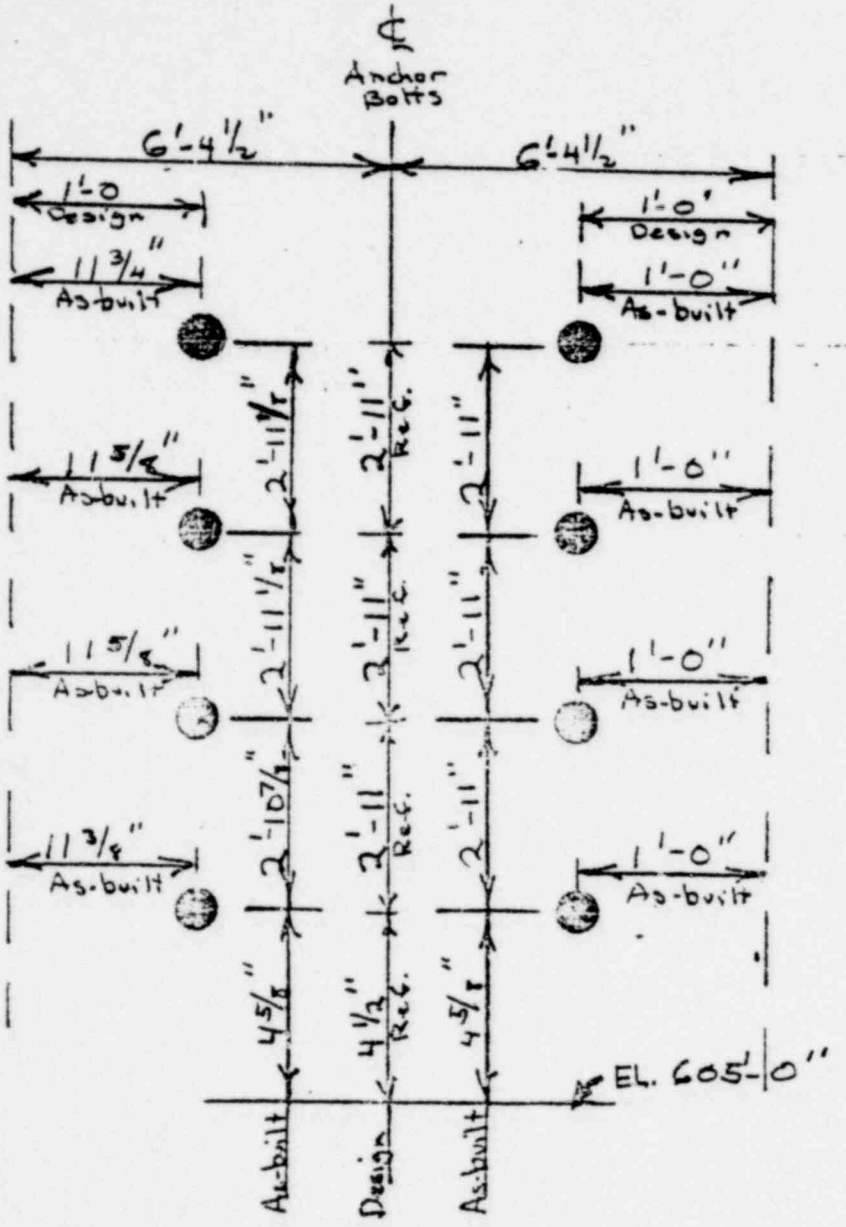
CALCULATION SHEET

DATE

DESIGN BY S. Johnson DATE CHECKED BY SHEET NO.

PROJECT Midland JOB NO.

SUBJECT NCR # 1409 6 of 7 CALCULATION NO. FILE NO.



Sluice Gate OM-91A
Looking South

POOR ORIGINAL

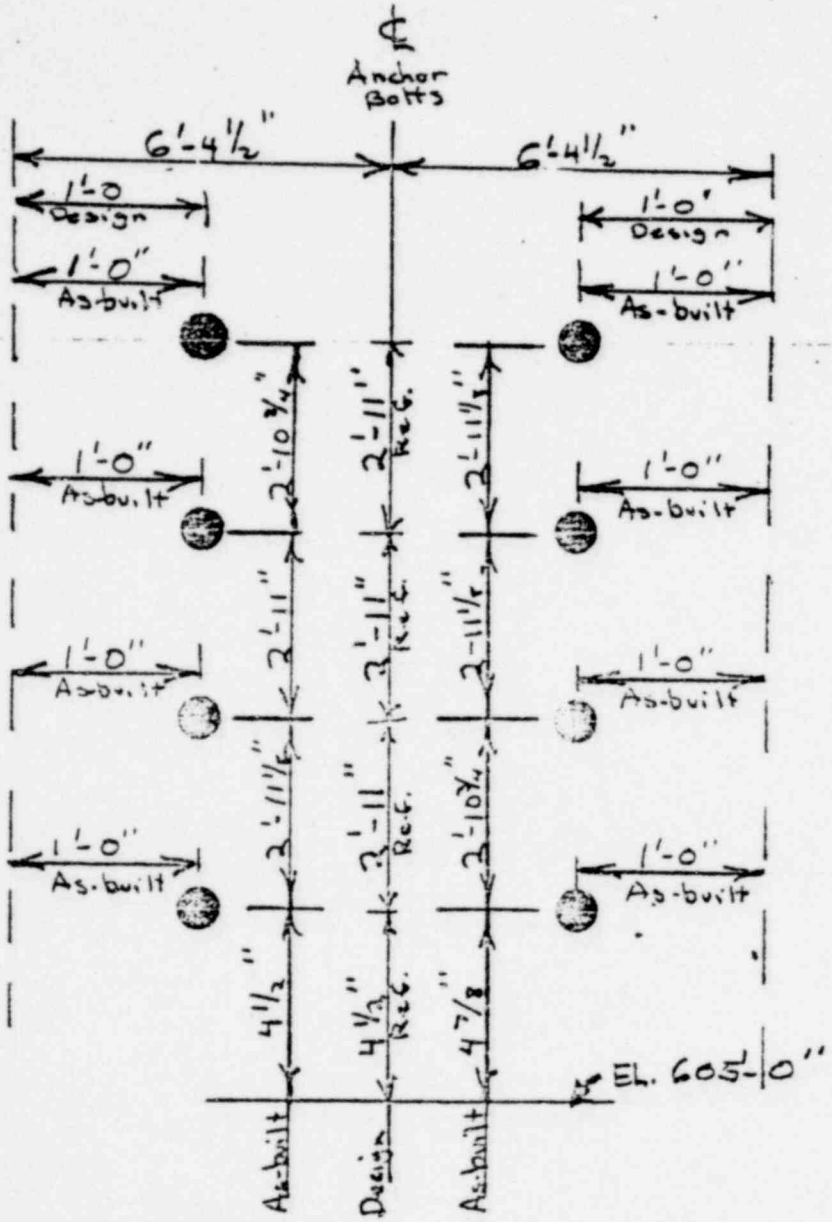
CALCULATION SHEET

DATE

DESIGN BY S. Johnson DATE CHECKED BY SHEET NO.

PROJECT Midland JOB NO.

SUBJECT NCR # 1409 7 of 7 CALCULATION NO. FILE NO.



Sluice Gate OM-91B
Looking South

POOR ORIGINAL

837 341

MIDLAND PROJECT

RESIDENT ENGINEER MEMORANDUM

RE- C-1820

DATE 10-27-78

SUBJECT: SERVICE WATER BLDG
SLUICE GATE IDENTIFICATION

REF: NCR 1268

AAO COORDINATION:

Date	/Time	/AAO Contact
10-27-78	10:00	A. SIDHU
10-27-78	1:15	J. OLSEN

PROJECT ENGINEERING HAS EVALUATED THE ATTACHED FIELD ENGINEER'S REPORT AND HAS FOUND ITS CONTENTS TO BE ACCEPTABLE SUBJECT TO THE FOLLOWING COMMENTS:

AN FCR REQUESTING A NEW TAGGING PROCEEDURE IS NOT REQUIRED. IT WAS THE INTENT OF THE DISPOSITION FOR NCR 1268 THAT THE DOCUMENTATION PACKAGES AND THE EQUIPMENT TAGS WOULD BE REVISED TO REFLECT THE AS-BUILT CONDITIONS.

ROUTE QC 07220 INIT.
PFQCE
A. PFQCE
CIVIL
ELECT.
PIPING
MECH.
WELDING
DOC.
RECEIVING
ADM ASST
Matls. Test Lab Super.
OPEN LOOP
☐ YES ☐ NO
DATE.....

ATTACHMENT:
3 PAGE FIELD ENGINEER'S REPORT BY J. MORRIS
DATED 10-25-78.

RESIDENT ENGINEER M D Reeves RS
10-27-78

RECEIVED
OCT 30 1978
QUALITY CONTROL
BECHTEL JOB 7220

AAO Review: Group Supervisor _____
Date: _____

837 342

FIELD ENGINEER'S REPORT FORM

MIDLAND UNITS 1 & 2

JOB 7220 DATE 10-25-78 PAGE 2 1 OF 3

ITEM NO.	INSPECTION DESCRIPTION	ACTION REQUIRED/TAKEN
	SERVICE WATER SLUICE GATES REFERENCE NCR M-01-4-8-080	
	NCR 1268 WAS INITIATED AND DISPOSITIONED BEFORE ALL SLUICE GATES WERE INSTALLED. (SEE ATTACHED SKETCH FOR TOTAL ASBUILT LOCATIONS.) DOCUMENTATION FOR SLUICE GATES NO 5 (OM-96A), NO 4 (OM-96B) AND NO 2 (OM-96C) WERE CORRECTED MARCH 29, 1978. DOCUMENTATION FOR SLUICE GATES NO. 3 (OM-91A) AND NO 6 (OM-91B) WILL BE UP-DATED TO REFLECT AS BUILT CONDITIONS. GATE NO 1 (OM-96D) WAS INSTALLED IN ITS CORRECT LOCATION. AS THE SLUICE GATE UNITS (SLIDE, SLIDE FRAME AND SLIDE EXTENSIONS) ARE INTERCHANGEABLE, THE ACTUAL LOCATION OF EACH UNIT IS RELATIVE ONLY TO INSTALLATION; AS THE SLIDE, SLIDE FRAMES AND SLIDE EXTENSIONS ARE MATCH MARKED. THE REWORK ON GATE NO 3 (OM-91A) HAD STARTED AND WAS STOPPED. NCR 1409 HAS BEEN DISPOSITIONED WITH THE REQUIREMENT THAT AN -CONT-	ACCEPTABLE AS NOTED PER REM C-1920 MDR 10-27-78

REMARKS:

POOR ORIGINAL

Jerry Wouri
SIGNATURE

ROUTE

RICH SCHULMAN
JOHN DERN
JIM BETTS
AL BOOS

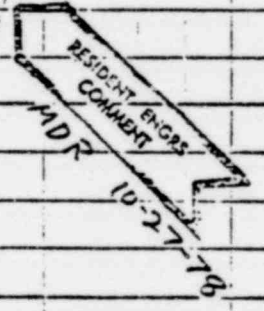
FILE

FIELD ENGINEER'S REPORT FORM

MIDLAND UNITS 1 & 2

JOB 7220 DATE 10-25-78 PAGE 2 OF 3

ITEM NO.	INSPECTION DESCRIPTION	ACTION REQUIRED/TAKEN
	- CONT -	
	ARMCO REPRESENTIVE BE PRESENT DURING REWORK. WORK HAD RESUMED ON GATE No. 3 (OM-91A) FOR OPENING OM-96A BECAUSE THE CRAFTS THOUGHT THEY WERE WORKING ON OPENING OM-91A AS THIS IS THE PRESENT LOCATION OF GATE No. 3, TAGGED OM-91A. A NEW TAGGING PROCEDURE FOR THE SLUICE GATES HAS BEEN DISCUSSED WITH JIM OLSON OF PROJECT ENGINEERING. AN FCR WILL BE INITIATED SHOWING THE SLUICE GATES BEING TAGGED GATES 5, 4, 2, 1, 3, 6 RESPECTIVE TO THE POSITIONS OF THE OPERATORS AND OPENINGS, OM-96A, OM-96B, OM-96C, OM-96D, OM-91A AND OM-91B.	SEE REM C-1820
	THE GATE OPERATORS ARE INSTALLED IN THE CORRECT LOCATION OVER THEIR RESPECTIVE SLUICE GATE OPENINGS.	



REMARKS:

POOR ORIGINAL

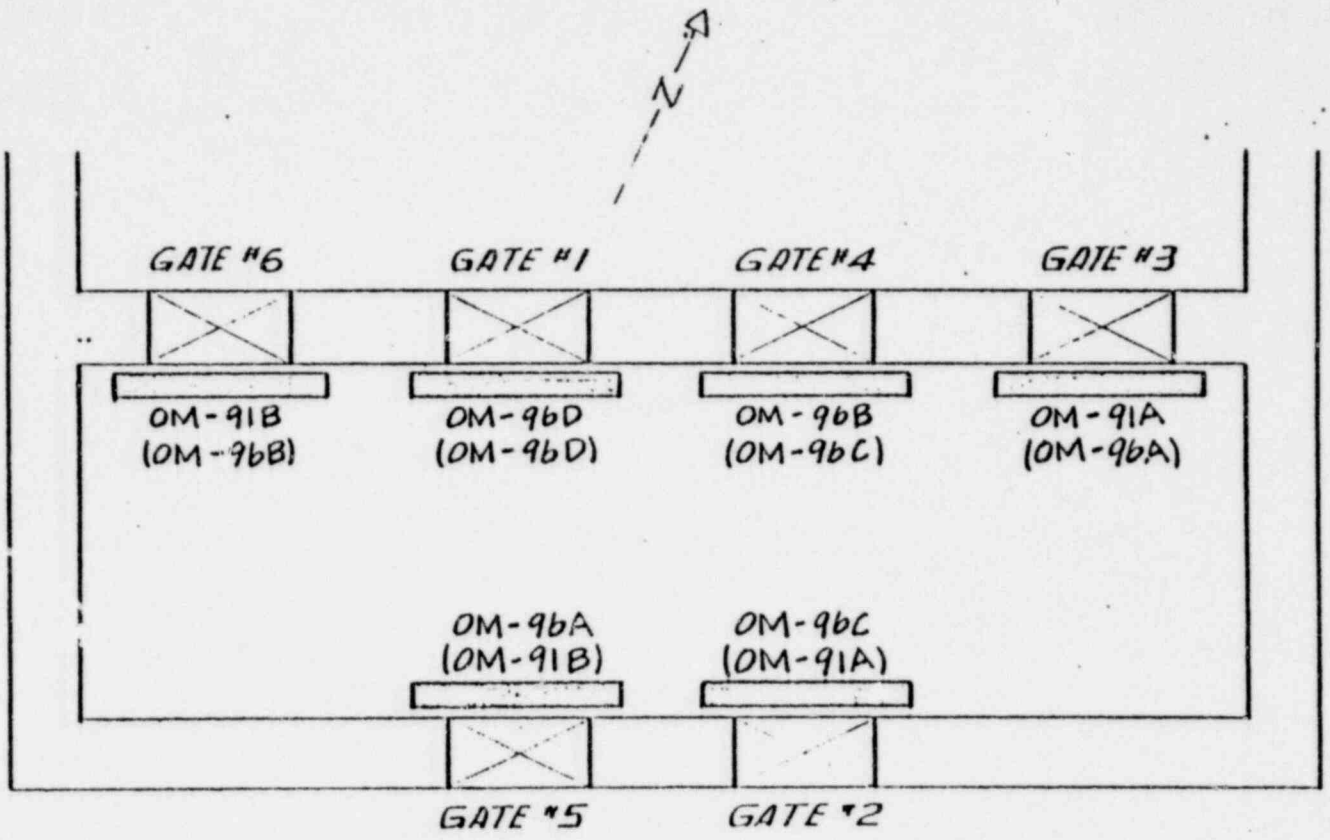
SIGNATURE

ROUTE
R. SCHULMAN
J. DEAN
J. BETTS
A. BOOS

FILE

FIELD ENGINEERS REPORT

DATE: 10-25-78
SHEET 3 OF 3



PLAN AT EL. 592' 0"

INSTALLED LOCATIONS OF SLUICE GATES — MARKS IN PARENTHESIS SHOW CORRECT LOCATION

GATE NUMBERS ARE ACTUAL LOCATIONS

837 345

BECHTEL

NONCONFORMANCE REPORT (CONT'D)

13 14 ICEB 7-2-79

1. PAGE 8 OF 9 14. NCR NO. 1409

22

Block ~~13~~ continued

Per Block 23; Projeet Engineering dispositon

All the slide extensions for sluice gates OM 91 A & B, OM 96 A, B, C, D

were reworked by slotting the holes for a correct fit-up. This work was done under the supervision of an ARMCO representative. Two extensions, the right extension for OM 96 A and the right extension OM 91 A holes were slotted too close to the edge. These extensions were returned to ARMCO for additional rework. The repair work consisted of welding plates to the extensions where the slotting had caused insufficient edge distance. ALL REPAIR AND REWORK HAS BEEN SATISFACTORILY COMPLETED. Jay Mann 7-2-79

J H Bette 6/21/79

BLOCK 23 CONTINUED.

This is the Completion of Project Engineering's Response:

A REPRESENTATIVE OF ARMCO HAS REVIEWED ALL THE NONCONFORMING CONDITIONS OF THE SLUICE GATE EXTENSIONS. THE EXTENTIONS THAT NEEDED REWORK AND REPAIR WERE SENT BACK TO ARMCO. BASED ON THE SATISFACTORY COMPLETION OF THE REPAIR, REWORK AND SLOTTING OF HOLES, PROJECT ENGINEERING RECOMMENDS THAT THE EXTENTIONS MAY NOW BE INSTALLED FOR USE.

REM NO. C-2274

John W. Darby 7/3/79
PE

837 346

10598-2

QC-G1-3

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

NONCONFORMANCE REPORT (CONT'D)

14 14 KEB 7-2-79

20. PAGE 9 OF 9 19. NCR NO. 1409

24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS
			X

J. H. Gelmstedt — PROJECT FIELD ENGINEER — DATE 7/5/79

R. Schulman /Rc — PROJECT ENGINEER — DATE 7/5/79

PROJECT CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

---

24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJECT CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

---

24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJECT CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

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24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJECT CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

---

24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJECT CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

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24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJECT CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

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24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJECT CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

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24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJECT CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

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24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJECT CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

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24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJECT CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

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24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJECT CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

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24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJECT CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

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24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJECT CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

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24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJECT CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

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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

Alab

NONCONFORMANCE REPORT

S/4 2-EAC

1. PROJECT NAME	JOB NO.			19. NO. 1548	20. PAGE 1 OF 2
MIDLAND UNITS 1&2	7220				
2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION	
2	M-619 sh 3 (Q)	S/F4	FIELD WELDS 10, 11, 15, 17, 18, 19	SERVICE WATER SYSTEM UNIT - 2	
6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER	
M-204	N/A	P/N. N/A REV N/A SER NO. N/A	CONSTR.	N/A	
11. INSPECTION CRITERIA	IR NO. M-619 sh 3	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
[X] DWG [X] SPEC [ ] OTHER	NO M-204 REV. 9	[X] YES [ ] NO	[ ] YES [X] NO	[ ] Rec'g [X] Const [ ] Test	[ ] Client [X] Eng [ ] FLD

16. NONCONFORMING CONDITION:

NOTE 17 IN FORM 84 - MECHANICAL WHICH IS FOUND IN SPECIFICATION 7220-G-27(Q) SPECIFIES RT-XG-2 FOR PIPE GREATER THAN 4" WHEN THE DESIGN PRESSURE IS GREATER THAN 150 PSIG OR THE DESIGN TEMPERATURE IS GREATER THAN 212° F. CONTRARY TO THIS, PT-SR-1,2 REV. 0 WAS SPECIFIED ON THE FIELD WELDING CHECKLIST FOR FIELD WELDS 10, 11, 15, 17, 18 & 19 ON DRAWING M-619 sh 3 (Q).

17. REPORTED BY: R L Altum — DATE: 9/15/78

18. VALIDATED BY: D R Barclay — DATE: 9-15-78

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

22. [ ] Field Engineering Disposition [X] Field Engineering Recommended Disposition to Project Engineering

Disposition Requested by: 10-9-78

Field Engineering Recommends "Use As Is". Revise existing QCIR 1.00 A form, or prepare a new QCIR 1.00A forms for field welds #10,11,15,17,18 and 19 on drawing M619, sht.3 to specify that radiographic examination be performed in accordance with note 17 in form 84-Mechanical in specification 7220-G-27Q.

D R Barclay 9-27-78

23. PROJECT ENGINEERING DISPOSITION

PROJECT ENGINEERING CONCURS WITH THE FIELD ENGINEERING DISPOSITION THAT THE WELDS # 10, 11, 15, 17, 18 AND 19 ON DRAWING M 619 SH. 3 BE "USED AS IS". FIELD ENGINEERING WILL REVISE OR REISSUE THE QCIR 1.00A FORM AND PERFORM RADIOGRAPHIC EXAMINATION IN ACCORDANCE WITH SPEC. 7220-G-27 (Q).

A. Sidhu 10/11/78

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

PROJECT FIELD ENGINEER — DATE 10/12/78

A.S.M. Brasmath/RLC — PROJECT ENGINEER — DATE 10-11-78

D R Barclay — PROJ CONSTR QC ENGINEER — DATE 10-12-78

R E Holt — AUTHORIZED INSPECTOR — DATE 10/13/78

25. DISPOSITION RESULTS

RADIOGRAPHIC EXAMINATIONS HAVE BEEN PERFORMED ON FW 10, 11, 15, 17, 18, & 19 AND FOUND ACCEPTABLE. QCIR W-1.00A HAS BEEN COMPLETED ON FW 10, 11, 15, 17, 18, & 19 AND FOUND SATISFACTORY AND IN ACCORDANCE WITH DISPOSITION IN BLOCK "23". JSA 7-5-79

TAGS REMOVED JSA 7-6-79

26. QC ACCEPTANCE — Jim Arnold — 7-5-79 — QC ENGINEER — DATE

R L Altum — 7-5-79 — AUTHORIZED INSPECTOR — DATE

837 348

BLOCK 11.0 CONT.

THE DESIGN TEMPERATURE FOR LINES 2 HBC-103 AND 2 HBC-98 IS 241° F AS SPECIFIED IN 7220-M-480(Q), PIPING CLASS SUMMARY SHEETS, PAGE 352. THEREFORE, THE NDE REQUIREMENTS ON THE FIELD WELDING CHECKLISTS, FOR THE FIELD WELDS LISTED ABOVE, SHOULD HAVE SPECIFIED RT-XG-2.

HOLD FOR ENGINEERING DISPOSITION

HOLD TAGS APPLIED TO EACH FW.

"Q" # 4.192

837 349

NONCONFORMANCE REPORT

S/C

All E systems using E-22 & E-26 Cable

1. PROJECT NAME: Midland	JOB NO.: 7220					19. NO. 1574	20. PAGE 1 OF 3
2. UNIT(S): 1 & 2	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: SKV & 8KV Power Cable, 600V Power & Control Cable			5. ITEM LOCATION: Poseyville Laydown Area	
6. P.O. OR SPEC NO.: See block 16	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE: Vend./Eng	10. CONTRACTOR/SUPPLIER: Kerite, Essex, Rockbestos		
11. INSPECTION CRITERIA ( ) 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 (X)Eng ( )FLD		

16. NONCONFORMING CONDITION:

P.O. E-21 1, 5000 and 8000 Volt Cable, Paragraph 12.2.2 of this P.O. requires A special ambient condition tests per paragraph 5.4 of P.O. E-21. Contrary to this requirement the cable from Kerite have been received with no evidence of the cable passing the required test per paragraph 5.4 for period of 180 days.

17. REPORTED BY: E.C. Thompson DATE: 10-4-78

18. VALIDATED BY: D.B. Barclay DATE: 10-4-78

21. ROUTING: (X) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY) ~~Project Engineering~~ QC

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

PROJECT ENGINEERING SHALL DISPOSITION THIS NCR.

E.C. Thompson 10-4-78
Bruce Matthews 10-4-78

23. PROJECT ENGINEERING DISPOSITION

P.O. E-21 (Kerite) - Use as is, see attached Project engineering disposition

P.O. E-22 (Essex) - Extend conditional release for ~~60~~ 30 days ~~ending January 2, 1979~~. See attached Project engineering disposition

P.O E-26 (Rockbestos) - Extend conditional release for ~~60~~ 30 days ~~ending January 2, 1979~~. See attached Project engineering disposition

T.R. 11/8/78

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

P.O. E-21
PROJECT FIELD ENGINEER 11/3/78 DATE

PROJECT ENGINEER 11-3-78 DATE

PROJ CONSTR QC ENGINEER D.B. Barclay 11-16-78 DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

CONCUR WITH PROJECT ENGINEERING DISPOSITION OF P.O. E-21 (KERITE) AS IS. 12-1-78 T.R. Thompson

CONCUR WITH PROJECT ENG. ON THE RESOLUTION OF P.O. E-26 ROCKBESTOS. 3-5-79 T.R. Thompson

CONCUR WITH PROJECT ENG. ON THE RESOLUTION OF P.O. E-22 ESSEX 7-9-79 T.R. Thompson

26. QC ACCEPTANCE 7-9-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

837 350

2. The test results are to be received on site as part of the quality verification documentation contrary to this the vendor has not supplied the required results ~~substanicates~~ substantiates 40 years test.

P.O. E-22 600V Power Cable

1. This P.O. requires in paragraph 12.4.2 that the vendor shall submit certified test reports for flame resisting tests per IEEE 383 1974 section 2.5. ~~Contraty~~ Contrary to this Essex supplied only a letter Certifying this in lieu of the test data.

2. Paragraph 12.4.3 requires special ambient condition test as deleneated in Appendix A of said P.O. Contrary to the specifies of this requirement the vendor supplied test results with the following problems:

   A. No method to substaniate the 40 year, 50° C temperature test

   B. The test report does not describe spray chemistry, spray flow rate or length of spray

   C. The post-age test was not performed per the P.O. requirements of 180 days.

3. IEEE 383, 1974 paragraph 2.2 states in part "Samples Tested should contain the conductor, insulation, filler jacket etc."

   Contrary to this requirement the sample tested for radiation by Essex had no jacket per vendor print E-22-5-1

4. The sample used for the special ambient test were both pre-aged, the P.O. required that one sample be unaged cable per IEEE 383 1974, paragraph 2.4.1.

5. The test voltage as required by IEEE 383, 1974 paragraph 2.3.3.4 is to be 80V/Mil for 5 minutes (2.4KV) Contrary to this , the test on the cable was conducted at 2.2KV for 5 minutes

6. Essex did not include the requirements of Ieee 383 1974, paragraph 1.4.2.3 in their test procedure

P.O. E-26 600V Control Cable

1. This P.O. requires in paragraph 11.4, that the vendor shall submit certified test reports for flame resisting tests per IEEE 383, 1974 section 2.5. Contrary to this Rockbestos has not supplied the required test report.

2. The post age test was not conducted per appendix A of this P.O. for a period of 180 days.

3. The test report, E-26-12-3 vendor print, does not ~~adaqiately~~ adequately describe the spray chemistry, spray flow rate, length of spray and does not meet the requirements of Appendix A Paragraph 4 of this P.O.

837 351

4. Rockbestos did not include the requirements of IEEE 383 1974, paragraph 1.4.2.3 in their test procedure

Q List #s 3.~~004~~ 105, 3.00~~1~~ 6, 3.003 The cable is not controlled thru hold tags. The control will be accomplished though the use of open Inspection Records E-4.0 which identifys which reel the installed cable was removed from and the length removed.

Conditional release is granted for the installation of the cable identified on this NCR, subject to the condition that this cable will not be pulled in either containment. This conditional release is valid for 30 days, ending November 3, 1978. Corrections or removal can be accomplished without causing damage or contamination to the associated plant equipment or structure.

Request extension of conditional release to December 4, 1978

PFE	Date	PFQCE	Date
11-13-78		12-8-78	
12-8-78		11-16-78	
10-4-78		10-4-78	
PQAE	Date		
10-4-78			

Request an extension of conditional release to Jan. 15, 1979 on E-26 and Mar. 31, 1979 on E-22

BECHTEL

NONCONFORMANCE REPORT (CONT'D) PAGE 4 OF 28 35 KN 7-9-79 NCR NO. 1574

Request an extension of conditional release to February 19, 1979 on E-26.

C. Nuss AJB 1-17-79 — PFE / Date

[signature] Barclay 1-17-79 — PFQCE / Date

[signature] 1-18-79 — PQAE / Date

Request an extension of conditipnal release to May 15,1979 On ~~EXXX~~ E-22. (REF. BLC - 7207) 5/3/79

C. Nuss AJB 3-30-79 — PFE / DATE

[signature] Barclay 4-2-79 — PFQCE / DATE

RCH [signature] 4-2-79 — PQAE / DATE

REQUEST AN EXTENSION OF CONDITIONAL RELEASE TO JUNE 29, 1979 ON E-22.

C. Nuss AJB 5-15-79 — PFE / DATE

[signature] Barclay 5-15-79 — PFQCE / DATE

RCH [signature] 5-15-79 — PQAE / DATE

837 353

10098-2

QC-G3-3

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

page 14 of 25-20
NCR# 1574
PAGE 5 OF 28
35

23. PROJECT ENGINEERING DISPOSITION

P.O. E-21 - Use as is based on the following project engineering disposition:

1. The vendor did not extrapolate the results of the 100-day LOCA test data to qualify the cable for the 6-month requirement as indicated in the technical specification. However, the specification requirement of 180 days exceed the actual project LOCA test requirements of 30 days. Therefore, the test duration as performed is acceptable. The technical specification has been revised to resolve the inconsistency.

2. The vendor has stated in a letter dated October 31, 1978, that the pre-aging test performed was equivalent of forty years service at the required 90°c conductor temperature. This information is contained in a proprietary document (Kerite Engineering Memorandum 178) which is available for audit.

P.O. E-22 - Extend conditional release for installation of this cable in all plant areas outside the containment based on the following project engineering disposition:

1. The letter in reference (Part of V.P. 7220-E22-5-1) did not contain the correct attachment. The correct attachment which contains the required test data was located in the correspondence file. This information can be found in V.P. 7220-E22-33-1 (copy attached)

2. This finding is applicable relative to cable qualification for use inside the containment only.

3. The statement in V.P. 7220-E22-5-1 is inaccurate. As clarified in Essex letter to Bechtel dated January 13, 1976 (copy attached) jacketed cables were also tested. The vendor has been requested to formally submit this information to supplement the document package.

4. This finding is applicable relative to cable qualification for use inside the containment only.

5. This finding is applicable relative to cable qualification for use inside the containment only.

6. This finding is applicable relative to cable qualification for use inside the containment only.

This extension of the conditional release is based on the anticipted time for the vendor to complete a supplemental document package.

P.O. 7220-E26 - Extend conditional release for installation of this cable in all plant areas outside the containment based on the following project engineering disposition:

1. Certified test reports for flame resisting tests per IEEE 383-1974 section 2.5 is contained in V.P. 7220-E26-22-1 (copy attached)

077 354

2. This finding is applicable relative to cable qualification for use inside the containment only.

3. This finding is applicable relative to cable qualification for use inside the containment only.

4. This finding is applicable relative to cable qualification for use inside the containment only.

This extension of the conditional release is based on the anticipated time for the vendor to complete a new LOCA test incorporating the Midland requirements and submit the new test results.

JK/rg

PRODUCT ENGINEERING PROJECT REPORT

REPORT NO : PE - 14

BECHTEL ASSOC. PROFESSIONAL CORP.	JOB NO. 7220-001

SUPPLIER DOCUMENT STAMP

1. ☒ WORK MAY PROCEED.
2. ☐ WORK MAY PROCEED. SUBMIT FINAL DOCUMENT.
3. ☐ REVISE AND RESUBMIT. WORK MAY PROCEED SUBJECT TO INCORPORATION OF CHANGES INDICATED.
4. ☐ REVISE AND RESUBMIT. WORK MAY NOT PROCEED.
5. ☐ REVIEW NOT REQUIRED. WORK MAY PROCEED.

☐ FOR INFORMATION ONLY

REVIEWED

A	C	E	J	M	N	P	Q	

By _____ Date _____

DISTRIBUTION	
JOB 7220	COPY
VENDOR	P-1
CLIENT	0 + C
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ARCH.	
CIVIL	
ELECT.	/
P/D	
MECH.	
C. SYS.	
MISC.	
RECORD	✓
BECHTEL	

OCT 0 9 1973

PLEASE RESUBMIT CORRECTED DOCUMENT IN THE ENCLOSED WITHIN _____ WEEKS

7220-E22-33-1

(PAGE 1 OF 5)

6 of 25
NCRH, 14
7 of 38 pp 1-7-77
35 pp 7-8-76

837 356

POOR ORIGINAL

ESSEX INTERNATIONAL, INC.
POWER CONDUCTOR DIVISION
EAST UNION ST. & SAGAMORE PARKWAY • P.O. BOX [illegible]
LAFAYETTE, INDIANA [illegible] • PHONE [illegible]

JOB 7220

	ACT			
Proj. Engr.		2		
Asst. P.E.				
Mech.				
Elect.		3		
CS				
Civil				
P.C.				
Arch.				
Montreal				
D.E.				
Cost Trend				
Estimator				
Const. Coord.				
Admin.				
FILE NO. E-22				

Y-K

January 9, 1976

RECEIVED
JAN 12 1976
BECHTEL
A.A. 7220

Bechtel Power Corp.
P. O. Box 1000
Ann Arbor, MI 48106

Attn: Mr. ~~M. Velastegui~~ R. L. Cattleberry

Subj: Nuclear Cable Testing

Ref: Bid 7220-E-22 Essex Quote 5757
Consumer Power Midland Plant 1 and 2

Dear Mr. Velastegui:

We have been requested by Mr. L. Taylor to provide your office with nuclear cable qualification information.

This letter will serve to cover an Essex Product Engineering Report PE-14 which describes the successful completion of the Vertical Tray Fire Test as required by IEEE Std. 383-1974; paragraph 2.5.

In addition to the attached report, this letter will serve to advise you that the radiation testing (LOCA) was performed by ISOMEDIX, Inc. Parsippany, N.J. The specimens tested were unjacketed, single conductor #12 AWG wires. The simultaneous test sequence was employed according to the profile described in IEEE Std. 323-1974 for PWR/BWR reactors.

The total radiation dose utilized was 2×10^8 Rads at the rate of 1 Megarad per hour from a Cobalt 60 source.

We trust this letter in combination with the attached Reports will be sufficient for your present requirements. If, however, anything else is necessary, please do not hesitate to contact either Mr. Taylor or the undersigned.

Very truly yours,

J. L. Steiner
Chief Engineer

cc: Consumer Power Co.
E. K. Duffy
L. B. Taylor
J. A. Boosey
P. Bernard

JLS:lab

7220-E22-33-1
(PG. 2)

POOR ORIGINAL

7 of 8 of 28 NCR 1574 FW 1-12-78 35 FR 2-9-79

POWER CONDUCTOR DIVISION

ESSEX INTERNATIONAL, INC.

DATE: November 6, 1974

REPORT NO.: PE-14

PRODUCT ENGINEERING

PROJECT REPORT

SUBJECT:

Vertical tray fire test of EP insulated, neoprene jacketed control and power cable per IEEE Standard 383-74.

PURPOSE:

To qualify Essex EP/Neoprene cables to the fire retardant requirements of IEEE Std. 383-74.

DISCUSSION:

Two types of cable construction were tested according to the requirements of IEEE Std. 383-74. They were:

7/c #12, .030 EP/.015 Neoprene, Asbestos-mylar-glass binder tape, .065 Neoprene Jacket overall.

and;

1/c #8 triplexed, .045 EP/.030 Neoprene.

These two constructions were chosen to determine whether or not the EP and the neoprene used in the cable construction were intrinsically flame retardant or if special tape binding was necessary for qualification.

In both cases the cable was racked in a 12" vertical tray so that the middle six inches of the tray was filled with six (6) lengths of test specimens. The fire source was the recommended

POOR ORIGINAL

7220-522-33-1
(pg 3) 837 358

70000 BTU/hr. gas burner specified in IEEE Std. 383-74 and operating at the levels specified in that Standard. The flame temperature was maintained at 1450-1550°F throughout the testing.

SUMMARY & CONCLUSION:

All specimens of cable tested for this report passed the requirements of IEEE Std. 383-74. All cables were severely damaged in the immediate area of gas fire impingement but the damage extended for no more than twenty-six inches in any case. In all tests the cable destruction stopped before the gas fire was extinguished and there was no afterburn in any test run.

Although it was not actually performed, it is fully expected that the use of the oil soaked burlap as a flame source (IEEE 383 alternate fire source) will produce similar and probably less severe damage. The facilities exist for such a test but the gas burner is the more severe fire source.

SAMPLES TESTED:

The following three constructions were tested:

1 - 7/c #12 copper, .030" wall EP/.015" wall Neoprene, cabled without fillers, double half-lapped layer of mylar-glass-asbestos binder tape, .060" Neoprene overall jacket.

2 - Similar to 1 above but one mylar-glass-asbestos tape was replaced by one glass-neoprene tape. All other construction features identical.

3 - #8 AWG copper, .045" EP/.015 Neoprene, cabled in triplex form. NO FURTHER COVERING.

RESULTS OF TESTING:

Samples 1 and 2 were severely damaged for 14 inches about the point of burner flame impingement. The jacket, further, sustained damage of a lesser nature for a total damage length of 23 inches for sample #1 and 26 inches for sample #2.

POOR ORIGINAL

7220-E22-33-1
(EQ.4)

9 of 25
NCR# 14
10 of 28 1-17-79
35 KN 11-9-79

Sample #3 was severely damaged (conductors exposed under ash) for a distance of 18 inches with lesser damage for another 7 inches giving a total damaged distance of 25 inches.

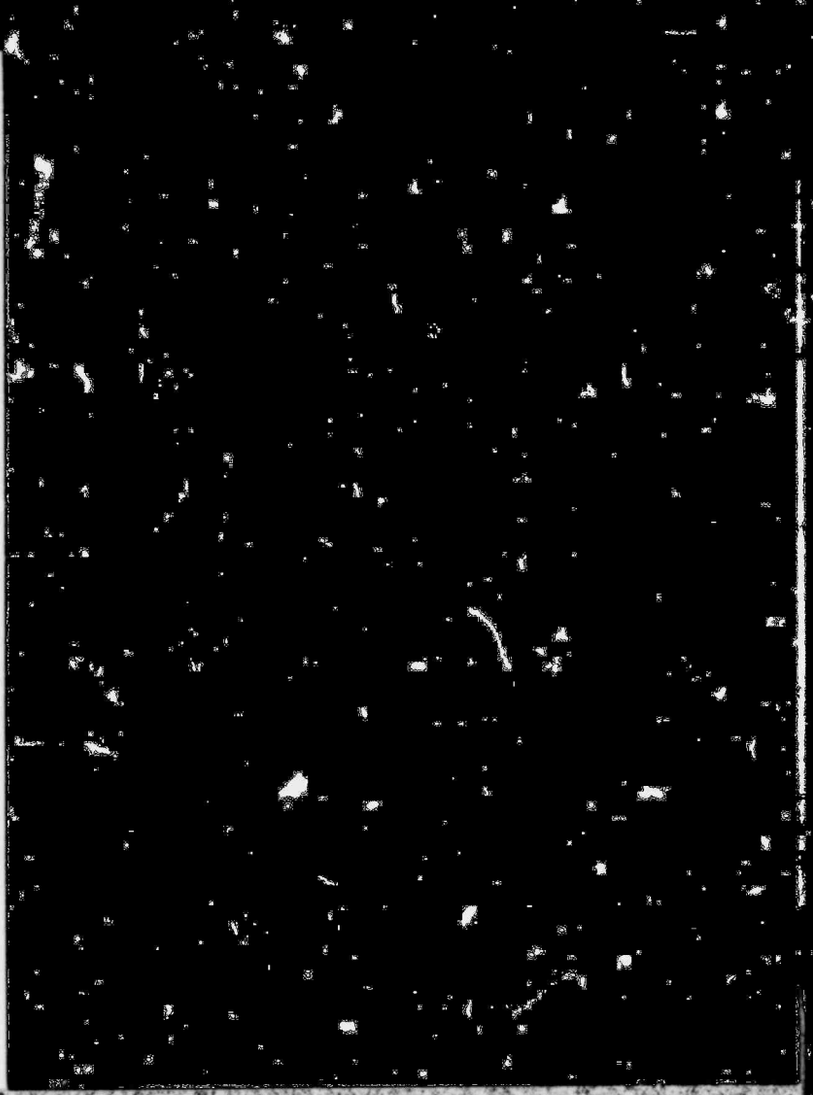
Signed:

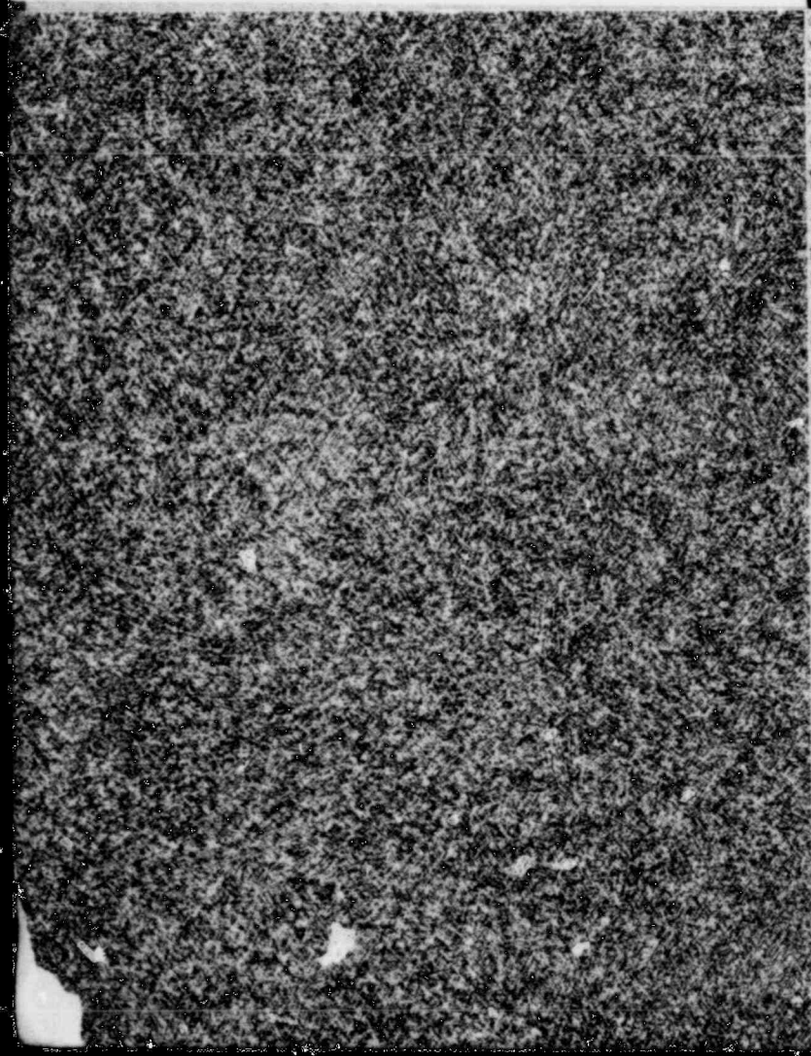
Joseph L. Steiner

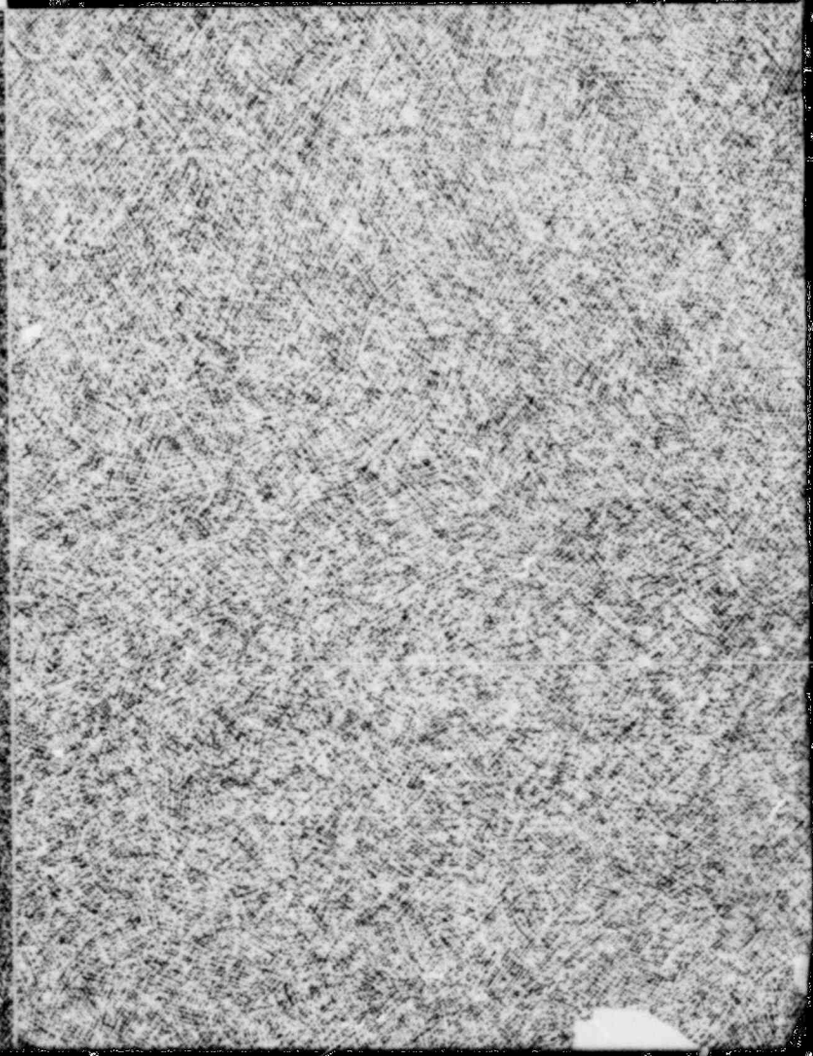
JLS:lab

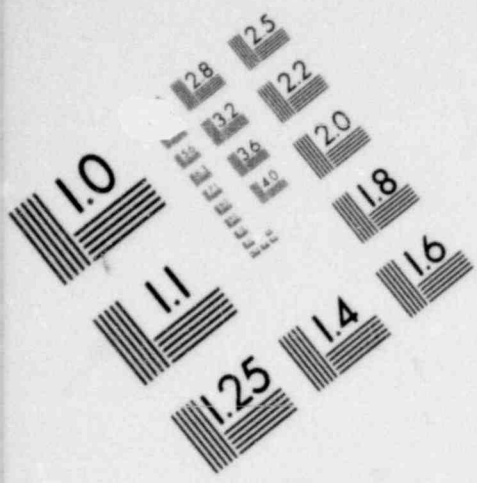
POOR ORIGINAL

Ref 26
NCR A-14
11 of 28 KV 1-D 79
35 KV 9-9-79
7220-622-33-1
(Pg 5)
837 360









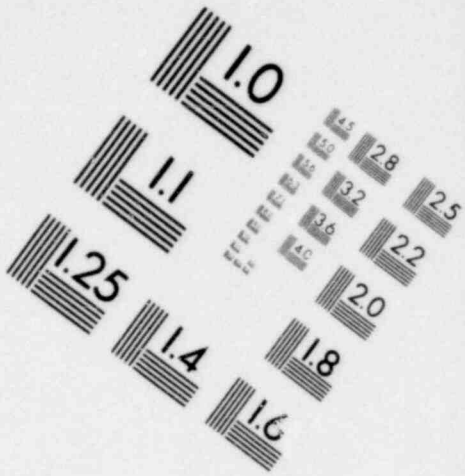
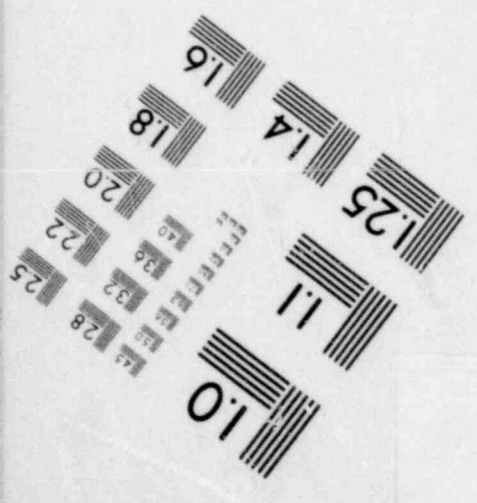
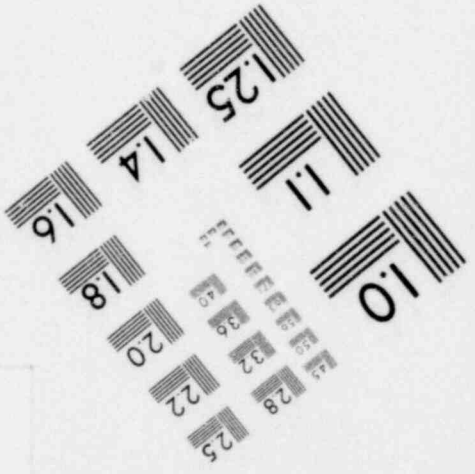
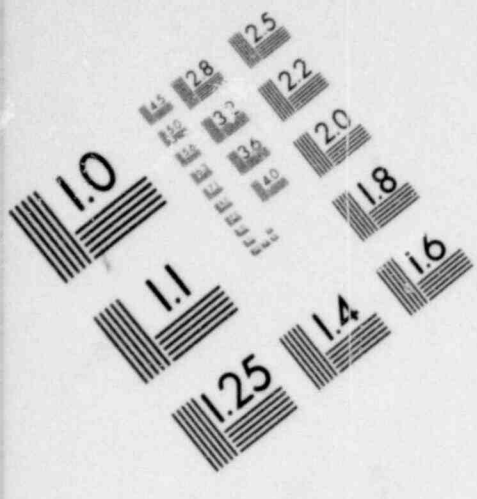


IMAGE EVALUATION TEST TARGET (MT-3)







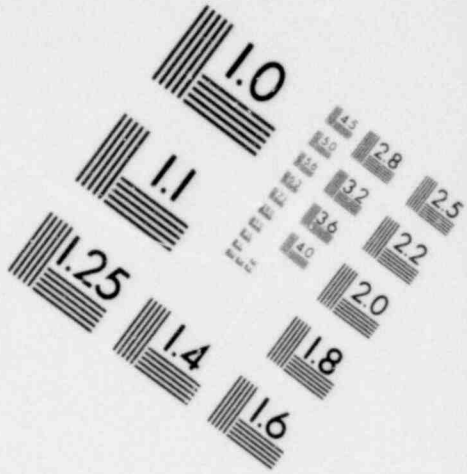
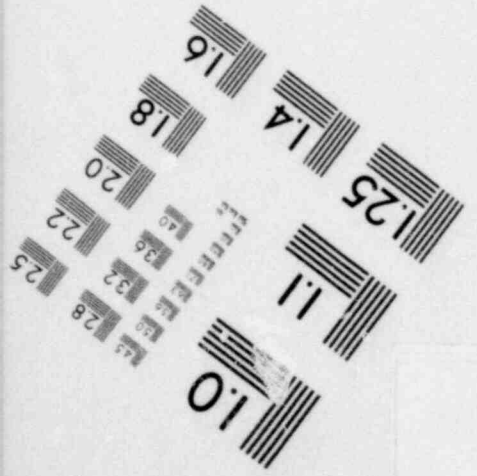
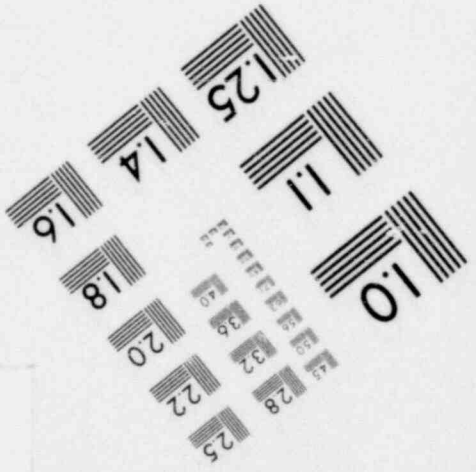
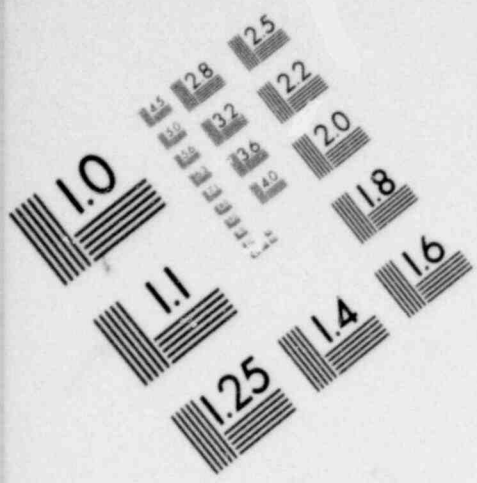


IMAGE EVALUATION TEST TARGET (MT-3)







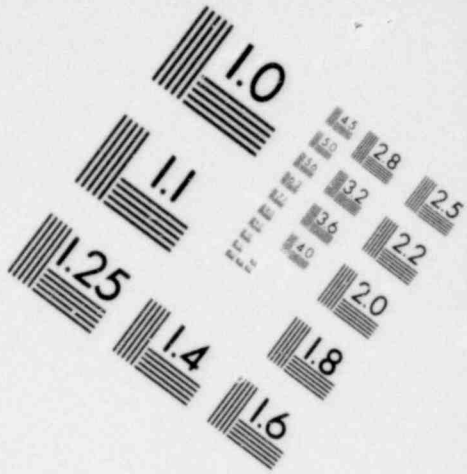
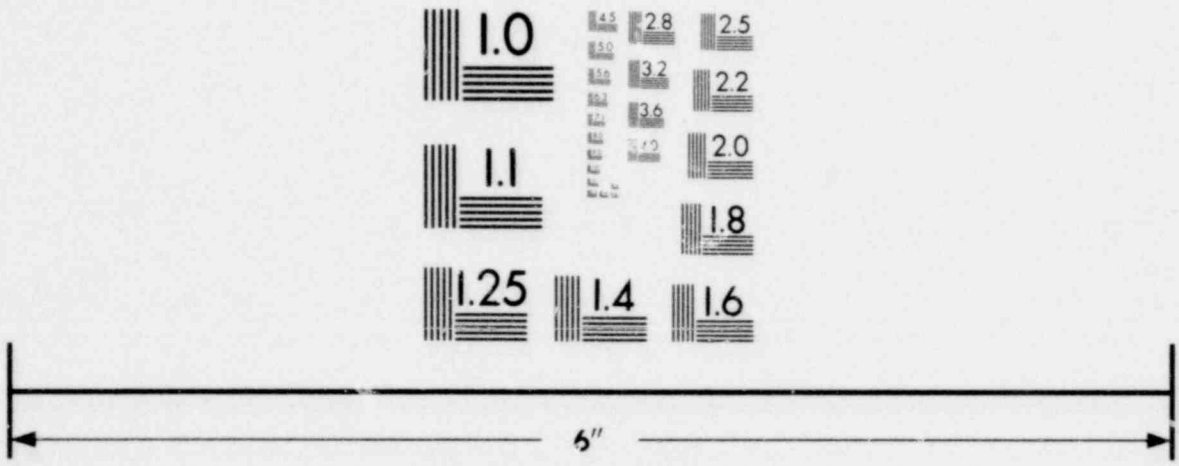
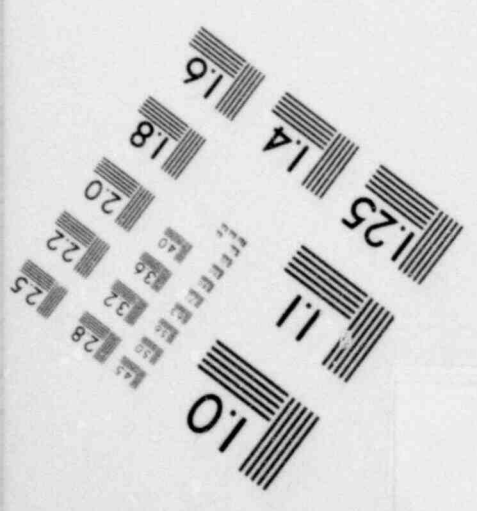
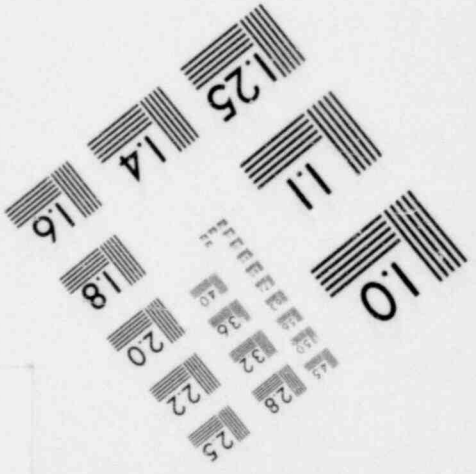


IMAGE EVALUATION TEST TARGET (MT-3)







ESSEX INTERNATIONAL, INC.
POWER CONDUCTOR DIVISION
EAST UNION ST. & SAGAMORE PARKWAY • P.O. BOX 1000
LAFAYETTE, INDIANA 47902 • PHONE (317) 447-9464

January 13, 1976

E22-(F)

Bechtel Power Corp.
P. O. Box 1000
Ann Arbor, MI 48106

Attn: Mr. R. Castlebury

Subj: Supplement to Essex Nuclear Cable Test

Ref: Bid 7220-E-22 Essex Quote 5757
Consumer Power Midland Plant 1 and 2

Dear Mr. Castlebury:

Mr. W. Terrell has contacted us in reference to our letter of 1-9-76. He expressed concern about the statement in paragraph three (3) of that letter covering the fact that "The specimens tested were unjacketed, single conductor #12 AWG wires".

This statement is accurate but in addition to those unjacketed conductors, we also tested jacketed conductors of the same wire size. The testing of unjacketed cables was designed to qualify Essex to supply unjacketed wire for single conductor 600 volt use should that become necessary.

We trust this explanation will aid in clarifying the statement in question.

Very truly yours,

Joseph A. Steine

J. L. Steine
Chief Engineer

RECEIVED
JAN 16 1976
BECHTEL
AA 7220

cc: Consumer Power Co.
E. K. Duffy
J. A. Boosey
L. B. Taylor
P. Bernard

	ACT.	INFO	COPY	INIT.
Proj. Eng.				
Asst. P.E.		1		
Asst. P.E.				
Mech.				
Elect.		2		
CS				
Civil				
P.D.				
Arch.				
Montreal				
G.E.				
Cost Trend				
Environmental				
Const. Coord.				
Admin.				

FILE NO. E-22

838 001

V-15

CONTENTS

1) QUALIFICATION & VERIFICATION DOCUMEN PKG. & G-321D
2) COC & CTR TEST REPO

JUL 2 9 1977

METHOD OF ANALYSES, CALCULATION AND/OR TESTING

☑ ACCEPTABLE

☐ UNACCEPTABLE

BY [signature] DATE 5/17/77

PLEASE RESUBMIT CORRECTIONS WITHIN _____ WEEKS

DISTRIBUTION:	
JOB 7220	COPY
VENDOR	
CLIENT	
FIELD	
ARCH.	
CIVIL	
ELECT.	1
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C. SYS.	
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START-UP	
RECORD	
BECHTEL	

7220-E26-22-1
(SHT. 1 OF 26)

6
NCR #1575
13 OF 28 K.M. 1-17-79
35 KN 7-9-79

POOR ORIGINAL

POOR ORIGINAL

READ INSTRUCTIONS ON BACK BEFORE FILLING IN FORM

These requirements for Engineering and Quality Verification Documents are to be fulfilled in accordance with the schedule set forth below. Supplier's failure to comply with these requirements may result in order cancellation or withholding of payment until compliance is established.

1. Document Category Number	2. Specification Paragraph Reference	3. Kind of Copies	ENGINEERING DOCUMENTS 4. Quantity Required Initial	Final	5. Prior Approval Required Yes	No	QUALITY VERIFICATION DOCUMENTS 6. Quantity Required for Release	7. Distribution Code	8. Supplier's Conformance Check	9. Inspection Release	10. Engineering Review	11. Field QCE Check In	12. Remarks
10.1		Reproducible / Microfilm	1	1	X		N/A		N/A	EHD			Package of sample Quality Verification documents containing format and typical content
1.1		Reproducible / Microfilm	1	1	X		N/A		N/A	EHD			
4.1		Reproducible / Microfilm	3	7		X	N/A		N/A	EHD			Attached are approved SDDR Nos. 159-195-247-276
4.4		Reproducible / Microfilm	3	7		X	N/A		N/A	EHD			
5.0		Reproducible / Microfilm	1	1	X		N/A		N/A	EHD			
6.0		Reproducible / Microfilm	1	1	X		N/A		N/A	EHD			
17.5	7.3	Reproducible / Microfilm	1	1		X	N/A		N/A	EHD			
26.2	7	Reproducible / Microfilm		1		X	1	a,c	CTR 687	EHD			Pg 2 of 4, 3 of 4, 4 of 4
17.4	11.3	Reproducible N/A / Microfilm					1	b,c	CTR 687	EHD			Pg 1 of 4
28.0	10	Reproducible / Microfilm	1	1	X		N/A		N/A	EHD			
15.0	6.4	Reproducible / Microfilm	1	1	X		1	a,c	*	EHD			*See SDDR #247
27.0	11.4.3	Reproducible / Microfilm	1	1		X	1	b,c	**	EHD		**	If applicable each order See Attachment #1

13. Supplier's Order No. 64799-04

14. Supplier's Part No. C53-3100

15. Supplier's Part Name 7/c #14 AWG XLPE/NEOPRENE

16. Quantity 9520 4 FT.

17. Buyer's Req. Item No. 4

18. Buyer's Liner/Equip., Tag or Code No. None

19. Buyer's Part Name 7/c #14 AWG 600 VOLT CONTROL CABLE

20. Traceability CTR #687 Bag #4 & 3 of 4 For Reel Numbers

21. Supplier's Conformance Statement — We certify that the listed work and required documents meet the requirements of the procuring documents. Supplier Signature: M C Goldberg Title: Quality Analyst Date: 7-13-77

22. Inspection Release Statement — Work was released based on satisfactory completion of inspection and review of documentation. Authorized Deviations ☒ YES, Noted under 12. Remarks ☐ NONE. Recital Inspector Signature: Earl H Sinks Date: 7-14-77

23. Engineering Review Statement — The Quality Verification Documents submitted to Engineering with this form have been reviewed for conformance to the specified requirements and are acceptable. Engineer Signature _____ Date _____

24. QCE Check-In Statement — This form and the Quality Verification Documents referenced hereon have been received and their relationship to the hardware items verified. CONTROL NO. _____ FILE NO. _____ QCE Signature _____ Date _____

After QCE Check-In Distribute to: Procurement Manager, Field Office Manager, Material Supervisor

MIDLAND PLANTS - UNITS 1 & 2
CONSUMERS POWER COMPANY

JOB NO 7220
P.O./REQ. NUMBER 7220-E-36

7220-F.2.6-22-1

838 003

14 of 25 NCR H1574 12-1-77 Rev. 9

Supplier Deviation Disposition Request

FOR SUPPLIER USE	
Supplier SDDR No. 1	Date Submitted 1/12/77

NOTE: The reverse side of this form contains the instructions for its preparation and use. Items marked with an asterisk (*) are for Bechtel entries only.

FOR BECHTEL USE	
*Bechtel SDDR No. 159	*Date Received 1-19-77

1. Supplier Name: Cerro Wire & Cable Co. Address: 225 Nicoll St. City & State: New Haven, CT Zip: 06511

2. Supplier's Order No.	3. Supplier's Part No.	4. Supplier's Part Name	5. Date Deviation Determined	6. Previous SDDR Nos. & Dates
64700	C53-3100	7/c #14 600V	1/11/77	None
7. Buyer's P.O. No.	**8. Buyer's Part No.**	**9. Buyer's Part Name**	**10. Bechtel Inspector Notified**	**11. Bechtel Eng. Notified**
7220-E-26-AC	4	600V Control Cable	Unknown	1/12/77

12. Qty or Serial No.: 100,000 Ft.

13. Deviation Description (Attach extra sheets, engineering sketches, etc. as necessary):

Specification No. 7220-E-26, Rev. 2
Section 6.4.2 and Table II (Appendix C)

Average jacket thickness Mils - 60

14. Supplier's Disposition Classification: ☐ Accept As Is ☐ Repair ☐ Modify Buyer's Requirement

15. Proposed Disposition and Technical Justification:

IPCEA S-19-81 Table 6-16 illustrates jacket thickness to be used over various core diameters. Our calculated core diameter under the jacket falls below 0.453", and therefore we propose to manufacture this item with a 0.045" Neoprene jacket.

POOR ORIGINAL

16. Attached Supplier Documents/Drawings: Construction detail drawings

17. Supplier's Authorized Representative: H. P. Bogue Title: Sales Administrat Manager
Signature: H P Bogue Date: 1/12/77
Name: H. P. Bogue

*18. Bechtel Engrg. Action: ☒ Accepted ☐ Rejected ☐ Rejected-Resubmit
Engrg. Follow-up: ☐ Dwg Change ☐ Spec/Req. Change ☐ Deviations or Suppliers Altered ☐ Other

*19. Bechtel Comments (Use additional sheets, sketches, etc. as necessary):

THIS SDDR IS ACCEPTED.
VALUES PROPOSED ARE WITHIN DESIGN MARGINS ESTABLISHED IN TABLE 4-16 OF IPCEA STANDARD S-19-81

*20. Bechtel Engineering Approval: CS ____ Date 1-20-77
α ____ Date 1/24/77
M ____ Date 2/4/77

Verification Signatures: 21. Supplier ____ Date 1-19-77
*22. Bechtel Initials ____ Date ____

15 of 38 KR 1-17-77
4 of 25 35 KR 1-19-77
NRR # 1574

838 004

BECHTEL

Supplier Deviation Disposition Request

FOR SUPPLIER USE	
Supplier SDDR No.	Date Submitted
7	3/10/77

NOTE: The reverse side of this form contains the instructions for its preparation and use. Items marked with an asterisk (*) are for Bechtel entries only.

FOR BECHTEL USE	
*Bechtel SDDR No.	*Date Rec'd

1. Supplier Name: THE ROCKBESTOS COMPANY Address 285 Nicoll St. City & State New Haven, CT Zip 06.

2. Supplier's Order No.	3. Supplier's Part No.	4. Supplier's Part Name	5. Date Deviation Determined	6. Previous SDDR No. & D.
64799	All	N/A	7/01/76	6 2/11/77

7. Buyer's P.O. No.	8. Buyer's Part No.	9. Buyer's Part Name	10. Bechtel Inspector Notified	11. Bechtel Eng. Notified
7220-E-26-AC	All	600V Control Cable	EHJ 3.11-77 3/10/77	3/10/77

12. City or Serial No.

13. Deviation Description (Attach extra sheets, photographs, sketches, etc. as necessary)

On Page TD-4 (copy attached) of our Proposal 53-397, dated 7/10/76 we took exception to your Spec. 7220-E-26 Para. 6.4 requiring ". . .no lubricants or powders shall be applied to its outer surface." No statement or Spec. revision accepted our exception. We use US-10 (Rockbestos designation) Gem Gravure Co. designation "Gem Type SC Slipper Compound" to prevent cable from sticking together on reels. Bechtel Inspector, Mr. Earl Duda, has informed us that he will reject cable unless above is accepted. We have no options!

14. Supplier's Disposition Classification: ☐ Accept As Is ☐ Repair ☒ Modify Buyer's Requirement

15. Proposed Disposition and Technical Justification:

Rockbestos has conducted trials which show that paint can be applied intermittently at regular intervals to side of cable when cable has US-10 coating. Paint procedure followed general outlines of discussion 3/8/77 at Bechtel/Ann Arbor between W. Walker, and A. Lybeck of Rockbestos and J. Sullivan, M. Bozo, and W. Terrell of Bechtel. Consequently, use of US-10 is requested. No additional cleaning of cable is required and the US-10 coating will not affect the service life of the pigmented paint applied to the cable.

POOR ORIGINAL

16. Associated Supplier Document Change(s): Spec. 7220-E-26

Suppliers Authorized Representative Signature: H R Beque Title: Mgr-Sales Admin.

Name: H R Beque Date: 3/10/77

*18. Bechtel Engrg. Action: ☒ Accepted ☐ Rejected ☐ Rejected-Resubmit

Engrg. Follow-up: ☐ Dwg Change ☒ Spec/Req. Change ☐ Discipline or Suppliers Affected ☐ Other

*19. Bechtel Disposition Statement Including Justification (Attach extra sheets, sketches, etc. as necessary)

THE USE OF US-10 IS ACCEPTABLE PROVIDED SAMPLE CABLE WITH APPLIED COATING WILL PASS FLAME TEST.

*20. Bechtel Engineering Approval OS Date 7-1-77

Verification Signatures Date 7-12-77

838 005

NCR H 1574 16 of 28 NCR's 15 of 25

Rockbeste
40 H.R. Rogue

Supplier Deviation Disposition Request

FOR SUPPLIER USE		NOTE: The reverse side of this form contains the instructions for its preparation and use. Items marked with an asterisk (*) are for Rockbeste use only.	FOR ECHLIN USE	
Supplier SDDR No.	Date Submitted		*Echlin SDDR No.	*Date Received
9	6/3/77		247	6-6-77

1. Supplier Name & Address: The Rockbeste Co. Address 285 Nicoll St. City & State NH Conn. Zip 06511

2. Supplier's Order No.	3. Supplier's Part No.	4. Supplier's Part Name	5. Date Deviation Determined	6. Previous SDDR No. & Date
64799	All	N/A	6/2/77	8 6/3/77

7. Buyer's P.O. No.	8. Buyer's Part No.	9. Buyer's Part Name	10. Echlin Inspector Notified	11. Deviation Exp. Notified
7220-[illegible]-26-AC	All	600V Control Cable	6/2/77	6/3/77

12. Buyer Serial No.

13. Deviation Description (Attach extra sheets, photographs, sketches, etc. as necessary)

Form C-321-D Document Category Number 15.0 requests "Cleaning and coating procedures." We request waiver of this requirement.

14. Supplier's Disposition Classification: ☐ Accept As Is ☐ Repair ☐ Modify Buyer's Requirement

15. Proposed Correction and Technical Justification:

SDDR 7 dated 3/10/77 requested use of US-10 as a barrier lubricant and was approved by Rockbeste 3/25/77. Visual observation for dirt and other contaminants is made during final inspection.

RECEIVED
JUN 7 1977

POOR ORIGINAL

16. Associated Supplier Document Change(s): C-321-D Document Category No. 15.0

17. Supplier Authorized Representative
Signature: H.B. Rogue
Name: H.B. Rogue
Title: Mgr. Sales Adm.
Date: 6/3/77

*18. Echlin Engr. Action: Engr. Justification: ☐ Only Choice ☐ Other ☐ Specified Choice (C-321-D Doc. Cat. 15)

[X] Accepted ☐ Rejected ☐ Rejected-Resubmit ☐ Customer or Supplier Affected

*19. Technical Justification and Conditions (Attach extra sheets, sketches, etc. as necessary)

THIS C-BOND IS ACCEPTED.

ON THE BASIS OF SDDR 7 JUSTIFICATION CONCERNING NO ADDITIONAL CLEANING IS NECESSARY. THE OMISSION OF THIS REQUIREMENT IS ACCEPTABLE

Approved:

*Echlin Engineering Approval | Date | Verification Completed | Date

006

17 of 25
35 mm 6-8-77
NCR H1574

Supplier Deviation Disposition Request

FOR SUPPLIER USE		NOTE: The reverse side of this form contains the instructions for its preparation and use. Items marked with an asterisk (*) are for Bechtel entries only.	FOR BECHTEL USE	
Supplier SDDR No.	Date Submitted		*Bechtel SDDR No.	*Date Received
10	6/29/77		476	7.5.77

1. Supplier Name: The Rockbestos Company Address 285 Nicoll St. City & State New Haven, CT Zip 06511

2. Supplier's Order No.	3. Supplier's Part No.	4. Supplier's Part Name	5. Date Deviation Determined	6. Previous SDDR No. & Date
64799	All	N/A	6/29/77	No. 9 6/03/77
7. Buyer's P.O. No.	**8. Buyer's Part No.**	**9. Buyer's Part Name**	**10. Bechtel Inspector Notified**	**11. Bechtel Eng. Notified**
7220-E-26-AC	All	600V Control Cable	6/29/77	6/29/77

12. Qty or Serial No.	13. Deviation Description (Attach extra sheets, photographs, sketches, etc. as necessary)
All	Bechtel Specification No. 7220-E-26, Rev. 2, Section 6.4.2 states ". . .maximum thickness shall not exceed 110 percent of the specified average."

POOR ORIGINAL

14. Supplier's Disposition Classification: ☐ Accept As Is ☐ Repair ☒ Modify Buyer's Requirement

15. Proposed Disposition and Technical Justification:

In order to guarantee average outside jacket thicknesses per specification, the jackets are run slightly above average.

It has now been determined that the thickness of the jackets often exceeds the "110% of the specified average" requirement. In no case are the jackets below the minimum acceptable thickness, nor are any of the outside cable diameters greater than approved maximums. All other specification requirements are not affected.

16. Associated Supplier Document Change (s): Construction detail drawings

17. Supplier's Authorized Representative
Signature: H. R. Bisque
Name: H. R. Bisque
Title: Sales Admin. Mgr.
Date: 6/29/77

*18. Bechtel Engrg. Action: ☒ Accepted ☐ Rejected ☐ Rejected-Resubmit

Engrg. Follow-up: ☒ Dwg Change (Suppl. Item) ☐ Other ☐ Spec/Req. Change ☐ Discipline or Suppliers Affected

*19. Bechtel Disposition Statement including Justification (Attach extra sheets, sketches, etc. as necessary)

THIS CAN BE ACCEPTED BASED ON SUPPLIER'S CLARIFICATION THAT THE AVERAGE SPECIFICATION REQUIREMENT MINIMUM JACKET THICKNESS AND PREVIOUSLY APPROVED OUTSIDE DIAMETERS OF THE CABLES ARE MAINTAINED. WORKING DRAWINGS TO SHOW THE MAXIMUM OUTSIDE DIAMETERS MUST BE RESUBMITTED FOR PERMANENT RECORDS.

Routing for Engineering Approval: ES 838 007 Date 7/1/77 Verification Signatures: for Supplier Date

35547-1-18 or 28 NCR H1574 1 of 25

CERRO WIRE & CABLE CO.
DIVISION OF CERRO CORPORATION

ROCKBESTOS PRODUCTS
P.O. DRAWER 1102
NEW HAVEN, CONN. 06504
(203) 772-2250

CTR #6
Pg 1 of 4

CERTIFICATE OF CONFORMANCE

Customer SechTel Power Corporation
Purchase Order No. 7220-E-26-AC
Specification No. 7220-E-26 Rev2
Description 7/c #14 XLPE/NEO

Sales Order No. 048/5600
Shop Order/Item No. 64792-04
Product Code C53-3100
Quantity 42806 FT.

IT IS HEREBY CERTIFIED THAT THE ABOVE CABLE MEETS THE REQUIREMENTS OF THE FOLLOWING SPECIFICATIONS, IPCEA S-19-81, IPCEA S-66-524 and IEEE-383.

K.S. Littlehales
Manager, Quality Assurance

7/13/87
Date

35 KV
19 of 28
18 of 25
NCR 11571

POOR ORIGINAL

CERRO WIRE & CABLE CO.
DIVISION OF CERRO CORPORATION

ROCKBESTOS® PRODUCTS
NEW HAVEN, CONN. 06504

CERTIFIED TEST REPORT

SHEET 2 OF 5

CUSTOMER BechTel Power Corporation

SPECIFICATION 7220-E-26 Rev 2

PURCHASE ORDER NO. 7220-E-26-AC

CONSTRUCTION 7/c #14 XLPE/NEO

CERRO SHOP ORDER NO. 64799-04

PRODUCT CODE C53-3100

SALES ORDER NO. 048/5400

CUST ITEM NO. 4

REEL NO.	LENGTH	O.D.	DIELECTRIC	INSULATION RESISTANCE	CONDUCTOR RESISTANCE
REQUIREMENTS:		.541 Max.	4.0 kv (DC) 5 min.	min. @15.6°C 5258 Megs-M'	max. @20°C 2.792 Ohms-M'
7B437	5340	.520	Passed	309987	2.734
T-10788	B-05444				
7B437	5420	.520	Passed	188778	2.730
T-05436	B-00002				
7B438	5356	.520	Passed	155394	2.783
T-05370	B-00002				
7B438	5400	.500	Passed	18908	2.731
T-10798	B-05372				
7A558	5300	.510	Passed	160438	2.737
T-05320	B-00048				
7A560	5390	.495	Passed	219265	2.773
T-10838	B-05430				
7A558	5350	.500	Passed	207045	2.764
T-10714	B-05350				

IT IS HEREBY CERTIFIED THAT THE FOREGOING IS TRUE AND THAT TEST DATA AND THAT THE ABOVE CABLE MEETS APPLICABLE REQUIREMENTS OF PROCUREMENT DOCUMENTS.

BECHTEL 181

POOR ORIGINAL

WITNESSES: M C Holbert

Christine Nardi

D S Littlefield 7/13/77

Manager, Quality Assurance Date

19 of 25
20 of 25
35 of 49
NCR 574

(TYPICAL SHEET)

CERRO WIRE & CABLE CO.
DIVISION OF CERRO CORPORATION

ROCKBESTOS® PRODUCTS
NEW HAVEN, CONN. 06504

CERTIFIED TEST REPORT

SHEET 3 OF 4

CUSTOMER BechTel Power Corporation

SPECIFICATION 7220-E-26 Rev 2

PURCHASE ORDER NO. 7220-E-26-AC

CONSTRUCTION 7/c #14 XLPE/NEO

CERRO SHOP ORDER NO. 64799-04

PRODUCT CODE C53-3100

SALES ORDER NO. 048/5600

ITEM NO. 4

REEL NO.	LENGTH	O.D.	DIELECTRIC	INSULATION RESISTANCE	CONDUCTOR RESISTANCE
REQUIREMENTS:		.541 Max.	4.0 kv/ 5 (AC) min.	min. @ 15.6°C 5259 Megs-M'	max. @ 20°C 2.793 Ohms-M'
7A562	5250	.500	Passed	60372	2.747
T-10452	B-05176				

POOR ORIGINAL

IT IS HEREBY CERTIFIED THAT THE FOREGOING IS TRUE TEST DATA AND THAT THE ABOVE CABLE MEETS APPLICABLE REQUIREMENTS OF PROCUREMENT DOCUMENTS.

838 010

DEC.NT-181

WITNESSED: M C Holdbrook

Quality Assurance Division

B G Littlefield 7/13/--

21 of 28 35 KD 11-9-94 1-17-9

26 of 25

NCR-1574

CERRO WIRE & CABLE CO.
DIVISION OF CERRO-MARMON CORP.

ROCKBESTOS PRODUCTS
NEW HAVEN, CONN. 06504

CERTIFIED TEST REPORT - FIREWALL III

CUSTOMER Bechtel Power Corporation
PURCHASE ORDER NO. 7220-E-26-AC
SPECIFICATION NO. 7220-E-26-Rev2
CONSTRUCTION 7/c #14 XLPE/NEO

SALES ORDER NO. 048/5600
SHOP ORDER/ITEM NO. 64799-04
PRODUCT CODE C53-3100
CUSTOMER ITEM NO. 4

INSULATED WIRE	REQUIRED	ACTUAL
[illegible].TENS.STRG'TH PSI	1800 Min.	2044
[illegible]. ELONG. %	250 Min.	435
[illegible]CAL FLAME-OUT	60 Secs. Max	0
[illegible]ING OF INDICATOR	25 % Max	0
[illegible] OVEN % ORIG. 168HRS [illegible]. STRENGTH 121°C	75 Min.	119
[illegible] OVEN % ORIG. 168HRS [illegible]ELONGATION 121°C	75 Min.	101
HEAT DISTORTION % 1HR @ 121°C	30 Max.	17.8
HEAT RESISTANCE 158HRS @ 158°C	No Cracks	NONE
LM-60 DIEL. CONSTANT 24 HRS. @ 75°C	6.0 Max.	3.6
1-14 DAY SIC INCR. 14 DAYS @ 75°C	3.0 % Max	1.9
7-14 DAY SIC INCR. 14 DAYS @ 75°C	1.5 % Max.	1.0
STABILITY FACTOR 14 DAYS @ 75°C	1.0 Max.	.46
ALTERNATE STAB. 14 DAYS @ 75°C FACTOR	0.5 Max.	.08
[illegible]METRIC MG/SQ.IN. [illegible]HRS @ 158°C	10.0 Max.	3.6

CABLE & OUTER JACKET	REQUIRED	ACTUAL
ORIG. TENS. STRG'TH PSI	1800 Min	2089
ORIG. ELONG. %	300 Min	390
SET %	20 Max.	8.0
TEAR STRG'TH LB/IN.	30 Min.	31.0
AIR OVEN % ORIG. 168HRS TENS. STRENGTH 100°C	50 Min.	99
AIR OVEN % ORIG. 168HRS ELONGATION 100°C	50 Min.	51
OIL IMMERS. % ORIG. 18HRS TENS. STRENGTH 121°C	60 Min	87
OIL IMMERS. % ORIG. 18HRS ELONGATION 121°C	60 Min	89
COLD BEND 48HRS -40°C	No Cracks	NONE
TENSILE STRESS PSI	500 MIN	1030
SURFACE RESISTIVITY	Record	11000 MEGS
CABLE TRAY FLAME TEST	IEEE-383	
TIME OF BURN	20 Minutes	
SELF-SUSTAINING FLAME	No Propagation	NONE
LENGTH OF CABLE BURNED	Record	18 inches

IT IS HEREBY CERTIFIED THAT THE FOREGOING IS TRUE AND TYPICAL TEST DATA AND THAT THE ABOVE CABLE MEETS APPLICABLE REQUIREMENTS OF PROCUREMENT DOCUMENTS.

RESULTS IS

WITNESSES: M C Goldberg
Electrical Materials

B G Littlehales
MANAGER, QUALITY ASSURANCE

7/13/77
DATE

POOR ORIGINAL

838 011

NCR-1574

CERRO WIRE & CABLE CO.
DIVISION OF CERRO CORPORATION

ROCKBESTOS PRODUCTS
P.O. DRAWER 1102
NEW HAVEN, CONN. 06504
(203) 772-2250

CTR # 7

Pg 1 of 4

CERTIFICATE OF CONFORMANCE

Customer Bechtel Power Corporation
Purchase Order No. 7220-F-26-AC
Specification No. 7220-F-26 Rev2
Description 7/c #14 XLPE/NEO

Sales Order No. 048/5600
Shop Order/Item No. 64799-04
Product Code C53-3100
Quantity 53398 FT.

IT IS HEREBY CERTIFIED THAT THE ABOVE CABLE MEETS THE REQUIREMENTS OF THE FOLLOWING SPECIFICATIONS, IPCEA S-19-81, IPCEA S-66-524 and IEEE-383.

R.S. Littlehales
Manager, Quality Assurance

7/13/77
Date

POOR ORIGINAL

NCR-1574
22 of 25
23 of 28
35 AN 11-9-79
11-17-79

POOR ORIGINAL

CERRO WIRE & CABLE CO. DIVISION OF CERRO CORPORATION	ROCKBESTOS® PRODUCTS NEW HAVEN. CONN. 06504

CERTIFIED TEST REPORT

SHEET 2 OF 4

CUSTOMER BechTel Power Corporation

SPECIFICATION 7220-E-26 Rev 2

PURCHASE ORDER NO. 7220-E-26-AC

CONSTRUCTION 7/C #14 XLPE/NEO

CERRO SHOP ORDER NO. 64799-04

PRODUCT CODE C53-3100

SALES ORDER NO. 048/5600

CUST ITEM NO. 4

REEL NO.	LENGTH	O.D.	DIELECTRIC	INSULATION RESISTANCE min. @ 15.6°C	CONDUCTOR RESISTANCE max. @ 20°C
REQUIREMENTS:		.541 Max.	4.0 kv/ 5 min. (AC)	5258 Megs-M'	2.792 Ohms-M'
7A559	5400	.510	Passed	188082	2.705
T-10822	B-05408				
7A511	5150	.495	Passed	83708	2.670
T-10662	B-05494				
7A560	5400	.520	Passed	100710	2.696
T-05428	B-00008				
7A559	5415	.495	Passed	121155	2.790
T-05406	B-00004				
7A561	5435	.495	Passed	221096	2.756
T-10968	B-05458				
7A562	5100	.500	Passed	106997	2.699
T-05168	B-00062				
7B436	5350	.520	Passed	186340	2.751
T-05394	B-00004				

IT IS HEREBY CERTIFIED THAT THE FOREGOING IS TRUE TEST DATA AND THAT THE ABOVE CABLE MEETS APPLICABLE REQUIREMENTS OF PROCUREMENT DOCUMENTS.

DECW... 181

838 013

24 of 25
23 of 25
NCR 1574

35 KV 99.9%

WITNESSES: M C Holberg

[illegible]

[illegible] 7/31/--

POOR ORIGINAL

CERRO WIRE & CABLE CO.
DIVISION OF CERRO CORPORATION

ROCKBESTOS® PRODUCTS
NEW HAVEN, CONN 06504

CERTIFIED TEST REPORT

SHEET 2 OF 4

CUSTOMER BechTel Power Corporation

PURCHASE ORDER NO. 7220-E-26-AC

CERRO SHOP ORDER NO. 64799-0

SALES ORDER NO. 048/5600

SPECIFICATION 7220-E-26 Rev 2

CONSTRUCTION 7/c #14 XLPE/NEO

PRODUCT CODE C53-3100

CUST ITEM NO. 4

REEL NO.	LENGTH	O.D.	DIELECTRIC	INSULATION RESISTANCE min. @ 15.6°C	CONDUCTOR RESISTANCE max. @ 20°C
REQUIREMENTS:		.541 Max.	4.0 kv/ 5 min. (AC)	5258 Megs-M'	2.792 Ohms-M'
7A511	5458	.515	Passed	190102	2.784
T-05492	B-00009				
73H35	5300	.520	Passed	188654	2.766
T-10776	B-05416				
78435	5390	.520	Passed	191857	2.733
T-05410	B-00006				

SEQUENCE 181

IT IS HEREBY CERTIFIED THAT THE FOREGOING IS TRUE TEST DATA AND THAT THE ABOVE CABLE MEETS APPLICABLE REQUIREMENTS OF PROCUREMENT DOCUMENTS.

WITNESSES: M C Goldberg

838 014

D B Littlefield 7/13/...

Manager, Quality Assurance

35 of 38 EN 1-9-79 EN 1-10-79

24 of 25

NCR-1574

CERRO WIRE & CABLE CO.
DIVISION OF CERRO-MARMON CORP.

ROCKBESTOS PRODUCTS
NEW HAVEN, CONN. 06504

CERTIFIED TEST REPORT - FIREWALL III

POOR ORIGINAL

CUSTOMER Bechtel Power Corporation
SALES ORDER NO. 048/5600
PURCHASE ORDER NO. 7220-E-26-4C
SHOP ORDER/ITEM NO. 64799-04
SPECIFICATION NO. 7220-E-26-Rev2
PRODUCT CODE C53-3100
CONSTRUCTION 7/c #14 XLPE/NEO
CUSTOMER ITEM NO. 4

INSULATED WIRE	REQUIRED	ACTUAL
ORIG. TENS. STRG'TH PSI	1800 Min.	1831
ORIG. ELONG. %	250 Min.	475
VERTICAL FLAME-OUT BURNING OF INDICATOR	60 Secs. Max 25 % Max	0 0
AIR OVEN % ORIG. 168 HRS TENS. STRENGTH 121°C	75 Min.	145
AIR OVEN % ORIG. 168 HRS ELONGATION 121°C	75 Min.	94
HEAT DISTORTION % 1 HR @ 121°C	30 Max.	16.3
HEAT RESISTANCE 168 HRS @ 158°C	No Cracks	NONE
EM-60 DIEL. CONSTANT 24 HRS. @ 75°C	6.0 Max.	3.8
1-14 DAY SIC INCR. 14 DAYS @ 75°C	3.0 % Max	1.97
7-14 DAY SIC INCR. 14 DAYS @ 75°C	1.5 % Max.	.83
STABILITY FACTOR 14 DAYS @ 75°C	1.0 Max.	.25
ALTERNATE STAB. 14 DAYS @ 75°C FACTOR	0.5 Max.	.20
GRAVIMETRIC MG/SQ. IN. 168 HRS @ 158°C	10.0 Max.	4.7

CABLE & OUTER JACKET	REQUIRED	ACTUAL
ORIG. TENS. STRG'TH PSI	1800 Min	2096
ORIG. ELONG. %	300 Min	398
SET %	20 Max.	8.1
TEAR STRG'TH LB/IN.	30 Min.	34.0
AIR OVEN % ORIG. 168 HRS TENS. STRENGTH 100°C	50 Min.	96
AIR OVEN % ORIG. 168 HRS ELONGATION 100°C	50 Min.	59
OIL IMMERS. % ORIG. 18 HRS TENS. STRENGTH 121°C	60 Min	83
OIL IMMERS. % ORIG. 18 HRS ELONGATION 121°C	60 Min	91
COLD BEND 48 HRS -40°C	No Cracks	NONE
TENSILE STRESS PSI	500 MIN	1105
SURFACE RESISTIVITY	Record	10000 Ω-cm
CABLE TRAY FLAME TEST	IEEE-383	
TIME OF BURN	20 Minutes	
SELF-SUSTAINING FLAME	No Propagation	NONE
LENGTH OF CABLE BURNED	Record	18 inches

IT IS HEREBY CERTIFIED THAT THE FOREGOING IS TRUE AND TYPICAL TEST DATA AND THAT THE ABOVE CABLE MEETS APPLICABLE REQUIREMENTS OF PROCUREMENT DOCUMENTS.

DECONTROL 181

WITNESSES: M C Goldberg

Pauline Natiello

838 015

D G Liddicoat
MANAGER, QUALITY ASSURANCE

7/13/77
DATE

NCR 4-14-77

NCR # 1574
Page 26 of 26
27 OF ~~28~~ KN 1-17-79
35 KN 1-9-79

BECHTEL

Telephone call

ROUTE O. Thompson QA
B. Matthews

BY R.C Haller OF Bechtel QAE
TO Mike Schaeffer OF GGC QA
DATE Dec 1 19 78 TIME 8:15 AM
SUBJECT NCR # 1574 JOB NO.

Reference: Bechtel letter from P.A. Martino to D.B. Miller GGC Site Manager dated 11/29/78

Mike Schaffer of GGC QA stated that GGC would allow Bechtel to extend the conditional release for pulling cable outside containment as follows:

E-22 — 120 days, ending Mar. 31, 1979
E-26 — 45 days, ending Jan. 15, 1979

POOR ORIGINAL

Telex/TWX
western union

BECHTEL MIDL

BECHTEL ANN
313-223-6032 CLG 313-266-9497
TWX 4141 1/16/79 15:05

ATTN: L.A. DREISBACH

SUBJECT: CPCO/MIDLAND PLANT JOB 7220
P.O. 7220-E-26-AC
600 VOLT CONTROL CABLE
FILE: E-26-PR, 0460
REFERENCE: 1) NCR 1574
2) BLC-6350 DATED 11/29/78

THIS IS TO CONFIRM THAT THE RESULTS OF THE REQUALIFICATION TEST FOR THE SUBJECT CABLE (REFER TO ENCOLSURE OF REFERENCE 2) HAVE BEEN RECEIVED AND EVALUATED AS ACCEPTABLE. THE TEST RESULTS ARE CONTAINED IN VENDOR PRINT 7220-E-26-27-1. THIS DOCUMENT IS CURRENTLY BEING DISPOSITIONED BY PROJECT ENGINEERING AND WILL BE RETURNED TO THE VENDOR (ROCKBESTOS) WITH A STATUS LEVEL 3 "REVISE AND RESUBMIT, [redacted] OF CHANGES INDICATED". THE COMMENTS NOTED ARE MINOR AND DO NOT AFFECT THE OVERALL ACCEPTABILITY OF THE CABLE QUALIFICATION.

UPON INCORPORATION OF THE COMMENTS BY THE VENDOR, DISPOSITIONING OF THE E-26 PORTION OF THE REFERENCED NCR WILL BE COMPLETE. WE ANTICIPATE THAT THIS CAN BE ACCOMPLISHED BY FEBRUARY 19, 1979.

RL CASTLEBERRY
ANN ARBOR/7PE2113/7220-001/ER12

CORRECTION: 6TH LINE FIRST WORK SHOULD B READ VENDOR

BECHTEL MIDL

POOR ORIGINAL

TO MJSchaeffer

FROM DBMiller

DATE November 3, 1978

SUBJECT MIDLAND PROJECT GWO 7020 -
REQUEST FOR 30-DAY EXTENSION
File: 0460.3 Serial: 0044

Consumers Power Company

INTERNAL CORRESPONDENCE

CC

PAGE 29 OF 35

NCR 1574

I would like to request that you extend Bechtel Power's time limit for 30 more days on the following NCR's:

CPCo NCR's	Bechtel NCR
NCR #01-9-8-057A	1574
NCR #01-9-8-056A	
NCR #01-9-8-055A	

I discussed the problem with P. A. Martinez and he has agreed with me to expedite the resolution of these NCP's. My reason for asking an extension of 30 days is that we are about to start bulk cable pulling and do not wish to delay the work.

CONSUMERS POWER COMPANY
RECEIVED
NOV 3 1978
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

Consumers Power Company

Midland Project: P.O. Box 1963, Midland, Michigan 48640 - Area Code 517 631-0951

November 6, 1978

PAGE 30 OF 35

Mr. L. A. Dreisbach
Bechtel Power Corp.
P.O. Box 2167
Midland, MI 48640

NCR 1574

MIDLAND PROJECT - 30-DAY EXTENSION TO BECHTEL PROJECT FOR OBTAINING AND APPROVING CABLE QUALIFICATION DOCUMENTATION
File: 16.3.2 Serial: 284FQA78

Reference: (a) DBMiller to MJSchaeffer, dated November 3, 1978 - 0044

Based on the attached request, reference (a), from Consumers Project Management Organization, CPCo's Quality Assurance Engineering concurs in granting Bechtel a 30-day extension for obtaining and approving cable qualification data for cables procured under Purchase Orders E-21, E-22, and E-26 so that (Q) cable pulling may continue as scheduled.

CPCo Quality Assurance Engineering considers that the 30-day extension is more than ample for obtaining and approving the required documentation and recommends that Bechtel provide CPCo QA with weekly status reports so that CPCo can be assured that timely action is being taken to resolve the subject concerns.

By December 4, 1978, CPCo Quality Assurance Engineering shall determine from Bechtel Quality Engineering's review of the cable qualification data whether or not (Q) cable pulling shall continue out of containment only.

W. R. Bird M. J. Schaeffer for
Section Head - Quality Engineering, Midland

WRB/MJS

CC: WLBarclay, w/attach.
WRBird, w/attach.
TCCooke, w/attach.
JLCorley, w/attach.
GSKeeley, w/attach.
BWMarguglio, w/attach.
PAMartinez, w/attach.
JMilandin, w/attach.
WMoring, w/attach.
JFNewgen, w/attach.
DBMiller, wo/attach.

RECEIVED
NOV 06 1978
QUALITY CONTROL
BECHTEL QA 7220
SIGNATURE

838 019

ROUTE | QC 07220 | INIT.
1 PROJE
2 A PROJE
CIVIL
3 ELECT.
PIPING
WELDING
4 QCE
FIELD ENGRG
ADMIN ASST
Nuclear Test
Lab Supervr.
OPEN LOOP
☐ YES ☑ NO
DATE

Reference: 1) NCR 1574

A. P.O. 7220-E-21 (Kerite/5 kV power cable)

As per the previous status report, all items of the referenced NCR for this cable order have been resolved by engineering.

B. P.O. 7220-E-22 (Essex/600 V power cable)

As per the previous status reports, items 1 and 2 of the referenced NCR for this cable order have been resolved by engineering.

Item 6 has been resolved. The vendor has submitted supplemental information that demonstrates compliance with Paragraph 1.4.2.3 of IEEE Std. 383-1974.

Items 2A, 2B, 2C, 4 and 5 remain open. The procedure for the requalification test has been submitted and reviewed by engineering. Testing is commencing according to the following schedule:

a. Aging of specimens - Completed 1/2/79 (Actual)

b. Irradiation of specimens - Started 1/24/79 (Actual)
Completed 2/10/79 (Actual)

c. LOCA simulation - Start 2/16/79 (Forecast)
Complete 3/23/79 (Forecast)

d. Final Report - Issue 4/?2/79 (Forecast)

As indicated in the previous status report, Essex was to submit supplemental information from prototype aging tests to demonstrate a 40-year cable life at a 90c conductor operating temperature. The applicable test data for the Midland cable has been submitted and documented accordingly.

C. P.O. 7220-E-26 (Rockbestos/600 V control cable)

As per the previous status report, Item 1 of the referenced NCR for this cable order has been resolved by engineering.

Items 2, 3 and 4 have been resolved. As indicated in the previous status report, the requalification test was complete and the cable samples passed the post-LOCA functional tests. The final test report has been submitted and reviewed by engineering and is currently Status Level 1.

All items of the referenced NCR for this cable order are now resolved.

JCK/prg

830 020

Bechtel Associates Professional Corporation

Inter-office Memorandum

To P. Martinez

Date February 14, 1979

Subject Midland Plant Units 1 & 2
Job 7220
P.O. 7220-E-21, 5&8 kV Power Cable
P.O. 7220-E-22, 600 V Power Cable
P.O. 7220-E-26, 600 V Control Cable

From R.L. Castleberry

Of Engineering

At Ann Arbor

Copies to File: E-21-PR, E-22-PR, E-26-PR,
0294, 0460

J.B. Sullivan
L.A. Dreisbach
R. Baltazar
W. Moring
Com Log

PAGE 32 OF 35

NCR 1574

Reference: 1) Non-Conformance Report 1574

Enclosed for your information is a status report of the resolution of open documentation problems identified in the referenced NCR for the subject cable purchase orders. This report reflects the current status through the week of February 12, 1979.

All outstanding items for the E-26 cable order have been resolved. Therefore, dispositioning of the E-26 portion of the referenced NCR can now be completed.

The requalification testing of the E-22 cable is progressing favorably. Aging and irradiation of the test samples has been completed and the LOCA simulation is scheduled to start 1/16/79. Testing should be completed by 3/23/79 and the final report issued by April 22, 1979.

Based on this schedule, the earliest all documentation could be finalized is May 7, 1979. We note that the current expiration date of March 31, 1979 for the conditional release of the E-22 cable is not adequate to cover this schedule. However, no extension of the current expiration date is requested at this time.

for R.L. Castleberry

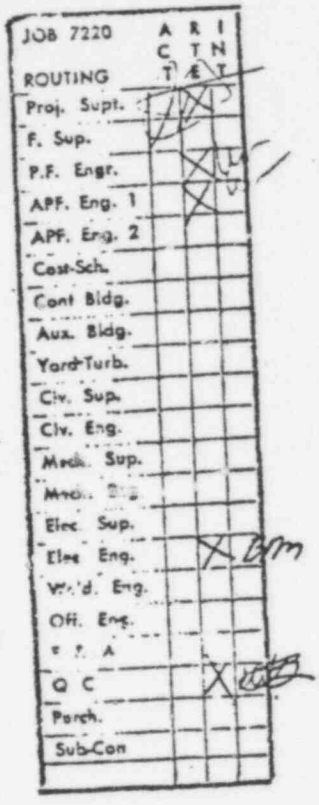
JGK/prg

Enclosure: Status Report: Week of February 12, 1979

ROUTE	INFO.	ACT.
LQAE		
CM		
PIPING		
SECY		
FILE NO.		

838 021

bc:
J. F. Newgen
R. L. Castleberry
W. G. Jones
L. A. Dreisbach
W. G. Moring
C. P. Wallis/G.G. Butler
E. A. Rumbaugh
R. Hermeston



RECEIVED
FEB 28 1979
BECHTEL POWER CORP.
JOB 7220
PER 20858(I)0705
26(I) E-21

February 23, 1979

BLC- 7207

PAGE 33 OF 35

NCR 1574

Mr. D. B. Miller
Site Manager
CONSUMERS POWER COMPANY
3500 East Miller Road
Post Office Box 1963
Midland, Michigan 48640

Midland Units 1 and 2
Consumers Power Company
Bechtel Job 722
CONDITIONAL RELEASE FOR CABLE PULLING
Files 2420/2801
References BLC-6850
NCR-1574

Dear Mr. Miller:

Enclosed for your information is an updated status report of the resolution of open documentation problems identified in the referenced NCR for the subject cable purchase orders (E-21, E-22, E-26). This report reflects the status through the week of February 12, 1979.

Resolution of the outstanding items is progressing favorably. However, Essex will require additional time to perform LOCA simulation testing and to finalize documentation,

Therefore, we request that an extension of the conditional release for pulling cable inside and outside containment be granted for E-22 extending to May 15, 1979, insofar as this NCR is concerned.

As you know, additional NCR's were prepared on an individual P.O. basis as part of the Environmental Qualification Test Status review. Status of the cable P.O.'s discussed at the jobsite on February 22, 1979 can be summarized as follows:

E-21 Notification that this item of NCR 1574 can be closed out has been provided.
NCR 1753 has been dispositioned by Engineering.

E-22 NCR 1754 issued with a conditional release granted.

Bechtel Associates Professional Corporation

Inter-office Memorandum

To P. Martinez

Date June 28, 1979

Subject Midland Plant Units 1 & 2
Job 7220
P.O. 7220-E-21, 5 & 8 kv
Power Cable

From R.L. Castleberry

Of Engineering

At Ann Arbor

Copies to P.O. 7220-E-22, 600V Power Cable
P.O. 7220-E-26, 600V Control Cable
File: E-21PR, E-22PR, E-26PR,
0294, 0460

PAGE 34 OF 35

J.B. Sullivan
L.A. Dreisbach
R. Baltazar
W. Moring
Com Log

NCR 1574

Reference: Non-Conformance Report 1574

Enclosed for your information is the final status report of the resolution of open documentation problems identified in the referenced NCR for the subject cable purchase orders. This report reflects the current status through the week of June 25, 1979.

All outstanding items for the E-22 cable order have been resolved. Therefore, dispositioning of the remaining portion of the referenced NCR can now be completed.

R.L. Castleberry

CS/jt
6/26/2

Enclosure: Status Report: Week of June 25, 1979

Job 7220-QA-Received 7/2/79
Log No. 00 File No. 11
Response Req'd NO Date
QA Action Item No.

Route	Info	Act	Comment
PQAE	NO		
Resp. Cor			
Elect (1)	NA		
Elect (2)			
Civil/Mch			
Pipe/Weld			
Inst.			
Trn Ovr			
Trend			
Sect.			

838 023

Status Report: Week of June 25, 1979

Reference: 1) NCR 1574

PAGE 35 OF 35

NCR 1574

A. P.O. 7220-E-21 (Kerite/5 & 8 kV Power Cable)

As per the previous status reports, all items of the referenced NCR for this cable order have been resolved by engineering.

B. P.O. 7220-E-22 (Essex/600V Power Cable)

As per the previous status reports, Items 1, 3, and 6 of the referenced NCR for this cable order have been resolved by engineering.

Items 2A, 2B 2C, 4, and 5 have been resolved. The requalification test has been completed. The test report has been submitted and reviewed by engineering and is currently Status Level 2.

All items of the referenced NCR for this cable order are now resolved.

C. P.O. 7220-E-26 (Rockbestos/600V Control Cable)

As per the previous status reports, all items of the referenced NCR for this cable order have been resolved by engineering.

833 024

Mat

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
Midland	07220	1592	1 OF 1

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
1&2	7220-E-21-6.4.2	7	4/0 Triplex cable	Turb. bldg. el. 634'

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
E-21 Rev. 7	See blk.16	P/N N/A REV N/A SER NO. N/A	Supplier	Kerite Co.

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-21 Rev. 7	( ) YES (X) NO	( ) YES (X) NO	( )Rec'g (X)Const ( )Test	( )Client (X)Eng ( )FLD

16. NONCONFORMING CONDITION: Spec. E-21-6.4.2 states insulation shall be not less than 90% of the required thickness. Contrary to this, the last 500' on Reel #7220-E-21-AC-1A-H-1977 had imperfections in the insulation, which were impressions of the preceding layer of cable. This condition was brought to Electrical QC's attention by Electrical Field Engineering in their use of this cable in a non-Q situation. Q-list #3.105. 1 Hold tag applied. Hold for engineering disposition.

17. REPORTED BY [signature] DATE 10-18-78

18. VALIDATED BY [signature] DATE 10-19-78

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

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

Distortion of cable jacket was caused by outer layer of cable compressing inner cables. Vendor was contacted on this matter and indicated this situation is relatively common and isnot permanent. Cable may be used as is.

[signature] 7/3/79

23. PROJECT ENGINEERING DISPOSITION: Project Engineering concurs with the Field Engineering disposition. The cable may be used as is.

P. Colwell 7/3/79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

[signature] 7/3/79
PROJECT FIELD ENGINEER DATE

[signature] 7/3/79
PROJECT ENGINEER DATE

[signature] 7-3-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

CONCUR WITH FIELD AND PROJECT ENGINEERING'S DISPOSITION.
7-16-79 [signature]

26. QC ACCEPTANCE [signature] 7-16-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

8338 025

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 07220				19. NO. 1758	20. PAGE 1 OF 2
2. UNIT(S): 1&2	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: 7200 & 4160 Volt Switchgear		5. ITEM LOCATION: N/A	
6. P.O. OR SPEC NO.: E-205 - 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: ITE Imperial		
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. E-205.

Q # 3.101. No hold tags applied.

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

PROJECT FIELD ENGINEER — DATE 1-13-79

PROJECT ENGINEER — DATE 1-13-79

PROJ CONSTR QC ENGINEER — DATE 1-23-79

AUTHORIZED INSPECTOR — DATE

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Robert K Story	1-9-79	W Barclay	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

B. Matthews 1-12-79

23. PROJECT ENGINEERING DISPOSITION — Use as is -

Open questions on the QTR have been resolved as follows:

Q. IEEE 323-1971 was not addressed in either the specification or the test report. However, the hardware was certified to the applicable ANSI standards. The flame test on the wire per section 6.5 of IPCEA S-61-402 is covered by the bill of material identifying type and make of wire used. No test or certification documentation was requested on G321D. Type of wire used was SIS GE vulkene, note 5, bill of material.

25. DISPOSITION RESULTS

26. QC ACCEPTANCE — QC ENGINEER — DATE 2-5-79

AUTHORIZED INSPECTOR — DATE

8308020026

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. Miller ASB 1-12-79
PFE Date

D.B. Barclay 1-12-79
PFQCE Date

E. Smith 1-12-79
for LQAE Date

A. 1) Specification E-205 was revised to reflect IEEE 323-1971 standards requirement (Ref: E-205 specification rev. 8).

2) Documentation of IEEE 323-1971 has been submitted by the vendor and found acceptable (Ref: Vendor Print #7220-E205-467-1 currently status code 2).

3) Test certification for IPCEA S19-81, IEEE-383 and UL44 for wire flammability was submitted by the vendor (Ref: Vendor Print #7220-E-205-467-1 Page 14). This certification exceeds the requirement of IPCEA S61-402.

Kovach 7-12-79
RESPONSIBLE ENGINEER Date

7/12/79
EGS Date

R.Z. Baltazar 7-12-79
PQE Date

838 027

Rev 0
5/41-ECA-1-5

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 7220					19. NO. 1798	20. PAGE 1 OF 2
2. UNIT(S): 1	3. DRAWING/PART NO.: Bechtel M-616-8 / F4 MFR 2489	REV: 9F-1	4. ITEM DESCRIPTION: 10" Control valve ITV-16213 (Tag # 41C-1-34)			5. ITEM LOCATION: 9' S½" w/o. 2 13' 9" S/B	Aux Bldg
6. P.O. OR SPEC NO.: 7220 F-258 AC	7. SERIAL NO.: BF226291	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 P1.30.616.8.3 NO M-204 Rev 9	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: Technical Specification M-204 rev 9, 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 this the Following items have been damaged on control valve ITV-16210: 1) The instrument, output, and supply pressure gages are bent with the indicator needles missing and lens's missing. 2) The output sensing line

17. REPORTED BY: E Urbanowicz DATE: 1-9-79 | 18. VALIDATED BY: W Farley DATE: 1/9/79

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

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

Instrument pressure gauges shall be replaced. Damaged tubing to be replaced just prior to putting valve in service.

Not a non-conformance. Instrument ~~tubing~~ is Non Q. Repairs to be made at later date

V L Gerdes 2-5-79

~~23. PROJECT ENGINEERING DISPOSITION~~

V L Gerdes
6-15-79

23. Project Engineering Disposition

Project Engineering concurrs with field engineering disposition.

J M Clinton
6-19-79

24. DISPOSITION CONCURRENCE: N/A

rework	reject	repair	use as is
			(X)

PROJECT FIELD ENGINEER DATE 6/20/79
PROJECT ENGINEER DATE 6-19-79
PROJ CONSTR QC ENGINEER DATE 6-19-79
AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Removed QC Hold Tag. E.U. 7-7-79

26. QC ACCEPTANCE E Urbanowicz 7-7-79
QC ENGINEER DATE
AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

838 028

Block 16. (cont)

is kinked and gouged. 3.) Pneumatic supply tubing is dented.

Q list # is 4.166

One (1) QC Hold Tag applied

Hold For Engineering Disposition

POOR ORIGINAL

NONCONFORMANCE REPORT (CONT'D)

19. NCR NO. 1798

24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS
			XX

PROJECT FIELD ENGINEER — DATE

See block #24 - Page 1

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

POOR ORIGINAL

NONCONFORMANCE REPORT

Std Non-Testable Unit

1. PROJECT NAME: Midland Units 1 & 2	JOB NO. 7220			19. NO. 1865	20. PAGE 1 OF 2
2. UNIT(S): Cont#1	3. DRAWING/PART NO.: E-656	REV: 7	4. ITEM DESCRIPTION: Seismic Conduit Supports		5. ITEM LOCATION: El. 635' Cont. # 1
6. P.O. OR SPEC NO.: N/A	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N ____ REV ____ SER NO. N/A	9. SOURCE: Const.	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA (X) DWG ( ) SPEC ( ) OTHER IR NO. C-304-751 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 ( )Eng (X)FLD	

16. NONCONFORMING CONDITION:

Field procedure FPD 1.000, paragraph 2.1.3 states: All field engineers & 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 this the support for conduit, numbers 1ALC020, 1ALC013 and 1AVA016 were welded to cont.#1 struc. beams between col. #1 & 2 at El. 635' AZ-0°-90 without a project approved drawing.

17. REPORTED BY: John C. Braun DATE: 2-7-79

18. VALIDATED BY: W. T. Barclay DATE: 2/7/79

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

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

Support will be installed per type 521 shown on conduit support request no. E-70.

Wm Commander 2-23-79
B. Matthews 2-23-79

23. PROJECT ENGINEERING DISPOSITION: Project engineering has reviewed this NCR. Support to be installed per type 521, DCN# 56 E-42, Rev. 38. Field to use only approved DCN's or REM's, which reflect an advanced copy of the DCN covering the support (s) in question, for construction.

J. Lahr 3-8-79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

W. Miller ASB 3-8-79 — PROJECT FIELD ENGINEER / DATE

R. Baumhefner 3-8-79 — PROJECT ENGINEER / DATE

W. T. Barclay 3-9-79 — PROJ CONSTR QC ENGINEER / DATE

AUTHORIZED INSPECTOR / DATE

25. DISPOSITION RESULTS: Installation approved by project Engineering. NO further inspection necessary.

7-12-79 DC Squires

26. QC ACCEPTANCE: DC Squires 7-12-79 — QC ENGINEER / DATE

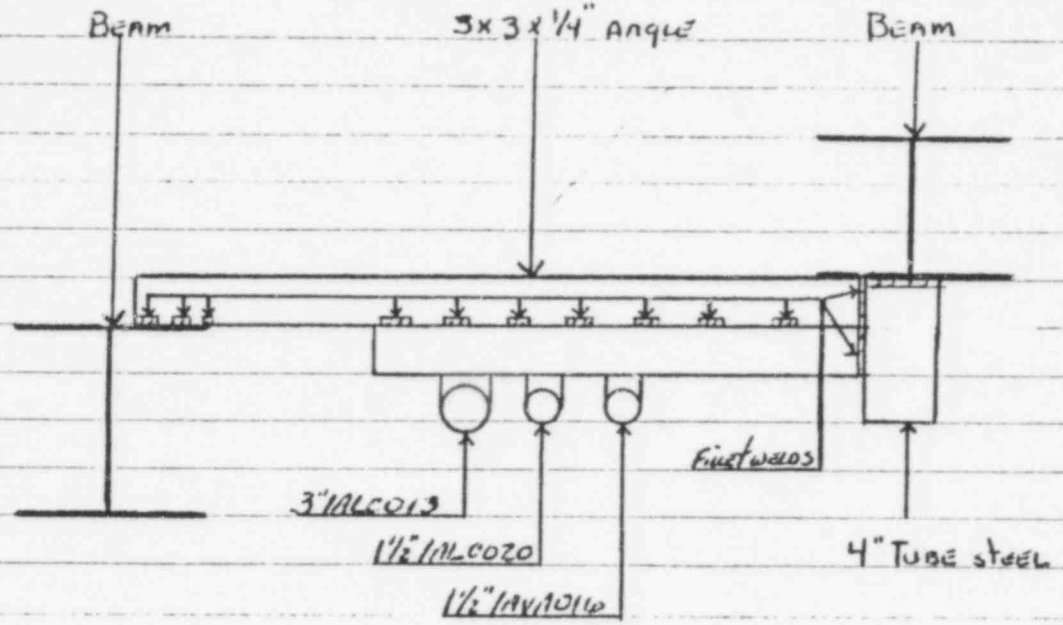
AUTHORIZED INSPECTOR / DATE

CPS 3-8-79

SRB PLC 3-8-79

8308 031

16. Hold for engineering disposition, 1 hold tag applied.



LOCATED BETWEEN COL. #1 & #2,
LOOKING EAST.

POOR ORIGINAL

NCR # 1865
393

MIDLAND PROJECT

RESIDENT ENGINEER MEMORANDUM

RE- E-1425

DATE 3-8-79

SUBJECT: SEISMIC SUPPORTS (CONDUIT)

REF: NCR 1865

AAO COORDINATION: Date 3-8-79 /Time 8:30 /AAO Contact R. HARRISON
R. SCHNIZLEIN

PROJECT ENGINEERING APPROVES USE OF TYPE 521 SUPPORT. DCN #56 E-42 REV 38 ISSUED TO INCORPORATE TYPE 521 SUPPORT.

838 033

RESIDENT ENGINEER J. Lake
3-8-79

AAO Review: Group Supervisor _____

Date: _____

NONCONFORMANCE REPORT

Start up - Non testable Unit

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 1929	20. PAGE 1 OF 3
2. UNIT(S): 1	3. DRAWING/PART NO.: E-616, Sh. 1	REV: 9	4. ITEM DESCRIPTION: Trays: 1BTE03, 1BJG01, 1BTA05, 1BJF03	5. ITEM LOCATION: Aux. Bldg 614', 5.6 to 5.9, HtoHK	
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. 1BJG01, 1BTE03 NO. 1BTA05, 1BJF03	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:

Welding detail for attaching vertical tray to a horizontal support is specified per detail 4C, E-703, Rev. 9. This detail calls for two welds per rail. Contrary to the above, trays 1BTE03, 1BJG01, 1BTA05, and 1BJF03 have been installed with only one weld per rail, just below 634' 6". Some cable has already been pulled in this tray.

"Q" list 3.005

4 "HOLD" tags applied Hold for Engineering disposition

17. REPORTED BY: C A Cameron DATE: 3/1/79

18. VALIDATED BY: K D Barclay DATE: 3/5/79

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

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

~~Rework- Insulate the cables which have been pulled adequately to prevent damage and complete welding of the trays in accordance with the detail specified.~~

K D Barclay 3/12/79

REPAIR - REPLACE TOP OF RAIL WELD, AS CALLED FOR BY

23. PROJECT ENGINEERING DISPOSITION (CONT. ON PAGE 2)

Project engineering has reviewed the attachment detail shown on page 2 of this NCR. The weld size and configuration are sufficient to provide an equal substitute for the designed detail. Therefore, project engineering recommends no repair as shown on page 2.

R Schulman 6/29/79 HC 6/29/79

L Harrison 6/25/79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

J D Dilworth 6/28/79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

~~K D Barclay 3/13/79~~
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Trays have been welded per project engineering disposition

C A Cameron 7-3-79

26. QC ACCEPTANCE C A Cameron 7-3-79
QC ENGINEER DATE

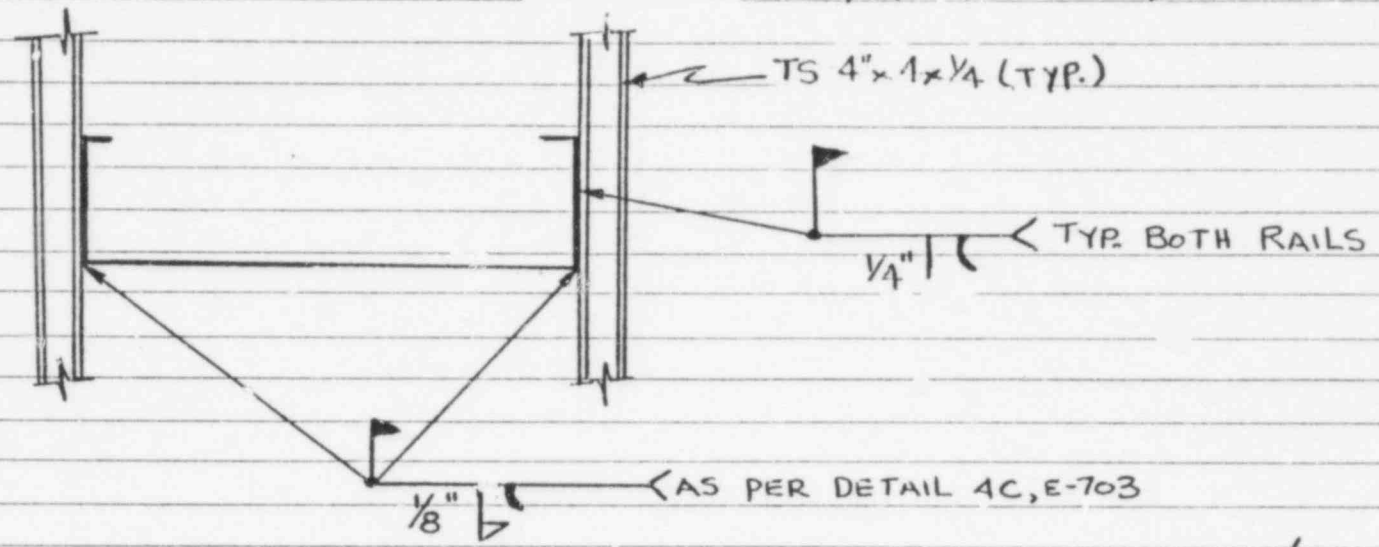
AUTHORIZED INSPECTOR DATE

See continuation sheet

8303034

BLOCK 22. (CONT.)

DETAIL 4C, DWG. E-703. THIS LOCATION IS INACCESSIBLE. IN ITS PLACE, WELD ON EITHER SIDE OF TUBE STEEL AS PER DETAIL BELOW.



P.S. Bentes
6/24/79

800 035

NONCONFORMANCE REPORT (CONT'D)

19. NCR NO. 1929

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
		X	
PROJECT FIELD ENGINEER		DATE 6-29-79	
PROJECT ENGINEER		DATE 6-29-79	
PROJECT CONSTR QC ENGINEER		DATE 6-29-79	
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	

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	

7220-QC 38 Rev. 0 3-26-79

823 036

NONCONFORMANCE REPORT

S/U 1-ABA

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 1946	20. PAGE 1 OF 1
2. UNIT(S): # 1	3. DRAWING/PART NO.: M-631-Sh 1	REV: 3/F2	4. ITEM DESCRIPTION: Spool 1-ELB-10-S-631-1-7	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. 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: PQCI 7220/W 1.00 Rev. 7 general instructions, item scope, Para. "b" ---- fillet and other attachment welds shall be identified by individual weld number on the QCI inspection record (IR) W 1.00 B, or by a specifically defined group of welds through referance to a marked up drawing or sketch attached to the QCI inspection record (IR) W-1.00B.

Contrary to the above, spool #1ELB-10-631-1-7 was welded to and attachments removed without an open QCIR and filler material withdrawel slip WR-6 form.

17. REPORTED BY: J. C. Peterson DATE: 3/9/79

18. VALIDATED BY: D. W. Barclay DATE: 3-9-79

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

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

Repair- as follows: 1) grind out areas where temporary attachments were welded 2) ~~Nital acid etch the areas to insure all weld deposits were removed~~ PT per PSB 5/31/79 3) Liquid penetrant test the areas to insure ~~XXXXXXXX~~ the areas are free of surface defects 4) ~~XXXXXX~~ Reweld the area using ~~qualified welding procedures~~ and personnel 5) Perform radiographic examination on the repaired areas to insure the final

23. PROJECT ENGINEERING DISPOSITION

P.S. Byrnes 6/1/79
6/31/79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
		STD	

PROJECT FIELD ENGINEER: J. G. Swanberg DATE: 6/9/79

PROJECT ENGINEER: [illegible] DATE: 6-1-79

PROJ CONSTR QC ENGINEER: D. W. Barclay DATE: 6-7-79

AUTHORIZED INSPECTOR: H. W. Retherford DATE: 5/23/79

6/19/79

25. DISPOSITION RESULTS

Repair Completed per disposition Block 22 Results satisfactory Hold Tag Removed. William Smith 7-17-79

26. QC ACCEPTANCE: William Smith 7-17-79
QC ENGINEER DATE

H. W. Retherford 7-26-79
AUTHORIZED INSPECTOR DATE

8330037

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 2 19NCR NO 1946

Hold for Engineering Disposition. 1 HOLD TAG APPLIED QNo. 4.312

Block 22 Con,t.

product meets the necessary requirements.

Conditional release is granted to install spool and continue work up to but not including DX HYDROTESTING ~~hydrotesting~~ corrections or removal can be accomplished without causing damage or contamination to associated equipment or stucture.

PFE 6/19/79 DATE

PFQCE DATE

PQAE 6-19-79 DATE EERX

838 038

Clat

NONCONFORMANCE REPORT 5/11 Non-Testable Unit

1. PROJECT NAME: Midland Units 1 & 2	JOB NO. 7220			19. NO. 1949	20. PAGE 1 OF 1
2. UNIT(S): Cont #1	3. DRAWING/PART NO.: ~~N/A~~ C-601B (5)	REV: N/A	4. ITEM DESCRIPTION: Welding of conduit support	5. ITEM LOCATION: El. 640-approx. 120°	
6. P.O. OR SPEC NO.: C-111 (11)	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. 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:

Per. F.C.R. C-1690: No supports shall be attached to thickened portions of the liner plate without prior engineering approval. Contrary to the above two conduit supports were welded to the thicken portion of the personnal air lock.

Hold for engineering disposition. 1 hold tag applied.

17. REPORTED BY: J C Braun DATE: 3-12-79

18. VALIDATED BY: D E Barclay 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

Conduit support outlined in block 16 will be removed.

W. S. Harper 3/26/79

Area to be examined by welding engineer ing after removal and repaired if necessary in accordance with spec. 7220-C-111.

Paul A. Doguen 3-30-79 D E Barclay 3/30/79

23. PROJECT ENGINEERING DISPOSITION

Project engineering has reviewed the existing condition, concurs with field engineering's disposition, and recommends that the supports refered to in block 16 be removed and the area be examined and repaired, if necessary, in accordance with Section 7.1.6, Spec. C-111.

David H. Chyo 4-23-79 REM # C-2190

DRM RS 4/24/79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
X			

W. Jones 335 4-26-79
PROJECT FIELD ENGINEER DATE

L R Baumstu/RLC 4-24-79
PROJECT ENGINEER DATE

D E Barclay 5-2-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

The support was removed and the area examined by visual and P.T. to determine compliance to the disposition.

D C Squires 7-16-79

26. QC ACCEPTANCE

D C Squires 7-16-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

8308 0390

Corrected Copy

Alat

NONCONFORMANCE REPORT

S/A Non-testable Unit

1. PROJECT NAME	JOB NO.			19. NO. 1957	20. PAGE 1 OF 1
Midland	07220				
2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION	
I & II	E-607 (Q)	13	Conduit - 3" GRS	Aux. Bldg. El.-568'	
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. 2BA013 NO. E-42, Rev. 38	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:

Conduit ~~2BA013~~ - 3" GRS is entering pull box ~~2BJ346~~ and at the point where the conduit enters the box there is a 3" EMT set screw connector that is marked on the side EMT "Only". This ~~is~~ is in violation of E-42, Rev.38, Sheet 9, Rev. 3 and Sheet 10, Rev. 13. This conduit is located at El.-568' between 6.6 and 6.9 and between lines F and G.

Q-List 3.006 One (1) Hold Tag Applied Hold for Engineering Disposition

17. REPORTED BY — DATE 3-13-79

18. VALIDATED BY — DATE 3-15-79; 3-13-79

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

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

The EMT connector will be changed out and proper connector will be used.

Raymond D Scheuffele 3/19/79
B. Matthews 3-19-79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
X			

C. J. Deese 3/19/79
PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

W.S. Barclay 3/21/79
PROJ CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

EMT connector has been replaced with a Rigid connector. Hold tag Removed.

7-14-79 R.C. Spulies

26. QC ACCEPTANCE

R.C. Spulies 7-19-79
QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

POOR ORIGINAL

8303040

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NONCONFORMANCE REPORT

NON-TESTABLE UNIT

1. PROJECT NAME	JOB NO.	19. NO. 1959	20. PAGE 1 OF 2
Midland Units 1 & 2	7220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
#2	C-627 Q	5	Embeds	See continuation sheet

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
(X) DWG ( ) SPEC ( ) OTHER IR NO. C-304-601 W NO.	( ) YES (X) NO	( ) YES (X) NO	( ) Rec'g (X) Const ( ) Test	( ) Client ( ) Eng (X) FLD

16. NONCONFORMING CONDITION: QC released concrete placement on 3/6/79 verifying the fact that all welding was complete. After pour was released on 3/6/79 FCR C-92 was issued for additional welding in area of concrete placement. On 2nd shift 3/6/79 WR-6 issued for welding to QCIR C-304-601W for fabrication of embeds on dwg. C-627 FCN-C92. Concrete was placed morning of 3/7/79 without welding engineering or QC being notified for final inspection.

Hold for engineering disposition. No hold tags requ[illegible]. Q No. 1.102

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Glen Guy Savoie	3-14-79	C Barclay	3-15-79

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

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

The field recommends grinding a 3/16" deep slot across the welds and visually inspecting the welds for the specified weld penetration. All slots and any deficient welds are to be repaired per spec. C-304, Rev.5, Para. 11.2.

D. Hellums 4/9/79 K Barclay 4/12/79

Hoit 4/11/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
X			

J J Dilworth JAB 4/11/79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

C W Barclay 4-24-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Cosmetic Repair of Area due to grinding of defective welds witnessed and documented on FIR 76-78 B. Kim

CONT'D ON PAGE 2

26. QC ACCEPTANCE
Robert Peterson 7-6-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

040 028

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 2 19NCR NO 1959

5. Item location

Containment # 2, Elevation 659' approx. 40' east of reactor bldg center point to center of embed assembly.

Block 25 continued: Welds were slotted and inspected in accordance with block 22 disposition. Of the 11 welds in question, 4 were found to be acceptable and 7 were found to be unacceptable. The 7 unacceptable welds were completely ground out and re-welded to meet or exceed the original requirements in accordance with C-304, Para. 11.2. All slots were repaired in accordance with C-304. All welds were accepted and documented on QCIR #C-304-601W.

Joe A Johnson
7/6/79

8303 042

SH # 1BCA Alat

BECHTEL

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO. 1998	20. PAGE 1 OF 2
MIDLAND	7220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
1	JBI-0035 SH 1 OF 2	0	As built condition conflicts with design Dwg	Aux Bldg - Lev 565'

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 [X] SPEC ( ) OTHER IR NO. I-10 IPT-10218 ; NO. J218	[X] YES ( ) NO	( ) YES [X] NO	( ) Rec'g [X] Const ( ) Test	( ) Client [X] Eng ( ) FLD

16. NONCONFORMING CONDITION: Specification J218 Section 5.3.2 states in part, " Isometric drawings shall be prepared for each installation in complete detail, identifying all materials and welded or Flareless connections, as required. Contrary to this the as built condition of tubing and Fittings For instrument No IPT-10218 reflects the addition of a 3/8" ss welded union, a Field bend, a dimensional change and the relocation of

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
E. Urbanowicz	3-22-79	[illegible] 3-23-79	3-26-79

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

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

Tubing and fittings will be reworked to conform to JBI-0035(Q) Sh.1 of 2, Rev.1

V R Gooden 4-20 79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

K Nunn ASB 4-20-79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

E O'Hare Ley 4-26-79
PROJ CONSTR QC ENGINEER DATE

H W Kohuth 5-2-79
AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Rework is complete I.A.W. Dwg: FSK-JBI-0035 Sh 1 Rev 1.

E. Urbanowicz
7-11-79

26. QC ACCEPTANCE

E Urbanowicz 7-11-79
QC ENGINEER DATE

WHM Dwyer 7-11-79
AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

Field welds 12 and 13 between engineering reference points A-20 and A-22 on Dwg: FSK-JB1-0035 (Q) Sh 1 of 2 Rev 0, Without Engineering approval.

1 Hold tag applied.

Q list No 5.034

POOR ORIGINAL

alat

NONCONFORMANCE REPORT

IEGA

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
MIDLAND	7220	2011	1 OF 1

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
1	M-616-8	10/F1	1-HBC-123-616-8-3	Warehouse #1 QC Hold Area Aux Bldg 584' Elev. WCB 3-30-79

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	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	PI.10-616-8-7 7-5-79 NOM-204 Rev 9 7-5-79	( ) YES (X) NO	( ) YES (X) NO	( )Rec'g (X)Const ( )Test	( )Client (X)Eng ( )FLD

16. NONCONFORMING CONDITION: Spec. M-204, Rev 9, 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, the 16" Flg. on spool 1HBC-123-616-8-3 is heavily pitted on the gasket seating surface. This deficiency leaves the integrity of the Flg. seating surface indeterminate.

Q# 4.16 One Q.C. Hold Tag Applied to the Flg.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
L.W. Mansfield	3-28-79	3-29-79 J.B. Barclay	3-29-79

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

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

Re-machine the flange face to remove surface damage and restore a surface finish of 150-250 microinches. Machine marks are to result in a phonographic or concentric serrated finish. No radial tool marks are allowed. Ron Murphy D. Shat 4/9/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

J.D. Marshall 4/9/79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

J.B. Barclay 4-9-79
PROJ. CONSTR QC ENGINEER DATE

H.W. Kelton Jr. 4-9-79
AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

REWORK ACCOMPLISHED IAW BLOCK # 22 REINSPECTED AND FOUND TO BE ACCEPTABLE ON 6-4-79 DK 7-5-79

26. QC ACCEPTANCE D. Kenders 7-5-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

8003 045

NONCONFORMANCE REPORT

S/A O-KCA

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
Midland Units 1 & 2	7220	2032	1 OF 1

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
1	658-14	2/F1	Leak Chase	TZ50 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	M658-14-(1)R1 NO.	(X) YES ( ) NO	( ) YES (X) NO	( ) Rec'g (X) Const ( ) Test	( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION: Installation of leak chase on drawing M 658-14 FW 2 on QCIR M658-14 (1) R1 requires welding with P1-A-LH Rev 2 procedure. Contrary to the above welding completed with E-309 electrode and is in violation of the welding procedure.

Hold for Engineering Disposition. 1 Hold tag applied

17. REPORTED BY: Ernest Fryman DATE: 4/3/79

18. VALIDATED BY: R.L. Barclay DATE: 4-4-79

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

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

Rework: Remove existing weld which was made using the incorrect weld filler mat'l using care not to infringe on the base mat'l thickness. Reweld using the proper weld procedure, P1-A-Lh Rev.2, and weld filler mat'l E-7018.

K.L. Bricker 4/9/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
		STD	

J.D. McQuade 4/9/79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

R.L. Barclay 4-11-79
PROJ CONSTR QC ENGINEER DATE

H.W. Kelton Jr. 4-13-79
AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS
Rework completed per disposition - Block 22 - SATISFACTORY - 1 Hold Tag removed
E. Fryman 7/18/79

26. QC ACCEPTANCE 7/18/79
QC ENGINEER Ernest Fryman DATE
~~AUTHORIZED INSPECTOR~~ ~~DATE~~

W.

C-3 046

Start Up Code: Non-Testable Unit

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.			19. NO. 2033	20. PAGE 1 OF 4
Midland	7220				
2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION	
1 & 2	N/A	N/A	Instrument and Special Purpose Cable	Poseyville	
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	
7220-E-60	N/A	9357	Supplier	Rockbestos	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. R-1.00-9309 NO. E-60	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 E-60 Rev. 1 requires complete Quality Verification Documentation according to Form G-321-D. Contrary to the above, no Quality Verification Documentation was received on P.O. Item 305 and 309 for material listed on MRR 9357. On P.O. Item 107 Shop Inspector failed to sign off in column 9 on G-321-D for material listed on MRR 9309. "Q" number is indeterminate. 28 hold tag(s) applied to nonconforming item(s).

17. REPORTED BY [signature] DATE 4/4/79

18. VALIDATED BY [signature] DATE 4-4-79

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.

S. J. Ferguson 4/9/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
DCC			

[signature] 4-6-79
PROJECT FIELD ENGINEER DATE

[signature] 4-12-79
PROJECT ENGINEER DATE
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Proper documentation Received AND Reviewed ON MRR 9309 AND Accepted. [signature] 7/16/79

Proper documentation Received AND Reviewed ON MRR 9357 AND Accepted [signature] 7/31/79

26. QC ACCEPTANCE [signature] 7/31/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

4/4/79

Block 16 Con't.

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.

A. Nunn ASE 4-4-79
PFE DATE

PFQCE 4-4-79
DATE

RCH L. Smith 4-4-79
PQAE for L.A. Trevibach DATE

western union
telex / TWX

10/4(I)
BBBC

BECHTEL MIDL

WU INFOMASTER 1-042332M075 03/16/79
TWX BECHTEL SF
042 SAN FRANCISCO CA CHG:7220 SXB1035
TWX 8102669497 BECHTEL MIDL

ATTN: J F NEWGEN, BPC, MIDLAND, MI
R L CASTLEBERRY, BPC, ANN ARBOR, MI
P.O.#
7220-E-060

REV #
2

SUPPLIER
ROCKBESTOS

CITY
EAST GRAMBY

STATE
CT

P.O. ITEM	QTY	DESCRIPTION	ID NUMBER
I07	121,213 FT.	2 CONDUCTOR #16 SHIELDED CONTROL CABLE REEL #G9735, G9738, G9754, G9749, G9751, G9752, G9739, G9852, G9853, G9855, G9858, G9860, G9877	
I07	42,010 FT.	2 CONDUCTOR #16 SHIELDED CONTROL CABLE REEL #G9866, G9864, G9871, G9862	

DATE RELEASED FOR SHIPMENT: 3-16-79

WITH THE FOLLOWING EXCEPTIONS: SDDR'S #885, 906, 932, 958, 966 AND 1085.
X SUPPLIER'S STATEMENT OF CONFORMANCE FOLLOWS BY MAIL
DOCUMENTATION PACKAGE MAILED TO JOBSITE WITH MATERIAL AND TO ENGINEERING ATTN: QC ENGINEER ON 3/16/79.

D L HARTMAN FOR A. SYCHEVSKY
3/16/79/1434

1811 EST

BECHTEL MIDL

MK # 2033
3 of 4

838 049

db
4/4/12

Telex/TWX
western union

BGBC 18950

BECHTEL MIDL

WU INFOMASTER 1-011898M079 03/20/79
TWX BECHTEL A SFO
009 SAN FRANCISCO CA CHG:7220 8XB1035
TWX 8102669497 BECHTEL MIDL

ATTN: J F NEWGEN, BPC, MIDLAND, MI
R L CASTLEBERRY, BPC, ANN ARBOR, MI

P.O.#	REV #
7220-E-60AC	2

SUPPLIER	CITY	STATE
ROCKBESTOS	NEW HAVEN	CT

P.O. ITEM	QTY	DESCRIPTION	ID NUMBER
S09	22540 FT	12 CONDUCTOR #14 PLUS 4 CONDUCTOR #16 SHIELDED COMPOSITE CABLE, REEL #B2859, B2940, B2874, B2875, B2969, B2970, B2882	

DATE RELEASED FOR SHIPMENT: 3-19-79

WITH THE FOLLOWING EXCEPTIONS: SDDR #958, 1058, 966, 932, 906 & 885
X SUPPLIER'S STATEMENT OF CONFORMANCE FOLLOWS BY MAIL
X DOCUMENTATION PACKAGE MAILED TO JOBSITE WITH MATERIAL & TO ENGINEERING ATTN: QC ENGR.

ANTHONY SYCHEVSKY
3-20-79/0706

1119 EST

BECHTEL MIDL

NRC # 2033
4 of 4

POOR ORIGINAL

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.			19. NO. 2043	20. PAGE 1 OF X
Midland	07220				
2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION	
Common	N/A	N/A	Grout Testing	Aux. Bldg. Elev.674'	
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		Sub-contractor	U. S. Testing	

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-1.81-186 NO. A-14 Rev.2	( ) YES (x) NO	( ) YES (x) NO	( )Rec'g ( )Const (x)Test	( )Client ( )Eng (x)FLD

16. NONCONFORMING CONDITION:

Spec. A-14 Rev. 2 section 12.2.2 states in part that ... Field Testing of Grout shall be taken every third successive working day.

Contrary to the above, a Grout Test was taken on 3/26/79, represented by #SP755, and again on 3/30/79 - #SP759, four (4) days later. Approximatly 1/2 cubic yds. of Grout was placed on 3/29/79 in Block Wall #10 @ Elev. 674' with no test to represent that days work.

"Q"-List No. 1.205, Hold for Engineering Disposition, 1 Hold Tag Applied

17. REPORTED BY Stephen O. Gilbert DATE 4/4/79

18. VALIDATED BY [illegible] Barclay DATE 4-7-79

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

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

Contrary to what is stated in blk. 16, Field testing of ~~MXMX~~ masonary grout was done on the below listed dates, thereby not exceeding the required test frequency.

DATE	MASONARY GROUT CYLINDER
3/26/79	SP755
3/27/79	SP756
3/29/79	SP758

23. PROJECT ENGINEERING DISPOSITION

PROJECT ENGINEERING CONCURS WITH THE RECOMMENDED FIELD ENGINEERING DISPOSITION BASED ON THE FACT THAT GROUT IS MIXED, SAMPLED AND TESTED UNDER IDENTICAL CONDITIONS, HOWEVER ALL FUTURE TESTING OF Q-GROUT IS TO FOLLOW THE TESTING CYCLE CALLED OUT IN SPEC. A-14

T.O. Murphy
J. Christensen

24. DISPOSITION CONCURRENCE N/A

rework	reject	repair	use as is
			X

[illegible] 5-14-79
PROJECT FIELD ENGINEER DATE

T. McCathern 7-5-79
PROJECT ENGINEER DATE

G. A. Barclay 7-12-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE S. Gilbert 7/20/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

8308050510

Block 22 Con't.

DATE	MASONARY GROUT CYLINDER
3/30/79	SP759

Attached are the completed compressive strength results for the aforementioned masonary grout tests. ~~Therefore, this is not a nonconforming condition.~~ RDK 5/18/79

JP Betts 5-8-79

It should be noted that cylinder sets SP 756 and SP 758 represent masonry grout mixed and placed in non-Q areas while cylinder sets SP 755 and SP 759 represent masonry grout mixed and placed in Q areas. However, based on the fact that both Q and non-Q grout is mixed, sampled, and tested under identical conditions with the same personnel, Field Engineering recommends a "USE AS IS" disposition.

R.D. Kowalski 5/18/79

BECHTEL POWER CORPORATION
MIDLAND NUCLEAR POWER PLANT JOB 07220
REPORT OF MASONRY GROUT

QC ACCEPTANCE
CONTROL NUMBER

IDENTIFICATION: Job Mix Grout
DATE PLACED: 3-26-79

PART LOCATION: Masonry Grouting of: 3-26-79 Q

DATA | SOURCE: Bechtel Power Corporation | CEMENT BRAND AND TYPE: Aetna Type I

ASTM C 476 | CLASS: I | AIR ENT: ☒ YES ☐ NO | SPECIFIED STRENGTH: 2500 PSI AT 28 DAYS

DATA AT BATCH PLANT

Yield: N/A

1. TEMP: N/A	2. SLUMP: N/A	3. TIME OF HOLDING: 2140 HOURS AT N/A TARGS			4. INITIALS: KH
5. SPECIFIED SLUMP: 8 3/4 INCHES	6. AIR CONTENT SPECIFIED: N/A	7. UNIT WEIGHT SPECIFIED: N/A LBS/CU FT	8. TEMP CONCRETE: N/A °F	9. TEMP AIR: N/A °F	
10. MAX SIZE SPECIFIED AGGREGATE: N/A	STONE 1: N/A	STONE 2: N/A	11. PROPORTIONING: N/A MAX. N/A AC		
12. BATCHING ACCURACY: N/A % TO N/A %	13. STRENGTH SPECIFIED: 3-28-79 AT 2300 HRS				14. INITIALS: KH

DATA AT PLACEMENT

15. TEMP: N/A	16. SLUMP: N/A	17. TIME OF TESTING: N/A HOURS AT N/A TARGS			18. TIME OF HOLDING: N/A HRS
19. SPECIFIED SLUMP: N/A INCHES	20. AIR CONTENT SPECIFIED: N/A	21. TEMP CONCRETE: N/A °F	22. TEMP AIR: N/A °F		23. INITIALS: N/A
24. MAX SIZE SPECIFIED AGGREGATE: N/A	25. STRENGTH SPECIFIED: N/A % TO N/A %	26. STRENGTH SPECIFIED: N/A AT N/A HRS			27. INITIALS: N/A

COMPRESSIVE STRENGTH DATA — UBC 24-22

28. SPECIMEN IDENTIFICATION	29. DATE MOLDED	30. DATE TESTED	31. AGE	32. TOTAL LOAD IN POUNDS	33. ACTUAL CYL DIAM.	34. ACTUAL CYL AREA	35. TYPE OF FRACTURE	36. CURE: FIELD	36. CURE: LAB	37. STRENGTH PSI
755 3600	3-26-79	4-23-79	28	37,500	3x3	9	A	2	26	4170
3601	1	1	28	37,000	3x3	9	A	2	26	4110
755 3602	3-26-79	4-23-79	28	37,000	3x3	9	A	2	26	4110

POOR ORIGINAL

NCM 20.2 Page 3 of 6

MOLDED CYLINDERS: ☒ 6"x12" ☐ CUBE ☐ CORE ☐ OTHER

REMARKS: 3"x3"x6" Prisms

38. AGE	39. TESTED BY	40. CHECKED BY	41. CHECKED BY QC REP
28	DSH	BV	4-27-79
	115T	A-189 @ 28	

LABORATORY SUPERVISION

BECHTEL POWER CORPORATION
MIDLAND NUCLEAR POWER PLANT JOB 07220
REPORT OF MASONRY GROUT

QC ACCEPTANCE
CONTROL NUMBER

IDENTIFICATION: Job Mix Grout
DATE PLACED: 3-27-79

UNIT LOCATION: Masonry Grouting of: 3-27-79 Unit 2

DATA | SOURCE: Bechtel Power Corporation | CEMENT BRAND AND TYPE: Aetna Type I

ASTM C 476 | CLASS: I | AIR ENTRAINED: ☒ YES ☐ NO | SPECIFIED STRENGTH: 2500 PSI AT 28 DAYS

DATA AT BATCH PLANT

Yield: N/A

1. TIME: N/A	2. TRUCK NO. N/A	3. TIME OF SAMPLING 0810 HOURS AT N/A YARDS			4. INITIALS BB
5. SLUMP SPECIFIED 8 1/2 INCHES	6. AIR CONTENT SPECIFIED N/A	7. UNIT WEIGHT SPECIFIED N/A LBS/CU FT	8. TEMP CONCRETE N/A °F	9. TEMP AIR N/A °F	
10. MIX AND AGGREGATE PROPORTIONS N/A	STONE 1 N/A	STONE 2 N/A	11. WATER/CEMENT + POZZOLAN RATIO N/A MAX. N/A AC		
12. SLUMP SPECIFIED N/A IN TO N/A IN	13. STARTED ADDING WATER 3-30-79 AT 1330 HRS				14. INITIALS BB

DATA AT PLACEMENT

15. TIME N/A	16. TRUCK NO. N/A	17. TIME OF TESTING N/A HOURS AT N/A YARDS			18. TIME OF HOLDING N/A HRS
19. SLUMP SPECIFIED N/A INCHES	20. AIR CONTENT N/A	21. TEMP CONCRETE N/A °F	22. TEMP AIR N/A °F		23. INITIALS N/A
24. SLUMP SPECIFIED N/A IN TO N/A IN	25. STARTED ADDING WATER N/A	AT N/A HRS			26. INITIALS N/A

COMPRESSIVE STRENGTH DATA — UBC 24-22

27. SPECIMEN IDENTIFICATION	28. DATE MOLDED	29. DATE TESTED	30. AGE	31. TOTAL LOAD IN POUNDS	32. ACTUAL CYL DIAM.	33. ACTUAL CYL AREA	34. TYPE OF BREAK	35. CURE MIN	35. CURE HR	36. STRENGTH PSI
P756 3603	3-27-79	4-24-79	28	47,000	3x3	9	A	3	25	5220
P756 3604	"	4-24-79	28	46,000	3x3	9	A	3	25	5110
P756 3605	3-27-79	4-24-79	28	46,500	3x3	9	A	3	25	5170

POOR ORIGINAL

NCR 13

TYPE OF SPECIMEN: ☒ CUBE ☐ CORE ☐ OTHER
REMARKS: 3"x3"x6" Prisms

37. AGE	38. MOLDED BY	39. TESTED BY	40. CHECKED BY QC REP
28	BB	BV	4-27-79

LIST A-190 @ 28

LABORATORY SUPERVISOR: [illegible] DATE: [illegible]

838 054

BECHTEL POWER CORPORATION
MIDLAND NUCLEAR POWER PLANT JOB 07220
REPORT OF MASONRY GROUT

ACCEPTANCE

CONTROL NUMBER

DATE PLACED 3-29-79

Job Mix Grout

Masonry Grouting of: 3-29-79

Bechtel Power Corporation | Aetna Type I Non Q

STN C 476 | I | ☒ YES ☐ NO | 2500 PSI AT 28

DATA AT BATCH PLANT

Yield:

N/A | N/A | 0715 HOURS AT N/A YARDS | INITIALS

9 INCHES | N/A | N/A LBS/CU FT | N/A | N/A

N/A | N/A | N/A | N/A MAX. N/A

N/A | N/A | 4-2-79 AT 0730 HRS | INITIALS NWS

DATA AT PLACEMENT

N/A | N/A | N/A HOURS AT N/A YARDS | N/A

N/A INCHES | N/A | N/A | N/A | INITIALS N/A

N/A | N/A AT N/A HRS | INITIALS N/A

STRENGTH DATA UBC 24-22

STATION DESIGNATION	DATE MOLDED	DATE TESTED	AGE	TOTAL LOAD IN POUNDS	ACTUAL CYL DIAM.	ACTUAL CYL AREA	TYPE OF BREAK	CURE DAYS	CURE HRS	STRENGTH PSI
	3-29-79	4-26-79	28	50,500	3x3	9	A	4	24	5,610
	"	"	28	49,000	3x3	9	A	4	24	5,440
	3-29-79	4-26-79	28	50,500	3x3	9	B	4	24	5,610

POOR ORIGINAL

NCR 20173

☐ CORE ☐ CORE ☐ OTHER | REMARKS 3"x3"x6" Prisms

RELEASED BY | CHECKED BY QC REP

Page 5 of 8

838 055

LABORATORY SUPERVISOR | DATE

BECHTEL POWER CORPORAT
MIDLAND NUCLEAR POWER PLANT JOB 07220
REPORT OF MASONRY GROUT

ACCEPTANCE

CONTROL NUMBER

CEMENT IDENTIFICATION: Job Mix Grout

DATE POURED: 3-30-79

CEMENT LOCATION: Masonry Grouting of: 3-30-79 Q

MIX DATA | SOURCE: Bechtel Power Corporation | CEMENT BRAND & TYPE: Aetna Type I

ASTM C 476 | CLASS: I | AIR ENT: ☒ YES ☐ NO | MINIMUM STRENGTH: 2500 PSI AT 28

FIELD DATA AT BATCH PLANT

Yield:

SLUMP: N/A	TRUCK NO: N/A	TIME OF HOLDING: 1430 HOURS AT N/A YARDS		INITIALS: KH
% AIR CONTENT: 8.0	AIR CONTENT: N/A	UNIT WEIGHT: N/A LBS./CU. FT.	TEMP CONCRETE: N/A °F	TEMP AIR: N/A °F
STRENGTH SPEC: N/A	STRENGTH: N/A	STRENGTH: N/A	WATER/CEMENT + POZZOLAN RATIO: N/A MAX.	N/A
MOLDING STARTED: N/A	°F TO N/A °F	TESTING STARTED: 4-2-79 AT 15-50 HRS.		INITIALS: KH

FIELD DATA AT PLACEMENT

SLUMP: N/A	TRUCK NO: N/A	TIME OF TESTING: N/A HOURS AT N/A YARDS		TIME OF HOLDING: N/A
% AIR CONTENT: N/A INCHES	AIR CONTENT: N/A	TEMP CONCRETE: N/A °F	TEMP AIR: N/A °F	INITIALS: N/
STRENGTH SPEC: N/A	°F TO N/A °F	STRENGTH: N/A AT N/A HRS.		INITIALS: N/

COMPRESSIVE STRENGTH DATA — UBC 24-22

SPECIMEN IDENTIFICATION	DATE MOLDED	DATE TESTED	AGE	TOTAL LOAD IN POUNDS	ACTUAL CYL. DIAM.	ACTUAL CYL. AREA	TYPE OF BREAK	CURE PLAN	CURE LAB	STRENGTH PSI
2759 3621	3-30-79	4-27-79	28	23 000	3x3	9	A	3	25	2560
" 3622	3-30-79	4-27-79	28	24 350	3x3	9	A	3	25	2710
2759 3623	3-30-79	4-27-79	28	25 000	3x3	9	A	3	25	2780

POOR ORIGINAL

MOLDED CYLINDERS: ☐ 6"x12" ☐ CUBE ☐ CORE ☒ OTHER — REMARKS: 3"x3"x5" Prisms

NCR 2013

AGE	TESTED BY	CHECKED BY	CHECKED BY QC REP
28	KH	NW	

LIST A- 211 @28

838 056

LABORATORY INSPECTOR: DS DATE:

NONCONFORMANCE REPORT

2-EAD

1. PROJECT NAME: MIDLAND	JOB NO.: 07220			19. NO. 2063	20. PAGE 1 OF 2
2. UNIT(S): 1&2	3. DRAWING ~~PART NO.~~: SKETCH 0-619-4-B	REV: 3/2	4. ITEM DESCRIPTION: HANGER 20"-OHBC-31-H1	5. ITEM LOCATION: Aux Bldg El 599' SOF B	6.c
6. P.O. OR SPEC NO.: N/A	7. SERIAL NO.: SEE BLOCK #4	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. P-Z-10-619-4-10 NO. N/A	12. ASME AUTHORIZED INSPECTION REQ'D: [ ] YES [X] NO	13. SKETCH ATTACHED: [X] YES [ ] NO	14. Discovered During: [ ] Rec'g [X] Constr [ ] Test	15. Equip Furnished By: [ ] Client [X] Eng [ ] FLO	

16. NONCONFORMING CONDITION: THE TOP FLANGE ON 6" WF BEAM (ITEM# 1 ON MATERIALS LIST) IS BENT ON EAST SIDE OF FLANGE. INDENTATION IS APPROX. 2 3/4" LONG x 1 1/2" DEEP (SEE SKETCH), THEREFORE LEAVING THE INTEGRITY OF HANGER 20"OHBC-31-H1 INDETERMINATE. SEE CONTINUATION SHEET FOR SKETCH.

Q LIST # 9.191 ONE HOLD TAG APPLIED TO 6" WF BEAM ON HANGER

17. REPORTED BY: M. West DATE: 4-10-79

18. VALIDATED BY: FM 4-11-79 for W. Barclay DATE: 4-12-79

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

22. [ ] Field Engineering Disposition [X] Field Engineering Recommended Disposition to Project Engineering

Damaged area appears insignificant to warrant repair or rework. Field Eng. recommends "Use As Is"

D. Short 4/26/79

23. PROJECT ENGINEERING DISPOSITION: Based on additional information from D. Short (6-27-79) that the irregularity occurs 8-1/16" from the clip angle end of the beam and that the bent flange is on one side only at 2-1/2" from the center of beam, Project Engineering concurs with Field Engineering disposition to "use as is". (Per T. Ballweg and R. Tomlin of Project Engineering, 6/27/79)

J. Krumm 7/11/79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			✓

J. J. Schuster 7/3/79 — PROJECT FIELD ENGINEER DATE

R. R. Barnum/RLC 7-11-79 — PROJECT ENGINEER DATE

7.14.79 W. Barclay 7-20-79 — PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

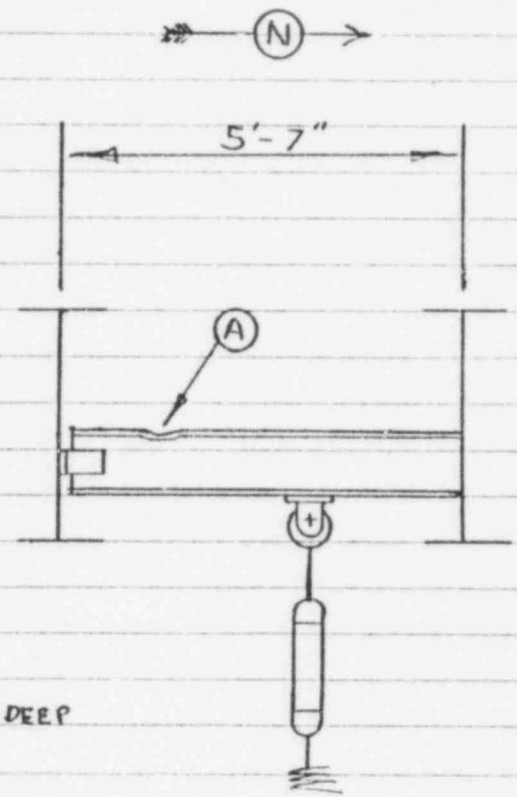
THE HANGER is ACCEPTABLE IAW #23.
C. Lofgate
7-20-79

26. QC ACCEPTANCE: S. P. Low 7-20-79 — QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

8308050570

CONTINUATION OF BLOCK # 16



(A) TOP FLANGE BENT
(EAST SIDE)
APPROX 2¾" LONG ½" DEEP

20"-OHBC-31-H1
SKETCH 0-619-4-8 REV. 2 SUB 3

333-058

NONCONFORMANCE REPORT

5/a Non Vestable Mat

1. PROJECT NAME: Midland	JOB NO.: 07220	19. NO. 2068	20. PAGE 1 OF 2
2. UNIT(S): One	3. DRAWING/PAR NO.: E-614	REV: 10	4. ITEM DESCRIPTION: Conduit Supports
5. ITEM LOCATION: Aux. Bldg. EL 614'-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 (X) DWG ( ) SPEC ( ) OTHER — IR NO. 1BD002.003 NO. 004,005,023
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 para; 2.1.3 assigns the responsibility of construction to the latest project approved drawings. Contrary to this a conduit support has been installed per attached sketch. A project approved drawing cannot be located for this installation.

Q-List 3.006 One (1) Hold Tag Applied — Hold For Engineering Disposition

17. REPORTED BY: DC Squires — DATE: 4-13-79

18. VALIDATED BY: DCS WB Barclay — DATE: 4/13/79

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

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

This conduit support will have to be removed because of an elevation conflict with H&V duct work. Conduits will have to be reworked.

B. Matthews 4-25-79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
X			

R. Nap - RBS — PROJECT FIELD ENGINEER — DATE 4-26-79

PROJECT ENGINEER — DATE

DCS WB Barclay — PROJ CONSTR QC ENGINEER — DATE 5-1-79

AUTHORIZED INSPECTOR — DATE

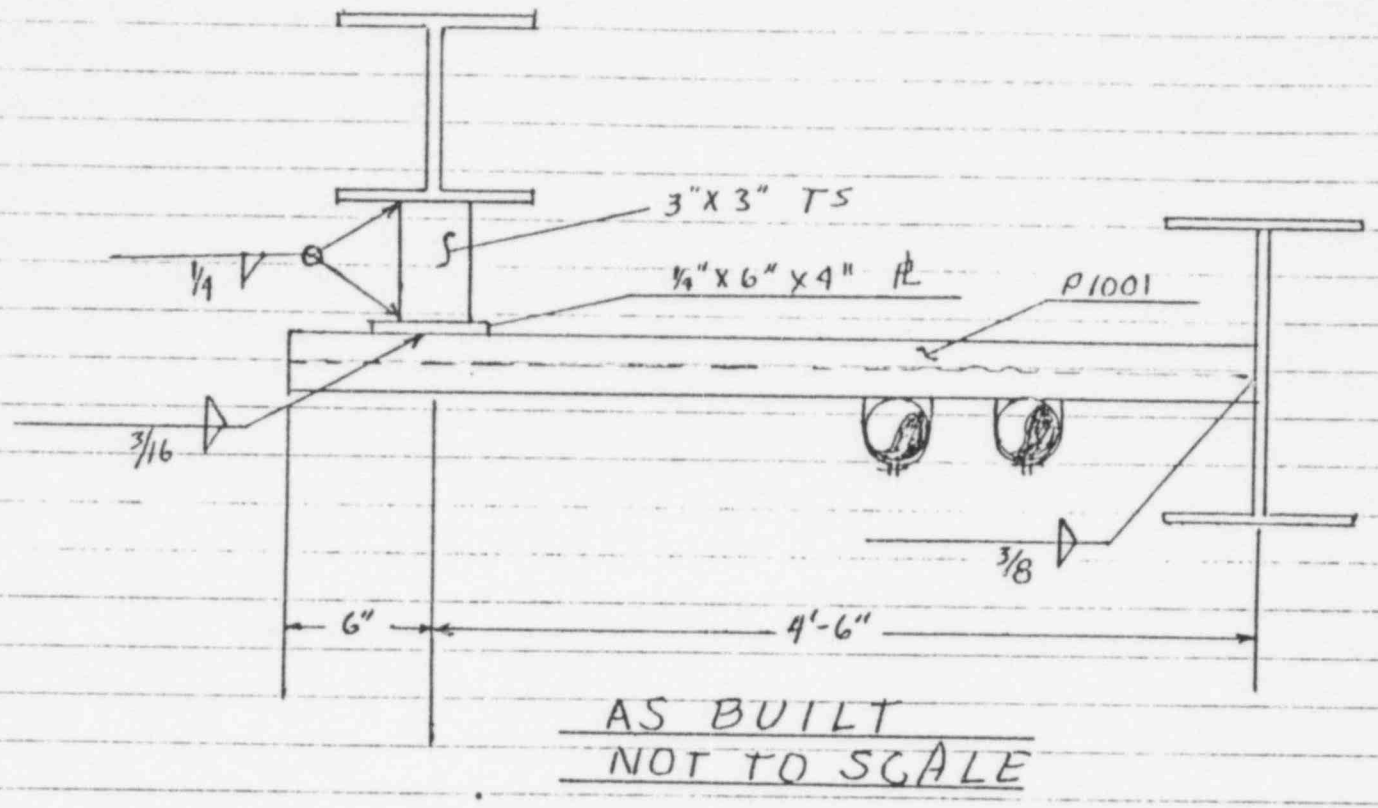
25. DISPOSITION RESULTS: Conduit Support has been removed.

7-12-79 DC Squires

26. QC ACCEPTANCE: DC Squires — QC ENGINEER — DATE 7-12-79

AUTHORIZED INSPECTOR — DATE

8308050590



AS BUILT
NOT TO SCALE

POOR ORIGINAL

T D

Clark

BECHTEL

NONCONFORMANCE REPORT

Shi Nonfastable Unit

1. PROJECT NAME	JOB NO.	19. NO. 2069	20. PAGE 1 OF 1
Midland	7220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
1	E-614	10	Type 12A conduit supports	Aux building El. 614'-0"

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		Const.	N/A

E

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. 1DD010 NO. 1BD041 1CD007	( ) YES (X) NO	( ) YES (X) NO	( ) Rec'g (X) Const ( ) Test	( ) Client ( ) Eng (X) FLD

16. NONCONFORMING CONDITION: A type 12A conduit support attached to the webb of a beam is to have prior engineering approval and be constructed of P1001A3 unistrut, see E-42 Sh. 333 Rev. 1.

Contrary to the above eight supports constructed of P1001 unistrut were installed without prior engineering approval. Location is the ceiling of El 614'-0" columns 5.1 to 5.3 and lines C to F.

"Q" No. 3.006 8 hold tags applied Hold for Engineering Disposition.

17. REPORTED BY D C Squires DATE 4-13-79

18. VALIDATED BY D C Squires for J T Barclay DATE 4/13/79

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

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

"Use As Is" Max. weight on one support is 100lbs. Max. number of conduits (2"GRS) per support is two.

V.B. Hayes 5/4/79

23. PROJECT ENGINEERING DISPOSITION Project engineering has evaluated the nonconforming supports and has determined that they may be used as is. Support type 12 B is being incorporated into E-42, Sh. 333 A, which will include these cases.

qaa 6/25/79
RS
P. Colvett 6/25/79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

PROJECT FIELD ENGINEER J R Bamsch/RLC DATE 6-25-79

PROJECT ENGINEER J T Barclay DATE 7-14-79

PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS DCN 80 to E42 has included Type 12 B Support which allows this condition. All Hold Tags Removed D C Squires 7-14-79

26. QC ACCEPTANCE D C Squires 7-14-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

838.061

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 07220			19. NO. 2071	20. PAGE 1 OF 12
2. UNIT(S): One	3. DRAWING/PART NO.: E-614	REV: 10	4. ITEM DESCRIPTION: Type 12 Conduit Supports	5. ITEM LOCATION: Aux. Bldg. El 614'-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 (X) DWG ( ) SPEC ( ) OTHER	IR NO. 1BD012,013,041 NO. 1CD007,1AK008 1DD010	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES XX NO	14. Discovered During ( )Rec'g (X)Const ( )Test	15. Equip Furnished By ( )Client ( )Eng (X)FLD

16. NONCONFORMING CONDITION: The Cantilevered attachment to a type 12 conduit support is to be constucted of P1001A3 unistrut, per E-42, Sh. 332. Contrary to this six (6) supports have been installed using P1001 unistrut. The supports are ceiling mounted and located between columns 5.1 & 5.6, and Lines C & F. Conduits attached are 1BD012, 1BD013, 1CD007, 1AKB008, 1DD010, and 1BD041.

Q-List Number 3.006 Six (6) Hold Tags/Applied Hold For Engineering Disposition

17. REPORTED BY: DC Squires DATE: 4-13-79

18. VALIDATED BY: DC Barclay DATE: 4/13/79

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

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

XXX "Use As Is" Max. weight on any one support is 100 lbs. Max. number of conduits are two per support. (2"GRS)

W.B. Hayes 5/11/79

23. PROJECT ENGINEERING DISPOSITION: Project engineering has evaluated the six non-conforming supports and has determined that they are acceptable and may be used as-is. They will be incorporated into Dwg. E-42 as supports 1278 thru 1283.

RS 6/18/79
qaq 6/13/79
P. Corbett 6/18/79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

PROJECT FIELD ENGINEER DATE

SR Barnsley/RLC 6-19-79
PROJECT ENGINEER DATE

CA Barclay 7-5-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS: Use as is" Supports appear in DCN 80 to E-42.

DC Squires 7-16-79

26. QC ACCEPTANCE: DC Squires 7-16-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

338-062

PM

Q

Alat

BECHTEL

NONCONFORMANCE REPORT

S/U Non-testable unit

1. Project Name: MIDLAND	Job No.: 7220			19. No.: 2082	20. Page 1 of 1
2. Unit(s): 2	3. Drawing/Part No.: E-650-Sh. 1	Rev: 13	4. Item Description: SEISMIC CONDUIT SUPPORTS	5. Item Location: 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 ☐ SPEC ☐ OTHER NO. IR NO. C-304-763W		12. ASME AUTHORIZED INSPECTION REQ'D: ☐ YES ☒ NO	13. SKETCH ATTACHED: ☐ YES ☒ NO	14. Discovered During: ☐ REC'V ☒ CONST ☐ TEST	15. Equip Furnished By: ☐ CLIENT ☐ ENG ☒ FLD

16. Nonconforming Condition:

SPECIFICATION 7220-C-304 · REV. 5 · PARAGRAPH 6.3.10 STATES, "NO WELDING SHALL BE DONE ACROSS THE FLANGE OF THE BEAM WITHOUT APPROVAL OF PROJECT ENGINEERING." E-42 SH. 335 · REV. 3 SPECIFIES INTERMITTANT WELDING FOR TYPE 14 SUPPORTS. CONTRARY TO THE ABOVE THE TYPE 14 SUPPORT LOCATED AS BELOW, INTERMITTANT WELDS WERE REPLACED WITH CONTINUOUS WELDS. CONDUIT - 2BLA001 · ELEV. 624' - LOCATION - BETWEEN COLUMN 1/4 12 - HOLD FOR ENGINEERING DISPOSITION - 1 "HOLD" TAG APPLIED "Q" No. 3005

17. Reported By: Wyler Boerema Date: 4/18/79

18. Validated By: W. T. Barclay Date: 4-18-79

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

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

Field recommends to "use as is"

B. Matthews 4-25-79

23. Project Engineering Disposition: Project engineering has reviewed the support described above and has determined that the cross flange weld in this case will not be detremental to the structural steel. Since the loading and stress at the time the support was welded to the beam is low compared to the allowable stress and the total expected load on the beam, any residual stress due to cross flange welding will be insignificant. The support will be imcorporated in E-42 as support # 1262 any may be used as is provided all requirements of support # 1262 are met.

J. Latin 6/1/79 RS

24. Disposition Concurrence

REWORK	REJECT	REPAIR	USE AS IS
			✓

W. Miller AGS 6-5-79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

J. Russell for 6/11/79
PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. Disposition Results

All requirements of support # 1262 of E-42 have been met.

26. QC Acceptance

C. Amos 7/9/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

838 065

NONCONFORMANCE REPORT

S/U Non Testable Unit.

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 2091	20. PAGE 1 OF 2
2. UNIT(S): I & II	3. DRAWING/PART NO.: E-535	REV: 14	4. ITEM DESCRIPTION: Conduit supports		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 (X) DWG ( ) SPEC ( ) OTHER — IR NO. See Below NO. E-42 Rev. 39	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: The following conduits each have two (2) incorrect supports as per E-42 Rev. 39. 1EC001, 1EC005, 1BC007, 1BC008, 1BC009 & 2EC001. The incorrect supports (all of them) are made up of a piece of P-1000 unistrut with angle brackets welded to both ends and anchored to the wall. Also the drop-in anchors used to attach these supports to the walls have unistrut bolts installed in them.

Q list; 3.006 6 hold tags applied Hold for engineering disposition.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
JR Kepley	4-18-79	WB Barclay	4-20-79

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

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

Field recommends Rework supports to conform to E-42.

W B Hayes 5/11/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
X			

W. Nuse RJB 5-16-79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

WB Barclay 5-21-79
PROJ CONSTR QC ENGINEER DATE

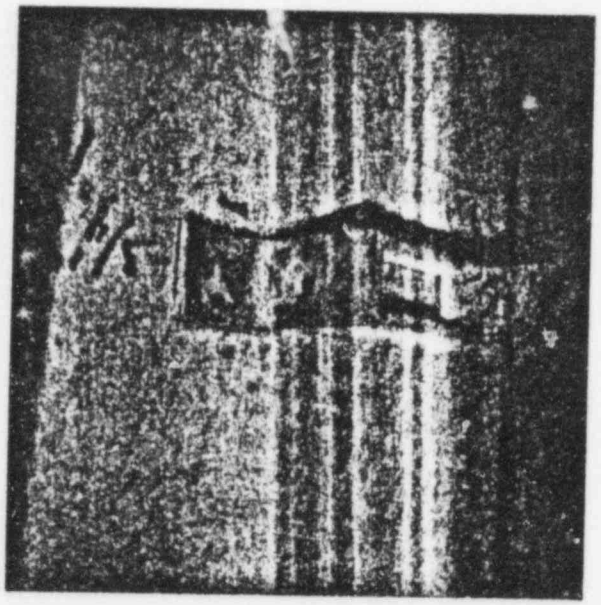
AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS: These Supports have been replaced by a type 1 support.
DC Squires 7-16-79

26. QC ACCEPTANCE DC Squires 7-16-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

838 064



POOR ORIGINAL

838 065

Corrected Copy

Start Up Code: SAB

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.		19. NO. 2108	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	One Glass Door for Panel ~~1036~~ 1035	Warehouse # 1

6. P.O. ~~SUBCONTRACT~~	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. ~~CONTRACTOR~~/SUPPLIER
7220-J-207	N/A	P/N ____ REV N/A SER NO. ____	Supplier	Vitro Laboratories Division

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-1.00-9323 NO. J-207 Rev. 4	( ) YES (X) NO	( ) YES (X) NO	(X) Rec'g ( ) Const ( ) Test	( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION:

Technical Specification J-207 requires Quality Verification Documentation according to Form G-321-D. Contrary to the above, no documentation was received for glass door panel ~~1036~~ 1035. Hold for engineering disposition. 1 hold tag applied to nonconforming item. "Q" number is 5.202.

5/5/79

17. REPORTED BY [signature] DATE 4/25/79

18. VALIDATED BY W. L. Barclay/jsk DATE 5/8/79

W. L. Barclay/jsk 4/26/79

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

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

PROCUREMENT TO OBTAIN PROPER DOCUMENTATION.

J. R. Gordon

6-5-79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

J. J. Delvaux/jsk 6/7/79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

K. E. Russell/jsk 6/7/79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

~~Documentation Received JE 6-11-79~~

Documentation received AND reviewed JE 7/9/79

JE 6/11/79

[signature] 7/9/79

26. QC ACCEPTANCE [signature] 6/11/79

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

JE 6/11/79

838.066

Start Up Code: Untestable

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO. 7220		19. NO. 2137	20. PAGE 1 OF 1
2. UNIT(S): Indeterminate	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: Jacket Repair Sleeve Kits	5. ITEM LOCATION: Warehouse # 1
6. P.O. OR SPEC NO.: 7220-F-34259	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV SER NO.	9. SOURCE: Supplier	10. CONTRACTOR/SUPPLIER: Raychem
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER	IR NO R-1.00-9353 NO F-34259 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 F-34259 Rev. 0 requires Statement of Conformance for Raychem Kits, Catalog Numbers- JRS-200-6-G-00, JRS-200-16-G-00, JRS-400-8-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

VENDOR TO FURNISH TO PROCUREMENT PROPER DOCUMENTATION R Stutzman 7-30-79
B. Matthews 7-30-79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
DC			

[signature] 7-30-79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

[signature] 73079
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

DOCUMENTATION RECEIVED AND REVIEW AND FOUND ACCEPTABLE DE 7/30/79

26. QC ACCEPTANCE [signature] 7/30/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

838 067

Start Up Code: Indeterminate a Cab

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland		JOB NO.: 7220				19. NO. 2139	20. PAGE 1 OF 1
2. UNIT(S): Indeterminate	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: 18 Pcs. 6-1/2 & 20 Pcs. 6- 3/4 AE2-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. CONTRACTOR/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. "6" 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: [illegible] 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 correct documentation.

[illegible]
5-11-79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
x			

[illegible] 5-11-79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

[illegible] 5-17-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

DOCUMENTATION RECEIVED AND ACCEPTED.
Dean A. Delaney 7/6/79

26. QC ACCEPTANCE
Dean A. Delaney 7/6/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

838.068

Alab

NONCONFORMANCE REPORT

s/u NCR testable unit

1. PROJECT NAME	JOB NO.			19. NO. 2143	20. PAGE 1 OF 2
Midland	7220				
2. UNIT(S) 2	3. DRAWING/PART NO. E607	REV 14	4. ITEM DESCRIPTION Conduit Support	5. ITEM LOCATION AUX, 568', room 26	
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. 2BC019 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:

E42, rev 39, sh 329 specifies P1000 and P3300 for use on type II supports. There is no provision at all for constut 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	DCS [illegible]	5-2-79

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

22. [X] Field Engineering Disposition [ ] Field Engineering Recommended Disposition to Project Engineering

Rework To Conform With E-42

W.B. Hayes 5/17/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
X			

W. J. Miller AB 5-21-79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

DCS DBarclay 5-21-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

This support has been reworked to conform to a type II-3A. Hold Tag Removed 7-19-79 RMaurer

26. QC ACCEPTANCE

RMaurer 7-19-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

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 Held For Engineering Disposition

POOR ORIGINAL

Corrected Copy

NONCONFORMANCE REPORT

5/11 NCR Table 11.1

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

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
2	~~E607~~ E607	14 ~~13~~	Conduit Support	Aux, 568', room 28

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

11. INSPECTION CRITERIA	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
(X) DWG ( ) SPEC ( ) OTHER IR NO. C304-809N NO. E42	( ) YES (X) NO	( ) YES (X) NO	( ) Rec'g (X) Const ( ) Test	( ) Client ( ) Eng (X) FLD

16. NONCONFORMING CONDITION: Spec C-304, rev 5, 6.3.16 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, intermittent across flange welds shall not be replaced with continuous welds." Contrary to the above, a type 14 conduit support has been installed

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

18. VALIDATED BY [illegible] DATE 5-23-79

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

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

Field recommends to "Use As Is" Removal of continuous weld will cause additional damage to beam.

W.B. Hayes 5/11/79

23. PROJECT ENGINEERING DISPOSITION Project engineering has reviewed and evaluated the nonconforming condition and concludes the following: Because the weld was located approximately 8 inches from the end of the beam in a low stress area of the flange, project engineering recommends use-as-is.

P. Corbett 5/29/79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

W. Hayes PFE 5-30-79
PROJECT FIELD ENGINEER DATE

R.L. Castleberry RLC 5-21-79
PROJECT ENGINEER DATE

D.A. Buckley 6-27-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE C.A. Cameron 7-3-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

838 071

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

Prior to attachment of the hold tag, the original support was removed and a second support was welded to the beam at the same location. The second support was welded with an intermittant across flange weld that exceeds the specified detail: (2" weld on 3" centers). From the QC point of view, this beam's quality has been rendered indeterminate.

C A Cameron 5/23/79
QC 5-23-79

Corrected Copy

POOR ORIGINAL

833 072

NONCONFORMANCE REPORT

S/U Non Testable 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-42Q 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-42Q 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: Ted Harrison Date: 5-1-79

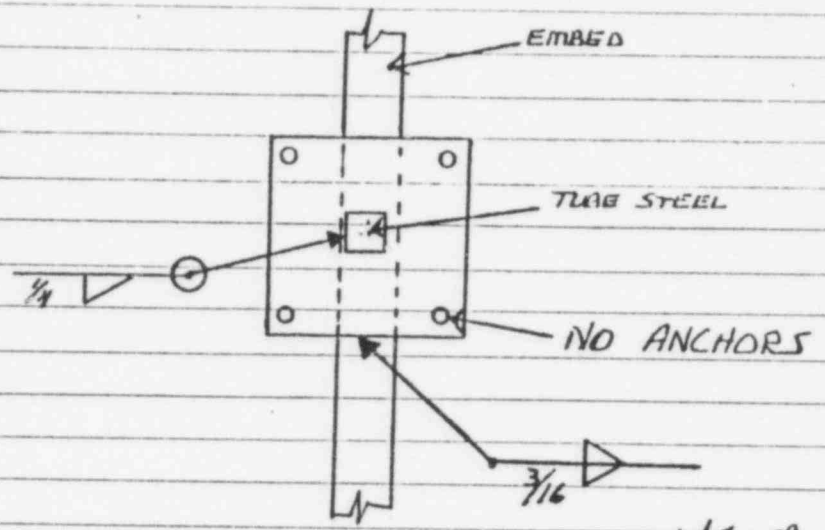
18. Validated By: W. R. Barclay Date: 5-2-79

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

22. Field Engineering Disposition [X] FIELD ENGINEERING RECOMMENDED DISPOSITION TO PROJECT ENGINEERING

~~XXXX

AS BUILT:



MH 5-1-79

C1166

NONCONFORMANCE REPORT

S/U NSW Testable Unit

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
Midland	7220	2152	1 OF 1

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
2	E613	11	Type 13 Conduit Support	Aux. Bldg EL 599

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
(X) DWG ( ) SPEC ( ) OTHER IR NO. 2BKA 006 & NO. 2BTB040	( ) YES (X) NO	( ) YES (X) NO	( ) Rec'g (X) Const ( ) Test	( ) Client ( ) Eng (X) FLD

16. NONCONFORMING CONDITION: Dwg E42 SH 352 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 Hold for engineering disposition / Hold tag applied

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
D Squires	5-2-79	[illegible]	[illegible]

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

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

Field recommends Rework support to conform to E-42 details.

W.B. Hansen 5/4/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
X			

C. Nunn HB 5-16-79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

W J Barclay 5-21-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS
This support has been reworked to a Type 1 ALT G. per E 42.
7-24-79 DC Squires

26. QC ACCEPTANCE DC Squires 7-24-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

PAGE ORIGINAL POOR

8308050

Start Up Code: Untestable

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO. 2158	20. PAGE 1 OF 1
Midland	7220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION (S10, I05, I17, S09)	5. ITEM LOCATION
Indeterminate	N/A	N/A	Instrument and Special Purpose Cable	Poseyville

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

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-1.00-9553 NO. E-60 Rev. 2	( ) YES (x) NO	( ) YES (X) NO	(X) Rec'g ( ) Const ( ) Test	( ) 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-4671, 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 DATE: J.E. Estes by J Hanks 5/3/79

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

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

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

Procuramant to obtain proper Documantation. Cables MAY Be usa until proper Documentation is received.

J.E. Estes 7-23-79

N.B. Hayes 7/15/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
X			

W. Miller PFE 7/31/79 — PROJECT FIELD ENGINEER / DATE

PROJECT ENGINEER / DATE

J.T. Barclay 7-25-79 — PROJ CONSTR QC ENGINEER / DATE

AUTHORIZED INSPECTOR / DATE

25. DISPOSITION RESULTS

DOCUMENTATION REVIEWED, REVIEWED AND FOUND ACCEPTABLE
DE 7/31/79

26. QC ACCEPTANCE — 7/31/79

QC ENGINEER / DATE

AUTHORIZED INSPECTOR / DATE

838 076

A Conditional release is granted to use cable awaiting proper documentation. Except Real 4712-
Corrections or removal can be accomplished without causing damage or contamination to associated plant equipment or structure.

J. Boor 7-23-79
PFE DATE

SCE J. E. Russell/JWB 7/24/79
PFCE DATE

R.C. Haller 7/24/79
RA PQAE DATE

838 077

AE Stubbs

BECHTEL MIDL

WU INFOMASTER 1-007268M121 05/01/79
TWX BECHTEL A SFO
003 SAN FRANCISCO CA CHG:7220 8XB1035
TWX 8102669497 BECHTEL MIDL

11038
BGBC

ATTN: J F NEWGEN, BPC, MIDLAND, MI
R L CASTLEBERRY, BPC, ANN ARBOR, MI
P.O.# REV #
7220-E-60-AC(Q) 3

SUPPLIER	CITY	STATE
ROCKBESTOS	NEW HAVEN	CT

P.O. ITEM	QTY	DESCRIPTION
I07	15332 FT	3/C #16 CONTROL CABLE, REEL #G7547, G010300, G010187
I08	22380 FT	2/C #16 CONTROL CABLE, REEL #G010246, G010115, G9870
I16	20926 FT	15/C #16 CONTROL CABLE, REEL, #G010197, G010208, G010504, G010506
S09	6161 FT	12/C #14 PLUS 4/C #16 COMPOSITE CONTROL CABLE, REEL #B4352, B4309
I05	37871 FT	24/C #14 CONTROL CABLE, REEL #B4473, B4474, B4353, B4354, B3737, B4678, B4676, B4674, B4677, B4675, B4451, B4661
I17	4282 FT	20/C #16 CONTROL CABLE, REEL #B4489
S10	10418 FT	6/C #20 CONTROL CABLE, REEL #B0712, B4697

DATE RELEASED FOR SHIPMENT: 4-27-79

WITH THE FOLLOWING EXCEPTIONS: SDDR'S #958, 1058, 966, 932, 906, 885, 1159
X SUPPLIER'S STATEMENT OF CONFORMANCE FOLLOWS BY MAIL
X DOCUMENTATION PACKGAE MAILED TO JOBSITE WITH MATERIAL & TO ENGINEERING ATTN: QC ENGINEERING.

ANTHONY SYCHEVSKY
5-1-79/0636

0926 EST

NO TWX FOR 4712

BECHTEL MIDL

3 of 5 215

POOR ORIGINAL

838 078

ELEN western union Telex/TWX

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"X10" PL with 2"X2" T.S. Q conduits attached are 2AJD010 and 2AJD020.

17. REPORTED BY: C A Cameron — DATE: 5/8/79

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

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

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

"USE AS IS."

W.G. Hagen 6/28/79

23. PROJECT ENGINEERING DISPOSITION: Project engineering has analyzed the nonconforming support and finds it acceptable for the loads attached and; therefore, recommends to "use as is".

g.a.a. 7-5-79

P. Corbett 7/5/79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

PROJECT FIELD ENGINEER: L. Mills ASB — DATE: 7-6-79

PROJECT ENGINEER: R Shulman for RLC — DATE: 7/5/79

PROJ CONSTR QC ENGINEER: [illegible] — DATE: 7-16-79

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS: Disposition "use as is" NO further loads added Hold tag Removed. DC Squires 7-16-79

26. QC ACCEPTANCE: DC Squires 7-16-79

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

POOR ORIGINAL

838 079

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 3 19NCR NO 2165

Block 16 cont.

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

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

POOR ORIGINAL

838 080

BECHTEL

CALCULATION SHEET

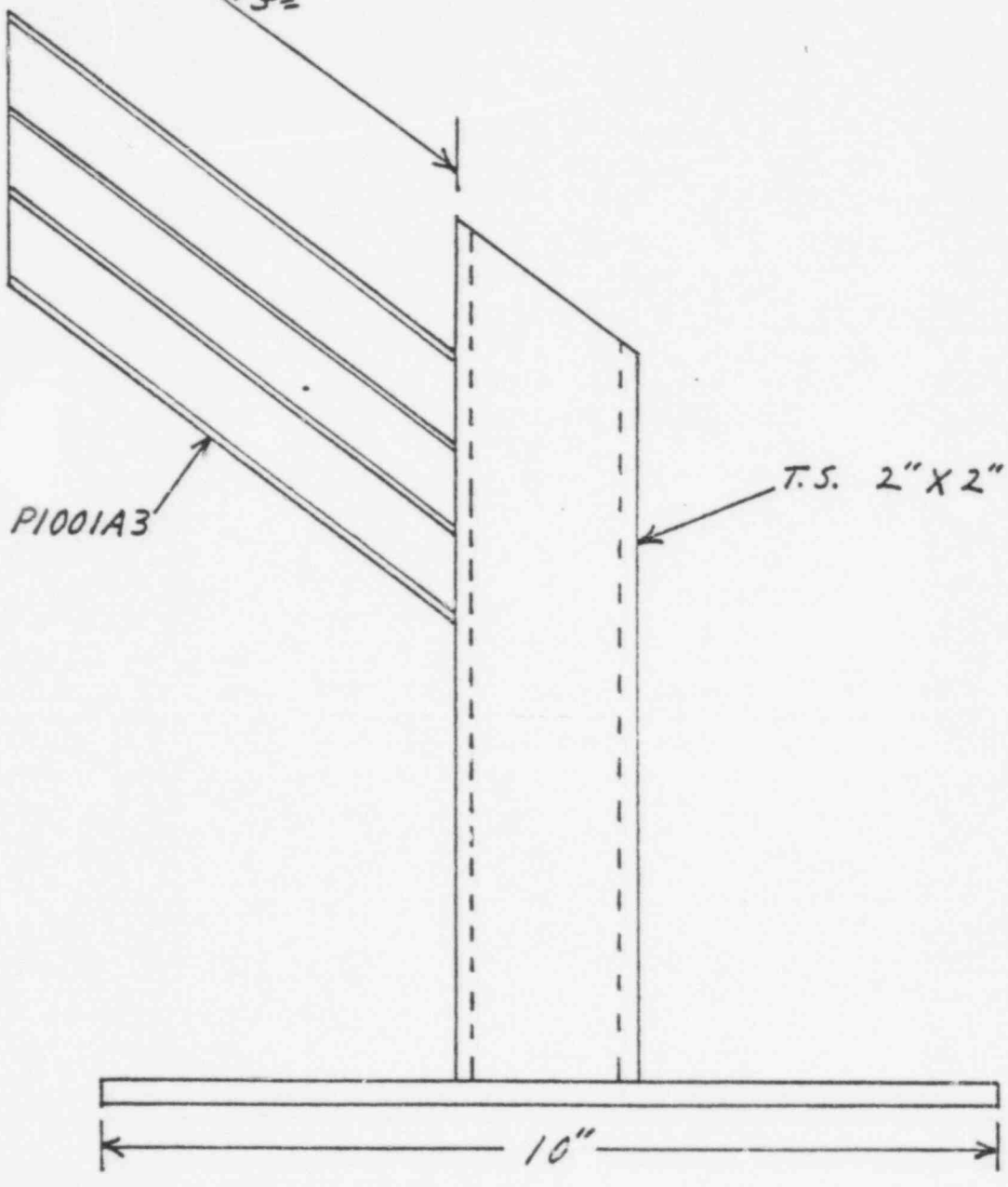
DATE

NCR-2165

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

PROJECT _____ JOB NO. _____

SUBJECT _____ CALCULATION NO. _____ FILE NO. _____



Not To Scale

D

Mat

NONCONFORMANCE REPORT

S/U: Nontestable

1. PROJECT NAME: Midland	JOB NO.: 07220			19. NO. 2168	20. PAGE 1 OF 1
2. UNIT(S): II Aux. Bldg.	3. DRAWING/PART NO.: E-625 Sheet 2	REV: 4	4. ITEM DESCRIPTION: Seismic Conduit Supports	5. ITEM LOCATION: Aux. Building Elv. 646'0"	
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 (X) DWG ( ) SPEC ( ) OTHER	IR NO. ~~2CE012~~ 2CE012 NO. E-42	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. 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. Hallenbeck	5-7-79	W. Barclay	5-8-79

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

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

Recommend "Use As Is"

W.D. Hayes 5/15/79

23. PROJECT ENGINEERING DISPOSITION Project engineering has evaluated the nonconforming support and has determined that it may be used as is. Support type 12 B is being incorporated into E-42, Sh. 333 A, which will include this case.

qaa 6/25/79

RS

P. Corbett 6/25/79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

J.R. Brooks/RLC 6/26/79
PROJECT FIELD ENGINEER DATE

R.R. Basmaji RLC 6-25-79
PROJECT ENGINEER DATE

W.D. Barclay 6-28-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS
Type 12 B support has been added to E-42 on DCN 80. NO further inspection Necessary.
DC Squires 7-16-79

26. QC ACCEPTANCE D.C. Squires 7-16-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

(E)

838.082

a1a6

S/U Indeterminate

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO. 7220				19. NO 2188	20. PAGE 1 OF 2
2. UNIT(S): Indeterminate	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 NO.: 7220-F-27952 Rev. 4	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV SER NO.	9. SOURCE: Supplier	10. CONTRACTOR/SUPPLIER: Parker Hannifin Corporation		
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. R-1.00-937h 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: Rick Martinez DATE: 5-15-79

18. VALIDATED BY: W. Barclay DATE: 5-15-79

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 documentaion.

V. L. Green 5-18-79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
DSC			

W. Miller QA 5-18-79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

W. Barclay 5-23-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Corrected G321-D form is reviewed and accepted. Rick Martinez 5-24-79

26. QC ACCEPTANCE

Rick Martinez 5-24-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

8308080218

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 2 19NCR NO 2188

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.

838 084

BECHTEL

NONCONFORMANCE REPORT

S/N Non Testable Unit

1. Project Name: Midland — Job No.: 7220 — 19. No. 2194 — 20. Page 1 of 2

2. Unit(s)	3. Drawing/Part No.	Rev	4. Item Description	5. Item Location
2	E629	7	Box Support	Aux, ERC, Ⓖ at (74)

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: ☒ DWG ☐ SPEC ☐ OTHER — IR NO. C304-980W — 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

16. Nonconforming Condition:

Field Procedure FPD 4.000 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: CA Cameron — Date: 5/12/79

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

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

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

Box support ~~XXXX~~ was approved 5-11-79, support #1213 CSR #E-219.

W.B. Hayes 5/31/79

23. Project Engineering Disposition

This support was issued on DCN# 73 to E-42 5-16-79 as support # 1213. The support location was revised on DCN #75 to E-42, 5-23-79.

The elevation given is approximate and the actual elevation of the support may vary from this. This support is acceptable for use provided all requirements of support # 1213, E-42, Sh. 1036 are met.

RS J. Lakin 6/8/79

24. Disposition Concurrence

REWORK	REJECT	REPAIR	USE AS IS
			X

[signature] 6-21-79
PROJECT FIELD ENGINEER — DATE

JR Barnum/RLC 6-11-79
PROJECT ENGINEER — DATE

[signature] Barclay 6-27-79
PROJECT CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

25. Disposition Results

Requirements of exception # 1213, E42, sh. 1036 have been met and DCN #75 corrects location.

CA Cameron 7-3-79

26. QC Acceptance

CA Cameron 7-3-79
QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

W/E

POOR ORIGINAL

838 085

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

Block 16 cont.

configuration is 2 lengths of F1001 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 Held for Engineering Disposition

POOR ORIGINAL

838 086

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

Start Up Code: Indeterminate (Clab

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.				19. NO. 2207	20. PAGE 1 OF 1
Midland	7220					
2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	SS	5. ITEM LOCATION	
Indeter-minate	N/A	N/A	832 Ea. Socket Weld Adapters, Part# 6-3/4 AW2-		Warehouse # 1	
6. P.O. 7220-F-27952 Rev. 1	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N 4452 REV CER NO. N/A		9. SOURCE Supplier	10. SUPPLIER Forberg Scientific/Parker Hannifin	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER IR NO. R-1.00-8233 NCR 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 (JH) R B Baraley DATE 5-22-79

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

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

"USE AS IS" See attached letter from Parker Hannifin Corporation.

V K Gradea 6-6-79

23. PROJECT ENGINEERING DISPOSITION The weld adapters described in Block #16 shall have the mark number "B-33" scratched out and the new mark number "B-32" added.

John W. Major 6/21/79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

J J Gilmartin/AMO 6/20/79
PROJECT ENGINEER DATE

W F Schulman/Rec 6/21/79
PROJECT ENGINEER DATE

R B Baraley 6-25-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Scoped Fittings re-marked in accordance project engineering disposition 7-31-79

26. QC ACCEPTANCE Michael J Moore 7-31-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

838 087

0

dlat

Start Up Code: Indeterminate

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO. 2234	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	Instrument & Special Purpose Cable.	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 N/A REV N/A SER NO. N/A	Supplier	Rockbestos Company

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-1.00-9613 NO. E-60 Rev. 2	( ) 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 the above, no Q.V.D. package was received for 309 Cable # 4352 and 105 (DCR) #'s 4354, 4353 and 4451. Hold for engineering disposition. "Q" number is indeterminate. 4 hold tag(s) applied to nonconforming item(s).

17. REPORTED BY [signature] DATE 6-5-79

18. VALIDATED BY [signature] DATE 6-5-79

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.

Douglas Bowlby
6-18-79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

[signature] 6-21-79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

[signature] 6-27-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Documentation Received
Reviewed and found
acceptable
DE 7/31/79

26. QC ACCEPTANCE [signature] 7/31/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

888 828

Start Up Code: Indeterminate

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO. 7220				19. NO. 2237	20. PAGE 1 OF 2
2. UNIT(S): Indeter-minate	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: 1 Ea. 14" dia. Sch 30 90° Ell S.S. ASTM-A-182		5. ITEM LOCATION: Warehouse # 1	
6. P.O. XXXXXXXX: 7220-M-104A-AC	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N ___ REV ___ SER NO. N/A	9. SOURCE: Supplier	10. XXXXXXXX/SUPPLIER: ITT Grinnell		
11. INSPECTION CRITERIA ( ) DWG (X) SPEC (X) OTHER — IR NO. R-1.00-9645 NO. M-201 Rev. 8	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:

1. Bechtel Material Requisition M-104A Rev. 8 requires documentation in accordance with Form G-321-D. Contrary to the above, no documentation was received for the 14" Ell received on AEO-9645. 2. Bechtel Specification M-201 Rev. 8 Section 6.6.7 states in part, "Each section of fabricated pipe, pipe assembly or separate fitting shall be clearly marked with appropriate line designation data to indicate its place in the final installed assembly."

Continued on Page 2

17. REPORTED BY: Michael J. Moore DATE: 6-5-79

18. VALIDATED BY: [illegible] Barclay DATE: 6-6-79

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

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

1) Procurement supervisor to obtain required documentation.
2) Rework: Mark Ell with the following spool number: 2ECB-002-611-01-01.

[illegible] 6/28/79
D. Shaw 6/28/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

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

PROJECT FIELD ENGINEER [illegible] DATE 6/28/79

PROJECT ENGINEER [illegible] DATE 7-3-79

PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

① Documentation received and reviewed RyJm 7-26-79

② Ell reworked with spool # 2ECB-002-611-1-1 RyJm 7-26-79

26. QC ACCEPTANCE Michael J. Moore 7-26-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

838 089

NONCONFORMANCE REPORT (CONT'D) [20]PAGE 2 OF 2 [19]NCR NO 2237

Block 16 Continued

Contrary to the above, no line designation data is marked on the above referenced fitting. "Q" number is indeterminate. Hold pending final disposition. 1 hold tag applied to the fitting.

838 090

Start Up Code: Indeterminate

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 2238	20. PAGE 1 OF 2
2. UNITS: Indeter-minate	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: 3 Ea. 2½" dia. Sch 160 Weld Neck Flanges Heat # 318		5. ITEM LOCATION: Warehouse # 1
6. P.O. 7220-M-104A-AC	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N ___ REV ___ SER NO. N/A	9. SOURCE: Supplier	10. MANUFACTURER/SUPPLIER: ITT Grinnell	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC (X) OTHER IR NO. R-1.00-9667 NO. M-201 Rev. 8	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:

1. Bechtel Material Requisition M-104A Rev. 8 requires documentation in accordance with Form G-321-D. Contrary to the above, no documentation was received for the 3 - 2½" flanges received on AEO-9667. 2. Bechtel Specification M-201 Rev. 8 Section 6.6.7 states in part, "Each section of fabricated pipe, pipe assembly or separate fitting shall be clearly marked with appropriate line designation data to indicate its place in the final installed assembly."

Continued on Page 2

17. REPORTED BY: Michael J. Moore DATE: 6-5-79

18. VALIDATED BY: D.F. Barclay DATE: 6-6-79

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

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

1) Procuremetn supervisi[illegible] to obtain required documentation.
2) Rework-mark flanges with the following spool number:

1-CCA-4-601-3-1, 1-CCA-4-601-3-4 &4A and 2-CCA-4-602-3-3 & 3A

23. PROJECT ENGINEERING DISPOSITION

Skip Schmidt 6/28/79
D. Shott 6/28/79

24. DISPOSITION CONCURRENCE

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

J.B. Palmer 6/28/79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

D.F. Barclay 7-3-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

(1) Documentation received And reviewed MJM 7-26-79

(2) Flanges reworked with spool #'s 1CCA-4-601-3-1
1CCA-4-601-3-4+4A
2CCA-4-602-3-3+3A
MJM 7-26-79

26. ACCEPTED Michael J. Moore 7-26-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

838 091

Block 16 Continued

Contrary to the above, no line designation data is marked on the above referenced fittings. "Q" number is indeterminate. Hold pending final disposition. 3 hold tag(s) applied to the fittings.

838 092

NONCONFORMANCE REPORT

S/C Non Testable

1. Project Name: MIDLAND UNITS 1 & 2	Job No. 7220					19. No. 2241	20. Page 1 of 1
2. Unit(s): 2	3. Drawing/Part No.: E-615 Q	Rev: 10	4. Item Description: JUNCTION BOX MOUNTING ANCHORS (STUD)			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: ☐ DWG ☒ SPEC ☐ OTHER IR NO. C-150EH 296 NO. C-305	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. 7220-c-305, Appendix A, Figure 1, allows the hole for an expansion anchor to be skewed 3° from perpendicular with the mounting surface. Contrary to the above, the anchors of box #2BJ1238 are skewed in excess of 3°. 5 of the 8 anchors on the box are affected, however, all 8 anchors have been tested and meet or exceed the torque and embedment requirements of Spec. C-305. The box is located at elevation 616', approx. 6'south of E, and 6' west of 7.9.

Hold for Engineering Disposition. "Q" number 3.006 1 "HOLD" tag applied.

17. Reported By: Jim A Harrison Date: 6-6-79

18. Validated By: J. E. Russell for N Barclay Date: 6/7/79

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

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

"USE AS IS". ~~All Anchor bolts tested satisfactory.~~ ~~G.B. Hagar 6/14/79~~

PROJECT ENGINEERING TO RESOLVE

B. Matthews 6-10-79

23. Project Engineering Disposition

Project Engineering has evaluated the nonconforming condition and has determined that it is unacceptable for the anchor bolt alignment to exceed the 3° tolerance given in Specification C-305. The nonconforming anchors shall be considered nonexistent, and acceptability of the support determined solely by anchors which meet the requirements of Specification C-305.

James A. Alexander 7-9-79

RLB

T. Nasreen 7/9/79

24. Disposition Concurrence

REWORK	REJECT	REPAIR	USE AS IS

G. Meier RLB 7-10-79
PROJECT FIELD ENGINEER DATE

R Baumann RLC 7-9-79
PROJECT ENGINEER DATE

N Barclay 7-17-79
PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. Disposition Results

ALL ANCHORS HAVE BEEN REWORKED IN ACCORDANCE WITH SPEC. C-305.

Jim A Harrison

26. QC Acceptance: Jim A Harrison 7-21-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

838 093

Alab

D

Start Up Code: Indeterminate

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO. 2248	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	200 Ea. Burndy Lugs Catalog # YA 3¼-2N	Q.C. Hold, Whse. # 1

6. P.O. 7220-F-36066 Rev. 0	7. SERIAL NO.	8. REPLACEMENT PART P/N N/A REV SER NO.	9. SOURCE	10. MANUFACTURER/SUPPLIER
	N/A		Supplier	Wesco

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-1,00-9728 NO. F-36066	( ) YES (x) NO	( ) YES (X) NO	(X) Rec'g ( ) Const ( ) Test	( ) Client ( ) Eng (X) FLD

16. NONCONFORMING CONDITION:

Purchase Order 7220-F-36066 Rev. 0 requires a Statement of Conformance to accompany each shipment of lugs. Contrary to the above, the supplier has failed to comply with this requirement. Hold for engineering disposition. "Q" number is indeterminate. 2 hold tag(s) applied to the nonconforming material.

17. REPORTED BY — DATE
Rob G Mathews 6-7-79

18. VALIDATED BY — DATE
J. E. Russell 6/8/79

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

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

Procuramant to obtain statement of conformance From Vandor R Thurman 6-21-79

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
Kas Easterday 6-27-79

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

Statement of conformance received and accepted
Rob G Mathews 7-6-79

26. QC ACCEPTANCE

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

POOR ORIGINAL

Alet

IGJA

NONCONFORMANCE REPORT

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO. 2251	20. PAGE 1 OF 2
2. UNIT(S): ONE	3. DRAWING/PART NO.: FSK-M-1HBC-206-1-H9	REV: 3	4. ITEM DESCRIPTION: SMALL PIPE HANGER 1HBC-206-1-H9	5. ITEM LOCATION: AUX BLDG EL 634 13'4/5.0 F 5/J	
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 2-10-1HBC 206 1-H9 NO. M-326	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( )Rec'g (X)Const ( )Tes	15. Equip Furnished By ( )Client ( )Eng (X)FLD

16. NONCONFORMING CONDITION. SPECIFICATION M-326 REV 3 SECTION 3.2 STATES "MATERIAL FOR COMPONENT SUPPORTS SHALL CARRY IDENTIFICATION MARKINGS WHICH WILL REMAIN DISTINGUISHABLE UNTIL THE COMPONENT SUPPORT IS FABRICATED OR INSTALLED. IF THE ORIGINAL IDENTIFICATION MARKINGS ARE CUT OFF OR THE MATERIAL IS DIVIDED, THE MARKS SHALL BE ACCURATELY TRANSFERRED TO THE PARTS OR A CODED MARKING SHALL BE USED TO ASSURE IDENTIFICATION OF EACH

17. REPORTED BY: Michael K Allard DATE: 6-8-79

18. VALIDATED BY: T. J. Kunel DATE: 6/11/79

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

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

The BasePlate was removed and rewalded to allow proper installation of Hangar. The original Base Plate was Reinstalled not a Different BasePlate As stated in Block 16. Nonconforming Condition.
Accept AS is. JJS 6-21-79

23. PROJECT ENGINEERING DISPOSITION

The removal of the base plate and rewelding was not done in accordance with the specification M-326. Hence, project engineering recommends that the hanger be reworked in order to Comply with the requirements as stated in section 3.2 of specification M 326 or M 343.

OR T.J. Kunel 6/27/79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
X			

PROJECT FIELD ENGINEER: J.G. Schwartz DATE: 6/27/79

PROJECT ENGINEER: A. Sidhu/RLC DATE: 6/27/79

PROJ CONSTR QC ENGINEER: J. Osterhelt DATE: 6-26-79

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

New base plate welded to Hgr 1HBC-206-1-H9 with traceable identification.
E. Schwartz 6-26-79

26. QC ACCEPTANCE E. Schwartz 6-26-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

8508 095

9

NONCONFORMANCE REPORT (CONT'D) 1. PAGE 2 OF 2 14. NCR NO. 2251

BLOCK 16 CONTINUED: PIECE OF MATERIAL DURING SUBSEQUENT FABRICATION OR INSTALLATION. CONTRARY TO THE ABOVE, THE BASE PLATE OF HANGER 1HBC-206-1-119 HAS BEEN CUT OFF OF THE SQUARE TUBING AND A 4"x4" different BASE PLATE HAS BEEN WELDED TO THE SQUARE TUBING. THE BASE PLATE NOW WELDED TO THE TUBING HAS NO VISIBLE IDENTIFICATION MARKS; THEREFORE, THIS BASE PLATE CANNOT BE VERIFIED AS CERTIFIED MATERIAL.
ONE QC HOLD TAG APPLIED
Q LIST NUMBER 4.571

838 096

10098-2

QC-03-2

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

Clab

Start Up Code: Indeterminate

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
Midland	7220	2256	1 OF 1

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
Indeterminate	N/A	N/A	See Block 16	Standish

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
7220-F-32165	N/A	P/N N/A REV ____ SER NO. ____	Supplier	Bergen/Patterson

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/NO F-32165	( ) YES (X) NO	( ) YES (X) NO	(X) Rec'g ( ) Const ( ) Test	( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION:

Purchase Order F-32165 states that the below listed sway struts will be delivered with rear brackets and rod ends banded to the extension: Part numbers: 3 each # 2200-20, 4 each # 2200-1.5, 4 each 2200-10, 1 each 2200-3. Contrary to this requirement the above items were received with brackets and rod ends welded in place. Hold pending disposition. "Q" list number is indeterminate. 2 hold tag(s) applied to boxes.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
R Valentine	6-12-79	J E Russell	6/13/79

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

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

"Reject" Return to vendor

W Beyrle 6-26-79
D. Shortt 6-26-79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
	X		

J P Gilmartin MB 6/26/79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

W D Brierley 7-2-79
PROJ CONSTR QUALITY ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Returned to vendor per S/Notice 7220-5792.

R. Valentine
7-6-79

26. R. Valentine 7-6-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

8209170838

305

NONCONFORMANCE REPORT

5/11 2ABA

6 KEB 8-1-79

1. Project Name: Midland Units 1+2	Job No.: 7220			19. No. 2290	20. Page 1 of 2
2. Unit(s): Common	3. Drawing/Part No.: 2-ELB-12-S-632-3-2+3-3	Rev	4. Item Description: Thermocouple Attachments	5. Item Location: EL. 707', Approx. AZ-257°	
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. NO. FPW-4.000 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 ☒ FLD

16. Nonconforming Condition:

FPW-4.000, para. 7.0 part "B" states. Copy #4 of the QCIR W-100B Form must be in a plastic envelope on the run of pipe or adjacent to the weld before the first weld joint may be fit-up. Contrary to the above, Six (6) thermocouples were attached by SMAW to a 36" O/S pipe (main steam S/S.) Line No. # 2-ELB-12-S-632-3-2 and 632-3-3. No QCIR W-1.00B form or a WR-6 form was issued prior to welding. Two (2) of these thermocouples on line-

17. Reported By: John C. Braun — Date: 6-22-79

18. Validated By: J.B. Barclay — Date: 6-22-79

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

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

~~Engineer to Have New Data Plate To Replace the One Removed and to Locate to be Attached at a Time...Date~~ JJB 6/25/79

(2) Remove the Thermocouples by grinding below (Approved 6/25/79) Heat Affected Zone of deposited weld metal, Repair in accordance with ED-1 Base Metal Repair. Code Data Plate not damaged and is considered acceptable.

23. Project Engineering Disposition

24. Disposition Concurrence

REWORK	REJECT	REPAIR	USE AS IS
		X	

PROJECT FIELD ENGINEER — DATE 6/25/79

PROJECT ENGINEER — DATE 6-28-79

PROJECT CONSTR QC ENGINEER — DATE 7-6-79

AUTHORIZED INSPECTOR — DATE

25. Disposition Results

The thermocouples and data plate were removed, to base metal, Liquid Penetrant test was performed, all areas acceptable. Data Plate for 2-ELB-12-632-3-2 and 2-ELB-279 Referenced attached NDE Reports (Revised 7-23-79) identification transferred prior to data plate removal. Reference FIR

26. QC Acceptance Approved (ELB 8-2-79) 7-23-79

QC ENGINEER H.W. Ketter — DATE 8-2-79

AUTHORIZED INSPECTOR D

G. McRae 8-2-79

8380098

POOR ORIGINAL

BECHTEL

NONCONFORMANCE REPORT (CONT'D) 1 PAGE 2 OF 2 6 KEB 8-1-79 14. NCR NO. 2290

Cont. of Part 16.

2-ELB-12-S-632-3-2 were welded on the ITT code data plate making indentification of this line number almost impossible.

Hold for Eng. Disposition: 2 hold tags applied.

A conditional release is granted for installation up to point of hydro, name plate remains retrievable throughout construction. Corrections or removal can be accomplished without causing damage or contamination to associated plant Equipment or structure.

J J Schmaltz/ATB 6/22/79
PQE DATE

D B Beckley 6-22-79
PEQCE DATE

AI DATE

E Smith for L-AD 6/22/79
PQAE DATE

W K Campbell 6-22-79

POOR ORIGINAL

8508090

9098-2

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

QC-G3-3

Peabody Testing
X Ray Engineering Company

FOSTER CITY – MAIN OFFICE 1118 Chess Drive, Foster City, CA 94404, (415) 573-6002
SAN MATEO OFFICE 145 North Bayshore Blvd., San Mateo, CA 94401, (415) 342-4163
SAN LEANDRO OFFICE 2506 Davis Street, San Leandro, CA 94577, (415) 569-5274

CERTIFIED REPORT of NONDESTRUCTIVE EXAMINATION

CUSTOMER: Bechtel Power Corp					DATE: 7-19-79
ADDRESS: Midland Nuclear Proj Plant					CONTROL NO. OR REPORT NO.: 2294
JOB OR PROJECT LOCATION: Midland, Mich. 32-07		P.O. NO.: 7000-FC-[illegible]			PLAN OR DWG. NO.: 1-32-3
SURFACE CONDITION: Ground	HEAT NO.: N/A	HEAT TREAT: BEFORE ☐ AFTER ☐	TYPE OF MATERIAL: CS	TEMP. OF MAT'L: DIC 2257	
TYPE OF EXAMINATION: UT ☐ MT ☐ PT ☑	EXAMINATION STANDARD: C-7	ACCEPTANCE STANDARD: [illegible]	N.D.T. PROCEDURE NO.: [illegible] Rev 7		

ULTRASONIC EXAMINATION

EQUIPMENT	TRANSDUCER	[illegible]	METHOD [illegible]	SCANNING METHOD	SENSITIVITY LEVEL

MAGNETIC PARTICLE EXAMINATION

EQUIPMENT				AMPERAGE		PARTICLES – COLOR
	DRY ☐ WET ☐	VISIBLE ☐ FLOURESCENT ☐	AC ☐ DC ☐ RECTIFIED ☐		PROD. SPACING ____ HEAD ☐ COIL ☐	

LIQUID PENETRANT EXAMINATION

METHOD	PENETRANT			CLEANER		EMULSIFIER			DEVELOPER				
	BRAND NO.	BATCH NO.	DWELL TIME	BRAND NO.	BATCH NO.	BRAND NO.	BATCH NO.	EMULS. TIME	BRAND NO.	BATCH NO.	DEV. TIME	DRY ☐ WET ☐	NON-AQUEOUS ☐

PART NO.	TOTAL LENGTH EXAMINED		TYPE OF WORK	NO. OF ITEMS ACCEPTED	NO. OF ITEMS REJECTED
	FEET	INCHES	NEW ☐ REPAIR ☐	1	0

TYPE OF DEFECTS CODE

C – Cracks P – Porosity NF – Non-Fusion LI – Linear Indication S – Slag LA – Lamination OTHER – Specify

PC# OR SN#	ACC	REJ	DEFECT CODE	REMARKS	PC# OR SN#	ACC	REJ	DEFECT CODE	REMARKS

NCR 2290

Page 3 of 6

IN _____ A.M. OUT _____ A.M. Technician _____ SNT-TC-1A Level II

_____ P.M. _____ P.M. Asst. Technician _____

_____ Total Hours at Jobsite Customer _____

_____ Lunch _____ Standby _____ Travel Witnessed by _____ SIGNATURE

_____ Total Hours _____ Total Mileage ENCLOSURE ADDED Yes ☐ No ☐ Page 1 of 2

PEABODY TESTING/ X-Ray Engineering Company assumes no responsibility for losses of any kind due to interpretation

FORM 112 (4/78)

POOR ORIGINAL

838 100

BECHTEL

NDE REPORT ENCLOSURE

DATE

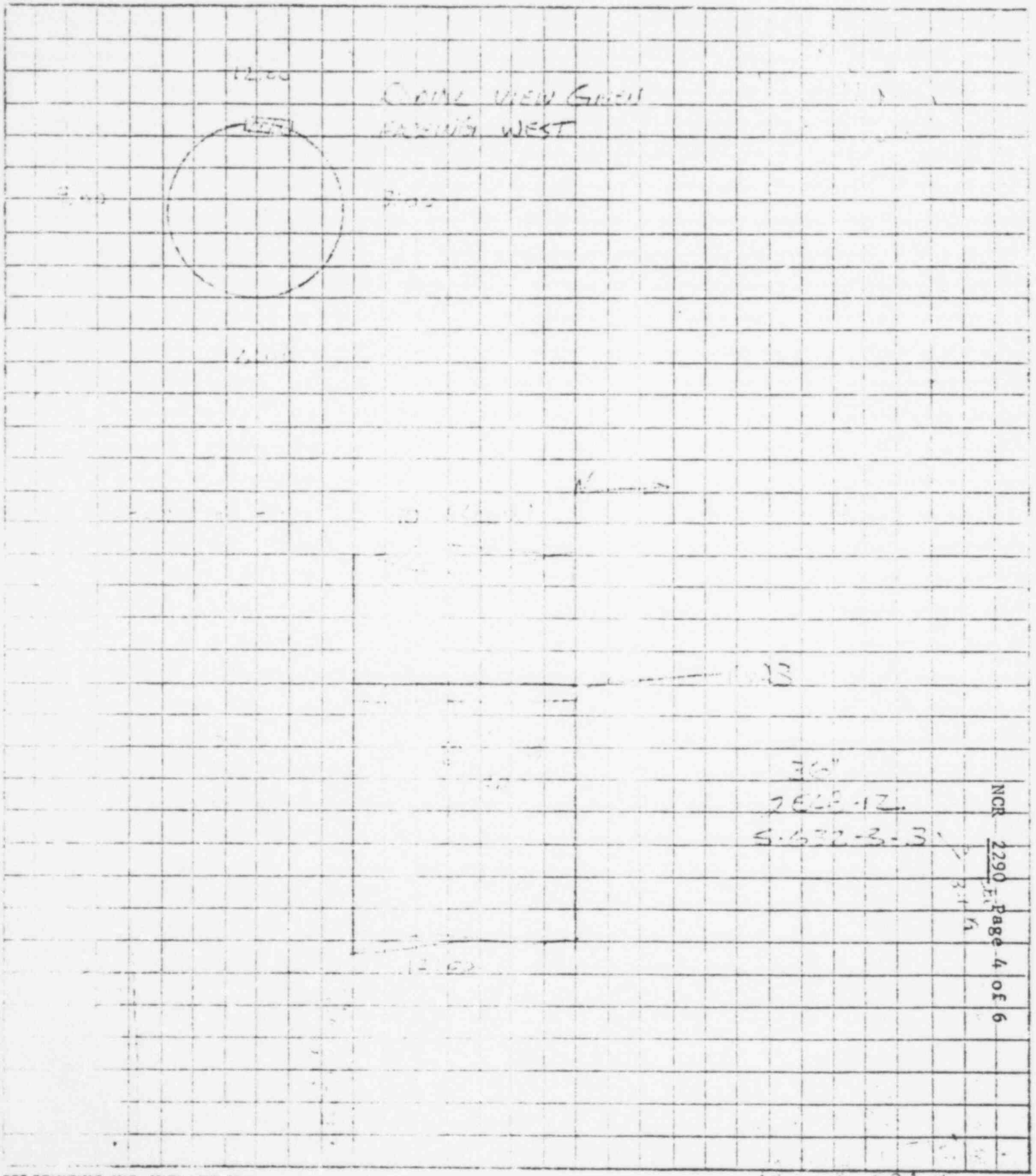
PROJECT Midland, Michigan

JOB NO. 07220

SHEET 2 OF 2

NDE REPORT NO.

COMMENTS DATA SHEET FOR PENETRATION P-17



NCR 2290 Page 4 of 6

BBS PRINTING, INC., MIDLAND, MI.

POOR ORIGINAL

838 101

Peabody Testing
X Ray Engineering Company

FOSTER CITY – MAIN OFFICE 1118 Chess Drive, Foster City, CA 94404, (415) 573-6000
SAN MATEO OFFICE 145 North Bayshore Blvd., San Mateo, CA 94401, (415) 342-4183
SAN LEANDRO OFFICE 2505 Dawn Street, San Leandro, CA 94577, (415) 569-5274

CERTIFIED REPORT of NONDESTRUCTIVE EXAMINATION

CUSTOMER				DATE
ADDRESS				CONTROL NO. OR REPORT NO.
JOB OR PROJECT LOCATION		P.O. NO.		PLAN OR DWG. NO.
SURFACE CONDITION	HEAT NO.	HEAT TREAT BEFORE ☐ AFTER ☐	TYPE OF MATERIAL	TEMP. OF MAT'L
TYPE OF EXAMINATION UT ☐ MT ☐ PT ☐	EXAMINATION STANDARD	ACCEPTANCE STANDARD	N.D.T. PROCEDURE NO.	

ULTRASONIC EXAMINATION

EQUIPMENT	TRANSDUCER	TEST BLOCK	METHOD USED	SCANNING METHOD	SENSITIVITY LEVEL

MAGNETIC PARTICLE EXAMINATION

EQUIPMENT					AMPERAGE		
	DRY ☐ WET ☐	VISIBLE ☐ FLOURESCENT ☐	AC ☐	DC ☐ RECTIFIED ☐		PROD. SPACING ____ HEAD ☐ COIL ☐	PARTICLES – COLOR

LIQUID PENETRANT EXAMINATION

METHOD	PENETRANT			CLEANER		EMULSIFIER			DEVELOPER			
	BRAND NO.	BATCH NO.	DWELL TIME	BRAND NO.	BATCH NO.	BRAND NO.	BATCH NO.	EMULS. TIME	BRAND NO.	BATCH NO.	DEV. TIME	DRY ☐ NON-AQUEOUS ☐ WET ☐

PART NO.	TOTAL LENGTH EXAMINED		TYPE OF WORK	NO. OF ITEMS ACCEPTED	NO. OF ITEMS REJECTED
	FEET	INCHES	NEW ☐ REPAIR ☐		

TYPE OF DEFECTS CODE

C – Cracks P – Porosity NF – Non-Fusion LI – Linear Indication S – Slag LA – Lamination OTHER – Specify

PC# OR SN#	ACC	REJ	DEFECT CODE	REMARKS	PC# OR SN#	ACC	REJ	DEFECT CODE	REMARKS

NCR 2290

Page 5 of 6

IN ____ A.M. / ____ P.M. OUT ____ A.M. / ____ P.M. Technician ____ SNT-TC-1A Level II

Total Hours at Jobsite Asst. Technician

Lunch ____ Standby ____ Travel Customer

Total Hours ____ Total Mileage Witnessed by ____ SIGNATURE

ENCLOSURE ADDED Yes ☐ No ☐ Page 1 of 2

PEABODY TESTING X Ray Engineering Company assumes no responsibility for losses of any kind due to interpretation

POOR ORIGINAL

FORM 112 (4/78)

838 102

938 011

BECHTEL

NDE REPORT ENCLOSURE

DATE

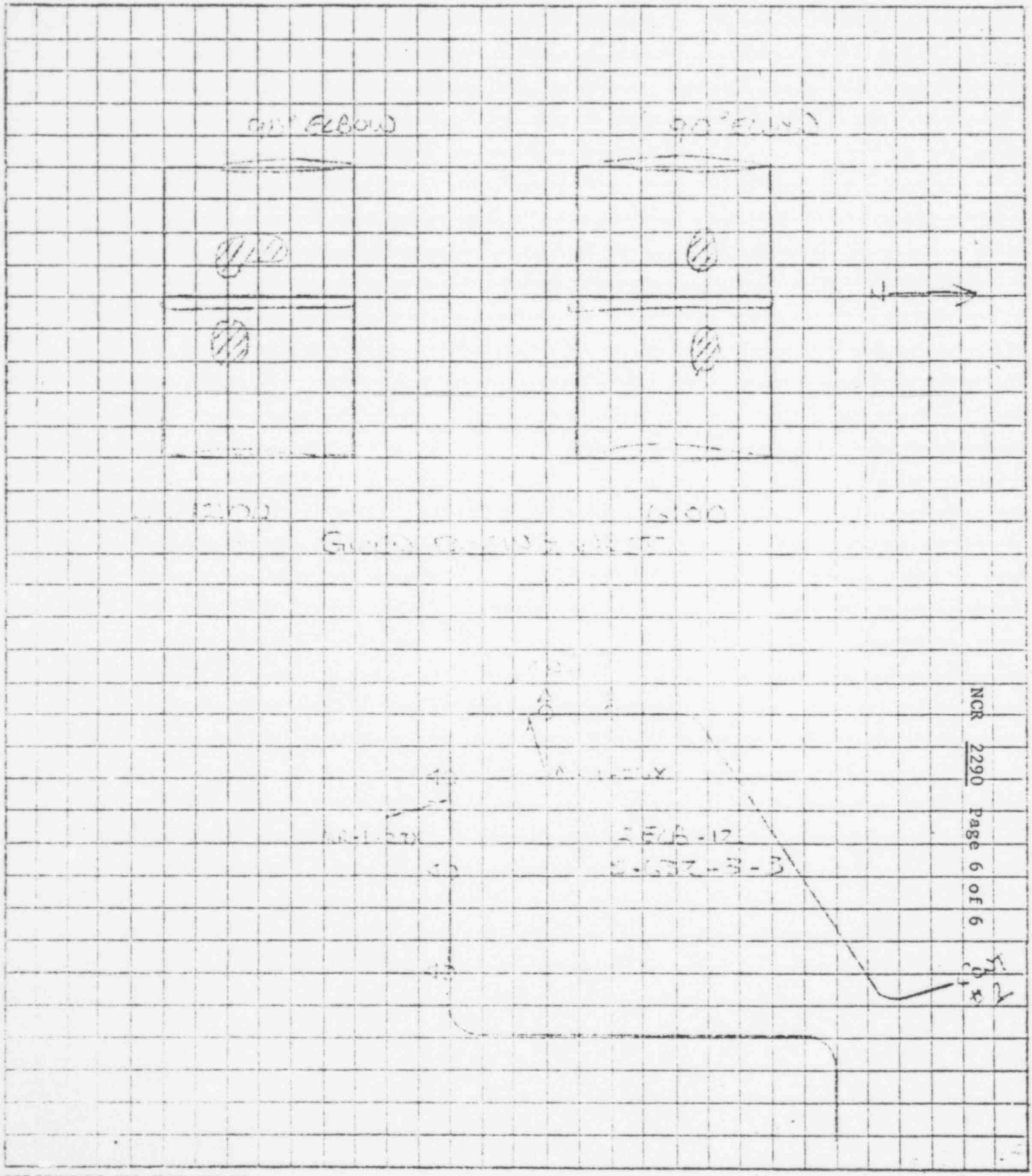
PROJECT Midland, Michigan

JOB NO. 07220

SHEET OF 2

NDE REPORT NO.

COMMENTS



NCR 2290 Page 6 of 6

POOR ORIGINAL

Clark

S.O. CODE: INDETERMINATE

0

NONCONFORMANCE REPORT

2301

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO. ~~C30B~~ T	20. PAGE 1 OF 1
2. UNIT(S): 1&2	3. DRAWING/PART NO.: N/A	REV	4. ITEM DESCRIPTION: G.E. Control Switches	5. ITEM LOCATION: W'hse #1	
6. P.O. ~~OR SPEC NO.~~: F-36664	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N ____ REV ____ SER NO. N/A	9. SOURCE: Supplier	10. ~~CONTRACTOR~~/SUPPLIER: General Electric	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. 2-100-9937 NO. G-33-Rev3		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 ( ) Client ( ) Eng (X) F.C.D

16. NONCONFORMING CONDITION: 1. P.O. F 36664 Rev.0 Request - Item 1 - 6 EA. 3 Position, maintained contact switch (CAT "CR294OUB0030 contrary to the above PART # CR294OUB003A was received. 2. P.O. F-36664 Requires a "Statement of Conformance", contrary to the above, no documentation has been received. PO number is indeterminate. Hold Pending Engineering Disposition. 1 Hold tag applied to the nonconforming ITEM.

17. REPORTED BY: G.F. Thomas DATE: 6-25-79

18. VALIDATED BY: R.F. Barclay DATE: 6-25-79

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

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

RETURN TO VENDOR R.F. Summer 6-26-79
PROCUREMENT TO PROVIDE DOCUMENTATION

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
	X		

J.D. Gilmore JDG 6/26/79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

R.F. Barclay 7-2-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

ITEM 1 - MATERIAL RETURNED TO VENDOR ON SHIPPING NOTICE 7220-7381 on 7-11-79.

ITEM 2 - STATEMENT OF CONFORMANCE Recieved, Reviewed, and accepted

G.F. Thomas 7-12-79

26. QC ACCEPTANCE G.F. Thomas 7-12-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

838 104

X

Not

NONCONFORMANCE REPORT

No CODE INDETERMINATE

1. PROJECT NAME: MIDLAND | JOB NO.: 7220 | 19. NO. 2308 | 20. PAGE 1 OF 1

2. UNIT(S): MIXED | 3. DRAWING/PART NO.: N/A | REV: N/A | 4. ITEM DESCRIPTION: (42 ea) 3" .216W LR 90 ELL (STD) SA-234-WPB | 5. ITEM LOCATION: WHSE # 1

6. P.O. OR SUBCONTRACT: F-36501 | 7. SERIAL NO.: N/A | 8. REPLACEMENT PART P/N ____ REV ____ SER NO. N/A | 9. SOURCE: SUPPLIER | 10. MFR/FABR/SUPPLIER: CHICAGO TUBE & IRON

11. INSPECTION CRITERIA: ( ) DWG ( ) SPEC (X) OTHER | IR NO: Rec 9930 NCR F-36501 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: SPEC. M-215 rev. 2 REQUIRES AG-321-D. Contrary to this NO G-321-D FORM WAS RECEIVED. "Q" Number is indeterminate. Held for Engineering disposition. Hold TAG APPLIED TO NONCONforming Items.

17. REPORTED BY: [signature] DATE: 6/27/79

18. VALIDATED BY: [signature] DATE: 6-27-79

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

D. Shot 6/27/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
DOC			

[signature] 6/27/79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE
[signature] 7-2-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

DOCUMENTATION RECEIVED AND REVIEWED DE 7/6/79

26. QC ACCEPTANCE [signature] 7/6/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

838 105

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 2 19NCR NO 2308

CONDITIONAL RELEASE FOR INSTALLATION TO POINT OF HYDRO. MATERIAL REMAINS RETREVABLE CORRECTIONS OR REMOVAL CAN BE ACCOMPLISHED W/O CAUSING DAMAGE OR CONTAMINATION TO ASSOCIATED PLANT EQUIPMENT.

J. J. [illegible] 6/27/79
OFE date

W. L. Buelaffe 6/27/79
PFQCE date

E. Smith 6/27/79
for. PQAE date

POOR ORIGINAL

838 106

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NONCONFORMANCE REPORT

START UP CODE: INDETERMINATE

1. PROJECT NAME	JOB NO.			19. NO. 2315	20. PAGE 1 OF 2
MIDLAND	7220				
2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION		5. ITEM LOCATION
INDETER	N/A		560'9" (243 RS) 2" SCH 80 SMLS C.S. PIPE SA-106 GR. B		QC Hold Voorhees

6. P.O. OR SPEC NO. Rev 0 Rel 1 Rev 0	7. SERIAL NO.	8. REPLACEMENT PART P/N N/A REV SER NO.	9. SOURCE	10. CONTRACTOR/SUPPLIER
7220-F-3152	N/A		SUPPLIER	Guyon Alloys Inc.

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. R100 9173 NO. F 3152 Rev D	( ) YES (X) NO	( ) YES (X) NO	(X) Rec'g ( ) Const ( ) Test	( ) Client ( ) Eng (X) FLD

16. NONCONFORMING CONDITION: PURCHASE ORDER 7220-F-3152 REV 0 RELEASE 1 REV 0 REQUIRES QUALITY VERIFICATION DOCUMENTATION IN ACCORDANCE WITH SPECIFICATION 7220-M-305 REV. 4. (1) M-305 REQUIRES THE SUPPLIER TO SUBMIT A G-321-D AS INCORPORATED IN REV. 4. CONTRARY TO THE ABOVE, THE SUPPLIER SUBMITTED A G-321-D FROM M-305 REV. 3. (2) THE SUPPLIER IS REQUIRED TO COMPLETE ENTRY NUMBER 8 OF THE G-321-D BY ENTERING THE NUMBER OF (CONT'D PAGE 2)

17. REPORTED BY DATE: Rob Williamson 6-28-79

18. VALIDATED BY DATE: for E.W. Barsky 6-29-79

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.

Samuel Lee 7-5-79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
DOS			

PROJECT FIELD ENGINEER DATE: K.F. Gilmore 7/5/79

PROJECT ENGINEER DATE

PROJ CONSTR QC ENGINEER DATE: E.W. Barsky 7-5-79

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Corrected documentation is received, and accepted.
Rob Williamson 7-5-79

26. QC ACCEPTANCE
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

838 107

10

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 2 19NCR NO 2315

(CONT'D FROM BLK 16)
PAGES OF EACH TYPE OF QUALITY VERIFICATION DOCUMENTATION BEING SUBMITTED FOR THE UNITS BEING RELEASED. CONTRARY TO THE ABOVE, THIS PORTION IS NOT FILLED IN BY THE SUPPLIER. (3) IN ENTRY NUMBER 16 (QUANTITY) OF THE G-321-D THE SUPPLIER IS TO ENTER THE NUMBERS OF UNITS COVERED BY THE QUALITY VERIFICATION DOCUMENTS BEING SUBMITTED. CONTRARY TO THE ABOVE, THE SUPPLIER ENTERED "SEE ATTACHED TALLY". (4) IN ENTRY NUMBER 20 (TRACEABILITY) OF THE G-321-D THE SUPPLIER IS TO ENTER IDENTIFICATION NUMBERS TRACEABLE TO THE UNITS BEING RELEASED. CONTRARY TO THE ABOVE, THE SUPPLIER ENTERED "SEE ATTACHED TALLY".
HOLD FOR ENGINEERING DISPOSITION.
"Q" NUMBER IS INDETERMINATE.
5 HOLD TAGS APPLIED.

POOR ORIGINAL

838 108

X BEC BECHTEL

Corrected Copy

NONCONFORMANCE REPORT 1PRB & 2PRB

1. PROJECT NAME: Midland		JOB NO.: 7220		19. NO. 2317	20. PAGE 1 OF 2
2. UNIT(S): 1 & 2	3. DRAWING/PART NO.: E-610	REV: 11	4. ITEM DESCRIPTION: Distribution Panels 1BP04 & 2BP04		5. ITEM LOCATION: Aux Bldg 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 (X) SPEC (X) OTHER IR NO. CL.50-EH 279 NO. E-15		12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( )Rec'g (X)Const ( )Test	15. Equip Furnished By ( )Client (X)Eng ( )FLD

16. NONCONFORMING CONDITION: IOM BEBC 2624 requires 5" embed of anchors supporting 1 & 2BP04. Contrary to this requirement, there are H coded length anchors used on both panels. H code indicates From 5" up to but not including 5½" length.

Hold for Engineering Disposition 2 Hold Tag applied
Q-List # 3.108

17. REPORTED BY: [signature] DATE: 7/2/79

VALIDATED BY: [signature] DATE: 7-12-79
[signature] 7-2-79

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

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

"USE AS IS"

W. B. [signature] 7/11/79
B. Matthews 7-13-79

Anchor installations should meat All raquiraments of the C-305 RaF. REM E-1779.

23. PROJECT ENGINEERING DISPOSITION [signature] 7/10/79

Project Engineering has investigated the reported nonconformance and finds the following: 1.) REM E-1779 states that the expansion anchors listed in IOM BEBC-2624 shall be installed with all requirements, including embedment lenghts, per Specification 7220-C-305. BEBC-2624 is incorrect when it states that a 5 inch minimum embedment for 3/8" diameter bolts is a requirement of Specification 7220-C-305. 2.) Vendor drawing 7220-E45-3-4 specifies that expansion anchors for 1BP04 and 2BP04 shall be installed per Specification 7220-C-305.

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

C. Thies RPE 7-5-79
PROJECT FIELD ENGINEER DATE
L.L. Bassman/ELC 7-11-79
PROJECT ENGINEER DATE
D.G. deBarclay 7-30-79
PROJ CONSTR QC ENGINEER DATE
AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS [signature] 7/30/79
Re-inspected & determined that anchors meet 1½" embedment

26. QC ACCEPTANCE [signature] 7/30/79
QC ENGINEER DATE
AUTHORIZED INSPECTOR DATE

(Continued page 2)

POOR ORIGINAL

838 109

BECHTEL

NONCONFORMANCE REPORT (CONT'D) 1 PAGE 2 OF 2 14 NCR NO. 2317

BLOCK 16 CONTINUED

The anchors installed are Hilti and all H coded Hilti anchors that I have measured were 5.0" long. The shortest exposed length measured was .75" leaving 4.25" embedded. This does not leave the required 5" embed stated in the IDM

QC 7-12-79 Signature 7/12/79

23. PROJECT ENGINEERING DISPOSITION CONTINUED: Inasmuch as items 1 and 2 above indicate that Specification C-305 is the governing document for expansion anchor installation, and since Specification C-305 requires a 1 5/8" minimum embedment for 3/8" diameter, Project Engineering finds that the referenced anchors shall be reinspected to determine if a non-conformance exists. All requirements shall be in accordance with Specification 7220-C-305.

Corrected Copy

A. Alexander 7-17-79

RS

P. Corbett 7/17/79

POOR ORIGINAL

838 110

10098-2

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

QC-G33

Mat

X

NONCONFORMANCE REPORT

S/U Indeterminate

1. PROJECT NAME: mid cand	JOB NO.: 7220			19. NO.: 2327	20. PAGE 1 OF 2
2. UNIT(S): 1 & 2	3. DRAWING/PART NO.: 7220-M18-152	REV: 7	4. ITEM DESCRIPTION: STARTING AIR RECEIVERS TAG # 1T93 A, B, C, D 2T93 A, B, C, D		5. ITEM LOCATION: POSEY VILLE
6. P.O. ~~OR SPEC NO.~~: M-18-MC REV. 10	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N ____ REV ____ SER NO. N/A	9. SOURCE: SUPPLIER	10. CONTRACTOR/~~SUPPLIER~~: DELAVAL ENGINE	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. ~~7220-SPEC-7223~~ NO. M-18 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:

1. Specification 7220-M18 Rev. 5 states in Part. A permanent corrosion-resistant name plate shall be attached to each item shipped containing Buyer order number and Equipment number. Contrary to the above, TAGS on 8 starting air receivers do not contain Buyer order number.

(cont page 2)

17. REPORTED BY: C.T. Mathew DATE: 7-6-79

18. VALIDATED BY: C.B. Barclay DATE: 7-9-79

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

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

XX P.O. Number to be wired to tanks.

Procurement supervisor to obtain proper documentation. D.B

D. Stott 7/24/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
DOC			

J.K. Quarterman 7/24/79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

C.B. Barclay 7-26-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

ITEM 1 - TAGS Recieved from vendor & Installed on ALL 8 STARTING AIR RECIEVERS.

C.T. Mathew 7-27-79

ITEM 2.

Proper Documentation Recieved, Reviewed & accepted.

C.T. Mathew

7-27-79

26. QC ACCEPTANCE C.T. Mathew 7-27-79

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

838 111

Block 16 cont.

2. QCIR-7220-R1.00 Rev. 8 states, Review the completed form G-220 for availability, Legibility, traceability and stop inspector's signature. contrary to the above, Ref. 12.0 (welding Procedure) No traceability from welders to welds in neither Documentation or Starting Air Receivers weld markings.

Φ number are 4.521 & 4.522. Hold pending Engineering disposition & Hold tags applied to non conforming Items.

POOR ORIGINAL

838 112

Cat

NONCONFORMANCE REPORT S/U NO. B&W EQUIPMENT 105

1. PROJECT NAME: MIDLAND		JOB NO. 7220		19. NO. 2333	20. PAGE 1 OF 2
2. UNIT(S): INDETERMINATE	3. DRAWING/PART NO.: N/A	REV	4. ITEM DESCRIPTION: 75 EACH 1/2" x 3/8" DOWELS FOR CROM INDEXING HOLE MOD. ECA-34		5. ITEM LOCATION: WAREHOUSE 1
6. P.O. OR SPEC NO.: M-1.1	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV SER NO.	9. SOURCE: SUPPLIER	10. CONTRACTOR/SUPPLIER: BABCOCK & WILCOX	
11. INSPECTION CRITERIA: ( ) DWG (X) SPEC ( ) OTHER IR NO. R-2.00-9904 NO. M-1.1		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. NONCONFORMING CONDITION: PQCI/IR. R-2.00 REQUIRES that DOCUMENTATION be AVAILABLE AND LEGIBLE FOR EACH SHIPMENT. CONTRARY TO THIS, THE ABOVE ITEMS WERE DELIVERED AT THE JOB SITE WITHOUT DOCUMENTATION. HOLD FOR DISPOSITION. "Q" LIST N/C IS INDETERMINATE. ONE (1) HOLD TAG APPLIED TO THE CONTAINER.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
R Valentine	7-7-79	(QA) J Barclay	7-10-79

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

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

OBTAIN REQ'D DOCUMENTATION

F.A. Guetling 7/31/79
B&W Site Consultant

J Boon 7-25-79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
DOC			

J Boon 7-25-79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

J Barclay 7-25-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

DOCUMENTATION RECEIVED AND ACCEPTED.
Deana Delaney 7/25/79

26. QC ACCEPTANCE
Deana Delaney 7/25/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

838.113

0

alab

NONCONFORMANCE REPORT

start up code: indeterminate

1. PROJECT NAME: Midland	JOB NO. 7220			19. NO. 2368	20. PAGE 1 OF 1
2. UNIT(S): indeterminate	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: 17,700 Hilti Kwik Bolts P.O. item #'s 1-10 and 12013		5. ITEM LOCATION: WHSE #1
6. P.O. OR ~~SPEC~~ NO.: F35159	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N ____ REV ____ SER NO. N/A	9. SOURCE: supplier	10. ~~CONTRACTOR~~/SUPPLIER: Hilti Fastening Systems	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER — IR NO. R-1.00-9949 NO. C-305 Rev. 8	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 Specification C-305 Rev. 8 requires documentation in accordance with form G-321-D. Contrary to the above, no documentation was received for the 17,700 Hilti Kwik Bolts received on AEO-9949. "Q" number is indeterminate until installation. Hold pending final disposition. 4 Hold tags Applied.

17. REPORTED BY: Michael J. Moore — DATE: 7-19-79

18. VALIDATED BY AND: K.K. Barclay — DATE: 7-19-79

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 DOCUMETATION.

S. Hawey 7-23-79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
POS			

PROJECT FIELD ENGINEER — DATE 7-23-79

PROJECT ENGINEER — DATE

PROJ CONSTR QC ENGINEER — DATE 7-23-79

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

Documentation received and reviewed MJM 7-23-79

26. QC ACCEPTANCE: Michael J. Moore — 7-23-79

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

POOR ORIGINAL

838.114

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.		
WFMP-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 specified

2) P. O. No.'s F-30604Q & F-30559Q 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-30559Q 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-30604Q was dated 9/8/78 item 9) of the P.O. indicated 1977 Ed. W/W-77 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. Newgen, Proj. Supt.

13. CORRECTIVE ACTION TAKEN

(1) Documentation which accompanied this material was checked and determination made that the material complied with the applicable specification and codes.
(2) P.O.'s F-305590 and F-306040 were revised 5/15/79 deleting conflicting statements.
(3) Instructions were issued (P. Alverson Memo dated 5/25/79) to discontinue use of standard statement regarding specifications and code revision unless invoked via an FMR.

14. DATE COMPLETED	15. SUBMITTED BY RESPONSIBLE AUTHORITY	16. CORRECTIVE ACTION ACCEPTED XXXXXXXXX
6/22/79	J. F. Newgen	W/ Date 7/2/79 QAE

17. VERIFICATION ACTIONS BY QAE

Verified P.O.'s F-305590 and F-306040 have had revisions incorporated deleting the conflicting statements. One order (F-368430) issued since the audit was reviewed and found satisfactory.

18. IMPLEMENTATION ACCEPTED XXXXXXXXXX	QAE	DATE 7/2/79

19. DISTRIBUTION

POOR ORIGINAL

QUALITY ASSURANCE FINDING

PAGE 1 OF 1

1. PROJECT/DEPARTMENT/SUPPLIER	2. TYPE OF AUDIT/SURVEILLANCE	3. AUDIT IDENT.
Midland 1 & 2 Job 7220	OFFICE ☐ FIELD ☒ Construction	SA-64 (12-1-5)
4. AUDITOR	**5. DATE OF FINDING**	**7. DISCUSSED WITH**
W. J. Creel	May 3, 1979	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

(1) A Revision to purchase order F 34015Q indicating the correct revision to drawing C-667 was issued May 25, 1979.

(2) The Buyer has verifed that the correct drawing was received by the vendor.

(Note: Work on this order is pending approval of the suppliers QA Manual).

14. DATE COMPLETED	15. SUBMITTED BY RESPONSIBLE AUTHORITY	16. CORRECTIVE ACTION ACCEPTED	
May 29, 1979	J. F. Newgen (IOM dtd 5/29/79)		6/5/79 QAE

17. VERIFICATION ACTIONS BY QAE

Verifed issue of revision to PO F 34015Q.
Rev. 1 dated May 25, 1979. No further action required.

18. IMPLEMENTATION ACCEPTED	QAE	DATE
		6/5/79

19. DISTRIBUTION

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BPC 20871
0100165N 01

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-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 identifications.

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 and 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 ACTIONS

(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

(1) A nonconforming material segregation area has been established in the Class "A" Storage Area.
(2) Nonconforming material has been segregated per FP-IJI-1 requirements and a marked area established for the B & W material on hold.
(3) Warehouse personnel have been instructed regarding storage and segregation of QC Hold and nonconforming material.

14. DATE COMPLETED	15. SUBMITTED BY RESPONSIBLE AUTHORITY	16. CORRECTIVE ACTION ACCEPTED	NOT ACCEPTED	
6/27/79	J. F. Newgen & T. C. Valenzano		XXXXXXXXXX	6/27/79 DATE

17. VERIFICATION ACTIONS BY QAE

A walk through inspection of subject areas was made on 6/27/79 and material was found to be properly segregated. Discuss remedial training with warehouse supervision and obtained copies of training memo's with sign offs by trained personnel.

18. IMPLEMENTATION ACCEPTED	XXXXXXXXXX		DATE
		QAE	6/27/79

19. DISTRIBUTION

POOR ORIGINAL

QUALITY ASSURANCE FINDING

1. PROJECT/DEPARTMENT/SUPPLIER	2. TYPE OF AUDIT/SURVEILLANCE OFFICE ☐ FIELD ☒	3. AUDIT IDENT.
Midland 1 & 2 Job 7220	Construction Audit	QAE SA-70 (12-1-5)
4. AUDITOR	**5. DATE OF FINDING**	**7. DISCUSSED WITH**
E. Smith	May 3, 1979	C. Stubbs M. Hadsel
6. CONTROLLING DOCUMENT, SECTION, PARAGRAPH, ETC.		
NQAM Section III No 11 Para 3.1.3		

8. REQUIREMENTS

The above document states, " . . . and coordinating the review and approval of the selected 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 ACTIONS

(1) Take appropriate action to resolve this specific case.

(2) Investigate other purchase orders to determine scope of this problem and take appropriate corrective action.

(3) Take appropriate action to prevent recurrence of this problem.

11. PROPOSED COMPLETION DATE	12. RESPONSIBILITY FOR CORRECTIVE ACTION
(1),(2), & (3) 6/15/79	J. F. Newgen Proj. Supt.

13. CORRECTIVE ACTION TAKEN

(1) A copy of the QA manual for the ALFAB Corporation was received on May 14, 1979 and submitted to Ann Arbor for review and approval.
(2) A review of all open Q purchase orders was made to determine that all requirements of an approved Q supplier were met. No other cases similar to P.O. 7220-F-34015 with the ALFAB Corporation were found.
(continued on Page 2 of 1).

14. DATE COMPLETED	15. SUBMITTED BY RESPONSIBLE AUTHORITY	16. CORRECTIVE ACTION ACCEPTED
6/13/79	J. F. Newgen & T. C. Valenzano	XXXXXXXXXXX QAE

17. VERIFICATION ACTIONS BY QAE

Selected two additional P.O. 's F-362220 5/17/79 (InRyCo) and F-368450 6/28/79 (N.P.S. Industries) which invoke 7220-G-23 and verififed suppliers have approved quality manuals.

18. VERIFICATION	DATE
ACCEPTED XXXXXXXXXX QAE	7/3/79

19. DISTRIBUTION

POOR ORIGINAL

QUALITY ASSURANCE FINDING

(continued)

(3) All buyers and the Purchase Order Supervisor were instructed to ensure that all quality requirements to approve a supplier are met under all specifications, e.g. ASME, Q List, bulk items list and G-23.

cc: J. Corley
W. Bird
D. Miller

QUALITY ACTION REQUEST

AI/823

From: L. A. Dreisbach (1)		
To: J. F. Newgen (2)	Control Document ref.: Spec(s) M-215 and M-305 (3)	QAR Ident. No.: SD-220 (4)

Action Requested: (5)

Persuant to the AAO-QA Mgr's request, the discipline QAE performed an indepth review of field material requisitions (FMR's) for Nuclear stainless steel piping and fittings. The results of the review indicate that in some cases no documentation is available to confirm that solution annealing and quenching as required by spec (See blk 3) was performed. Project Quality Assurance requests the following action to be taken:

1) Obtain manufacturer's statement of conformance or evidence (i.e. heat-treat charts including cooling cycle) to determine the requirements of the specification have

(continued on the following page)

Signature: LA Dreisbach (6)	Date: ~~6/18/79~~ 7/7/79 (7)	Reply Requested by: ~~7/18/79~~ 8-7-79 (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

BPC-20877
G1001549-05

QUALITY ACTION
REQUEST

1) been met for the Item No.'s 1, 4, 5, 6, 8, 11, 13, 14, 26 (Column (1)). (These were field procurements without shop inspection).

2) Review records of field procured stainless steel pipe and fittings to spec M-215 and M-305 to establish that proper solution annealing and quenching was performed.

QA REVIEW
6-9-78

Pg. 1 of 3

① Item No.	② Material Mfgrs:	③ Documentation Nos	④ Type Heat Treatment / ⑤ Type Cooling:	Tim Spec. A-201, A-213 or A-312 ⑥ Sat:	⑦ Unsat:	⑧ Indeterminates	⑨ Comments:
(1)	SANDVIK:	AEO's 3640 & 4468	Solution Anneal @ 1950°F min. / Rapid Cooling			✓	Method or medium not indicated
(2)	SANDVIK	AEO - 9442, 9200, 3771 3206	Solution Anneal @ 1900°F min / Followed by Rapid Quenching.	✓			
(3)	LADISH	AEO - 3425	Solution Anneal @ 1950°F / Water Quench	✓			
(4)	Metallon	AEO - 4605	Heat Treatment for SA182 F304			✓	Para. 5.2 of SA-182 allows rapid cooling by other means.
(5)	AL Tech	AEO - 4199, 3759	None indicated			✓	Need Insp's statement of compliance or documented evidence to determine requirement has been met.
(6)	AL Tech	AEO - 3979, 3980	Annealed & Pickled to SA-312			✓	Para. 5.4.1 of SA-312 allows rapid cooling by other means
(7)	AL Tech	AEO - 9464	Solution Anneal @ 1900°F / Followed by H_2O Quench To Less than 800°F	✓			
(8)	Allegheny Ludlum	AEO - 4341	None indicated			✓	Same as for Item 5 above
(9)	Allegheny Ludlum	2 HCB-33-5-699-2-1 AEO - 2989	Solution Anneal @ 1906°F / H_2O Quench	✓			
(10)	Custom Alloy	AEO - 2664	Solution Anneal 1950°F ± 50°F / H_2O Quench To Less Than 800°F within 3 min	✓			
(11)	B & W	AEO - 4197	Annealed & Pickled stated only			✓	Same as for item 5 above.
(12)	B & W	AEO - 5077, 4'-2CCB-10-S604-3-6	Solution Anneal @ 1900°F / H_2O Quench	✓			
(13)	B & W	16CC-1-S-652-2-2	Solution Annealed only stated			✓	Same as for Item 5 above.

POOR ORIGINAL

838 122

QA Review
Con't

Item #	Material Mfger:	Documentation No:	Type of Heat Treatment & Cooling Rates:	Per Specs M-201, M-207 or M-305 Sat:	Unsat:	Indeterminate:	Comments:
(14)	B & W	AEO-4634	Solution Annealed & H_2O Quenched			✓	same as for Item 5 (Transfer Annealed)
(15)	B & W	2 HCB-33-S-649-2-1 AEO-2989	Per SA 403 Para 6.1			✓	Para 6.1 of SA 403 allows cooling in air or equivalent medium at a sufficient rate to prevent precipitation
(16) Add	Custom Alloy	2 CCB-70-S-604-3-4	Solution Anneal/ 2062°F ± 87½° / H_2O Quench	✓			Typo evident ± 87½°
(17)	Flow Line	2 CCB-70-S-604-3-6	Solution Anneal 1950°F H_2O Quench To < 600°F < 3min	✓			
(18)	do	AEO-4634	Solution Anneal - H_2O Quench	✓			
(19)	do	AEO-3498, 3741, 3889	Solution Anneal @ 1950°F - H_2O Quench To Black (Room) Less than 3 min	✓			
(20)	do	IGCC-3-S-654-2-1 (CMTR RWF-7)	Under "MFG & FC & MS NDE (Rigmat) Per Kicker Flyer			✓	same as for Item 5
(21)	Gulf & Western	2 E-CCB-70-S-604-3-8	Solution Anneal 1925-2025°F - H_2O Quench	✓			
(22)	EPG (G&W) Div	1 HCB-33-S-649-2-1	Solution Anneal/ 1950°F - H_2O Quench	✓			
(23)	EPG (G&W) Div	AEO-3463, 3639, 3666 4734	Solution Anneal 1900-2050°F - Transfer To H_2O from Furnace Zone	✓			Anticipated Quench Temp stated To be 1900-2050°F
(24)	Carnco	AEO-3279, 3422, 3516	Solution Anneal - H_2O Quenched	✓			
(25)	Trent Tube Div	AEO 3105, 4161, 4250 3415 1 HCB-33-S-649-2-1	Solution Anneal 2000°F - H_2O Quench	✓			
(26)	Trent Tube Div	AEO-4166	Solution Anneal 1950°F ± - Rapidly Cooled			✓	same as for Item 5

POOR ORIGINAL

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QA Review

Item #:	Material Meets:	Documentation Identification:	Type of HT. Treatment / Cooling (Cont)	Per Spec. M-651, M-652, M-653 Sat.	Unsat	Indefinite	Comments:
(27)	Western Forge & Fly Co.	AEU-5450	Solution Anneal 1950°F – H_2O Quench	✓			
(28)	Colt Corp.	2CCA-M-S-604-34A	Solution Anneal 1950°F – H_2O Quench	✓			
(29)	Union Damascus	(Control 2252) 2HCC-164-S-649-2-1 IIT Grinnell – MR-33-22	None Indicated			✓	same as for item 5
(30)	Ryerson	16CC-1-S-652-2-2	Solution Anneal 2000°F – H_2O Quench	✓			
(31)	National Fly Co.	16CC-1-S-652-2-1	Solution Anneal 1950°F – H_2O Quench	✓			
(32)	Simpco	2HCB-1-S-613-6-10A (Control 751)	Solution Anneal 1975-2000°F – H_2O Quench	✓			
(33)							

POOR ORIGINAL

QUALITY ACTION REQUEST

cc: J. Corley
D. Miller
W. Bird

AI-856

From: L. A. Dreisbach (1)		
To: J. F. Newgen (2)	Control Document ref.: M-525 Sh 3 (3)	QAR Ident. No.: SD-226 (4)

Action Requested: (5)

It has been observed that Zack has been adding stiffeners that do not appear on the drawings because of warping of the ducts. For example, Duct 17A (East end of control room behind Main Control Panel) on Zack drawing V-25-3A (Bechtel drawing M-525 Sheet 3).

Recommended Action:

1. If the addition of stiffeners is considered to be good practice, then have it properly documented.
2. Document the nonconformance items.

Signature: (6) E. Smith for L.A.D.	Date: (7) 7/3/79	Reply Requested by: (8) 7/30/79

Reply: (9)

Signature: (10)	Date: (11)	
Action Verified: (12)	Date: (13)	

8/2/74

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QUALITY ACTION REQUEST

cc: J. Corley
D. Miller
W. Bird

AI-855

From: E. Smith (1)		
To: W. L. Barclay (2)	Control Document ref.: SF/PSP G-7.1 Rev. 5 (3)	QAR Ident. No.: SD-230 (4)

Action Requested: (5)

Paragraph 6.1.3 of the Referenced procedure requires that special records such as radiographs be packaged and stored as recommended by the manufacturer of these materials. During performance of Project Moniter M10.3.5, the QC Bault could not provide objectives evidence that this requirement had been complied with.

You are requested to:

1. Obtain or provide the manufacture recommendation for packaging and storage of special records as required by the Ref Procedure.

(CONTINUED ON THE FOLLOWING PAGE)

Signature: E. Smith (6)	Date: 7/3/79 (7)	Reply Requested by: 7/20/79 (8)

Reply: (9)

Signature: (10)	Date: (11)
Action Verified: (12)	Date: (13)

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QUALITY ACTION
REQUEST

2. Take appropriate action to assure compliance with Paragraph 6.1.3 of the referenced procedure in the future.

3. Provide assurance that the special records now stored in the QC Vaults have not deteriated because of non-compliance with para 6.1.3 of the ref Procedure.

X

QUALITY ACTION REQUEST

cc: J. Corley
D. Miller
W. Bird

File Copy

AI-853

From: Bob Ablondi (1)		
To: R. L. Castleberry (2)	Control Document ref.: Spec M-14 & G-23 (3)	QAR Ident. No.: SD-231 (4)

Action Requested: (5)

Para 6.1.1 states in part that the pumps, associated heat exchangers, water piping and valves are to be designed and constructed in accordance with ASME B and PV Code Section III Cl.3. Attachment 1 i.e. Spec G-23 para 2.3.1 requires an SDDR for any departure from the requirements of the procuring documents which the supplier intends to incorporate in the completed item - - - etc. Contrary to the above, Aux Fdwtr Pump/Turbines where received without the requirements of para 6.1.1 being met. There was no SDDR initiated or exception taken in Block 22 of the G-321D form for the ref. departure.

(CONTINUED ON THE FOLLOWING PAGE)

Signature: R. L. Castleberry (6)	Date: 7/2/79 (7)	Reply Requested by: 7/30/79 (8)

Reply: (9)

Signature: (10)	Date: (11)	
Action Verified: (12)	Date: (13)	

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QUALITY ACTION
REQUEST

(Proj. Engr)
Quality Action Requested:

1. Require the vendor to comply with the Spec. G-23.

2. Appraise the cognizant Engineer of the above deviation to the Project requirements.

X

QUALITY ACTION REQUEST

cc: J. Corley
W. Bird
D. Miller
file copy

AI-853

From: Bob Ablondi (1)		
To: C. J. Buhl (2)	Control Document ref.: Spec M-18 & G-23 (3)	QAR Ident. No.: SD-232 (4)

Action Requested: (5)

Para 6.1.1 states in part that the pumps, associated heat exchangers, water piping and valves are to be designed and constructed in accordance with ASME B and PV Code Section III Cl.3 Attachment 1 i.e. Spec G-23 para 2.3.1 requires an SDDR for any departure from the requirements of the procuring documents which the supplier intends to incorporate in the completed item - - - etc. Contrary to the above, Aux Fdwtr Pump/Turbines where received without the requirements of para 6.1.1 being met. There was no SDDR initiated or exception taken in Block 22 of the G-321D form for the ref. departure.

(CONTINUED ON THE FOLLOWING PAGE)

Signature: B Ablondi (6)	Date: 7/2/79 (7)	Reply Requested by: 7/30/79 (8)

Reply: (9)

Signature: (10)	Date: (11)	
Action Verified: (12)	Date: (13)	

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QUALITY ACTION
REQUEST

(Procurement)
Quality Action Requested:

1. Implement the applicable requirements of section 1.2 of the Procurement Supplier Quality Manual.

2. Appraise the cognizant SQR of the above deviation to the Project requirements.

QUALITY ACTION REQUEST

cc: J. Corley
D. Miller
W. Bird

AI/858

From: L. A. Dreisbach (1)		
To: J. F. Newgen (2)	Control Document ref.: FIG-1.500 Rev. 0 (3)	QAR ident. No.: SD-233 (4)

Action Requested: (5)

FIG-1.400 reflects the requirements of 10CFR50 App B criterion XV. NCR 2313 (attached) describes a condition where a superintendent violated a Quality Control hold tag (NCR 1929).

Hold tags were applied to cable tray sections which did not conform to design criteria; two welds per cable tray rail were specified, whereas tray was installed with only one weld per rail.

Subsequent to tagging the discrepant tray, Field Engineering released cable to construction for pulling. Construction proceeded to pull the cable through the nonconforming cable tray without a conditional release or coordination with the QCE.

(CONTINUED ON THE ATTACHED PAGE)

Signature: L A Dreisbach (6)	Date: 7/6/79 (7)	Reply Requested by: 7/20/79 (8)

Reply: (9)

Signature: (10)	Date: (11)
Action Verified: (12)	Date: (13)

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QUALITY ACTION
REQUEST

Recommended Action:

1. Project Superintendent personnally direct the Electrical Superintendent involved to not allow work to proceed until questions regarding hold tags are resolved.

2. Provide instruction to insure cognizant craft, Field Engineering and Superintendents are made aware of hold tags requirements (reference FIG-1.500) which requires coordination with the QCE named on the Hold Tag or his supervisor.

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.			19. NO.	20. PAGE
Midland	7220			1929	1 OF 1

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
1	E-616, Sh. 1	9	Trays: 1BTE03, 1BJG01, 1BTA05, 1BJF03	Aux. Bldg 614', 5.6 to 5.9, HtoER

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
(X) DWG ( ) SPEC ( ) OTHER IR NO. 1BJG01, 1BTE03 NO. 1BTA05, 1BJF03	( ) YES (X) NO	( ) YES (X) NO	( ) Rec'g (X) Const ( ) Test	( ) Client ( ) Eng (X) FLD

16. NONCONFORMING CONDITION: Welding detail for attaching vertical tray to a horizontal support is specified per detail 4C, E-703, Rev. 9. This detail calls for two welds per rail. Contrary to the above, trays 1BTE03, 1BJG01, 1BTA05, and 1BJF03 have been installed with only one weld per rail, just below 634' 6". Some cable has already been pulled in this tray.

"Q" list 3.005

4 "HOLD" tags applied Hold for Engineering disposition

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
CA Cameron	3/1/79	RB Barclay	3/5/79

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

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

23. PROJECT ENGINEERING DISPOSITION

BECHTEL POWER CORP.
JOB 7220

2/6

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

QA	O K
ROUTE	
LOAD	NO
CIVIL (1)	
MECH	
PIPING	
ELECT.	RQA
INST.	
TREND	(1)
SEC'Y	
FILE NO.	

26. QC ACCEPTANCE

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

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S/u ISAB

NONCONFORMANCE REPORT

1. PROJECT NAME: MIDLAND	JOB NO.: 07220			19. NO. 2313	20. PAGE 1 OF 2
2. UNIT(S): 1+2	3. DRAWING/PART NO.: N/A	REV: -	4. ITEM DESCRIPTION: VIOLATION OF HOLD TAG		5. ITEM LOCATION: AUX. BLDG.
6. P.O. OR SPEC NO.: N/A	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE: Const.	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER IR NO. 50-329 BLK 79-16 NO. PSP G32	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: ELECTRICAL QCE JAMES HENDERSON NOTIFIED THE CABLE PULLING FOREMEN ROBERT JONES THAT IF HE CONTINUED THE CABLE PULL HE WOULD VIOLATE A HOLD TAG (NCR 1929). THE FOREMEN NOTIFIED HIS SUPERINTENDENT ROBERT ~~PAINES~~ BANE (6-29-79) WHO TOLD HIM TO DISREGARD THE HOLD TAG AND CONT. THE PULL. THIS CABLE WAS RELEASED TO CONSTRUCTION BY FIELD ENGINEERING. (BLOCK 16 CONT.)

17. REPORTED BY: [signature] DATE: 6-29-79

[signature] DATE 7-6-79

[signature] 6-29-79

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

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NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 2 19NCR NO 2313

(BLOCK 16 CONT.)

THE PACKET NUMBER WAS A-639, THE CABLE INVOLVED WHERE!

1BQ 396 D	1BQ 396 L	1BQ 396 Q
1BQ 396 F	1BQ 396 P	1BQ 396 T
1BQ 396 H	The I.R. No. is the same as the cable No.	

THE TRAY SECTION THAT HAD THE HOLD TAG WAS 1BTE 03.

No "Q" List No. No additional Hold tags applied
Hold For Engineering Disposition
JACK ROBERTS

UPON FURTHER INVESTIGATION IT HAS BEEN BROUGHT TO OUR ATENTION THAT THE SUPERINTENDENT WAS INFORMED THAT NCR # 1929 HOLD TAG WAS FOR THE CABLE TRAY SUPPORT. THEREFORE HE PROCEEDED WITH THE CABLE PULL.

7-6-79

7-6-79

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QUALITY ACTION REQUEST

cc: J. Corley
D. Miller
W. Bird

AI/859

From: L. A. Dreisbach (1)		
To: (2) W. L. Barclay	Control Document ref.: (3) SF/PSP G-3.2 Rev. 4	QAR Ident. No.: (4) SD-234

Action Requested: (5)

Quality Control is requested to provide provisions for identifying on a hold tag the specific item(s) that is nonconforming. This will eliminate confusion and/or mis-interpretation by construction personnel as to what a hold tag is applicable to.

Signature: E. Smith for L.A.D. (6)	Date: (7) July 9, 1979	Reply Requested by: (8) July 20, 1979

Reply: (9)

Signature: (10)	Date: (11)	
Action Verified: (12)	Date: (13)	

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QUALITY ACTION REQUEST

Pg 1 of 2

AI- 861

From: H. Ablondi (1)		
To: F. Browning (2)	Control Document ref.: Spec M-343 Rev. 4. (3)	QAR Ident. No.: SD-235 (4)

Action Requested: (5)

Para. 6.7.11 of the referenced Spec. states the the design of the welded joints shall meet the requirements of NF 3290 and NF 3390 of the Code. (ASME Section III 1974 Ed.)

Para NF 3290 and NF 3390 do not include flare or flare-bevel groove welds.

Contrary to the above the following FSKs designate flare-bevel groove welds:

M-2 HBC-196-2-H2(Q)
M-1 CCB-33-1-H4(Q)
M-1 FCB-54-1-H2(Q)
M-1 HBC-55-1-H2(Q)
M-ECB-8-1-H1(Q)
M-ECB-8-1-H2(Q)
M-2 FCB-54-1-H1(Q)
M-2 FCB-54-1-H2(Q)
M-1 FCB-46-1-H5(Q)
M-1-FCB-54-1-H1(Q)

(continued on Pg 2 of 2)

Signature: H Ablondi (6)	Date: 7-11-79 (7)	Reply Requested by: 8-11-79 (8)

Reply: (9)

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Signature: (10)	Date: (11)
Action Verified: (12)	Date: (13)

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File

QAR SD- (Con'T)

Quality Action Requested

1) Justify the above deviation to the governing Code

or.

2) Revise FSKs to conform to the Code.

3) Review other FSKs for similiar deviation.

4) Instruct detailers and checkers to conform to the permissible Types of welded joints indicated in the referenced Code paragraphs.

POOR ORIGINAL

QUALITY ACTION REQUEST

cc: J. Corley
D. Miller
W. Bird

X

AI/862

From: (1) W. J. Creel Site Q.A. Job 7220		
To: (2) R. L. Castleberry	Control Document ref.: (3) 7220-C2-146-8	QAR Ident. No.: (4) SD-236

Action Requested: (5)

Please evaluate and take necessary actions to correct or provide clarification in the following areas of concern.

(1) Section 4.4.F of C2-146-8 says in part "If one or more additional heads are found to be unacceptable, 100% of the buttonheads on that tendon will be inspected and each unacceptable wire replaced."

Requested Action:

Evaluate and delete that portion of section 4.4.F calling for replacement of wires. This is the normal method for shop operation however individual wire replacements are

(CONTI[illegible]ON THE FOLLOWING PAGE)

Signature: (6) W. J. Creel	Date: (7) 7/11/79	Reply Requested by: (8) 7/20/79

Reply: (9)

Signature: (10)	Date: (11)
Action Verified: (12)	Date: (13)

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Requested Action: (continued)

not normal in field operations.

(2) Section 4.4.H of C2-146 has conflicting figures regarding allowable rejects for buttonheads.

The first paragraph of 4.4.H says "If less than 3% of the field fabricated buttonheads (5 wires) are outside the allowable tolerances in any one tendon, the tendon is acceptable for stressing."

The third paragraph of 4.4.H says in part "The total buttonhead rejection for ten consecutive tendons in any group (hoops, domes, verticals) shall be limited to 1% as opposed to 2% for any one tendon."

Under the first paragraph 5 buttonheads outside the allowable tolerances on a single tendon would be acceptable while the third paragraph would allow only 3 rejectable buttonheads.

Requested Action:

Please resolve this conflict and revise the procedure accordingly.

(3) The Field Installation Manual for post tensioning tendons does not currently include information regarding allowable wire cut-off lengths when rebuttonheading due to rejected buttonheads.

Results of buttonheading of several tendons has revealed that some cut-off and rebuttonheading will be required.

Requested Action:

Please revise C2-146 to include allowable wire cut-off lengths. Note: An InRyCo letter to S. Grant (Field Engineering) dated April 17, 1979 addresses this subject.

POOR ORIGINAL

X

QUALITY ACTION REQUEST

Pg 1 of 5
AI-863

From: Bob AbLondi (1)		
To: R.L. Castleberry (2)	Control Document ref.: Spec M-209 & M-366 (3)	QAR Ident. No.: SD-237 (4)
Action Requested: During a scheduled monitor of support fabrication and erection, (5)		
the following conditions were found that require Project engineering		
resolution: (see attached)		
Signature: Wablondi (6)	Date: 7/11/79 (7)	Reply Requested by: 8/11/79 (8)
Reply: (9)		
Signature: (10)		Date: (11)
Action Verified: (12)		Date: (13)

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QAR-SD-237

A. Condition Noted:

Reference

Sketch No. 4" 2CCB-70-H13 Rev. 2 was field revised to indicate flare-bevel groove welds in lieu of the Vendor's designated one-quarter inch fillet welds.

Requirement

Specification 7220-M-345(Q) para. 1.0 states in part that all class 1, 2 & 3 component supports are designed in accordance with sub-section NF of the (ASME) Code.

Paragraph NF 3390 refers to Article XVII for permissible weld design in lineal supports. Paragraph XVII-2454 states that the effective area of butt and groove welds shall be the effective length multiplied by the effective throat thickness.

Finding

Contrary to the above requirement, there was no effective throat specified with the weld-symbol. There was no fillet weld (reinforcement) included with the flare-bevel groove weld symbol.

POOR ORIGINAL

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B Condition Noted

Reference

Three (3) class 1 component supports utilize tubular steel that is connected to plate steel. The weld joint design is a flare-bevel groove. The tubular steel to the

QAR 50-237

B. Condition Noted (con't)

Plate weld is designated NF 5211 "Class 1 Plate and Shell Type Support Welds for supports Nos. 14"-2CCA-21-H8 and 14"-2CCA-20-H3. The Tubular Steel to the Plate weld is designated NF5212 "Class 1 Linear supports" for support No 14"-2CCA-21-H6. (See Para "C".)

Requirements

Specification 7220-M-209 Para 1.0 states in part that the design of piping support elements etc ---- shall be in accordance with the latest issue of the ASME B&PV Code, Section III subsection NF (1974 ED)

Paragraph NF 3291 titled "Permissible Types of Welded Joints in Plate and Shell Type Welded Supports" Referenced Figure NF-3291(a)-1 depicts permissible joints for component supports, Flare-bevel groove weld design is not depicted or listed.

Findings.

POOR ORIGINAL

1) Contrary to the requirements stated above, support No. 14"-2CCA-20-H3 indicates the weld is a Plate and Shell Type weld joint. The weld symbol is designated as an un-reinforced flare-bevel groove weld.

2) Contrary to the requirements stated above, the support No 14"-2CCA-21-H8 indicates the weld as a Plate and Shell Type weld joint. The weld symbol is designated as an un-reinforced single "V" groove weld. The physical joint is a flare-bevel groove weld.

C. Condition Noted:

One class I component support utilizes tubular steel that is connected to plate steel. The joint design is a flare bevel groove. The sketch for support No. 14"-2CCA-21-H6 shows the Tubular steel to plate weld as a Linear Type (weld) joint i.e NF 5212.

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Requirements

Paragraph NF3390 and the referenced Paragraph XVII-2454 states that the effective area of the butt and groove welds shall be the effective length multiplied by the effective throat.

Finding

The above referenced sketch indicated a 1/4" fillet weld symbol with out noting the flare-bevel groove symbol. The joint is designated NF 5212; the weld joint configuration is the same as for support No 14"-2CCA-20-H30. Both tubular steel and the connecting welds run longitudinal; both plate welds also run longitudinal.

QAR SD-237

Quality Action Requested

A.1) Resolve the above conflict between the Vendor's "Field revised" sketch and the requirements of the Code.

A.2) Include in the applicable specifications or design drawings, the permissible weld joints as stated in the Code.

B.1) Require the Vendor to justify the use of flare-bevel groove weld design.

POOR ORIGINAL

B.2. If the above cannot be justified, revise all effected sketchs to indicate an acceptable weld joint design.

B.3 Require the Vendor to correct incorrect weld symbols.

C.1 Review the sketch for support No. 14"-CCA-20-H3 and ascertain if the NF 5212 is correct.

C.2 Require the Vendor to complete the designated fillet weld symbol to satisfy code requirements.

D. Effect or cause to effect a review of Vendor Calculations & sketches that include tubular steel support elements with flare-bevel groove weld.

D

QUALITY ACTION REQUEST

file copy

AI-864

From: L. A. Dreisbach (1)		
To: J. F. Newgen (2)	Control Document ref.: Spec. 7220-M-366 Rev.2 (3)	QAR Ident. No.: SD-238 (4)

Action Requested: (5)

Specification M-366 paragraph 5.2 states unless otherwise shown on the design dwgs., all welds shall be square cut.

Contrary to the above, the flare bevel groove welds attaching items 6 and item 5 of the bill of material for Support No. 4"-2CCB-70-H13 on sketch no. 2-604-3-13 (sub 3/Fl) are not square cut.

QUALITY ACTION REQUESTED

1) Justify noncompliance with the above paragraph or; rework welds to meet requirements. 2) Review work completed, and work scheduled where compliance to the above paragraph is applicable.

Signature: (6)	Date: 7/11/79 (7)	Reply Requested by: 8/11/79 (8)

Reply: (9)

Signature: (10)		Date: (11)
Action Verified: (12)		Date: (13)

8/2/74

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BPC 20877
G1001649-05

6

QUALITY ACTION REQUEST

cc: W. Bird
J. Corley
D. Miller

AI/866

From: (1) L. A. Dreisbach		
To: (2) R. L. Castleberry	Control Document ref.: (3) Spec 7220-G-34	QAR Ident. No.: (4) SD-239

Action Requested: (5)

Paragraph 3.3.1.2 of Specification 7220-G-34 which states "Project engineering authorized changes in design drawings to reflect as-built conditions" is ambiguous.

Recommended Action

Evaluate the above concern and take steps to clarify or delete the subject paragraph.

Signature: (6) LA Dreisbach	Date: (7) 7/13/79	Reply Requested by: (8) 7/27/79

Reply: (9)

Signature: (10)	Date: (11)	
Action Verified: (12)	Date: (13)	

8/2/74

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QUALITY ACTION REQUEST

Pg 1 of 3

AI-867

From: Bob Ablondi (1)		
To: W. Barclay. (2)	Control Document ref.: Spec. M-366 (QCI - W-2-00) (3)	QAR Ident. No.: SD-240 (4)

Action Requested: (5)

During a scheduled monitor of component support fabrication and erection, the following was noted:

1) Para 5.2 of the above referenced Spec., the referenced spec. noted on sketch 2-604-3-13, states in part that unless otherwise shown on the design drawings, all welds shall be square cut.

Paragraph 4.1.4 states no undersize weld is permitted either in the weld size or weld length.

Contrary to the above requirements, the designated flare bevel groove welds are not square cut at the ends. Ref. Field Revision 2-604-3-13 Sub 3/F2. (Con't Pg 2 of _)

Signature: (6)	Date: 7/13/79 (7)	Reply Requested by: 8-13-79 (8)

Reply: (9)

POOR ORIGINAL

Signature: (10)	Date: (11)
Action Verified: (12)	Date: (13)

8/2/74

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G1001649-05

QAR SD-237

2) The designated paragraph NF 5221 (Code reqmt for NDE) requires LPE or MPE (NDE) for the referenced welds. Peabody Testing performed the NDE and indicated the welds were acceptable. Ref NDE Report 7122 dated 5-21-79

Contrary to the requirements of NF 4424, the exposed ends of the welds do not meet Code requirements. at the end faces on the welds. The as welded surface does not render itself for a proper interpretation. Reference Code Interpretation III-1-78-165.

3) QCI-W-2.00 Activity No 1.0 requires that the following activity shall be accomplished prior to the actual performance of the in-process inspection activity (i.e. by review):

1.2b full and complete information regarding the Location, Type, size and extent of welds to be made is shown on the applicable drawings etc ---.

POOR ORIGINAL

Contrary to the above QCIR No. M-326-809 WR2 indicates FAWS. Sketch 2-613-2-8 Rev 4/F1 shows a 1/4" fillet welds at the tubular steel to 8" WF. Actual weld joint configuration is a flare bevel groove weld.

QCIR No. M-326-71W indicates all fillet welds. Sketch indicates 1/4" fillet welds for welding Tubular steel to existing steel (W14 x 426) column

QAR SD-~~237~~ 240

Actual weld joint configuration is a flare-bevel groove weld.

The above QCIRs have been signed-off indicating the welding is complete and acceptable. No exceptions noted.

Quality Action Requested

1) Re-open applicable QCIRs and perform the necessary re-inspections and examinations.

2) Review similar component support sketches and applicable QCIRs for similar conditions.

3) Apprise the responsible individuals of the above findings.

note:
QAR SD-237 is attached for information only.
This QAR includes related design conflicts involving Support No. 4" 9CCB-70-H13 Rev 2 (sketch No. 2-604-3-13 sub 3/F1)

POOR ORIGINAL

QUALITY ACTION REQUEST

cc: J. Corley
W. Bird
D. Miller

pg 1 of 2

AI/ 591

From: Bob Ablondi (1)		
To: (2) W. Barclay	Control Document ref.: SF/PSP- (3) 5.1 Spec 7220-M-204	QAR Ident. No.: (4) SD-242

Action Requested: (5)

Para 6.2 states in part that storage conditions shall be in accordance with Bechtel standard procedures or manufacturer's recommended procedures. Valves shall have dust proof and water-proof covers over all openings. Contrary to the above the following conditions were noted: 1) Items 2.8 (tag # 48" HLB-BF 2 MO) and 2.6 (ditto) of P. O. Spec. M-168 AC (O) were not covered as required by Para 6.2 or maintained in accordance the mfger's Recommendation for extended storage. 2) Valve Serial No. YG15-11 (Spec. M-129A) Nuclear CL.2 was not capped per Para 6.3.1 Last paragraph. Paragraph 4.3.4 of SF/PSP G-5.1 states in part that if the storage or maintenance deficiency renders the quality of an item unacceptable or indeterminate, a nonconformance report shall be initiated in accordance with SF/PSP G-3.2. (Cont)

Signature: (6) [signature]	Date: (7) 7/17/79	Reply Requested by: (8) 8/17/79

Reply: (9)

Signature: (10)	Date: (11)	
Action Verified: (12)	Date: (13)	

8/3/74

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G1001649-05

QUALITY ACTION
REQUEST

Quality Action Requested

1) Initiate the requirements of Paragraph 4.3.4 of SF/PSP G-5.1 to resolve the deficiencies noted in item (1) & (2) of this QAR.

Attachment:

Henry Pratt Recommendations for Extended Storage.

This QA was discussed with Q.C. on 7/17/79.

Attachment
To QAR SD-242

RECOMMENDATIONS FOR EXTENDED STORAGE

YOUR PRATT RUBBER SEATED VALVE HAS BEEN DESIGNED TO PROVIDE MANY YEARS OF TROUBLE-FREE SERVICE. A REASONABLE AMOUNT OF CARE SHOULD BE EXERCISED IN STORING THE VALVE TO ASSURE TROUBLE-FREE SERVICE. FOLLOWING ARE PRECAUTIONS WHICH SHOULD BE FOLLOWED REGARDING STORAGE.

OUTDOOR STORAGE

1. VALVE FLANGES SHOULD BE COATED WITH A RUST PREVENTATIVE SUITABLE FOR OUTDOOR EXPOSURE WITH A SIX MONTH PROTECTIVE EFFECTIVENESS.

2. RUBBER SEATS SHALL BE COATED WITH A SILICONE BASED GREASE.

3. ALL ELECTRICAL CONTROL COMPONENTS AND MOTOR CONTROL COMPARTMENTS SHOULD HAVE DESSICANT PLACED IN THEM.

4. ALL CONDUIT OPENINGS SHALL BE SEALED WITH PIPE PLUGS OR TO KEEP EQUIPMENT FREE FROM MOISTURE AND TO PROTECT THREADS OF CONDUIT OPENINGS.

5. VALVE AND OPERATOR ASSEMBLY SHOULD BE COVERED WITH PLASTIC SHEETING HAVING A MINIMUM THICKNESS OF 4 MILS.

6. VALVE FLANGES SHOULD BE COVERED WITH FULL CIRCLE PANELS OF $\frac{1}{4}$" EXTERIOR GRADE PLYWOOD OR TEMPERED HARDBOARD. THESE COVERS SHALL BE FASTENED TO THE VALVE FLANGES.

INDOOR STORAGE

INDOOR STORAGE WILL REQUIRE STEPS 2, 3 AND 4 LISTED UNDER OUTDOOR STORAGE.

VALVES ARE SHIPPED PREPARED FOR SHORT TERM STORAGE. ANY TIME IN EXCESS OF 90 DAYS IS CONSIDERED LONG TERM STORAGE, AND VALVES SHOULD BE PREPARED IN ACCORDANCE WITH STEPS #1 THROUGH #6 LISTED ABOVE. FOR STORAGE OVER ONE YEAR STEPS #2 AND #3 SHOULD BE REPEATED.

POOR ORIGINAL

QUALITY ACTION REQUEST

cc: J. Corley
E. Miller
W. Bird

AI: 892

From: L. A. Dreisbach (1)		
To: J. F. Newgen (2)	Control Document ref.: NQAM Section IV No. 4 (3)	QAR Ident. No.: SD-243 (4)

Action Requested: (5)

Para 3.2 C of Section IV No. 4 of the NQAM states in part that a general preventative maintenance program be provided to fulfill the requirements of Bechtel Specifications or the manufacturer's storage, protection and maintenance instructions. Para 7.1.2 of FPG 4.000 Rev. 3 and FPG 5.000 Rev. 4 states in part that the MME or his designee shall review all available documentation (i.e. dwgs, specs, mfger's maintenance inspections, warranties etc.) in order to establish requirements etc - - -.

(Continued on the following page 2 of 2)

Signature: LADreisbach (6)	Date: 7/17/79 (7)	Reply Requested by: 8/17/79 (8)

Reply: (9)

Signature: (10)	Date: (11)	
Action Verified: (12)	Date: (13)	

8/2/74

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BPC 20877
G1001649-05

QUALITY ACTION
REQUEST

1) Contrary to the above, Form F-1-242 Rev. 4 titled"Storage Information for Pipe Supports, Guides, Restraints, Anchors etc - - -", does not reflect the Vendor's preservations requirements. Reference ITT Grinnell QC Proc. No. 02A004 and ITT Grinnell's QC Procedure 09A002 dated 4-4-72. The requirements of Spec. M209 Rev. 8 Para 9.0 are not reflected.

2) Contrary to the above Vendor and specification requirements or recommendations, component supports and misc. component support elements located outside of Unit 2 containment where not preserved as required. The area is designated "Aux Bldg. "Q" stock Hanger Area." QC discipline Engineer was appraised of the above condition on 7/17/79.

Quality Action Requested

1) Review the above referenced F-1 forms and revise as necessary to meet project requirements.

2) Re-inspect and where required, restore component supports and misc. support elements to the level of protection that will meet project requirements.

3) Review other F-1 forms for similiar deficiencies and where required, initiate or cause to initiate action to correct deficiencies.

cc: J. Corley
W. Bird
D. Miller

QUALITY ACTION REQUEST

AI/H2

From: Bob Ablondi (1)		
To: R. L. Castleberry (2)	Control Document ref.: Spec. C-305 Rev. 7 (3)	QAR Ident. No.: SD-244 (4)

Action Requested: (5)

During a QA review of one hundred four (104) "Q" listed pump suction and discharge piping supports, approximately forty-nine (49) of the 104 supports, required anchor bolts. Of the forty-nine (49), forty-three (43) were detailed as expansion type anchors on the vendor's sketches. Six (6) of the forty-nine (49) were either original designations or revised by Project Engrg. to be grouted type anchors.

Specification C-305 paragraph 6 of Appendix D states in part that expansion anchors are not to be used on the first two supports on suction and discharge of pumps.

(Continued on Page 2)

Signature: VADrasbach (6)	Date: 7-24-79 (7)	Reply Requested by: 8-10-79 (8)

Reply: (9)

Signature: (10)	Date: (11)
Action Verified: (12)	Date: (13)

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BPC 20877
(100164) 05

The following supports are designated to be installed by use of expansion type anchors:

PUMP I.D.	LINE I.D.	SUPPORT I.D.
1P-73B	18"-1HBC-133	1-616-9-1
0P-73	18"-0HBC-52	0-617-7-16 0-617-7-15
0P-73 (Cont'd)	16"-0HBC-51	0-616-8-13
2P-73A	18"-2HBC-133	2-617-7-1 2-617-7-2
	16"-2HBC-134	2-617-6-1 2-617-6-2
2P-73B	18"-2HBC-133	2-617-9-1
0P-76A	8"-0HCC-50	0-614-10-27
0P-76B	10"-0HCC-12 8"-0HCC-51	0-614-8-29 0-614-10-31 0-614-10-32R
1P-58A	4"-1FCB-18 4"-1CCB-13	1-603-5-1 1-603-5-4
1P-58B	6"-1FCB-16 4"-1CCB-1	1-603-6-2 1-603-6-12 (Indeterminate)
1P-58C	6"-1FCB-15	1-603-8-1 1-603-8-2
	4"-1CCB-6	1-603-8-13 1-603-8-14
2P-58A	6"-2FCB-18 4"-2CCB-13	2-604-5-1 2-604-5-4
2P-58B	4"-2CCB-1	2-604-6-7 2-604-6-6
2P-58C	6"-2FCB-15	2-604-8-1 2-604-8-2
	4"-2CCB-6	2-604-8-13

(Continued on Page 3)

PUMP I.D.	LINE I.D.	SUPPORT I.D.
2P-64A	8"-2GCB-16	2-613-3-13
2P-64B	8"-2GCB-15	2-613-4-1
7P-05A	8"-1HBC-22 6"-1DBC-2	1-634-4-9 1-634-4-8 1-634-4-11
1P-05B	4"-1EBC-1	1-633-2-8 1-633-2-10
2P-05A	8"-2HBC-22	2-634-4-2 2-634-4-1
2P-05B	6"-2DBC-5 4"-2EBC-1	2-634-2-1 2-634-7-9
1P-60A	10"-1FCB-34	1-610-4-1
2P-60A	18"-2GCB-32 10"-2FCB-34	2-611-3-23 2-611-4-1 2-611-4-2
2P-60B	10"-2FCB-35	2-611-6-1

QUALITY ACTION REQUESTED:

1. Initiate or cause to be initiated action to resolve the above condition.

2. Apprise Construction and the Vendor of any additional conflicts that may exist or were not identified in this QAR.

cc: J. Corley
W. Bird
D. Miller

X

QUALITY ACTION REQUEST

AI/H3

From: Bob Ablondi (1)		
To: W. L. Barclay (2)	Control Document ref.: Spec. C-305 Rev. 7 (3)	QAR Ident. No.: SD-245 (4)

Action Requested: (5)

During a QA review of one hundred four (104) "Q" listed pump suction and discharge piping supports, approximately forty-nine (49) of the 104 supports, required anchor bolts. Of the forty-nine (49), forty-three (43) were detailed as expansion type anchors on the vendor's sketches. Six (6) of the forty-nine (49) were either original designations or revised by Project Engrg. to be grouted type anchors.

Specification C-305 paragraph 6 of Appendix D states in part that expansion anchors are not to be used on the first two supports on suction and discharge of pumps.

(Continued on Page 2)

Signature: VA Draisbach (6)	Date: 7-24-79 (7)	Reply Requested by: 8-1-79 (8)

Reply: (9)

Signature: (10)	Date: (11)
Action Verified: (12)	Date: (13)

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The following supports are designated to be installed by use of expansion type anchors:

PUMP I.D.	LINE I.D.	SUPPORT I.D.
1P-73B	18"-1HBC-133	1-616-9-1
0P-73	18"-0HBC-52	0-617-7-16 0-617-7-15
0P-73 (Cont'd)	16"-0HBC-51	0-617-8-13
2P-73A	18"-2HBC-133	2-617-7-1 2-617-7-2
	16"-2HBC-134	2-617-6-1 2-617-6-2
2P-73B	18"-2HBC-133	2-617-9-1
0P-76A	8"-0HCC-50	0-614-10-27
0P-76B	10"-0HCC-12	0-614-8-29
	8"-0HCC-51	0-614-10-31 0-614-10-32R
1P-58A	4"-1FCB-18 4"-1CCB-13	1-603-5-1 1-603-5-4
1P-58B	6"-1FCB-16 4"-1CCB-1	1-603-6-2 1-603-6-12 (Indeterminate)
1P-58C	6"-1FCB-15	1-603-8-1 1-603-8-2
	4"-1CCB-6	1-603-8-13 1-603-8-14
2P-58A	6"-2FCB-18 4"-2CCB-13	2-604-5-1 2-604-5-4
2P-58B	4"-2CCB-1	2-604-6-7 2-604-6-6
2P-58C	6"-2FCB-15	2-604-8-1 2-604-8-2
	4"-2CCB-6	2-604-8-13

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(Continued on Page 3)

PUMP I.D.	LINE I.D.	SUPPORT I.D.
2P-64A	8"-2GCB-16	2-613-3-13
2P-64B	8"-2GCB-15	2-613-4-1
7P-05A	8"-1HBC-22 6"-1DBC-2	1-634-4-9 1-634-4-8 1-634-4-11
1P-05B	4"-1EBC-1	1-633-2-8 1-633-2-10
2P-05A	8"-2HBC-22	2-634-4-2 2-634-4-1
2P-05B	6"-2DBC-5 4"-2EBC-1	2-634-2-1 2-634-7-9
1P-60A	10"-1FCB-34	1-610-4-1
2P-60A	18"-2GCB-32 10"-2FCB-34	2-611-3-23 2-611-4-1 2-611-4-2
2P-60B	10"-2FCB-35	2-611-6-1

Of the above supports, support No. 1-603-8-14 was documented on QCIR C-150-603-8-3/Expansion Anchor Report. No NCR or DR was evident.

The above condition was discussed with the Lead Mech. QCE on 7-22-79.

QUALITY ACTION REQUESTED:

1. Initiate NCRs to identify the above discrepancies in those cases where installation of expansion anchors has been accomplished.

2. Advise QA when NCRs are written.

cc: J. Corley
D. Miller
W. Bird

QUALITY ACTION REQUEST

AI: H-4

From: (1)		
W. J. Creel	Site QA	Job 7220
To: (2)	Control Document ref.: (3)	QAR Ident. No.: (4)
R. L. Castleberry	7220-C2-146	SD-247

Action Requested: (5)

The third paragraph of section 4.4.H of the post tensioning Field Installation Manual C2-146 states in part, "The total buttonhead rejection for ten consecutive tendons in any group (hoop, domes, verticals) shall be limited to 1% . . .".

At present differing interpretations of the above statement with regard to the meaning of "ten consecutive tendons" exists among cognizant field personnel.

Please provide clarification as to the meaning and application of the terminology "ten consecutive tendon's" as is used in the subject paragraph cited above.

Signature: (6)	Date: (7)	Reply Requested by: (8)
wj Creel	7/24/79	8/3/79

Reply: (9)

Signature: (10)	Date: (11)
Action Verified: (12)	Date: (13)

8/2 74

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QUALITY ACTION REQUEST

cc: G Corley
D Miller
W Bird
A.I. H5
file copy

X

From: Bob Ablondi (1)		
To: R.L. Castleberry (2)	Control Document ref.: PHT-501 / ASME III 1974Ed. (3)	QAR Ident. No.: SD-248 (4)

Action Requested: (5)

1) Para. 4.2 of PHT-501 Rev. 4 states for PWHT of circumferential joints, the width of the heated band measured from each side of the greater of the width of the finished weld shall be the thickness of the weld or 2 inches, which ever is less. 2) Subparagraph NC 4624.3 of the Code states in part that Local PWHT shall consist of heating a circumferential band at temp. within the ranges specified in this subarticle (NC). The width of the controlled band at each side of the weld, on the face of the greatest weld width, shall be the thickness of the weld or 2 inches, which ever is Less. 3) Dwg. No. PHT-501-2 Rev. 2 depicts the recommended methods of attaching Thermocouples to the weld as stated in para. 6.3 of PHT-501. (con't)

Signature: R Ablondi (6)	Date: 7-25-79 (7)	Reply Requested by: 8-25-79 (8)

Reply: (9)

POOR ORIGINAL

Signature: (10)	Date: (11)
Action Verified: (12)	Date: (13)

8/2/74

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BPC-20877
G1001649-05

During a scheduled monitor of the PWHT of the ELB mainsteam piping viz 2ELB-12-S-632-3 Field weld 4, the discipline QAE noted that only two Thermocouples were attached to the fitting side of the weld at the 6 and 12 O'clock position.

Prior to the actual PWHT operation, the discipline QAE verbally requested that at least one Thermocouple be attached to the pipe side of the field weld. The request was acknowledged.

The above request was made to assure compliance with subparagraph NC-4624.3, which requires <u>each</u> <u>band</u> at <u>each</u> <u>side</u> of the weld be controlled. Use of a single thermocouple and a spare as shown on Dwg PHT-501-2 will not provide objective evidence that the Temperature variation range during heating and cooling as stated in para. NC-4623 was not exceeded. The single thermocouple would not assure that the Temperature difference between max. and min. holding temperature of 100°F per para. 5.1 of PHT-501 for each band was not exceeded.

Quality Action Requested:

POOR ORIGINAL

Revise Spec. M 204. para. 5.1.5 to require at least one thermocouple and one spare for each controlled band;

OR

Amend PHT-501 to require the above.

X

cc: J. Corley
D. Miller
W. Bird
D. Wall

QUALITY ACTION REQUEST

file copy

AI: 5-3

From: L. A. Dreisbach (1)		
To: Nick Isbel (2)	Control Document ref.: IOM LAD NRC Report 79-12 - 901 (3)	QAR Ident. No.: SD-252 (4)

Action Requested: (5)

The subject NRC Report identified, as part of an infraction, that Shop inspections and documentation review failed to verify that documentation on the wall thickness measurements, as specified in Paragraph 9.6.1 of Specification M-129B, was included in the Valve Documentation Package supplied by Borg Warner, the Vendor.

To determine the scope of the problem supportive of the clients response to the NRC infraction you are requested to:

(Continued on page 2 of 2)

Signature: L A Dreisbach (6)	Date: 7/19/79 (7)	Reply Requested by: 8-24-79 or Sooner (8)

Reply: (9)

The requested Reviews were performed as requested and the date documented and supplied to QA by IOM SQDM 154-79 dated 7/26/79.

Signature: IOM SQDM 154-79 (10)	Date: 7/26/79 (11)
Action Verified: L Smith (12)	Date: 7/30/79. (13)

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BPC 23877
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QUALITY ACTION
REQUEST

a. Review other Borg-Warner Documentation packages for this omission.

b. Perform a sampling review of Documentation from other suppliers who have this requirement in their purchase specifications.

c. Document the results of the above reviews suitable for verification by the client and the NRC at a later date.

d. Keep Bechtel QA (E. Smith) appraised of the results and progress.

e. Actions a, b, and c must be completed by 8/24/79.

cc: J. Corley
D. Miller
W. Bird

QUALITY ACTION REQUEST

A1: 5-4

From: L. A. Dreisbach (1)		
To: E. L. Castleberry (2)	Control Document ref.: IOM LAD NRC Report 79-12 - 901 (3)	QAR Ident. No.: SD-253 (4)

Action Requested: (5)

The subject NRC Report identified, as part of an infraction, that Engineering review and documentation review failed to identify that the seismic analysis was computed assuming the yoke to be ASME SA-105 (forging) material whereas the yoke actually supplied to Midland was fabricated from ASTM A-216 (casting) (item 19 on Dwg 72.410-1).

To determine the scope of the problem, supportive of the client's response to the NRC infraction you are requested to:

(Continued on the following Page 2 of 2)

Signature: (6) L A Dreisbach	Date: (7) 7/19/79	Reply Requested by: (8) 8-24-79 or Sooner

Reply: (9)

Signature: (10)	Date: (11)
Action Verified: (12)	Date: (13)

8/2/74

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QUALITY ACTION
REQUEST

a. Review other Borg-Warner calculation/Drawings for this problem.

b. Perform a sampling review of calculation/Drawings for this problem.

c. Document the results of the above reviews suitable for verification by the client and the NRC at a later date.

d. Keep Bechtel QA (E. Smith) appraised of the results and progress.

e. Actions a, b, and c must be completed by 8/24/79.

cc: J. Corley
D. Miller
W. Bird

QUALITY ACTION REQUEST

POOR ORIGINAL

From: (1) L. A. Dreisbach		
To: (2) J. F. Newgen	Control Document ref.: Project Admin. Tech. Info. (Zack) (3)	QAR Ident. No.: SD-106 (4)

Action Requested: (5)

During a recent (6/2/78) subcontractor audit of Zack Company a Quality Audit Finding was generated because two components were installed in a fashion that did not conform to the configuration of currently approved Bechtel engineering documents (see QAF SA-46). Zack has re-opened NCR's to cover the nonconformances which had previously been erroneously closed on the basis of unauthorized documentation from Subcontracts Administration.

Request that remedial action be initiated so that Zack NCR's may now be closed out with properly documented engineering approval as back up. (See page 2)

Signature: (6)	Date: (7)	Reply Requested by: (8)
[signature] for V.D. Parrish	7/21/78	10/15/78

Reply: (9)

Remedial action has been taken for Action Item # 814 to Bechtel QAR # SD-106.

The above referenced components (OVM-1A & B) are acceptably installed according to Bechtel Power Corporation Engineering per Nonconformance Report # 1318. This remedial documentation is fully signed and copies are available upon request. One copy attached.

Furthermore, we will continue to stress the importance of obtaining technical direction and discussions from Engineering in our Subcontract Training Sessions.

Signature: (10)	Date: 7/23/78 (11)
Action Verified: (12) Lee Schrock	Date: 7/26/78 (13)

8/2/74

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838 170

BPC 20877

Instruct Subcontracts administration personnel that only engineering decisions and properly approved engineering documentation reflecting same be provided to subcontractors on technical matters.

NONCONFORMANCE REPORT

S/U 0-61A

1. PROJECT NAME: Midland Units 1 & 2	JOB NO.: 7220			19. NO. 1318	20. PAGE 1 OF 2
2. UNIT(S): Common	3. DRAWING/PART NO.: C-186	REV: 4	4. ITEM DESCRIPTION: OVM-01A & OVM-01B Anchor Bolts For HVAC Equip.	5. ITEM LOCATION: Aux. Bldg. El. 685	
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. NCC-186.KEY.4	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:

Dwg. C-186 Rev. 4 calls for anchor bolts for the control room air handling units to be at T/Bolt El. 685' - 3". Contrary to the above the T/Bolt Elevations are between 5/8" & 1 3/4" too low (see sketch) "Q" List Number 1.202(2) hold tags applied. Hold for Project Engineering disposition.

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
X			X

PROJECT FIELD ENGINEER — DATE 5-2-78

PROJECT ENGINEER — DATE 5-17-78

PROJ CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Bill Smith	4/18/78	T. Barclay	4-19-78

25. DISPOSITION RESULTS

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

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

DISPOSITION REQUIRED BY: 5/3/78

Field recommends "Use As Is" by ~~eliminate~~ eliminating the grout under units and by the use of half nuts on the anchor bolts which cannot receive full nuts.

Bill Smith 4/20/78 B Howard 4/20/78

JP Bell 4/20/78

Nonconforming condition covered by Zack NCR #4 & by Zack NCR #17. 5/1/79

23. PROJECT ENGINEERING DISPOSITION

Existing condition as reported in block 16 has been reviewed. Project Engineering agrees with the Field Engineering recommended disposition in Block 22 with the additional modifications shown in page 3 of 3. Structural capacity with recommended modifications is adequate and no safety implications are involved. Necessary calculations are filed in Engineering files. JNP

PVR

(Contd. on page 3)

26. QC ACCEPTANCE 5/1/79

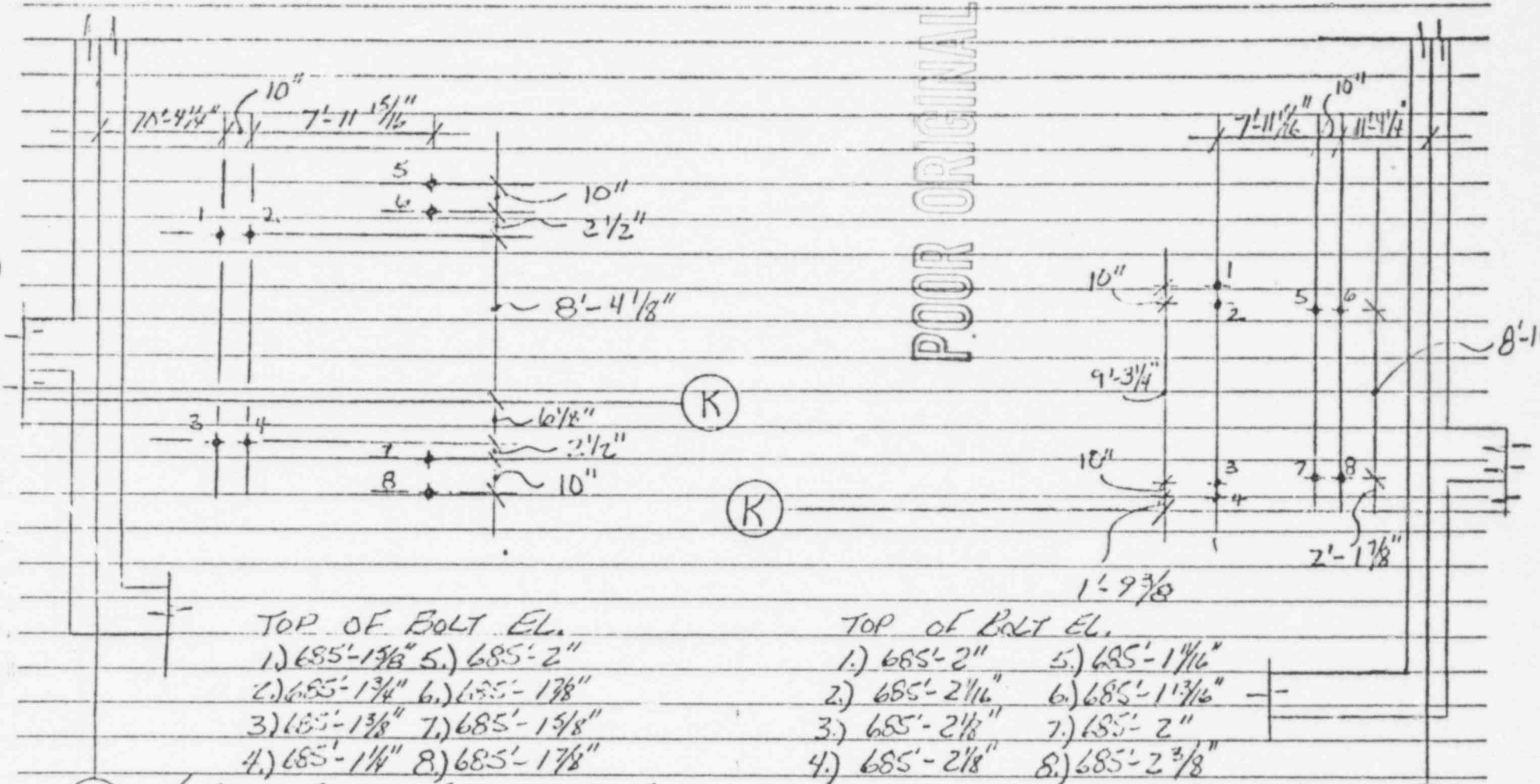
QC ENGINEER — DATE 5-4-79

AUTHORIZED INSPECTOR — DATE

8381172

NONCONFORMANCE REPORT (CONT'D) PAGE 2 OF 2 14. NCR NO. 1318

CONT. BLOCK No. 16



POOR ORIGINAL

TOP OF BOLT EL.		TOP OF BOLT EL.	
1.) 685'-1 5/8"	5.) 685'-2"	1.) 685'-2"	5.) 685'-1 11/16"
2.) 685'-1 3/4"	6.) 685'-1 7/8"	2.) 685'-2 1/16"	6.) 685'-1 13/16"
3.) 685'-1 3/8"	7.) 685'-1 5/8"	3.) 685'-2 1/8"	7.) 685'-2"
4.) 685'-1 1/4"	8.) 685'-1 7/8"	4.) 685'-2 1/8"	8.) 685'-2 3/8"

(NOTE: TOP OF BOLT EL. IS APPROX DUE TO EQUIP BEING INSTALLED)

T.O.C. EL. 685'-0" U.N.

-3 7.8

838 173

10098-2

QC-G3-3

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

JKB 5-30-78
JHP 5-30-78
4 PVR 5-3-79

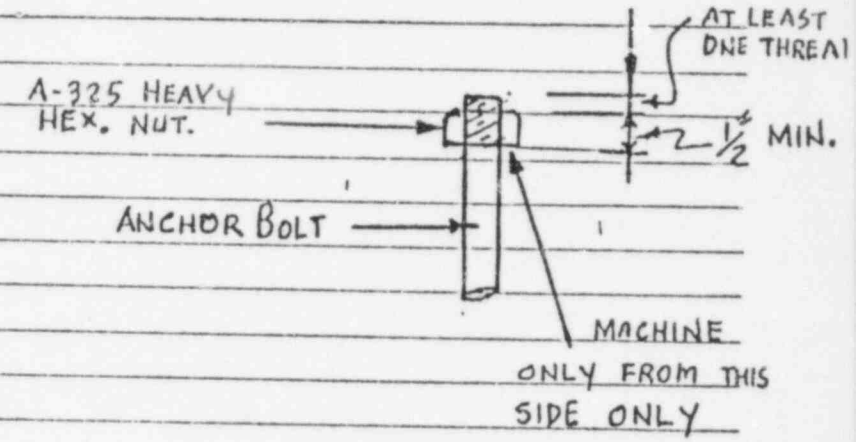
Block 23 Project Engineering Disposition (Contd.):

ENGINEERING MODIFICATIONS

1) Grout may be eliminated under units OVM1A & OVM1B CP

2) Anchor bolts which cannot receive full nuts may be substituted with machined A-325 heavy hex. nuts. Thickness of machined A-325 nuts shall not be less than half inch. At least one thread shall be projected above top of nut. (see figure)

JHP
PVR
Gd Turner 5-9-78



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10098-2

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

QC-63-3

NONCONFORMANCE REPORT (CONT'D)

1. PAGE 4 OF 4

14. NCR NO. 1318

24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS
		X	

J J Schwartz/RJS — PROJECT FIELD ENGINEER — DATE 5/7/79

R K Bauman/RLC — PROJECT ENGINEER — DATE 5-3-79

W Barclay — PROJECT CONSTR QC ENGINEER — DATE 5-9-79

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

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

838 175

THE ZACK CO.

NON CONFORMANCE REPORT

NON CONFORMANCE REPORT NUMBER 4

DATE 3/28/78

ATTACHMENTS:
DRAWINGS
ADDITIONAL SHEETS
PROCEDURES

ITEM/PART NO.	AREA/BLDG.	DRAWING NO.
ANCHOR BOLTS FOR OVM-01A	AUX GL 685	C-136 REV 4 C-149 REV 4.

DESCRIPTION OF NON CONFORMANCE ANCHOR BOLTS FOR UNIT OVM-01A DO NOT EXTEND FAR ENOUGH OUT OF FLOOR TO PERMIT PROPER SETTING OF EQUIPMENT

REPORTED BY Michael Franchek Jr.
QC INSPECTOR

RECOMMENDED CORRECTIVE ACTION RESET ANCHOR BOLTS

AUTHORIZED BY ..... PROJECT MANAGER R Thompson

INSPECTOR Mike F. Franchek Jr

SEE ATTACHED LETTER FROM P. KAISER DATED 4/10/78

POOR ORIGINAL

CORRECTIVE ACTION COMPLETE:

M Franchek Jr.
INSPECTOR

4/10/78
DATE

Frank McCarley

4/10/78

To: Mike Franchuk

Please be advised relative to unit OVIM-DIA the anchor bolts installed by Bechtel do not conform to the necessary height to permit grouting. The grouting requirement is presently being deleted by Bechtel engineering. To maintain continuity in the equipment installation schedule I directed Mr R. McCarty to install unit DCW to follow

Paul J Kaus

POOR ORIGINAL

QUALITY ACTION REQUEST

file copy

From: (1) L. A. Dreisbach	Site QA	Job 7220	
To: (2) L. Basinski/J. Newgen	Control Document ref.: (3) EDPI 2.14.1 Rev. 3	QAR Ident. No.: (4) SD-120	

Action Requested: (5)

Paragraph 4.1.1.6 of EDPI 2.14.1 states that the Resident Engineer's Memoranda may be used to clarify but shall not be used to modify design documents; i.e., FCR's, DCN's, SCN's, drawings and specifications.

Contrary to this requirement electrical field engineering have been documenting design changes on Field Engineer's Reports and getting them approved by a REM.

The following REM's issued from 9/28/78 to 11/6/78 are instances where the subject EDPI has been violated.

(See Attached Sheet)

Signature: (6) LADreisbach	Date: (7) 11-15-78	Reply Requested by: ~~11/24/78~~ 12-8-78 (8)

Reply: (9)

1. The subject REM's have been forwarded to Project Engineering Ann Arbor for approval and closure.

2. To resolve the subject concerns Resident Engineers have received instructions to use FCR/FCN in lieu of REM's for seismic support changes.

3. Field Engineering have been instructed in the use of FCR/FCN. The FCR/FCN procedure and related forms provide for a review by all disciplines including welding.

Signature: (10) L.R. Basinski/J.F. Newgen (See attached IQM's)	Date: (11) June 25, 1979
Action Verified: (12) R.C. Hollar	Date: (13) 7/5/79

8/2/74

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G1001649-05

REM # E-950, E-955, E-962, E-993, E-998, E-999, E-1003, E-1004, E-1007, E-1013, E-1007, E-1013, E-1014, E-1016, E-1029, E-1046, E-1073, E-1074, E-1083 and E-1084.

It is also noted that these field engineer's reports are specifying welding requirement without being reviewed by the Field Welding Engineer (Reference IOM #0-1878 dated 7/28/78, to all Lead Discipline Engineers and Area Lead Engineers from A. J. Boos).

RECOMMENDED ACTION:

1. Evaluate the reported discrepancy to determine the extent of the problem and take appropriate corrective action.

2. Instruct resident and field engineers in the proper use of field engineer's report, FCR/FCN and REM.

3. If field engineers are permitted to include welding requirements in field engineer reports, provide method to have these requirements reviewed by the Field Welding Engineer.

Bechtel Power Corporation

Interoffice Memorandum

To L. A. Dreisbach

File No.

Subject Job 7220 Midland Project
Action Item 503 Closure
0-2391

Date June 25, 1979

From J. F. Newgen

Of Construction

At Midland, MI Ext.

Copies to

Bruce Matthews
Len Basinski
Judi Hedges

Reference: 1) Action Item 503, QAR SD-120, Incorrect use of FER/REM

This memo is in response to the reference listed above.

It has been determined that only the Electrical discipline was using Field Engineer Reports in conjunction with REM's for resolution of design problems. Since the time of this observation (November, 1978) the FCR/FCN usage procedure has been expanded and all engineers instructed in its use. This procedure and the FCR/FCN forms provide for review by all disciplines, including welding, and is now used exclusively for design changes to Project Engineering documents, initiated by the field. Since this expansion, no further use of the Field Engineer Report, for this purpose, has been observed.

J. F. Newgen

JFN/LFS/jas

Job 7220-QA-Received 6/26/79
I-9-
Log No. 657 File No.
Response Req'd No Date
QA Action Item No. 503

Route	Info	Act	Comment
PQAE	AD		
Resp. Cor.	[illegible]	X	
Elect (1)	[illegible]	X	
Elect (2)	[illegible]		
Civil/Mech			
Piping/Weld			
Inst.			
Trn Ovr			
Trend			
Sect.	[illegible]	X	

cc: Hollar with QAR.

Dick Shiffer discussed this with Len Basinski 6/27/79

838 180

5024, REV 1/78

Bechtel Associates Professional Corporation

Inter-office Memorandum

To L. A. Dreisbach

Date December 4, 1978

Subject Midland Plant Units 1 & 2
Job 7220
QAR No. SD-120
File: 0274, 0535.4

From L. R. Basinski

Of Project Resident Engineering

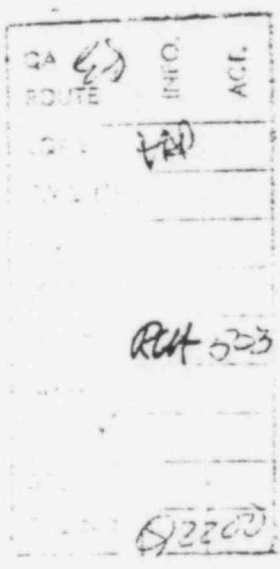
At Midland Jobsite

Copies to
J. F. Newgen
R. L. Castleberry
W. R. Terrell

This memo provides Project Engineering input for the subject QAR. The following responses to the recommended action are provided:

1. In the subject QAR reported discrepancy list the following evaluation indicates whether minor or complex design changes are evident.

REM Number	FCR Required (Complex change)
E-950	No
E-955	
E-962	
E-993	
E-998	
E-999	
E-1003	
E-1004	
E-1007	
E-1013	
E-1014	Yes
E-1016	
E-1029	
E-1046	
E-1073	
E-1074	
E-1083	
E-1084	



The above REM's not requiring an FCR are considered minor changes and a correct application of REM's per Paragraph 4.1.2.6.4 of EDPI 2.14.1.

To alleviate further Resident Engineer discretions the attached instructions were received from Project Engineering (telecon dated 11-10-78.)

POOR ORIGINAL

2. The above noted instructions were routed through the Resident Engineers as noted in the stamp on the instructions.

Additional recommended action responses (items 2 & 3) pertinent to Field Engineer's responsibilities are to be reported by the field.

L. R. Basinski

L. R. Basinski

LRB/km

Attachments:

Telephone call

cc: R C. Castleberry C
ROUTE A. Boos

BY M E Velastegui OF A²

TO S. R Basunahi OF Midland

DATE 11-10 19 78 TIME 10 AM

SUBJECT FER for seismic supports JOB NO. 7220

PE stated policy as noted below:

1) use FCR for seismic supports, until 634 revision 7.

2) After above revision, FCN may be used for seismic support changes per revision 7 rules.

3). FER are NG for seismic supports; numbering of FER should be consistent practice.

4) FER acceptance by REM for minor changes per EDPI 2.14.1, section 4.1.2.b.4 will be by Resident Engineers judgement.

RES. PROJ. ENG.

JOB 7220 ROUTING | DATE NOV 10 1978

	INFO	ACT	RATE
Ref Apo			
Civil	1		
C S	2		
Elect	3		
Mech	4		
P/	5		

LRB

AAO-522

POOR ORIGINAL

cc Y Corley
W Miller
W Bird
AI 577

QUALITY ACTION REQUEST

From: (1)		
L. A. Dreisbach		
To: (2) J. F. Newgen	Control Document ref.: (3) FPD 2.000 Rev. 2	QAR Ident. No.: (4) SD-139

Action Requested: (5)

Para. 2 of FPD 2.000 Rev. 2 says in part "most current work prints, DCN's, FCR's and FCN's applicable there to are maintained in the field". Contrary to this three work prints had discrepancies as noted below:

1) E 644 (Q) sh. 2 Rev. 3 had attached to it FCN E 225 disapproved by Ann Arbor Office - location control room; 2) C 481 (Q) Rev. 4 was found in elevation 704 feet while Rev. 5 is current. 3) M 69 (Q) Rev. 0 was found in elevation 704 feet without DCN 1 shown against the drawing in document control card.

You are requested to 1) correct the discrepancies identified. 2) Indoctrinate cognizant superintendents that they should adhere to FPD 2.000 Rev. 2 requirements.

(See attached sheet)

Signature: (6) R V Brownmiller	Date: (7) 2.1.79	Reply Requested by: (8) 3.1.79

Reply: (9)

1) IOM J. F. Newgen to LADreisbach (Q-2235) indicated that drawings were checked and all discrepancies were corrected. Superintendents were indoctrinated to adhere to FPD 2.000 requirements.

2) Verification by QA indicated that drawings still had discrepancies per response rejection notice (dated 4-30-79) in file. Hence response was rejected

3) Verification by QA per verification of corrective action (dated 7-12-79) in file, indicates drawings are corrected and indoctrination of civil, electrical and mechanical (supervision) has been completed. Therefore QAR SD-139 is closed.

Signature: (10)	Date: (11)
Action Verified: R V Brownmiller (12)	Date: (13) 7/13/79

8/2/74

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G1001549-05

3) Review current status of all work prints in the two locations viz control room area and elevation 704 feet.

cc: W. Bird
J. Corley
D. Miller

QUALITY ACTION REQUEST

AI/588

From: L. A. Dreisbach — Job 7220 Midland Project (1)		
To: W. Barclay/. J. Newgen/A. Boos (2)	Control Document ref.: FIP 1.112 & SF/PSP G-3 (3)	QAR Ident. No.: 2 SD-142 (4)

Action Requested: During a monitor of piping support modification and erection the following was noted: (5)

1) As-built weld joint configuration is not as shown on the Resident Engineer's approved hanger sketch No. 2-631-1-1 sheet 1 of 1 Bechtel Field Rev. Sub 3/F1. This is contrary to the requirements of FIP 1.112 Rev. 2 which states in part that modified support changes shall be ballooned, initialed and dated by the FE; approved by the Resident Engineer prior to allowing work to proceed. Reference discrepancy Report No. W-555.

(continued on next page)

Signature: (6)	Date: (7)	Reply Requested by: (8)
[signature]	2-16-79	3-1-79

Reply: (9)

Based on the responses and actions of Bechtel QC and Field Engineering this QAR is considered resolved.

1) The inspection of angle stiffeners were not documented by QC based on the non "Q" designation of FCN-C-91. Project Engineering rejected the non "Q" designation. As a result of this rejection, Bechtel QC initiated NCR 2254 to resolve the above condition.

2) Field Engineering and construction supervision were made aware of the requirements of the referenced Field Instruction's reqmts relevent to this finding.

Signature: (See IOM's 0-2217 QCFM-6149/AI-551) (10)	Date: (11)
Action Verified: [signature] (12)	Date: 7/2/79 (13)

8/2/74

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2) Paragraph 3.2.5 of SF/PSP requires that nonconformances discovered during in-process inspection activities which are not correctable by further prescribed processing in accordance with the original design document shall be reported by use of an NCR.

Contrary to the above requirement, the reported condition in discrepancy Report W-555 was not identified on an NCR.

Action Requested For Item 1:

Appraise construction supervision of the requirements of the above referenced field instruction FIP 1.112. Review current Project approved documents that require modification to ascertain that the modification(s) are in accordance with the applicable sections of the referenced field instruction.

Action requested For Item 2:

Initiate or cause to initiate an NCR in accordance with the referenced SF/PSP.

Appraise responsible individuals of the above requirement by re-instruction or instruction.

The above findings were discussed with the PFQCE and Assistant PFE (Mech.) Mssr. W. Barclay and J. Gilmartin on 2/15/79.

Bechtel Power Corporation

Interoffice Memorandum

To L. A. Dreisbach

Subject Job 7220 Midland Project
QA Action Item 588
O-2217

File No.

Date March 22, 1979

From J. F. Newgen

Of Construction

At Midland, MI Ext.

Copies to
J. R. Hedges

This letter is in response to QA Action Item 588, Item 1.

Construction supervision is aware of the requirements of FIP 1.112. Project approved documents requiring modification are reviewed by Field Engineering and Project Engineering prior to issuance of the modification and by Quality Control after issuance. We consider this procedure sufficient to insure that the modifications are in accordance with FIP 1.112.

We consider this to be a complete response to the subject action item.

J. F. Newgen

JFN/DRS/jas

QA ROUTE	INFO.	ACT.
LOGE	✓	
CIVIL (1)		
MECH		
PIPING	✓	
ELECT.		
INST.		
TREND		
SEC'Y	✓	
FILE NO.		

588 PFE Response Acceptable Include in QAR SD-M2

RECEIVED
MAR 26 19
BECHTEL POWER CORP.
Mic JOB 7220
PER I-79-294

5024, REV 1/78

QCFM-6149/AI-551

Bechtel Power Corporation

Inter-office Memorandum

To L. A. Dreisbach

Subject Midland Project, Units 1&2
QAR No. SD-184

Copies to J. F. Newgen
R. A. Simanek

Date June 13, 1979

From W. L. Barclay

Of Quality Control

At Midland, Michigan
Job No. 07220 204

Reference: a) Quality Assurance Action Item No. 742

This is considered Quality Control's complete response to reference a) above.

Relevant to QCIR C-111-202W Log 15134 the angle stiffeners were not documented on the above reference QCIR nor verified to the applicable welding requirements of G-27 by Quality Control due to their non "Q" designation on FCN-C-91.

Subseque tly FCN-C-91 was rejected by Project Engineering and the above condition has been reported on Bechtel NCR 2254.

If you have any further questions concerning the above, please contact this office.

F. F. Russell for
W. L. BARCLAY
PROJECT FIELD QUALITY CONTROL
ENGINEER

WLB/JER/SMW/WBD/jmk

Response Required: NO

CC: W. BIRD
J. CORLEY
D. MILLER

QUALITY ACTION REQUEST

A/I 654

From: L. A. Dreisbach (1)		
To: W. L. Barclay (2)	Control Document ref.: Spec. M-201 (Q) Rev. 8 (3)	QAR Ident. No.: SD-155 (4)

Action Requested: (5)

1) Para 6.3.7 g of the controlling document states that stainless steel materials shall be post bend heat treated, etc.... and held for one hour per inch of thickness, but not less than one hour, followed by a rapid cooling to below 700°F in less than 4 minutes.

2) Para 7.3.5 b of the referenced specification requires wall thickness measurements....etc., along the entire length of the "heel".at 6" intervals or less and at points 60° both sides "of the centerline" at 6" intervals or less

cont'd.....

Signature: R A Ashton (6)	Date: 3/23/79 (7)	Reply Requested by: 4/6/79 (8)

Reply: (9)

1) Based on a phone conversation between the discipline QAE and Mr. J. Abel of Project Engineering on 7/3/79, Project Engineering considers the method of cooling in the Treatment for the spools noted on page 3 of the QAR satisfy the requirements of para 6.3.7g of the Ref. specification.

2) The requirements of Paragraph 7.3.5b have been resolved. Vendor has provided the Wall Thickness Verification document. The requirements of para. 6.3.9 regarding min wall thickness tolerances have not been exceeded.

(CONTINUED ON THE FOLLOWING PAGE)

Signature: NOT REQUIRED (10)	Date: (11)
Action Verified: R A Ashton (12)	Date: July 6, 1979 (13)

8/2/74

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BPC-20877
G1001649-05

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1) Contrary to the referenced controlling document, there was no documents included to substantiate that the rapid cooling rate was met. The Post Bend Heat Treat Chart did not provide the above data for Spools No.'s 1CCA-21-8611-1-4 and 2CCA-21-S610-1-4.

2) Contrary to the above referenced specification, the bend radius wall thickness measurements were not available in the QA/QC documentation package for Spool No. 1CCA-21-S610-1-4.

The above spools have been released for installation to B&W Construction.

Action Requested

1) Implement the requirements of the applicable QA/QC program to obtain the missing documentation.

2) Verify that similar documentation is available for spools previously released for installation to B&W Construction.

3) SQR's are currently performing 100% verification reviews of all ASME Section III piping, including piping furnished by ITT Grinnell for installation by B & W. Based on the SQR's on-going review, item (2) of the action requested is considered resolved.

Note: ITT Grinnell's sub-contracted Post Bend Heat Treating organization's Certification of Conformance states "The Material was heated to the required temp. and held at said temp. per Spec. M-201 Rev. 8, then "water quenched", to black in 72 seconds."

cc: J. Corley
D. Miller
W. Bird

QUALITY ACTION REQUEST

AI721

From: (1)		
L.A. Dreisbach		
To: (2)	Control Document ref.: (3)	QAR Ident. No.: (4)
J. Newgen	E-532	SD-178

Action Requested: (5)

The QA Tracking program has indicated a marked increase in D.R.'s against the installation of electrical panels out of dimensional tolerance. Ten of the D.R.'s (E-727, E-734, E-739, E-799, E-800, E-817, E-818, E-819, E-838, and E-839) are against panels on drawing E-532.

Recommended Action:

1) Investigate the reasons for the above discrepancies.

2) Take appropriate actions to assure panels are installed per proper documentation.

Signature: (6)	Date: (7)	Reply Requested by: (8)
Lee H. Schroeder	4/20/79	5/4/79

Reply: (9)

1. The Panels in question have been installed so that embedments in the floor slab at elevation 614' were avoided during the installation of concrete anchors.

2. The required FCRs to revise the affected drawings have been written. They are FCR E-1744 and FCR E-1768.

(Reference IOM 0-2424)

Signature: (10)	Date: (11)
J. F. Newgen (see attached IOM)	July 13, 1979
Action Verified: R.C. Hollar (12)	Date: (13) July 25, 1979

8/2/74

WHITE – Return to sender CANARY – Addressee's file PINK – Sender's file

BPC 20877
G1001649-05

Bechtel Power Corporation

Interoffice Memorandum

To L. A. Dreisbach

File No

Subject Job 7220 Midland Project
Action Item 721 Closure
0-2424

Date July 13, '79

From J. F. Newgen

Of Construction

At Midland, MI Ext

Copies to L. Stornetta
B. Matthews
J. Hedges

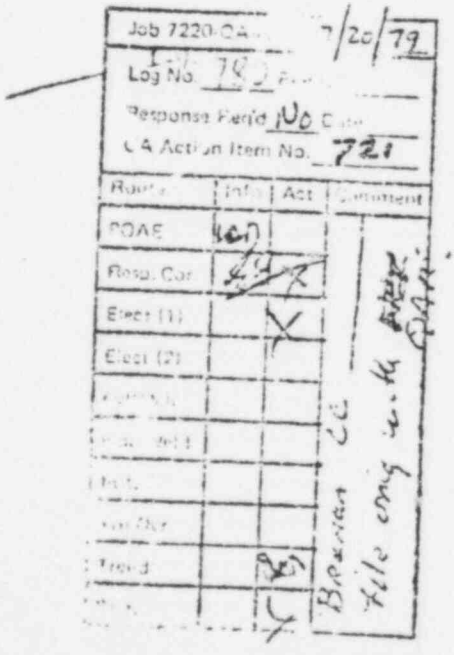
Reference: 1) Action Item 721, OAR-SD-178, Electrical Panel Installation

In response to reference (1) the panels in question have been installed so that embedments in the floor slab at elevation 614' were avoided during the installation of concrete anchors. These embedments include mechanical piping, electrical conduit, and reinforcement bars.

The required FCR/FCN's to revise the affected drawings have been written. They are FCR E-1744 and FCR E-1768. The torquing of the anchors is to be done by the foreman at his earliest opportunity.

J. F. Newgen

JFN/WBH/mkm



POOR ORIGINAL

838 194

X

A/I 736

QUALITY ACTION REQUEST

cc: J. Corley
W. Bird
D. Miller

From: L. A. Dreisbach (1)		
To: W. L. Barclay (2)	Control Document ref.: SF/PSP G-3.2 Rev 4 (3)	QAR Ident. No.: SD-180 (4)

Action Requested: (5)

SF-PSP G-3.2 Rev 4 Para's 3.3.2, 3.3.2 and 4.4.1 require in part identification of nonconforming items by tagging or other appropriate methods and where practical segregation from conforming items by separate storage. Contrary to above requirements the following deviation were noted during QA monitor on ten (10) NCR's:

1) NCR 1625 (2HBC-110-619-2-12 & 2HBC-110-619-2-13) Tag not found on component.

2) NCR 1585 (Steam driven Aux. Feed Wtr. Pmp.) Tag not found on component.

3) NCR 1612 (Instruments for local control panels 2C114 & 1C114)

Signature: W.L. Barclay (6)	Date: 4/27/79 (7)	Reply Requested by: 5-18-79 (8)

Reply: (9)

(1) Tags were replaced on components identified on NCR's 1625 and 1585.

(2) Items shown on NCR 1612 have been retagged as nonconforming and properly segregated.

(3) NCR 1612 has been corrected to show actual instrument part numbers.

(4) An inspection was performed using checklists to verify proper tagging of items on open NCR's as requested by this QAR.

(5) During the week of June 4, 1979 training sessions were held on SF/PSP G-3.2 for all Quality Control department personnel. --CONTINUED--

Signature: W.L. Barclay QCFM-6027 QCFM-6217 QCFM-6227 (10)	Date: 5/21/79 6/28/79 7/2/79 (11)	
Action Verified: W.L. Barclay (12)	Date: 7/6/79 (13)	

8/2/74

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G1001649-05

QUALITY ACTION
REQUEST

(continued)

(a) The instruments were found in the Class A storage area of whse #1 in an open box, not tagged or marked as nonconforming and not segregated from conforming materials.
(b) Items found in the box agree in quantity with the packing list (attachments A sheet 2 of 2 of the NCR) but identification differs. In part the list shows instruments ISI-3839B, IFR-3875AZ, IFR-3875B2, and three spares part #02-0401-000. Instruments found were ISI-3899B, IFI-3875A2, IFI-3875B2, two identified as spares pt # 02-0401-000 and one identified as 2LI-4930A part #Q2-0531-0000.

Requested Actions:

(1) Have Tags placed on components identified on NCR's 1625 and 1585.

(2) Properly segregate and tag, mark, or identify as nonconforming those items covered by NCR 1612.

(3) Establish positive identity of nonconforming items covered by NCR 1612. If the NCR Listing is in error have it corrected. If the NCR sheet 2 of 2 is correct separate those items not compatible with the list and locate the items shown on the list and not found.

(4) Verify (documented) that all items shown on open NCR's are properly identified as nonconforming as required by SF/PSP G-3.2 Rev. 4.

(5) Provide objective evidence of corrective action to prevent recurrence of noted decrepancies.

Reply:

7/6/79

(5) --CONTINUED--
This training was set up as a refresher course assuring the the implementation of SF/PSP G-3.2 is performed properly.

Verification:

(1) Verified tags were placed on components for NCR's 1612 and 1585.
(2) Verified proper segregation for NCR 1612 compenents.
(3) Verified "CORRECTED COPY" of NCR 1612 has been issued.
(4) & (5) Performed another monitor using the checklist M-15-1-2 rev. 0 checking 11 NCR's for proper tagging and segregation. Found satisfactory.

QCFM-6027/AI-540

Bechtel Power Corporation

Inter-office Memorandum

To L. A. Dreisbach

Date May 21, 1979

Subject Midland Project, Units 1&2
QAR No. SD-180

From W. L. Barclay

Of Quality Control

Copies to J. F. Newgen
R. A. Simanek

At Midland, Michigan
Job No. 07220 204

References: a) Quality Assurance Action Item No. 736, dated April 27, 1979
b) QAR SD-180, dated April 27, 1979

This is considered Quality Control's complete response to reference a) and b) above.

Response to QAR SD-180 requested actions.

Item #1

Tags were replaced on components identified on NCR's 1625 and 1585.

Item #2

Items shown on NCR 1612 have been retagged as nonconforming and properly segregated.

Item #3

NCR 1612 has been corrected to show actual instrument part numbers.

Item #4

A review has been performed on all open NCR's for proper tagging, identification and segregation.

Item #5

Each discipline performs a monthly review of open NCR's and assures the proper tagging, identification and segregation. These lists are maintained by the discipline leads for review purposes.

If you have any questions concerning the above, please contact this office.

W. L. BARCLAY
PROJECT FIELD QUALITY CONTROL
ENGINEER

WLB/JER/SMW/LEB/JWH/DCT/jmk

838 197

AI-833

QCFM-6217/AI-583

Bechtel Power Corporation

Inter-office Memorandum

To L. A. Dreisbach

Subject Midland Project, Units 1&2
QAR SD-214, NCR 1933

Date June 28, 1979

From W. L. Barclay

Of Quality Control

At Midland, Michigan
Job No. 07220

Copies to
J. F. Newgen
R. A. Simanek

Section	Info	Act	Comm
PQAE	LAD		
Resp. Cor.	LD	X	
Elect (1)			
Elect (2)			
Civil/Mech			
Piping/Weld			
Inst.		X	
Tm Ovr			
[illegible]			
Cert.		X	

References: a) Quality Action Request SD-214 dated 6/13/79
b) Quality Assurance Action Item 833, dated 6/13/79

This is considered Quality Control's complete response to reference a) and b) above.

A complete technical review was performed on NCR 1933, which included an itemized review of all "Hold Tags" applied for correct information. Those that were found to have incorrect reference information recorded on them were corrected immediately.

All items listed on subject NCR were found, except valves 1XV-0324A and 1XV-0324B on drawing FSK-M-1HCC-75-1. These two valves were removed (cut out) from their installed design location and have not been located at this time. The removal of these two valves was accomplished without an approved disposition on NCR 1933 allowing subject work to be performed. This is in violation of SP/PSP G-3.2 and has been documented on NCR 2310.

During the week of June 4, 1979 training sessions were held on SF/PSP G-3.2 for all Quality Control department personnel.(Reference QCFM's 6116, 6117, 6139, 6140 and 6143). This training was set up as a refresher course assuring that the implementation of SF/PSP G-3.2 is performed properly. Several times during the course, emphasis was placed on this type of problem. A Quality Control Corrective Action Report has been issued for the resolution of this incident.

If you have any further questions concerning the above, please contact this office.

W. L. Barclay

W. L. BARCLAY
PROJECT FIELD QUALITY CONTROL
ENGINEER

WLB/JER/SMW/LEB/jmk

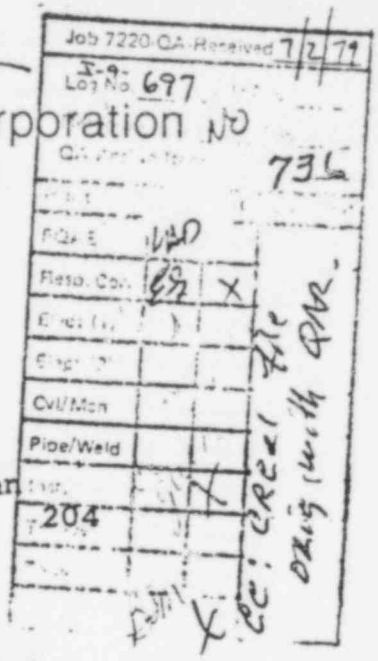
Response Required: NO

838 198

QCFM-6227/AI-540(a)

Bechtel Power Corporation

Inter-office Memorandum



To L. A. Dreisbach

Subject Midland Project, Units 1&2
QAR No. SD-180

Copies to J. F. Newgen
R. A. Simanek

Date July 2, 1979

From W. L. Barclay

Of Quality Control

At Midland, Michigan
Job No. 07220

References: a) Quality Assurance Action Item No. 736
b) QAR SD-180, dated April 27, 1979
c) QA Response Rejection Notice (SD-180), dated June 5, 1979
d) IOM QCFM-6027, dated May 21, 1979

This is considered Quality Control's complete response to reference c) above.

Reference b) and c), Item 4

In response to the rejection comment in reference c) - a re-inspection was performed using checklists to verify the proper tagging of all items as shown on the open nonconformances as requested in reference b).

Reference b) and c), Item 5

In response to the rejection comment in reference c) - the monthly review of nonconforming items for maintenance of nonconformance tags was initiated as a result of problems dealing with missing tags in the past. The results of the inspection of the items for proper tagging have not indicated a major problem. There have been cases where items that have been conditionally released and items going thru the dispositioning phase have had tags lost or damaged as a result of handling. It is our position that the monthly review of these items has maintained adequate control although we have instructed the QCEs to be more conscious of day to day maintenance of the NCR tags.

If you have any questions concerning the above, please contact this office.

W. L. BARCLAY
PROJECT FIELD QUALITY CONTROL ENGINEER

WLB/JER/SMW/jmk

Response Required: NO

cc: J. Corley
P. W. Miller
W. Bird

838 200

POOR ORIGINAL

QUALITY ACTION REQUEST

A/E 747

From: L. A. Dreisbach (1)		
To: J. Lilly White (2)	Control Document no.: NA (3)	QAR Ident. No.: SD-188 (4)

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 with held.

Signature: K. E. Brownmiller (6)	Date: 5/4/79 (7)	Reply Requested by: 6/4/79 (8)

Reply: (9)

Memo: O-2465 T. C. Valenzano to L. A. Dreisbach dated 7/12/79 indicated 1) that subcontract drawing files are not current and are in the process of being updated and 2) each document will be forwarded to the subcontractor regardless of content or applicability. It also indicated that drawing addenda referenced in QAR have been transmitted to subcontractor.

Signature: Copy of letter attached. (10)	Date: 7/12/79 (11)
Action Verified: per verification of CA in file. QAR is therefore closed. K. E. Brownmiller (12)	Date: 7/27/79 (13)

8/2/74

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BPC 20877
G1001649-05

Bechtel Power Corporation

Interoffice Memorandum

To L. A. Dreisbach

Date July 12, 1979

Subject Job 7220 Midland Project
Subcontract 7220-A-15
Q.A.R. SD-188 of May 4, 1979
0-2465

From T. C. Valenzano

Of Project Services

At Midland, MI.

Copies to

Job 7220-QA-Received 7 13 79
Log No. 739 File No.
Response Req'd No Date
QA Action Item No. 747

Route	Info	Act	Comment
PQAE	N&O		
Resp. Cor.	ES	X	
Elect (1)			
Elect (2)			
Civil/Mch			
Piping/Weld			
Inst.	QCE Dept		
Tech Ovr		X	
Trend			
	BJM	X	cc: THIS file only with Rpse. 50-188

This is in response to our memorandum No. 0-2334-R, dated June 13, 1979, on the above subject.

Your QAE T. K. Subramanian has informed our Subcontracts Department that due to Quality Assurance Program Qualification Procedures, our initial response is not completely acceptable. Upon further review and definition of the problem with distribution of design change documents to the A-15 Subcontractor we agree with that assessment. Please accept the following as a revision to our original response memorandum.

1) The drawing files for Subcontract A-15 are not current, but are in the process of being updated to the latest drawing revision and/or interim design change document. The practice of the Subcontract engineer determining applicability of the design change document will no longer be employed. Rather, each design change document will be forwarded to the Subcontractor, regardless of content or applicability. Since all change documents are transmitted via the Subcontract Change Notice, this will be the basis for confirming distribution to the Subcontractor.

2) The specific drawing addenda referenced in the QAR is in the following status:

Document	Drawing	Status
FCR-A-156	A-20 Rev. 10	To be transmitted per SCN # 75F on Bechtel Letter B-232, dated July 12, 1979.
FCR-A-158	A-24 Rev. 5	
DCN-3	A-30 Rev. 8	
DCN-10	A-22 Rev. 10	Incorporated into Rev. 11, June 27, 1979, and transmitted to Subcontractor on SCN # 74F, Letter B-231, dated July 11, 1979.

POOR ORIGINAL

5024 (10-72)

Document	Drawing	Status
DCN-5	A-68 Rev. 7	Incorporated into Rev. 7, May 2, 1979, and transmitted to Subcontractor on SCN # 71F, Letter B-220, dated May 16, 1979.
FCR A-133	A-71 Rev. 5	Incorporated into Rev. 6, May 15, 1979, and transmitted to Subcontractor on SCN # 72F, Letter B-224, dated May 31, 1979.

We feel the foregoing should satisfy the concerns of the QAR.

T. C. Valenzano

TCV/JWL/tw

POOR ORIGINAL

cc W Bird
D. Miller
J. Corkey

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: Lee A Dreisbach (6)	Date: 5/10/79 (7)	Reply Requested by: 5/24/79 (8)

Reply: (9)

1. The identification of (Q) sheets is Drawing E-42 (Q) is in accordance with MED 4.31 - o Rev. 9 Section s.6c.

2. Revision 41 to Drawing E-42 identified sheets 2, 7, 11c, 13a, 18c, 42, 42a, 53a and 60a as (Q).

3. Whenever the entire sheet is not (Q) a designation flag isplaced along side the (Q) protion in accordance with MED 4.31-0 Rev. 9 Seciton 4.1

Signature: R. L. Castleberry (see attached IOM) (10)	Date: June 1, 1979 (11)
Action Verified: R. C. Hollan (12)	Date: July 3, 1979 (13)

8/2/74

WHITE – Return to sender CANARY – Addressee's file PINK – Sender's file

BPC 20877
G1001649-05

838 203

QUALITY ACTION
REQUEST

reviewed for (Q) designation.

3. How are the (Q) and non-(Q) items distinguished on the same sheet?

Bechtel Associates Professional Corporation

Inter-office Memorandum

To L.A. Dreisbach

Date June 1, 1979

Subject Midland Plant Units 1 & 2
Job 7220
QAR SD-191
File: 0535.4, EG-0461

From R.L. Castleberry

Of Engineering

At Ann Arbor

Copies to

R. Baltazar
L. Basinski
W. Moring
Com Log

This is a complete response to subject QAR.

The item numbers correspond to those of the subject QAR.

1. The identification of (Q) sheets in Drawing E-42(Q) is in accordance with MED 4.31-0, Rev 9 Section 3.6c which states that the (Q) status of each sheet will be indicated on the facing sheet.

2. We have reviewed Drawing E-42(Q) and determined that Sheets 2, 7, 11c, 13a, 18c, 42, 42a, 53a and 60a should be (Q).

3. Whenever the entire sheet is not (Q) a designator flag is placed alongside the (Q) portion in accordance with MED 4.31-0, Rev 9, Section 4.1.

R.L. Castleberry

TLS/jp

Job 7220-QA-Rec'd 6/5/79

Log No. ____ File No. ____

Response Rec'd ____ Date ____

QA Action Item No. 754

Route	Info	Act	Comment
PQAE	65		
Resp. Cor.	64		
Elect (1)		X	
Elect (2)			
Civil/Mech			
Pipe/Weld			
Inst.			
Trn Ovr			
Trend			
Sect.		X	

Sec. Review 6/8/79

POOR ORIGINAL

QUALITY ACTION REQUEST

CC: W. BIRD
J. CORLEY
D. MILLER

A/I-816

(1) From: Bob Ablondi			
(2) To: J. Nemgen W Bracken	(3) Control Document ref: Spec M-204(Q) Rev. 11	(4) QAR Ident. No.: SD-202	

(5) Action Requested: Installed universal flow metering devices No's 2FE-1612A & 2FC-1932, 2FE-1712A were not capped or plugged at the high-pressure instrument connections as required by the ref. control document.

Quality Action Requested:

1) Verify cleanness requirements of para 6.4 of Spec M-204(Q) is met.

2) Document the verification on the appropriate QCIR.

3) Re cap or plug openings as required by Spec M-204(Q).

(6) Signature: R Ablondi	(7) Date: 6/16/79	(8) Reply Requested by: 6-?/79	

(9) Reply: On 6/16/79 QC performed an inspection to resolve verify the cleanness requirements of Para. 6.4 of the referenced Spec. QA reviewed the results of their inspection as documented on the applicable QCIRs #s P-1.10-DVI-619-5-3, 617-6-9 & 616-6-7 for the devices referenced. Also checked was the physical covering of the ten... Based on the above, this QAR is considered closed.

POOR ORIGINAL

Corrective: see IOM QCFM-6224/AI-574		(11) Sig...	
(12) Action Verified: R Ablondi		(13) Date: 7/3/79	

8/2/74

WHITE – Return to sender CANARY – Addressee's file PINK – Sender's file

BPC 2067
C-1001-4910-0

QCFM-6224/AI-574

Bechtel Power Corporation

Inter-office Memorandum

To L. A. Dreisbach

Date June 29, 1979

Subject Midland Project, Units 1&2
Covering of Venturi
Access Openings

From W. L. Barclay

Of Quality Control

Copies to
J. F. Newgen
R. A. Simanek

At Midland, Michigan
Job No. 07220 204

References: a) Quality Action Request SD-202, dated 6/6/79
b) QA Action Item No. 816, dated 6/27/79

This is considered Bechtel Quality Control's complete response to reference a) and b) above.

On 6/19/79 an inspection was conducted of the subject venturies. All open access openings were covered and cleanliness verified in accordance with Section 6.4 of Spec. M-204.

The inspection of the subject items were documented as follows:

1) 2FE-1932 (dated 6/12/79) IR #P-1.10-DVI-619-5-3

2) 2FE-1718A (dated 6/19/79) IR #P-1.10-617-6-9

3) 1FE-1618A (dated 6/19/79) IR #P-1.10-616-6-7

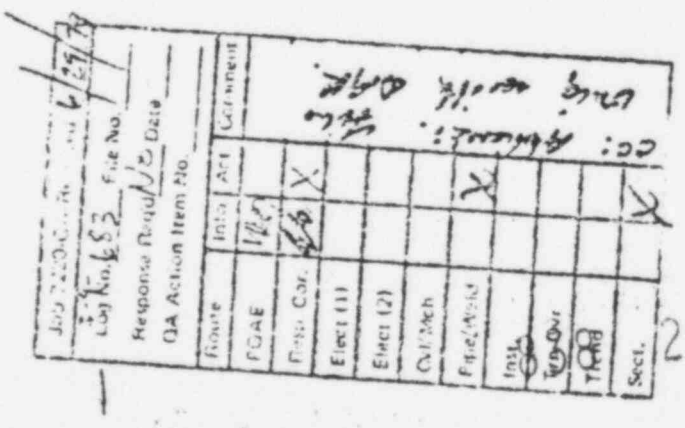
If you have any questions concerning the above, please contact this office.

POOR ORIGINAL

W. L. Barclay
W. L. BARCLAY
PROJECT FIELD QUALITY CONTROL
ENGINEER

WLB/JER/SMW/LEB/jmk

Response Required: NO



207

QUALITY ACTION REQUEST

cc: J. Corley
W. Bird
D. Miller

AI/817

(1) From: L. A. Dreisbach		
(2) To: J. F. Newgen	(3) Control Document ref.: C-305	(4) QAR Ident. No.: SD-206

(5) Action Requested:

Concern:

The Q.A. Tracking Program has indicated a marked increase in the number of occurrences (NCR's and DR's) of anchors not being installed in accordance with specification C-305.

There were 11 occurrences in March and 12 occurrences in APril, and a preliminary check indicates that there will be approximately 30 occurrences for May. There is a wide range of deficiencies including: wrong spacing, wrong location, wrong size bolts, bolts not torqued, personnel not qualified, etc.

See attached list of deficiencies.

(cont on following page)

(6) Signature: Lee H Schroeder	(7) Date: 6/7/79	(8) Reply Requested by: 6/22/79

(9) Reply:

J. F. Newgen response 0-2474 dated 7/18/79 states that lack of training, untimely FCR preparation and lack of supervisory control were the reasons for the number of discrepancies. A training session of C-305 was conducted on July 16, 1979 and Disciplines were requested to take appropriate action on FCR preparation and tightening supervisory control.

(10) Signature: J. F. NEwgen per 0-2474	(11) Date: 7/18/79
(12) Action Verified: Lee H Schroeder	(13) Date: 7/24/79

WHITE — Return to sender CANARY — Addressee's file PINK — Sender's file

BPC 20877
C1001649 05

QUALITY ACTION
REQUEST

Recommended Action

1. Investigate the reasons for above discrepancies.

2. Take appropriate actions to assure better compliance with C-305. The actions should include instructions and training for rapid turn around of the trend and for long-term correction of the problem.

3. Provide the results of the above investigation and provide the corrective actions to be taken along with a schedule for completion.

Deficiency List

NCR's

1963	2154
1994	2156
2052	2147
2053	2149
2088	2125
2197	2126
2157	2127
2152	2116
2109	2114

DR's

Over 40 Discrepancies Reports.

6/19/79

ANCHOR BOLT DISCREPANCIES

Electrical	Piping/Mech.	Civil
# 930	# 1039	# 196
945	1121	197
952	1131	209
954	1142	216
955	1145	222
963	1161	229
998	1176	
1012	1182	
1013		
1032		
1071		
1091		
1115		
1123		
1124		
1126		
1127		
1151		
1152		
1171		
1176		
1187		
1193		
1196		
1204		
1205		
1214		
1215		
1221		
1222		
1223		
1228		

POOR ORIGINAL

Bechtel Power Corporation

Interoffice Memorandum

Job 7220-QA-Received 7/19/79
Log No. 766 File No.
Response Req'd No Date
QA Action Item No. 817

Route	Info	Act	Comment
PQAE			
Resp. Cor.		X	
Elect (1)			
Elect (2)			
Mech	✓		
Field			
Civ			

Brand File

To L. A. Preisbach

Subject Job 7220 Midland Project
Action Item 817
0-2474

File No.

Date July 18, 1979

From J. F. Newgen

Of Construction

At Midland, MI

Copies to M. D. Peterson
J. A. Corder
L. E. Morfin
W. H. Nielson
J. P. Betts
D. R. Short
J. R. Hedges

Reference: 1) Action Item 817, QAR-SD-206, Anchor Installation.

This memo is in response to the reference listed above. In order to re-emphasize the requirements of Specification C-305, to cognizant foremen and general foremen of the electrical discipline, we conducted a training session on Monday, July 16, 1979.

A similar review on June 2 of Specification E-42, pertaining to seismic supports, was well received and helped to improve attitudes and working knowledge. It is believed the C-305 session will aide in improvement of anchor bolt installation on electrical equipment.

At this time it is felt that the relatively small number of civil and mechanical anchor bolt discrepancies can be reduced through timely FCR preparation and tighter supervisory control. By copy of this memo, we are requesting appropriate action by these disciplines.

The NCR's and discrepancies noted on the QAR are currently being corrected and should be completed within two months.

J. F. Newgen

JFN/LFS/jrh

QUALITY ACTION REQUEST

cc: J. Corley
D. Miller
W. Bird

AI/818

From: E. Smith (1)		
To: R. L. Castleberry (2)	Control Document ref.: Procedure (3) GPS-1 Rev 4 Ref Spec G-27 Rev 10	QAR Ident. No.: (4) SD-207 Corrected Copy

Action Requested: (5)

Subject: Improper use of Water Soluble Purge Dam

During final weld radiography on 5/23/79, foreign material was noted inside the pipe adjacent to FW 13 on drawing M613-2. This weld is located in the spray header of Containment #2 at EL 724', 250 AZ. Subsequently the weld was cut and a "soccer ball size" wad of paper removed, which visually appeared to be the type used for water soluble paper purge dams. A small strip of paper readily disolved when held under a stream of water from a drinking fountain.

Visual inspection by Q.C. of the pipe internal verified that no additional material was in this pipe section.

(Continued on following page)

Signature: E. Smith. (6)	Date: (7) 6/8/79	Reply Requested by: 11 a.m. 6/8/79 (8)

Reply: (9)

Project ENgineer has evaluated the subject condition with the following results.

The situation described on the QAR is not reportable to the NRC per 10CFR50 part 50.55E, since the reactor building spray risers must be filled with water to elevation 745' prior to the system being considered operational. Therefore, the wad of paper would have been submerged in water and would have dissolved prior to any actuation of the RB spray system.

Signature: R. L. Castleberry to LAD dated 7/2/79 (10) File: 0294, 0460, 0535.4	Date: (11)
Action Verified: E. Smith (12)	Date: (13) July 3, 1979

8/2/74

WHITE – Return to sender CANARY – Addressee's file PINK – Sender's file

BPC-20877
G1001643 05

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Copy given to CA-D

QUALITY ACTION
REQUEST

Project Engineering is requested to evaluate the above situation and:

1. Determine its impact to safety and reportability to the NRC per 10CFR50 part 50.55E.

2. Advise the PQAE by 11:00 a.m. 6/8/79 of the results of this determination.

Note: The above problem was discussed with Dave Anderson of Project Engineering on 6/7/79. & 6/8/79 HD

Bechtel Associates Professional Corporation

Inter-office Memorandum

To	L.A. Dreisbach/W. Moring	Date	July 2, 1979
Subject	Midland Plant Units 1 & 2 Job 7220 Water Soluble Purge Dam File: 0294, 0460, 0535.4	From	R.L. Castleberry
		Of	Engineering
Copies to		At	Ann Arbor

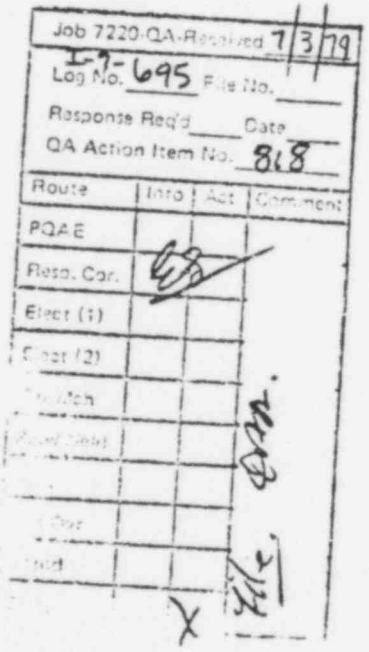
R. Baltazar
D. Anderson
Com Log

This is a complete response to QPPR 818 and QAR-SD-207.

The situation described on the QAR is not reportable to the NRC per 10CFR50 part 50.55E, since the reactor building spray riser must be filled with water to elevation 745' prior to the system being considered operational. Therefore, the wad of paper would have been submerged in water and would have dissolved prior to any actuation of the RB spray system.

for R.L. Castleberry

CD/jt
7/2/2



QUALITY ACTION REQUEST

cc: W. Bird
D. Miller
J. Corley

CORRECTED COPY - CLOSURE

AI/820

(1) From: E. Smith

(2) To: J. F. Newgen

(3) Control Document ref.: Ref G-27 Procedure GPS-1 Rev. 4

(4) QAR Ident. No.: SD-209 Corrected Copy

(5) Action Requested:

Subject: Improper Use of Purge Dam Material

Procedure GPS-1 Rev 4 allows the use of water soluble paper dams to facilitate pipe welding internal backing purge, provided the paper is installed as a disc inside the pipe. GPS-1 additionally prohibits placing a wad of the paper into the pipe.

Contrary to the requirements of GPS-1 a wad of purge paper the size of a soccer ball was placed into the Containment #2 spray headers. Field weld 13 on Drawing M613-2 was cut to facilitate removal of the wad of paper.

You are requested to evaluate this situation and 1. Determine how the paper

(continued on following page)

(6) Signature: E. Smith

(7) Date: 5/8/79

(8) Reply Requested by: 6/22/79

(9) Reply:

Construction considers the wad of purge material to be an infrequent situation. Welders were queried resulting in a consensus that only the subject weld was made with a purging dam. However to assure that soluble purge dams are installed correctly in the future, all associated welders have been instructed in proper installation techniques.

Re: Construction IOM 0-2402

(10) Signature: IOM 0-2402

(11) Date: 6/29/79

(12) Action Verified: E. Smith

(13) Date: 7/2/79

WHITE Return to sender CANARY Addressee's file PINK Sender's file

BPC 20877
G1001-49 05

QUALITY ACTION
REQUEST

got into the pipe and take appropriate corrective action. 2. Provide assurance that this situation doesn't exist in other pipe spools of the Midland Plant. 3. Take appropriate corrective action to prevent recurrence of this problem.

POOR ORIGINAL

Bechtel Power Corporation

Interoffice Memorandum

Job 7220-QA-Receiv	6/29/7
Log No. 679	File No.
Response Req'd	Date
QA Action Item No.	820

Route	Info	Act	Comm
PQAE \			
Resp. Cor.		X	
Elect (1)			
Elect (2)			
Civil/Mech			
Pipe/Weld			
Inst.			
Tm Ovr			
Trend			
Sect.			

cc Gene Fitz
w.h. ltr.

To L. A. Dreisbach

File No.

Subject Job 7220 Midland Project
Action Item 820 Closure
0-2402

Date June 28, 1979

From J. F. Newgen

Of Construction

At Midland, MI Ext.

Copies to J. Corder
J. J. Gilmartin
J. R. Hedges

Reference: 1) Action Item 820, QAR SD-209, Purge Dam Material

This memo is in response to the reference listed above.

The wad of purge dam material which was discovered through examination of an x-ray film is considered an infrequent situation. The possibility of checking other films to determine if additional cases exist would not be conclusive since this type of soluble purge dam is seldom used and is normally installed out of the weld area. This particular dam seems to have shifted into the weld area after the purge gas was removed. This was possible since it was a vertical pipe weld.

The normal method of soluble purge dam removal is simply o dissolve it during flush or hydro. This method would also work for a wad of material, although this is not to say that wadded material is a correct installation for a dam.

Flow restriction, such as might be caused by a dam in the process of dissolving, would be indicated by variable water velocity during flushing or hydro, or by gobs of partially dissolved purge dam material coming out the discharge point. Gobs would soom disappear after extended flushing.

The reactor building spray piping, which will be air tested out of the nozzles would be clear of any possible purge dam material for the following reasons:

a. The dome piping was installed when the dome was on the ground and no purge material was used.

838 217

3024. REV 1/78

b. Riser welds made in place are located below the standing water level for preliminary flushes and hydros. This water will dissolve any possible wads, although our welders testify that only the weld in question made use of a soluble purge dam since it was the closure weld.

In order to assure that soluble purge dam material is installed correctly in the future as a membrane rather than a wad, all welders associated with such systems have been instructed in the proper technique.

We hope this is a satisfactory response.

J. F. Newgen

JFN/LFS/jrh

QUALITY ACTION REQUEST

cc: J. Corley
W. Bird
D. Miller

A/I 822

From: BOB ABLONDI (1)		
To: L. SOKOL (2)	Control Document ref.: (3) CPCO LTR 196FQA79 (attached)	QAR Ident. No.: (4) SD-210

Action Requested: (5)

B&W NCR 1606 IDENTIFIED AN UN-DOCUMENTED BUTTWELD ON SPOOL NO. 2CCA-19-S-604-3-2B FURNISHED BY SOUTHWEST FAB.& WELDING CO. REF. SPOOL SKETCH NO. Q_6150 SHEET 33Y REV.2.

QUALITY ACTION REQUESTED:

1) OBTAIN MISSING DOCUMENTATION. IF NOT OBTAINED NOTIFY THE PQAE BY TWX BEFORE 6/12/79.

2) DETERMINE THE EXTENT OF THE REPORTED CONDITION.

3) DETERMINE THE CAUSE OF THE REPORTED CONDITION.

4) INITIATE OR CAUSE TO INITIATE ACTION TO PRECLUDE RECURRENCE.

THIS QAR WAS TELECOPIED TO AAO-PROCUREMENT ON 6/12/79

Signature: B W Ablondi (6)	Date: 6/9/79 (7)	Reply Requested by: 1) 6/12/79 (8) 2,3 & 4 by 6/15/79

Reply: (9)

As a result of Bechtel Field Engineering & QA's investigation and the results of the following actions, it is evident that Southwest Fab. & Welding Co. did not make the unidentified weld.

THIS DETERMINATION IS BASED ON THE FOLLOWING:

1) ON 7-2-79, B&W craft personnel cut the spool adjacent to to B&W's field weld. The cut was made at the toe of the weld on the fitting side of the connecting spool.

(CONTINUED PAGE 2 OF 2)

Signature: Not Required. (10)		Date: (11)	
Action Verified: B W Ablondi (12)		Date: 7-9-79 (13)	

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WHITE – Return to sender CANARY – Addressee's file PINK – Sender's file

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POOR ORIGINAL

REPLY (Continued from page 1 of 2)

2) The cut was made to determine if the weld was made by Southwest FAB. & Welding Co.

3) The results of the inspection of the ID of the pipe & fitting at the cut revealed that the weld was not only done in the field, but there was only one weld made i.e full groove penetration, between the two spools at field weld No. 8.

This determination was based on the following:

a) There was only one root pass between the pipe and the fitting (elbow).

b) there was no heat discoloration lying perpendicular and under the only weld reinforcement.

c) There is no demarcation or disruption of counterbore or base material finish at the fitting ID that lies under and perpendicular to the only weld reinforcement. this un-interupted condition extends through the elbow to the only root pass. On the pipe side of the root pass is the required .500 inch counterbore and ten degree land.

POOR ORIGINAL

QUALITY ACTION REQUEST

cc: J. Corley
D. Miller
W. Bird

file copy.

AI/828

From: (1) E. Smith		
To: (2) J. Newgen	Control Document ref.: (3) FPD-2.000 Rev. 4	QAR Ident. No.: (4) SD-211

Action Requested: (5)

FPD-2.000 Para 7.2 requires the responsible Field Engineer to indicate whether the change affect a Q-Listed item and denote the type change (FCR or FCN) being proposed. The designation of Non-Q appears to be incorrect on several FCR's as noted below:

(Continued on following page)

Signature: (6) E Smith	Date: (7) 6/12/79	Reply Requested by: (8) 6/27/79

Reply: (9)

Field Engineering has reviewed spec 7220-M-473 and identified 5 additional FCR's for which had improper "Q" designation. The cause of the problem was isolated to a misunderstanding between one field engineer and Document Control. All responsible parties noted understand the requirements. Memo Q-2477 has been issued to all Field Engineers to reiterate the necessity of accurately marking "Q" or "NON Q" on FCR/FCN.

Signature: (10) IOM Q-2475 and Q-2477	Date: (11) 7/18/79
Action Verified: (12) E Smith	Date: (13) 7/20/79

8/2/74

WHITE – Return to sender CANARY – Addressee's file PINK – Sender's file

BPC 20877
G1001649-05

QUALITY ACTION
REQUEST

FCN No.	Affected Item
M-1670	Damaged weld preps on Q-Listed pipe spools 2ELB-1-639-13-2
M-1728	Correction of ID mis-match on lines 2HBB, 26 and 27 and 1HBB 26 and 27 pipe welds.
M-1629	Changed weld preparation from Type 3 to Type 2 in 2ELB-9 system
M-1628	Changed weld preparation from Type 3 to Type 2 in 2ELB-10 system.
M-1624	Changed Type 2 to Type 2 weld preparation in an 2EBE-4 systems.
M-1641	Authorizes "use as is" on sleeve to Flued head weld for two "Q" penetration.

Other FCR's (i.e. M-1565, M-1197, and M-1565) dealing with weld preparation modifications in Q-systems have "yes" checked for Q-item.

You are requested to :

1. Evaluate all the FCR's written against spec. 7220-M-473 for cor ectiveness "Q-item" designation and correct any discrepancies found.
2. Provide assurance that this problem doesn't exist in FCR's in other displincies.
3. Take appropriate corrective action to preclude recurrence.

Bechtel Power Corporation

Interoffice Memorandum

To L. A. Dreisbach

File No.

Subject Job 7220 Midland Project
QAR SD-211
AI/828
0-2475

Date July 18, 1979

From J. F. Newgen

Of Construction

Copies to J. Meilstrup
W. Barclay

At Midland, Mi. Ext.

This letter is in response to QAR SD-211.

1. In addition to the FCR's you listed, the following FCR's were written against drawing M-473 with incorrect "Q" designation - 1329, 1607, 1448, 1336, and 1296. This problem developed because M 473 is a non-Q drawing even though it applies to "Q" material. This resulted in a misunderstanding between one engineer and Document Control. That is the root cause of this QAR. All responsible parties now fully understand that an FCR can be "Q" even if written against a non-Q drawing or specification. We do not feel there is any justification for revising these FCR's.

2.& 3. A memo is being written to all Field Engineers and Document Control reiterating the requirement for the "Q" designation on FCR/FCN forms.

J. F. Newgen

JFN/DRS/jrm

Job 7220-QA Item ver. 7/18/79
Log No. 767 File No.
Response Req'd 12 Date
QA Action Item No. 828

Route	Info	Action	Comment
PQAE	LAD		
Resp. Cor.	GB	X	
Elect (1)			
Elect (2)			
Civil/Mech			
Piping/Weld			
Instr.			
Tech Cvr			
Trend			
Stat.			

cc - Gena for QAR. Orig with QAR.

838 223

3024 REV 1/78

Bechtel Corporation

Interoffice Memorandum

To All Field Engineers

Date July 20, 1979

Subject Job 7220 Midland Project
"Q" Designation on FCR/FCN Forms
0-2477

From J. F. Newgen

Of Construction

Copies to L. A. Dreisbach
J. Meilstrup

At Midland, Mi.

As a result of a recent QAR, it is necessary to reiterate that an FCR/FCN form must be marked "Q" whenever it applies to "Q" listed work, even if it is written against a non-Q drawing or specification.

J. F. Newgen

JFN/DRS/jrm

Job 7220-QA-Received 7/23/79
Log No. F-7-755 File No.
Response Req'd No Date
CA Action Item No.

Route	Info	Act	Comment
PQAE	LHJ		
Resp. Cor.		X	
Elect (1)			
Elect (2)			
Civil/Mech			
Proj/Plant			
Inst.			
Trn Ovr			
Trend			
Sect.			

0600 (6-73)

CC: W. Bird
D. Miller
J. Corley

QUALITY ACTION REQUEST

AI/829

From: L. A. Dreisbach (1)

To: (2)	Control Document ref.: (3)	QAR Ident. No.: (4)
J. F. Newgen	FPD-2.000 REV 4	SD-212

Action Requested: (5)

A review of the FCN's (examples; C-209, C-210, C-211 & C-217) being issued to the Zack Co. has identified the following concerns:

1. The supplemental sheets do not have any of the control elements as required by FPD-2.000 Rev. 4, attached sample forms.
2. The FCN's were issued for advanced work; however the preparation block had the printed name of the preparer instead of the signature as required by paragraph 8.0 of FPD-2.000 Rev. 4.

(continued on following page)

Signature: (6)	Date: (7)	Reply Requested by: (8)
Lee N Schroeder	6/13/79	6/28/79

Reply: (9)

In response to Q.A.R. SD-212, Item # 1 - Subcontracts has received written confirmation from responsible engineer that all F.C.N.'s issued after July 1, 1979 which require additional sheets will have necessary identification as required by F.P.D. - 2.000, Revision 4.

Item # 2 - Subcontracts has received written confirmation from responsible engineer that all F.C.N.'s issued after July 1, 1979 will have prepares signature as required by F.P.D. 2.000, Revision 4.

Item # 3 - Q.A.R. Statement on this item correct: Advance copies attached to transmittal form. Approved copies sent via Contract Change Notice. The procedure for notifying Zack of a disapproved F.C.N. shall remain the same. A note is added to Contract Change Notice advising of disapproval and requesting Zack to pull back and destroy all copies of said F.C.N. The only change shall be if the F.C.N. is not signed by PFE then Zack shall be notified via note on transmittal form requesting Zack to disregard and destroy said F.C.N.; effective immediately.

Signature: (10)	Date: 7/18/79 (11)
Action Verified: (12)	Date: 7/18/79 (13)

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BPC 20877
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QUALITY ACTION
REQUEST

3. The FCN's were attached to Transmittal Notices. I have been told by the subcontract group that the approved FCN's will be sent by a Contract Change Notice. Confirm that this is the correct mechanism and describe the procedure to be used if an FCN gets disapproved.

Recommended Action

1. Address the above concerns and take appropriate action as required.

2. Provide a schedule for completion of any action to be taken.

cc: J. Corley
D. Miller
W. Bird

QUALITY ACTION REQUEST

A/I-833

From: W. J. Creel Site QA Job 7220 (1)

To: W. L. Barclay (2) | Control Document ref.: SF/PSP G-3.2 Rev. 4 (3) | QAR Ident. No.: SD-214 (4)

Action Requested: (5)

During QA monitoring of control of nonconforming items it was found that some of the valves reported on NCR-1933 had "HOLD" tags applied which were numbered 1993 (note: NCR-1993 is written on pipe spool OHBC-18-S-619-8-3).

Five (5) of the twenty-two (22) valves identified on NCR-1933 were checked and three (3) tags were found to have the incorrect number.

Valves Checked	Tag No.
2½" HCC-1XV-0313A	1993
2½" HCC-1XV-0353A	1993
2½" HCC-1XV-0353B	1993

(continued)

Signature: W. J. Creel (6) | Date: 6/13/79 (7) | Reply Requested by: 6/20/79 (8)

Reply: (9)

A complete review was performed on NCR 1933, which included an itemized review of all "Hold Tags" applied for correct information. Those that were found to have incorrect reference information recorded on them were corrected immediately.

All items listed on subject NCR were found, except valves 1XV-0324A and 1XV-0324B on drawing FSK-M-1HCC-75-1. These two valves were removed (cut out) from their installed design location and have

(CONTINUED ON THE FOLLOWING PAGE)

Signature: W. L. Barclay IOM OCFM 6217/AI-583 (10) | Date: June 28, 1979 (11)

Action Verified: W. J. Creel (12) | Date: July 3, 1979 (13)

8.2.74

3 valves listed above checked and verified tags had been corrected.

WHITE – Return to sender CANARY – Addressee's file PINK – Sender's file

BPC 20877
G1001649 05

QUALITY ACTION
REQUEST

(continued)

had been located at this time. The removal of these two valves was accomplished without an approved disposition on NCR 1933 allowing subject work to be performed. This is in violation of SF/PSP G-3.2 and has been documented on NCR 2310.

During the week of June 4, 1979 training sessions were held on SF/PSP G-3.2 for all Qualtiy Control department personnel. (Reference QCFM s 6116, 6117, 6139, 6140 and 6143). This training was set us as a refresher course assuring that the implementation of SF/PSP G-3.2 is performed properly. Several times during the course, emphasis was placed on this type of problem.

Valves Checked	Tag No.
2" HCC-1XV-0359A	1933
2" HCC-1XV-0357A	1933

Requested Actions:

(1) Check all of the valves identified on NCR-1933 and verify tag numbers.

(2) Correct all tags found to have incorrect numbers.

QCFM-6217/AI-583

Bechtel Power Corporation

Inter-office Memorandum

To L. A. Dreisbach

Subject Midland Project, Units 1&2
QAR SD-214, NCR 1933

Copies to
J. F. Newgen
R. A. Simanek

Date June 28, 1979

From W. L. Barclay

Of Quality Control

At Midland, Michigan
Job No. 07220

References: a) Quality Action Request SD-214, dated 6/13/79
b) Quality Assurance Action Item 833, dated 6/13/79

This is considered Quality Control's complete response to reference a) and b) above.

A complete technical review was performed on NCR 1933, which included an itemized review of all "Hold Tags" applied for correct information. Those that were found to have incorrect reference information recorded on them were corrected immediately.

All items listed on subject NCR were found, except valves 1XV-0324A and 1XV-0324B on drawing FSK-M-1HCC-75-1. These two valves were removed (cut out) from their installed design location and have not been located at this time. The removal of these two valves was accomplished without an approved disposition on NCR 1933 allowing subject work to be performed. This is in violation of SF/PSP G-3.2 and has been documented on NCR 2310.

During the week of June 4, 1979 training sessions were held on SF/PSP G-3.2 for all Quality Control department personnel.(Reference QCFM's 6116, 6117, 6139, 6140 and 6143). This training was set up as a refresher course assuring that the implementation of SF/PSP G-3.2 is performed properly. Several times during the course, emphasis was placed on this type of problem. A Quality Control Corrective Action Report has been issued for the resolution of this incident.

If you have any further questions concerning the above, please contact this office.

W. L. Barclay

W. L. BARCLAY
PROJECT FIELD QUALITY CONTROL
ENGINEER

WLB/JER/SMW/LEB/jmk

Response Required: NO

838 230

cc: W. Bird
J. Corley
B. Miller

for copy

QUALITY ACTION REQUEST

AI/835

From: L. A. Dreisbach

To:	Control Document	QAR Ident. No.:
R. L. Castleberry	CPCo NCR M-01-9-9-051	SD-217

Action Requested:

CPCo's NCR M-01-9-9-051 is related to the same pour as Bechtel NCR-1931.

1. Provide for block #25, disposition and justification, of CPCo NCR. CPCo Q.A. does not believe there is sufficient justification on the Bechtel NCR to be used in their NCR.

2. Provide for block #42, process corrective action, of CPCo NCR. A change to the spec C-230 (Q) is required. The wording in section 9.1.3 on not remixing is not sufficient because the concrete was remixed prior to the point of acceptance or rejection.

(Continued on following page)

Originator	Date	Reply Requested by
Lee H. Schweder	6-14-79	6-22-79

Reply: This is a complete response to the referenced quality action request (QAR). Specification 7220-C-230 sets forth ASTM C94-1972 as one of the governing standards for ready mixed concrete, unless otherwise specified. Therefore, Specification 7220-C-230 needs to address only those cases which differ from ASTM C 94-1972. It would be inconsistent to single out an accepted rule and add it to Specification 7220-C-230, when it is clearly presented in ASTM C 94-1972, Section 10.6. Therefore, a change in the specification is unnecessary and would create confusion by implying an exception to or a variation of the governing standard.

It should be noted that initial set would not have occurred in less than one hour. The low ambient temperature (34 F) would retard the setting time and the field engineer observed that the concrete was pumpable and workable when placed. It should be noted that this was an isolated incident which received immediate attention by project engineering as evidenced by BVS BERC-2354 dated January 10, 1979.

Because this is the first reported case of remixing concrete at the jobsite, and because the concrete work is nearing completion, the actions taken by project engineering at the time are consistent with the discrepancy. No further action is required.

Signature	Date
M. Rothwell for R Castleberry (Tom dated 7/13/79)	7/13/79
Lee H Schweder	7/20/79

833 231

Return Receipt Requested — Originator — DRK Sender's file

POOR ORIGINAL

QUALITY ACTION
REQUEST

Bechtel letter BECC-2844 is not sufficient process action because 1) Newgen did not take any documented action as instructed 2) the project has gone on record, letter LAD-929, that clarifications to specifications will be made by proper change control procedures.

POOR ORIGINAL

cc: W. Bird
J. Corley
D. Miller

QUALITY ACTION REQUEST

AI/837

From: (1) L. A. Dreisbach		
To: (2) J. F. Newgen	Control Document ref.: (3) CPCO NCR M-01-9-9-051	QAR Ident. No.: (4) SD-218

Action Requested: (5)

Attached is the following:

1. CPCo's NCR M-01-9-9-051
2. Bechtel's NCR 1931 (closed out)
3. REM C-2184 dated 4/20/79
4. BEBC-2844 dated 4/10/79

Required Action relative to CPCo's NCR

1. Provide for block No. 39, actual root cause
2. Provide for block No. 42, Process Corrective Action, including fulfilling Project Engineering Requirement at the bottom of BEBC-2844.

Signature: (6) Lee H. Schroeder	Date: (7) 6/13/79	Reply Requested by: (8) 6/19/79

Reply: (9)

See Newgen IOM O-2419 dated 7/5/79 for the above responses.

Signature: (10) J. Newgen (IOM O-2419)	Date: (11) 7/5/79
Action Verified: (12) Lee H Schroeder	Date: (13) 7/12/79

8/2/74

WHITE – Return to sender CANARY – Addressee's file PINK – Sender's file

BPC 20877
G1001E49 05

838 233

Part 21

NONCONFORMANCE REPORT

PROJECT ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

Page 1 of 3

Midland 1 & 2	NA	Corrective Action Requested By FCR 81423	50-(329)-051
NA	Bechtel Field Engr, Proj Engr, & QC	Construction	6-5-79
		Form C(687.75)a	16.3.1, 16.3.4, 16.

Section 17.1.1 of the Midland 1 & 2 FSAR Rev 19 states in part, "...The conveying vehicle for the central batch plant operation is defined as an agitator truck. The drum will be used for agitating speeds and not at mixing speed because the concrete is completely mixed before being loaded, as evidenced by the slump uniformity tests of ASTM C-94".

Contrary to the above, the Quality Control for Placing Concrete Test Report for placement C(687.75)a documents a truck number "51" and batch plant ticket number "31425" was remixed for approximately 30 minutes. (Contd on Page 3)

Project Engineering should evaluate the concrete in place per this NCR for its ability to satisfy the design requirements.

LADreisbach

SLBarclay, WRBird, RLCastleberry, TCCooke, JLCorley, RHermester, SHillowell, DRJohnson, GSKeeley, EMMarguglio

JMiland, DRMiller, WCMorin, JFNexsen, ERumbaugh, RASimanek, DATaggart

Yes

NA

NA

NA

See Note Block #4 for References due 6/20.

838 234

POOR ORIGINAL

NCR SERIAL NO: [illegible]-01-9-9-0[illegible]
DATE: 6-6-89
DISP OF REV: NA
ITEM NO: 16.3.1, 16.3.4, 16.3.6

12. "AS IS" NONCONFORMING CONDITION VERSUS [illegible] SHIPPED CONDITION WITH REFS:

(Contd from Page 1)

The batch plant delivery ticket 31425 indicated [illegible] revolutions from time of batchi to time of complete discharge of 1 hour 6 minutes. The average discharge revolution for other trucks in this pour were 24 and average times between batching and complet discharge were 22.5 minutes.

POOR ORIGINAL

BECHTEL ARB
TWX 4620 4/10/79

ATTN: J.F. NEUGEN

BEBC-2344
SUBJECT: CPCO/MIDLAND PLANT JOB 7220
CONCRETE MIXING
FILE: 0274, C-230-PR

PAGE 3 OF NCR 1931 STATES THAT THE CONCRETE TRUCK WAS PULLED OFF TO THE SIDE AND CONCRETE WAS REMIXED FOR APPROXIMATELY 30 MIN.

AS STATED IN ASTM C-94, SECTION 10.6 ANY TURNING OF THE DRUM, AFTER THE MIXED CONCRETE HAS BEEN ADDED TO THE DRUM, SHALL BE AT THE SPEED DESIGNATED BY THE MANUFACTURER OF THE EQUIPMENT AS AGITATING SPEED.

INCREASING THE AGITATING SPEED OF THE DRUM, AFTER THE CONCRETE HAS BEEN ADDED, IS AN UNACCEPTABLE SOLUTION FOR CONCRETE WITH HIGH SLUMP AND/OR HIGH AIR CONTENT.

YOU ARE REQUESTED TO TAKE APPROPRIATE ACTIONS TO RESOLVE THIS PROBLEM.

RL SASTLEBERRY
ANN ARBOR/7PE2113/7220-001/ER

BECHTEL MIDL

POOR ORIGINAL

NONCONFORMANCE REPORT

NON-TESTABLE UNIT

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 1931	20. PAGE 1 OF 3
2. UNIT(S): Unit #1	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: Concrete		5. ITEM LOCATION: c(687.75)a
6. P.O. OR SPEC NO.: C-230 Rev.14	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N: N/A REV: N/A SER NO.: N/A	9. SOURCE: Subcontractor	10. CONTRACTOR/SUPPLIER: Champion, Inc.	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER	IR NO. C-1,30-746 NO. C-230 Rev14	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 ( )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: [signature] DATE: 3/6/79

18. VALIDATED BY: [signature] DATE: 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 the (cont.)

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 insignificant 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

rework	reject	repair	use as is
			X

PROJECT FIELD ENGINEER [signature] DATE 4/25/79

PROJECT ENGINEER [signature] DATE 4-26-79

PROJ CONSTR QC ENGINEER [signature] DATE 4-26-79

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE [signature] 5/7/79

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

C-838 237

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.

P.D. Kowalczyk 3/14/79
D.D. Bennett 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 "use as is". REM C-2184

No drawing change required.

J. Westmoreland 4-20-79

POOR ORIGINAL

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

LEVH1131

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)2 Thin Section ☐ Thick ☐ Mass ☒

5. Concrete Class I 6. Mix No. E-1 GROUT / E-1 7. Entrained Air Content Limits 2

8. Slump Working Limits 3" 9. Inadvertancy Margin 2"

10. Concrete Placing Temperature Limits 40°-60° 11. Weather Conditions Applicab 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. C ASTM C-31 Test No.
31422	51	1002	(1)	GROUT						
				TAILGATE	4¼"	5.6	45	24		
				TD	4¼"	4.8	47			
31421		1001	6	EOL	4½"	4.6	48			
31423		1023	12	EOL	6"/5¾"					
31424		1031	18	EOL	6"/5¾"					
			24	TD	6"	8.0	45			
			24	TD	4¾"	6.2	46			
31425		1041	24	EOL	3¾"	5.4	51			
			30	TD	2¾"	5.2	49			
31426		1053	30	EOL	3½"	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.	424 / 427	Calibration Due Date	8/21/79 / Sam

23. Concrete Rejected Cu. Yards +1

24. Concrete Sampled & Tested by RH

25. Quality Control Engineer [signature] 26. Date 3/2/79

858

TR20-QCT-15 Rev. 1

POOR ORIGINAL

MIDLAND PROJECT

RESIDENT ENGINEER MEMORANDUM

RE- C-2184

DATE 4-20-79

SPEC. C-230

SUBJECT: CONCRETE SLUMP

REF: NCR 1931

AAO COORDINATION: Date 4-16-79 /Time — /AAO Contact J. HOOK

4-28-79

PROJECT ENGINEERING HAS REVIEWED THE ATTACHED NCR AND HAS DETERMINED THAT THE CONCRETE PLACED WITH SLUMPS OF 6" AND 6¼" IN LIEU OF THE SPECIFIED 5" LIMIT WILL TEND TO HAVE AN INSIGNIFICANT EFFECT ON THE CONCRETE PLACED. PROJECT ENGINEERING RECOMMENDS TO "USE AS IS".

POOR ORIGINAL

RESIDENT ENGINEER J. Westman

AAO Review: Group Supervisor G R Turner

Date: 4/28/79

Bechtel Power Corporation

Interoffice Memorandum

Route	Info	Act	Comm
PQAE			
Resp. Cor.			
Encl (1)			
Encl (2)			
[illegible]/Mich			
[illegible]/Wmid			
[illegible]			
[illegible] Ovr			
[illegible] Bend			
[illegible]			

Job 7220 Midland Project
QA Action Item No. 837

To: L. A. Dreisbach

Subject: Job 7220 Midland Project
QAR SD-218, Action Item 837
0-2419

Date: July 5, 1979

From: J. F. Newgen

Dept: Construction

Loc: Midland, MI

cc: R. D. Kowalski
W. L. Barclay
J. R. Hedges

Copy Lee - Date 7-12-79

This is a complete response to QAR SD-218, Action Item 837.

Root Cause:

Based on the fact that CPCo's NCR was written more than three months after the alleged nonconformance of remixing the concrete, it is not possible to establish all the facts of the occurrence.

Based on CPCo's NCR of 356 revolutions in 66 minutes, the rate of revolution turns out to be 5.4 rev/min which is within the agitation speed of the truck. Inasmuch as agitation of concrete is acceptable while remixing is not, this could be construed as not being a nonconforming condition. However, if the average discharge revolutions and time for other trucks for the same placement are subtracted from the values listed above as suggested by CPCo's NCR, then the speed of the truck is 7.7 rev/min. This revolution rate is considered remixing the concrete and violates Specification C-230. By doing this calculation, one assumes that the nonconforming truck had an average discharge. This precludes any delay due to equipment problems such as pump breakdown and no problems in batching concrete, plus, in this case, exceeding any pour rate on the liner plate.

The field engineer and the QC engineer on the placement did not actually time the rev/min in which the truck was turning. Therefore, the term remixed as stated on the in-process concrete test report is a guess at best. It is not possible to tell 6 rev/min from 7 rev/min without timing.

Assuming the worst case that the concrete was remixed as stated, it appears that it was inadvertently done. Specification C-230 references ASTM C-94 which does not allow remixing of concrete. Since this is a specification requirement and the responsible field engineer was aware of this requirement at the time, the load was inadvertently remixed instead of agitated.

POOR ORIGINAL

3024, REV 1, 78

It should be noted that the slump and air content were checked prior to the placement of the concrete and that the values were found acceptable for placement.

Corrective Action:

Field engineering does not consider this a problem as stated in Project Engineering's NCR SCBC-2864. Inasmuch as this is the only NCR to field engineering's knowledge for remixing concrete, and there have been thousands of yards of concrete placed, one NCR can hardly be considered a trend of a substantial problem. However, to preclude repetition, it was re-emphasized to the responsible concrete field engineer that Specification C-230 does not allow remixing of concrete.

Project Engineering has already evaluated the concrete through Bechtel NCR 1931 prior to CPCo's NCR being written and determined it would have no detrimental effect.

Based on the above, field engineering does not intend to take any further action.

J. P. Jensen

JPJ/JRB/jch

POOR ORIGINAL

QUALITY ACTION REQUEST

cc: J. Corley
W. Bird
D. Miller
J. Hedges

AI/843

From: W. J. Creel (1)		
To: (2) A. J. Boos	Control Document ref.: (3) Spec: FPG-5.000 Rev. 4	QAR Ident. No.: (4) SD-223

Action Requested: (5)

FPG-5.000 Rev. 4 Paragraph 7.0 states in part, "Information for maintenance/inspection of material and equipment released for construction is provided by preparing the dual purpose maintenance/inspection forms (F-10-F-20) for a given item or group of items. The maintenance inspection information is outlined in the main body of the form and is issued with a unique F-10 number for implementation. Each time the requirements of the implemented F-10 form are to be reported, compliance or non-compliance and corrective action is reported on a copy of the F-10 form. This marked F-10 form is issued with a unique F-20 number." ". . . the need for the F10/20 for form is determined by the MME

(continued on following page)

Signature: (6) W J Creel	Date: (7) 6/18/79	Reply Requested by: (8) 7/2/79

Reply: (9)

F10 forms are now being prepared for Q-Listed instruments received on site. The subject instruments noted are covered as follows:

F10-693 2FT-0201A1, A3

F10-693 2FT-0201B2, B3, B4

F10-707 2PT-1104B1, B2

Signature: (10) J. F. Newgen IOM 0-2448	Date: (11) 7/12/79
Action Verified: (12) W J Creel	Date: (13) 7/31/79

8/2/74

WHITE – Return to sender CANARY – Addressee's file PINK – Sender's file

BPC 20877
G1001649 05

QUALITY ACTION
REQUEST

prior to installation."

Contrary to the above requirements F-10's have not been issued and implemented for Q-List instruments which have been installed.

Instruments monitored by Q.A. were as follows:

2PT-1104B1	2FT-0201A3	2FT-0201B4
2PT-1104B2	2FT-0201B2	
2FT-0201A1	2FT-0201B3	

Requested Action:

(1) Prepare, issue and implement F10/20 forms for Q-List instrumentation inaccordance with procedural requirements of FPG-5.000 Rev. 4

Bechtel Power Corporation

Interoffice Memorandum

To L. A. Dreisbach

File No.

Subject Job 7220 Midland Project
Action Item 843 Closure
0-2448

Date July 12, 1979

From J. F. Newgen

Of Construction

Copies to V. Graden
J. Hedges

At Midland, MI Ext.

References: 1) Action Item 843, QAR-SD-223, Instumentation F-10 Forms.

This memo is in response to the reference listed above. F-10 forms are now being prepared for Q-listed Instruments received on site. Those instruments noted on the reference are covered as follows:

F-10-693 2FT-0201A1, A3

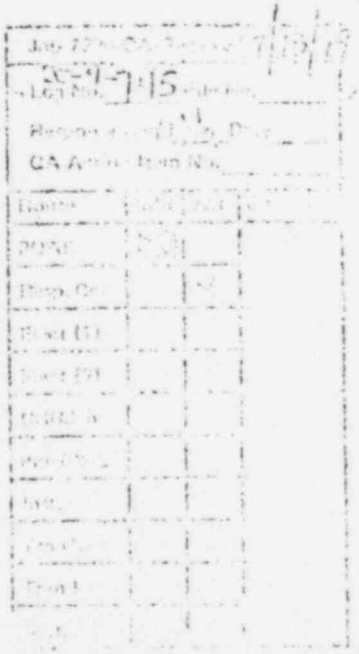
F-10-693 2FT-0201B2, B3, B4

F-10-707 2PT-1104B1, B2,

This should close the finding.

J. F. Newgen

JFN/LFS/mlm



838 245

POOR ORIGINAL

cc: J. Corley
D. Miller
W. Bird
D. Wall

QUALITY ACTION REQUEST

file copy

AI: 5-3

From: L. A. Dreisbach (1)		
To: Nick Isbel (2)	Control Document ref.: IOM LAD NRC Report 79-12 - 901 (3)	QAR Ident. No.: SD-252 (4)

Action Requested: (5)

The subject NRC Report identified, as part of an infraction, that Shop inspections and documentation review failed to verify that documentation on the wall thickness measurements, as specified in Paragraph 9.6.1 of Specification M-129B, was included in the Valve Documentation Package supplied by Borg Warner, the Vendor.

To determine the scope of the problem supportive of the clients response to the NRC infraction you are requested to:

(Continued on page 2 of 2)

Signature: L A Dreisbach (6)	Date: 7/19/79 (7)	Reply Requested by: 8-24-79 or Sooner (8)

Reply: (9)

The requested Reviews were performed as requested and the date documented and supplied to QA by IOM SQDM 154-79 dated 7/26/79.

Signature: IOM SQDM 154-79 (10)	Date: 7/26/79 (11)
Action Verified: L. Smith (12)	Date: 7/30/79. (13)

8.2.74

WHITE – Return to sender CANARY – Addressee's file PINK – Sender's file

BPC 20877
01001649 05

QUALITY ACTION
REQUEST

a. Review other Borg-Warner Documentation packages for this ommission.

b. Perform a sampling review of Documentation from other suppliers who have this requirement in their purchase specifications.

c. Document the results of the above reviews suitable for verification by the client and the NRC at a later date.

d. Keep Bechtel QA (E. Smith) appraised of the results and progress.

e. Actions a, b, and c must be completed by 8/24/79.

Bechtel Power Corporation

Interoffice Memorandum

To L. A. Dreisbach

Subject Quality Action Request

File No. S.Q.D.M. 154-79

Date July 26, 1979

From J. E. Davis

Of Procurement Supplier Quality

Copies to C. J. Buhl
E. Smith

At Midland, MI Ext. 268

The following is in response to quality action request SD-252:

In regard to Action A, Borg Warner Corporation, documents were reviewed to assure that wall thickness verification reports were submitted as required by technical specification 7220-M-225, paragraph 9.6 and the G-321-D form. As of the above date, documentation has been submitted for 223 valves. Wall thickness reports were submitted for only 126 valves. Details are listed on Attachment 1 of this report.

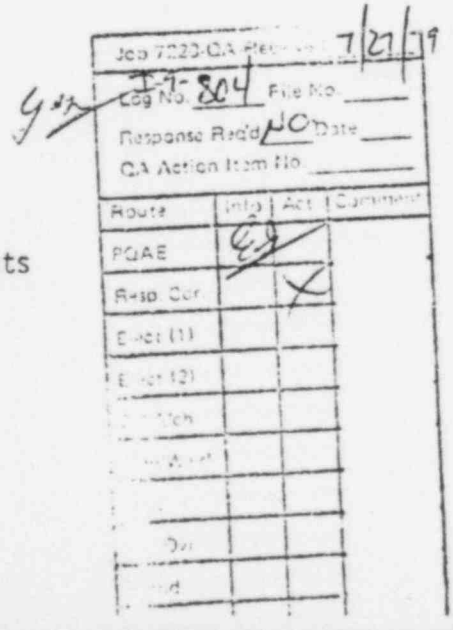
To satisfy Action B of CAR SD-252, a total of 75 documentation packages consisting of the same requirements, were reviewed from four different purchase orders. Samples reviewed were 14 documentation packages from Target Rock, J-256, 45 packages from Henry Pratt, M-132, 3 packages from Henry Pratt, M-168 and 13 packages from Westinghouse, M-123-A. The packages were found to contain the required wall thickness verification reports. Identification of the sample packages are listed on attachment B.

To conclude, Supplier Quality has notified Borg-Warner Corporation of the requirements of the procuring documents, and have requested the wall thickness verification reports.

Sincerely,

Jack E. Davis

JED/jmm
Attachments



838 248

5024 REV 1/78

ATTACHMENT I

STATUS OF BORG WARNER WALL THICKNESS REPORTS

AEC NUMBER	VALVES PER PACKAGE	SERIAL NUMBER	REMARKS
2438	1	14798	Wall Thickness Submitted
2832	4	16129 - 16132	"
7375	32	31652 - 31683	"
8706	2	32450 - 32451	"
8706	4	32508 - 32511	"
8706	8	32443 - 32449, 35580	"
8706	2	32470 & 32469	"
8706	23	32472 - 32482	"
		32484 - 32495	"
8706	7	32513 - 32519	"
8706	1	32512	"
8706	1	32420	"
8720	4	31705 - 31708	"
8720	21	31684 - 31704	"
8720	11	32459 - 32468, 32471	"
2394	4	14813 - 14816	"
8706	2	32452 - 32453	1 W.T. Submitted, 1 Missi
2280	5	14803 - 14807	Wall Thickness Missing
2394	4	16125 - 16128	"
2394	5	14808 - 14812	"
2280	28	12130 - 12157	"
2280	6	14715 - 14720	"
2280	39	14754 - 14792	"
2280	9	14793 - 14797	"
		14799 - 14802	"

ATTACHMENT B

PACKAGES SAMPLED

TARGET ROCK J-256

AEO NUMBER	IDENTIFICATION NUMBER
6523	76B-014
6524	76B-012
6611	76B-021
6748	76B-016
6523	76B-019
6524	76B-020
6523	76B-006
6525	76B-013
6524	76B-005, 76B-007
6523	76B-010
6524	76B-001, 76B-004
6523	76B-022
6523	76B-009
6523	76B-023

WESTINGHOUSE M-123-A

AEO NUMBER	IDENTIFICATION NUMBER
2326	10-ACA-Ck-PLF
3907	12-ACA-GT-1MO-1011-PRLF
4498	12-ACA-GT-2MO-1111
4498	12-ACA-GT-1MO-1012
4752	12-ACA-GT-2MO-1112-PRLF
3907	14-CCB-GT-1MO-1001A
4498	14-CCB-GT-1MO-1101A
4752	14-CCB-GT-1MO-1001B-PRLT
4752	14-CCB-GT-2MO-1101B-PRLT
2948	10-CCB-GT-1MO-1020A-RLV
3134	10-CCB-GT-2MO-1120A-RLV
3883	10-CCB-GT-2MO-1120B-RLV
3193	10-CCB-GT-1MO-1020B-RLV

HENRY PRATT M-168

AEO NUMBER	IDENTIFICATION NUMBER
9781	D-0097-2
9069	D-0097-1
9781	D-0097-1

HENRY PRATT M-132

AEO NUMBER	IDENTIFICATION NUMBER
Not Assigned	D-0099-2
2166	D-0059-4
2171	D-0060-3
2222	D-0061-4
2222	D-0059-5
2222	D-0059-9
2222	D-0060-4
2224	D-0059-1
2224	D-0059-7
2224	D-0061-5
2224	D-0062-3
2292	D-0062-3
2293	D-0059-2
2305	D-0060-1
2306	D-0061-1
2307	D-0061-9
2308	D-0059-3
2408	D-0059-1
2603	D-0060-4
2607	D-0059-7
2968	D-0062-1
3175	D-0062-4
3176	D-0062-5
3177	D-0061-6
3177	D-0061-7
3298	D-0061-7
3423	D-0080-7
3423	D-0080-4
3424	D-0080-1
3665	D-0060-7
3776	D-0080-2
3776	D-0080-8
3776	D-0080-3
4080	D-0060-5
4080	D-0060-2
4081	D-0080-2
4181	D-0060-2
4218	D-0061-2
4442	D-0060-6
4442	D-0060-5

ATTACHMENT B

HENRY PRATT M-132, Cont.

AEO NUMBER	IDENTIFICATION NUMBER
4442	D-0060-8
5060	D-0080-5
5061	D-0060-2
5128	D-0080-6
6789	D-0099-1

QUALITY ASSURANCE PROGRAM
MANAGEMENT CORRECTIVE ACTION REPORT
MCAR-1

REPORT NO. 30

JOB NO. 7220 O NO. 4.12 DATE July 11, 1979

I *DESCRIPTION (Including references):

During normally performed final system flow diagram review, Project Engineering discovered that the service water supply pressure to the containment air coolers under an accident condition is much less than the requirements stated in FSAR 6.2.2.2.3. Consequently the containment air coolers could not remove heat from the containment as described in FSAR Section 6.2.2.2 and 9.2.1.3 following a main steam line break or loss of coolant accident.

Bechtel's initial review has determined the deficiency is potentially reportable.

*RECOMMENDED ACTION (Optional)

1. Determine the effect on plant safety that would have resulted had the calculation error gone undetected and determine if the condition is reportable.

2. Determine the root cause of the condition and take all necessary corrective action to preclude recurrence. State the process corrective actions taken.

3. If reportable, state the corrective action taken to assure plant safety.

REFERRED TO ☒ ENGINEERING ☐ CONSTRUCTION ☐ QA MANAGEMENT ☐ _____

☐ PROCUREMENT

Potentially Reportable

ISSUED BY for L. A. DREISBACH Archie E. Bice 7/11/79
Project QA Engineer Date

II REPORTABLE DEFICIENCY

☐ NO ☐ YES

NOTIFIED CLIENT July 9, 1979
Date

Project Manager Date 7/12/79

III CAUSE

CORRECTIVE ACTION TAKEN

POOR ORIGINAL

AUTHORIZED BY _____
Date

STANDARD DISTRIBUTION
DIVISION QA MANAGER
MANAGER OF QA - TPO
GPD - QA MANAGER
LAPD QA MANAGER
AAO QA MANAGER
PROJECT MANAGER
CLIENT
AAO PROJECT DEPARTMENTS 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
PROJECT PROJECT CONSTR MANAGER
CHIEF CIVIL/STR ENGINEER
PE/QE
DIVISION PROCUREMENT MGR
PROJ PROCUREMENT MGR
DIV SUPPLIER QUALITY MGR

FORMAL REPORT TO CLIENT _____
(If Section II Applies) Date

CORRECTIVE ACTION IMPLEMENTED
838 252

VERIFIED BY _____
Project QA Engineer Date

QUALITY ASSURANCE PROGRAM
MANAGEMENT CORRECTIVE ACTION REPORT
MCAR-1

REPORT NO. 31

JOB NO. 7220 Q NO. Various DATE July 12, 1979

I *DESCRIPTION (Including references):

Concrete Expansion Anchors are required to be installed in accordance with Specification 7220-C-305. Specifically, Table 4.1 specifies the minimum required embedded depth of expansion anchors. Specification Change Notice No. C-305-9002, received on site May 10, 1979, adds Section 3.4 which requires a mark or code to be placed on the end of the stud anchor to provide a positive method of identifying the anchor length after it has been installed.

Continued on page 2

*RECOMMENDED ACTION (Optional)

1. Project Engineering:
   a) Evaluate the results of the inspection of the sample of anchors and provide engineering direction to resolve those that do not meet the acceptance criteria of Spec. C-305 with respect to embedded depth. (NCR 2283 and 2285)
   b. Based on the inspection results of the sample, provide engineering direction to ensure that the population of anchors represented by the sample will provide adequate strength. The population is those anchors installed prior to SCN C-305-9002 without length code stamping (approximately 10,000) (Continued on page 2)

REFERRED TO ☒ ENGINEERING ☐ CONSTRUCTION ☐ QA MANAGEMENT ☒ ~~Quality Control~~ ☐ PROCUREMENT

ISSUED BY Arlie E. Bice 7/13/79
Project QA Engineer Date

II REPORTABLE DEFICIENCY

☐ NO

Potentially Reportable, to be determined by Project Engineering

☐ YES

NOTIFIED CLIENT 7/12/79
Date

Project Manager Date 7/13/79

III CAUSE

CORRECTIVE ACTION TAKEN

POOR ORIGINAL

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 QC ENGINEER
PE GCL
DIVISION PROCUREMENT MGR
PROJ PROCUREMENT MGR
DIV SUPPLIER QUALITY MGR

FORMAL REPORT TO CLIENT _____
(If Section II Applies) Date

CORRECTIVE ACTION IMPLEMENTED

838 253

VERIFIED BY _____
Project QA Engineer Date

*Describe in space provided and attach reference document

MAO 065

DESCRIPTION: (Cont.)

Approximately 10,000 expansion anchors were installed prior to the applicability of SCN C-305-9002, hence were not length code marked. To provide confirmation of proper embedment depth for these 10,000 anchors, CPCo, by letter WRB-23-79, dated March 14, 1979 and Project Engineering, by IOM BHBC 2965 directed that a sample of 358 be ultrasonicly tested to determine the length.

IOM QCFM-6159 dated June 18, 1979 as corrected by QCFM-225 reports the UT inspection results which indicate 28% Mech., 07 Civil, and 14% Electrical anchors are embedded less than the minimum depth specified in Specification C-305, Rev. 8. The specific anchors with inadequate embedment depth are documented on NCR 2283 and 2285.

RECOMMENDED ACTION: (Cont.)

c) Evaluate and advise if this existing condition would have had an adverse effect on plant safety. This is to be complete August 1, 1979 or earlier if adverse effect is established.

2. Construction;
IOM 0-2406 dated June 29, 1979 has been issued by construction to stress the importance of maintaining the length code marking. However, construction should determine how/why anchors were installed with less than the specified embedded depth and take appropriate corrective action to preclude recurrence.

3. Quality Control:
a) Determine why the lack of required embedment depth was not identified by QC inspection and take appropriate corrective action.
b) Ensure that current QCI's require Post Installation inspection verification of correct embedment depth using the length code on the end of the anchor.
c) Provide assurance that all the applicable requirements of Specification C-305 are detailed in the QCI.

POOR ORIGINAL

QUALITY ASSURANCE PROGRAM
MANAGEMENT CORRECTIVE ACTION REPORT
MCAR-1

REPORT NO. 32

JOB NO. 7220 Q NO. Various DATE July 20, 1979

I *DESCRIPTION (Including references):
States Terminal Block disconnect link failures were identified by CPCo during the electrical checkout of non-Q-listed start-up transformer (0X03A). Thirty-eight (38) individual disconnect links out of 156 examined were found to be cracked.

Subsequent investigation by Bechtel on four cubicles in 4160 volt Switchgear 2A06 revealed seven individual States Terminal Blocks with cracked disconnect links (reference NCR 2362 issued 7/20/79. The blocks are identified as follows:

(Continued on page 2 of 2)

*RECOMMENDED ACTION (Optional)
1. Determine what effects cracked links in States Terminal Blocks could have on plant safety if uncorrected.
2. Determine cause for the cracked disconnect links.
3. Determine magnitude of problem.
4. Based on the above (3) items determine reportability under 10 CFR 50.55e.

(Continued on page 2 of 2)

REFERRED TO ☒ ENGINEERING ☐ CONSTRUCTION ☐ QA MANAGEMENT ☐ _____
☐ PROCUREMENT

ISSUED BY W Fahrig for 7/20/79
Project QA Engineer Date
LADREISBACH

II REPORTABLE DEFICIENCY

☐ NO ☒ YES

NOTIFIED CLIENT 7/20/79 Date

T.M. Mathews 7/20/79
Project Manager Date

III CAUSE

CORRECTIVE ACTION TAKEN

POOR ORIGINAL

AUTHORIZED BY _____ Date

STANDARD DISTRIBUTION
DIVISION QA MANAGER
MANAGER OF QA - TPO
GPO - QA MANAGER
LAPO 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 QC ENGINEER
PE QCE
DIVISION PROCUREMENT MGR
PROJ PROCUREMENT MGR
DIV SUPPLIER QUALITY MGR

FORMAL REPORT TO CLIENT _____
(If Section II Applies) Date

CORRECTIVE ACTION IMPLEMENTED

838 255

VERIFIED BY _____

MANAGEMENT CORRECTIVE ACTION REPORT
REPORT NO. 32
Job No. 7220

1* Description - continued

Compartment	Terminal
605	LX31
607	LX27
610	LX14, LX24
611	LX7, LX38, LX24

Note:
Due to the location of the disconnect links in the block, a visual inspection of an installed block can only be made on approximately a quarter of the exposed surface of the link.

* Recommended Action - continued

5. Take those corrective actions necessary to prevent recurrence and assure the integrity of terminations associated with States Terminal Blocks.

QUALITY ASSURANCE PROGRAM

MANAGEMENT CORRECTIVE ACTION REPORT

MCAR-1

REPORT NO. 33

JOB NO. 7220 Q NO. 1.107 DATE July 27, 1979

I *DESCRIPTION (Including references):

Section 3.8.1.6.3.2 of the Midland Units 1 and 2 FSAR states in part "The differential length of any two wires in the same tendon up to 100 feet wire length is ± 1/16 inch and ± 1/8 inch for wires longer than 100 feet. Cutting tolerances for overall tendon length is ± 1/2 inch up to 100 feet and ± 1 inch over 100 feet." These requirements are reflected in Inryco Post Tensioning Procedure PT 5.1 (Fabrication Tendons). Contrary to this requirement tendons were produced with varying unknown wire lengths. Some tendons were accepted by Inryco QC and 17 tendons were shipped to the Jobsite

(Continued on page 2)

*RECOMMENDED ACTION (Optional)

Actions to be accomplished by supplier. Available data to be provided to Bechtel Project Engineer on or before August 8, 1979. At that time a schedule for answering other questions will be provided.

1. Determine the extent of the hardware problem.
   a) How was problem detected.
   b) Determine which tendons are acceptable for use and provide data and rationale to substantiate.

(Continued on page 2)

REFERRED TO ☐ ENGINEERING ☐ CONSTRUCTION ☐ QA MANAGEMENT ☐ _____

☒ PROCUREMENT

ISSUED BY I A Drosbach 7-27-79
Project QA Engineer Date

II REPORTABLE DEFICIENCY

☐ NO

Potentially reportable

☐ YES

NOTIFIED CLIENT _____ Date

Project Manager Date 7/27/79

III CAUSE

CORRECTIVE ACTION TAKEN

AUTHORIZED BY _____ Date

STANDARD DISTRIBUTION
DIVISION QA MANAGER
MANAGER OF QA - TPO
GPD 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 QC ENGINEER
PE QCE
DIVISION PROCUREMENT MGR
PROJ PROCUREMENT MGR
DIV SUPPLIER QUALITY MGR

FORMAL REPORT TO CLIENT _____ Date
(If Section II Applies)

CORRECTIVE ACTION IMPLEMENTED

838 257

VERIFIED BY _____
Project QA Engineer Date

*Describe in space provided and attach reference document

AAO-065

DESCRIPTION Continued

(7 verticals and 10 horizontals). Of the tendons shipped to the Site the 7 verticals were inserted into the Containment (#2) NCR 2373 was issued placing the tendons at the Site on hold. Shipment from the Florida facility have been placed on hold.

RECOMMENDED ACTION Continued

c) Is the problem limited to those tendons produced at the Wire Mill facility in Florida or are the tendons produced at Inryco, Melrose Park, Ill. also questionable.

d) If the Melrose Park tendons are considered satisfactory what is the basis for this conclusion.

2. Provide disposition instructions for tendons determined to be bad or questionable.

3. Remedial action to the manufacturing process to prevent similar problems in the future.

a) Include complete evaluation of manufacturing process.
b) Correction of any deficiencies.
c) Proof of effectiveness of corrective actions.

4. Remedial action regarding the quality program to prevent similar problems in the future.

a) Evaluation of Quality Program.
b) Correction of deficiencies.
c) Proof of effectiveness of corrective action.

PROJECT ENGINEERING

1. To evaluate responses from vendor and issue Interim Report on August 10, 1979 to Quality Assurance.

2. Also, determine reportability under 10 CFR 50.55(e) and identify in the Interim Report.

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	2	6-29-79	Reactor	2T51

6. VENDOR/MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
Babcock & Wilcox	☐ RECEIVING ☐ TEST ☒ CONST.	534	N/A

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY?
N/A	N/A	N/A

13. DESCRIPTION OF NONCONFORMITY

A pitted area was discovered on the south outlet nozzle of ~~RN.~~ R.V. Ref 6-29-79 The pitted areas is 5/16" long by 5/16" wide by approximately 1/8" deep. See Sketch.

14. REPORTED BY	15. VERIFIED BY	16. CORRECTIVE ACTION REQUIRED
R Hyde for A. C. Ashworth 6-29-79	R. W. Shope R W Shope 6-29-79	☐ YES ☒ NO
NAME / DATE	NAME / DATE	

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO — H. H. Linn, FIELD PROJECT ENGINEER — 6-29-79 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. H. Linn, FIELD PROJECT ENGINEER — 7-5-79 DATE

20. ACTUAL DISPOSITION: ☐ REWORK ☒ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS

21. DISPOSITION INSTRUCTIONS

See Attachment "A" and SPR 47.

H. H. Linn, FIELD PROJECT ENGINEER — 7-20-79 DATE

22. APPROVALS

B&W FQC: R W Shope 7-20-79 (SIGNATURE / DATE) OTHER: _____ (SIGNATURE / DATE)

OWNER/AGENT: R E W Stiebe 7/23/79 (SIGNATURE / 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

FIELD PROJECT MANAGER — DATE

27. NONCONFORMITY CLOSED

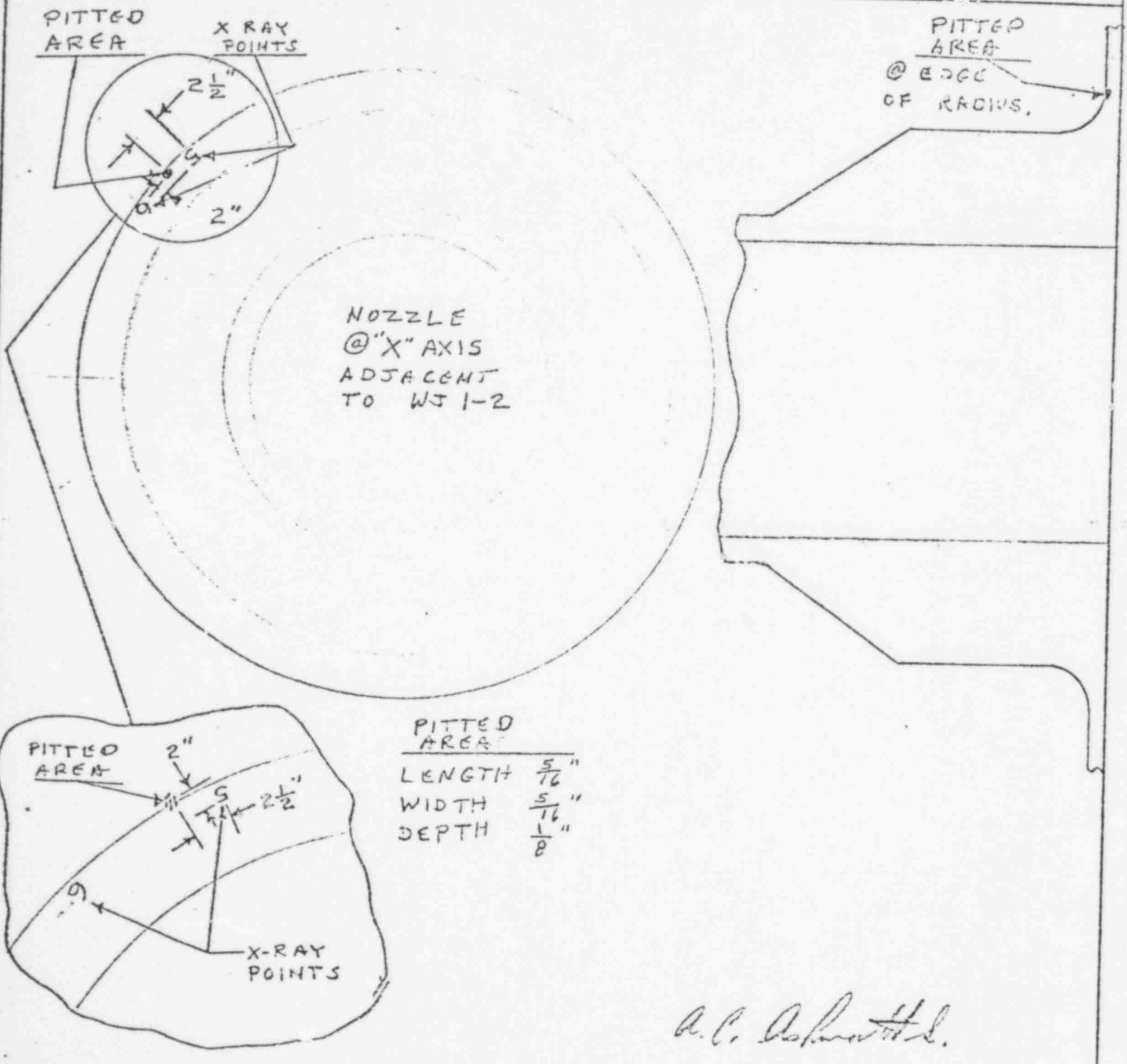
FIELD QUALITY CONTROL SUPV. — DATE

SEQUENTIAL NUMBER 838 259 Nº 1621

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

REPORT OF NONCONFORMITY

JOB NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL-238	2	6-29-79	



PITTED AREA

LENGTH	5/16"
WIDTH	5/16"
DEPTH	1/8"

A. C. Ashworth
6-29-79

POOR ORIGINAL

REPORT OF NONCONFORMITY

B NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL 238	2	7-20-79	1621

ATTACHMENT "A"

1. Grind pitted area by mechanical means to 3:1 taper. Do not go deeper than defect.
2. NDE examine ground area per9-MT-101.
3. Grind to remove prod burns if required.
4. NDE examine ground area per 9-MT-104 if required.
5. Map and record area including radius of indentation.
6. Transmit information to vendor.

DISCUSSION RECORD

UTILITY: Indiana & Michigan Power Company	ORIGINATOR DATE: H. A. Guetling 7-5-79	DOL. ID. CONT. NO. 13 - 620-0013 47 ; SPR NO. ; REV. NO. 0
SENDOR: Mt. Vernon	P.O. NO.: 620-0013-51	PART NO./TASK NO. 51 ; GROUP NO. 01 ; SEQ. NO. 001
TITLE (MAX 80 CHARACTERS): Pitted area - T.B. R.V.		PROBLEM CONTACT: H. A. Guetling

DESCRIPTION OF PROBLEM:

Pitted area - south outlet nozzle, RV.

See NCR sketch for dimensions.

H. A. GUETLING

JUL 16 1979

RAW CC NCR 01631

STATUS-ACTION TO DATE, INCLUDING PERSONS CONTACTED:

D. L. Pace - Lynchburg
C. F. Seaver - Mt. Vernon

FURTHER ACTION RECOMMENDED BY SITE PERSONNEL:

Verification supply disposition.

RESOLUTION:

Grind indication to a fit radius relative to its surroundings, NDT clear, and report final dimensions and radius of indication.

PREPARED BY: [illegible]	DATE: 7-10-79	APPROVED BY: L Hillsberg	DATE: 7-12-79
REVIEWED BY: [illegible]	DATE: 7/11/79		
Walkdown-Inspection [illegible]			

POST CONCRETE NDE: ☐ NDE ☐ SURV ☒ ; FIELD CHANGE REQ: ☐ YES ☐ NO ☒ ; F.C.A. NO.: 79-[illegible] ; SIGNIF. DEFICIENCY: ☐ YES ☐ NO ☒

SITE DOCUMENTATION REQUIRED:

DISPOSITIONS: ☐ NONE ; DPR REV NO. ☐

DATE COMPLETED:

COMPLETED BY: ; DATE:

POOR ORIGINAL

PDS-21091-5(8-76)

SITE PROBLEM REPORT

BABCOCK & WILCOX

CUSTOMER	ORIGINATOR DATE	DOC. ID. CONT. NO.	SPR NO.	REV. NO.
Consumers Power Company	H.A.Guetling 7-5-79	13 620-0013	47	0
VENDOR	P.A. NO.	PART NO./TASK NO.	GROUP NO.	SEQ. NO.
B&W Mt. Vernon	620-0013-51	51	01	001
TITLE (MAX 30 CHARACTERS) Pitted Area - I.D. R.V.		PROBLEM CONTACT H. A. Guetling		

PROBLEM IDENTIFICATION

DESCRIPTION OF PROBLEM:

Pitted area - south outlet nozzle, RV.

See NCR sketch for dimensions.

B&W CC NCR #1621

STATUS-ACTION TO DATE, INCLUDING PERSONS CONTACTED:

L. Rice - Lynchburg
C. F. Groves - Mt. Vernon

FURTHER ACTION RECOMMENDED BY SITE PERSONNEL:

Vendor to supply disposition.

RESOLUTION

RESOLUTION:

PREPARED BY	DATE	APPROVED BY	DATE
REVIEWED BY	DATE		

COST CATEGORY	FIELD CHANGE REQ	F.C.A. NO.	SIGNIF. DEFICIENCY
☐ NORM OTHER ☐	☐ YES NO ☐	04-	☐ YES NO ☐

COMPLETION

SITE COMPLETION REPORT:

POOR ORIGINAL

DEVIATIONS:
☐ NONE SPR REV NO ☐

DATE COMPLETED:

COMPLETED BY DATE

SHEET OF

REPORT OF NONCONFORMITY

1. NUMBER	2. UNIT NUMBER	3. DATE	4. ITEM NAME	5. ITEM NUMBER
238	2	6-29-79	Reactor	2T51

6. VENDOR/MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
Babcock & Wilcox	☐ RECEIVING ☐ TEST ☒ CONST.	534	N/A

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY#
N/A	N/A	N/A

13. DESCRIPTION OF NONCONFORMITY

A pitted area was discovered on the south outlet nozzle of ~~R.V.~~ R.V. Rest 6-29-79 The pitted areas is 5/16" lon by 5/16" wide by approximately 1/8" deep. See Sketch.

14. REPORTED BY	15. VERIFIED BY	16. CORRECTIVE ACTION REQUIRED
R Hope for A. C. Ashworth, Sr. 6-29-79	R. W. Shope RW Shope 6-29-79	☐ YES ☒ NO
NAME DATE	NAME DATE	

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO H. S. Lim 6-29-79

FIELD PROJECT ENGINEER 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. S. Lim 7-5-79

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 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 #

26. CORRECTIVE ACTION

POOR ORIGINAL

FIELD PROJECT MANAGER

~~838~~ DATE 264

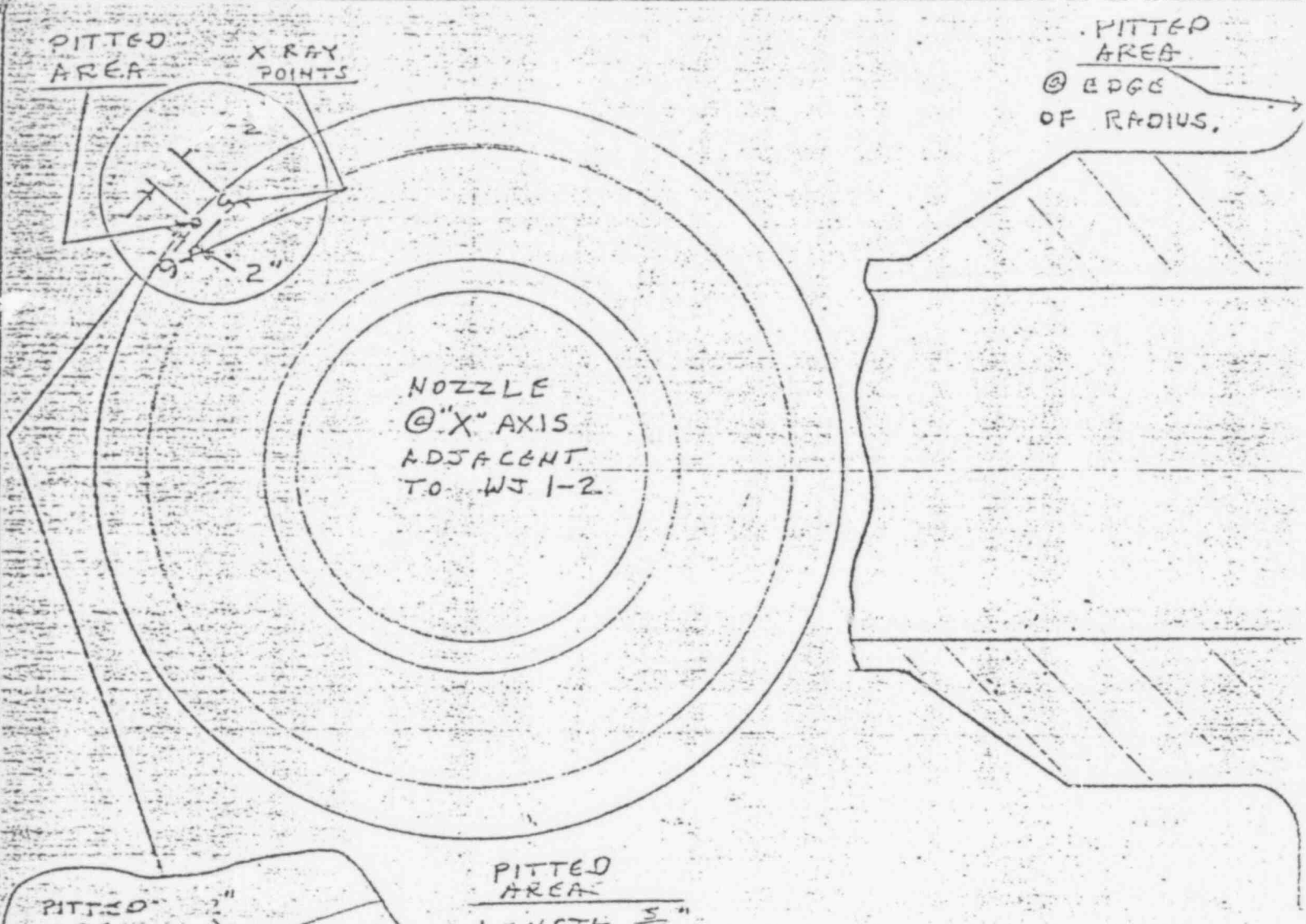
27. NONCONFORMITY CLOSED

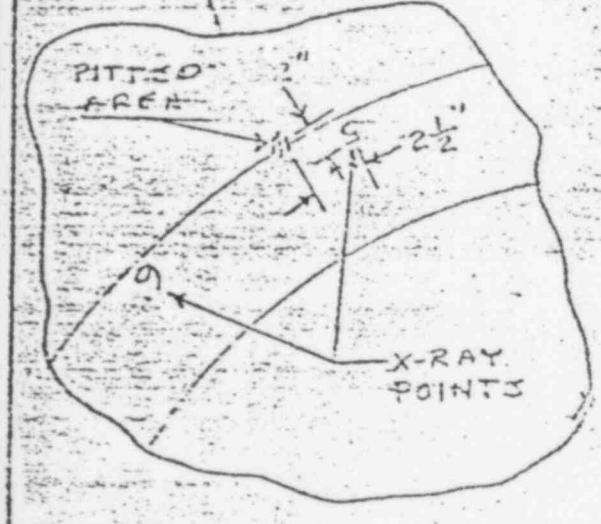
FIELD QUALITY CONTROL SUPV. DATE

SEQUENTIAL NUMBER № 1621

REPORT OF NONCONFORMITY

NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
L-238	2	6-29-79	





PITTED AREA

LENGTH	5/16"
WIDTH	5/16"
DEPTH	1/8"

A. C. Ashworth
6-29-79

POOR ORIGINAL

0 1612-1

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	7-2-79	Reactor Coolant Pipe	JJ-43

6. VENDOR/MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
B&W Mt. Vernon	☐ RECEIVING ☐ TEST ☒ CONST.	532	FCP-86

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY #
9-HT-102 Rev. 6	150177E Rev. 8	N/A

13. DESCRIPTION OF NONCONFORMITY

PWHT code zone temperature exceeded the 1100°F to 1150°F temperature range specified in welding procedure qualification #3259 for WIN-102-3 (actual temp. was 1090°F to 1160°F).

14. REPORTED BY R. W. Shope	15. VERIFIED BY R. W. Shope	16. CORRECTIVE ACTION REQUIRED
R W Shope (NAME) 7-2-79 (DATE)	R W Shope (NAME) 7-2-79 (DATE)	☒ YES ☐ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO — W. H. Lin (FIELD PROJECT ENGINEER) — 7-2-79 (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 #

25. CORRECTIVE ACTION

POOR ORIGINAL

838 266

FIELD PROJECT MANAGER — DATE

27. NONCONFORMITY CLOSED

FIELD QUALITY CONTROL SUPV. — DATE

SEQUENTIAL NUMBER № 1622

1812-1

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	7-2-79	Reactor Coolant Pipe	WJ 4-4

6. VENDOR/MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
B&W Mt. Vernon	☐ RECEIVING ☐ TEST ☒ CONST.	533	FCP-84

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY#
9-HT-102, Rev. 6	150177E, Rev. 8	N/A

13. DESCRIPTION OF NONCONFORMITY

PWHT code zone temperature exceeded the 1100°F to 1150°F temperature range specified on welding procedure qualification #3259 for WIN-102-3 (actual temp. was 1095°F to 1155°F).

14. REPORTED BY	15. VERIFIED BY	16. CORRECTIVE ACTION REQUIRED
R. W. Shope (R W Shope) 7-2-79	R. W. Shope (R W Shope) 7-2-79	☒ YES ☐ NO
NAME DATE	NAME DATE	

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO (H A Linn) FIELD PROJECT ENGINEER 7-2-79 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 #

25. CORRECTIVE ACTION

POOR ORIGINAL

838 267

FIELD PROJECT MANAGER DATE

27. NONCONFORMITY CLOSED

FIELD QUALITY CONTROL SUPV. DATE

SEQUENTIAL NUMBER № 1623

X #12-1

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

REPORT OF NONCONFORMITY

1. JOB NUMBER	2. UNIT NUMBER	3. DATE	4. ITEM NAME	5. ITEM NUMBER
CL ~~230~~ 238 and 6-27-79	#2	6-27-79 ~~7-3-79~~ and 6-27-79	Tab Washer	Mk. #12-23

6. VENDOR/MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
Byron-Jackson	☒ RECEIVING ☐ TEST ☐ CONST.	511	FCP-70

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY #
9QPP-108	1F-7623, Rev.K, 1E-3777 Rev. G, 18-3987 Rev.0	N/A

13. DESCRIPTION OF NONCONFORMITY

B&WCC has not received material certification on the tab washers (70 pcs.) for the R.C. pumps (8 pcs. each).

14. REPORTED BY R. D. Brown	15. VERIFIED BY R. W. Shope	16. CORRECTIVE ACTION REQUIRED
R.D.Brown (NAME) 6-27-79 (DATE)	R W Shope (NAME) 6-27-79 (DATE)	☐ YES ☒ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO

W. H. Linn — FIELD PROJECT ENGINEER — 6-27-79 — DATE

18. RECOMMENDED DISPOSITION: ☐ N/A ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS

19. TECHNICAL JUSTIFICATION/OR RECOMMENDED DISPOSITION INSTRUCTIONS

Bechtel to supply documentation
Q.C. to review

W. H. Linn — FIELD PROJECT ENGINEER — 7-6-79 — DATE

20. ACTUAL DISPOSITION: ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS

21. DISPOSITION INSTRUCTIONS

Bechtel to supply documentation
QC to review
See SPR 79

W. H. Linn — FIELD PROJECT ENGINEER — 7-27-79 — DATE

22. APPROVALS

B&W FQC R W Shope 7-27-79 (SIGNATURE / DATE) OTHER _____ (SIGNATURE / DATE)

OWNER/AGENT R.W. Whitaker (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

POOR ORIGINAL

838 268

_____ FIELD PROJECT MANAGER — _____ DATE

27. NONCONFORMITY CLOSED

_____ FIELD QUALITY CONTROL SUPV. — _____ DATE

SEQUENTIAL NUMBER № 1624

SITE PROBLEM REPORT

BABCOCK & WILCOX

PROBLEM IDENTIFICATION

CUSTOMER	ORIGINATOR	DATE	DESIG.	CONT. NO.	SPR NO.	REV. NO.
Consumers Power Company	H.A.Guetling	7-6-79	15	620-0012	X79	0

VENDOR	P.A. NO.	PART NO./TASK NO.	GROUP NO.	SEQ. NO.
Byron-Jackson	620-0012-42	42	01	001

TITLE (MAX 30 CHARACTERS)	PROBLEM CONTACT
Material Certs for Tab Washers	H. A. Guetling

DESCRIPTION OF PROBLEM:

B&W CC has not received material certification on the Tab Washers (70 pcs.) for the RC pumps (8 pcs. each).

STATUS-ACTION TO DATE, INCLUDING PERSONS CONTACTED:

D. L. Rice - Lynchburg

FURTHER ACTION RECOMMENDED BY SITE PERSONNEL:

Bechtel to supply documentation. B&W Q.C. to review.

RESOLUTION

RESOLUTION:

Copy of Material Certs (attached) recd from B-J.

PREPARED BY	DATE	APPROVED BY	DATE
John T. Ford	7-20-79	R. Y. Reed	7/20/79
REVIEWED BY	DATE		
W. Gillaman for GAOLDS	7/20/79		

COST CATEGORY	FIELD CHANGE REQ	F.C.A. NO.	SIGNIF. DEFICIENCY
☐ NORM OTHER ☐	☐ YES NO ☒	04-	☐ YES NO ☒

COMPLETION

SITE COMPLETION REPORT:

POOR ORIGINAL

DEVIATIONS: ☐ NONE SPR REV NO. ☐

DATE COMPLETED:

COMPLETED BY DATE

838 269

SHEET OF

INDUSTRIAL NUMBER NP 1624

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	1	7-6-79	DECAY HEAT	1-CCA-18-610-1-2

6. VENDOR/MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
ITT Grinnell	☐ RECEIVING ☐ TEST ☒ CONST.	512	FCP-13

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY#
N/A	M-610, Sheet #2, Rev. 4	N/A

13. DESCRIPTION OF NONCONFORMITY

Damaged WP at Weld #9. Area is 5/8" long and 3/16" deep on land area.

14. REPORTED BY J. R. Jones	15. VERIFIED BY R. W. Shope	16. CORRECTIVE ACTION REQUIRED
R Shope for J. Jones (NAME) 7-6-79 (DATE)	R W Shope (NAME) 7-6-79 (DATE)	☐ YES ☒ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO — H. N. Linn (FIELD PROJECT ENGINEER) — 7-9-79 (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 #

25. CORRECTIVE ACTION

POOR ORIGINAL

FIELD PROJECT MANAGER — DATE 8-30-270

27. NONCONFORMITY CLOSED

FIELD QUALITY CONTROL MGR. — DATE

SEQUENTIAL NUMBER № 1625

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

PAGE 1 OF 1

REPORT OF NONCONFORMITY

1. B NUMBER	2. UNIT NUMBER	3. DATE	4. ITEM NAME	5. ITEM NUMBER
CL 238	2	July 12, 1979	SEQ. 200	

6. VENDOR MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
Byron-Jackson	☐ RECEIVING ☐ TEST ☒ CONST.	546	FCP-96

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY #
IF 7623 RK	1F 7623 RK	

13. DESCRIPTION OF NONCONFORMITY

Cavity on sealing surface of flange-to-heat exchanger assembly. 5/16" long 1/8" wide and .025" deep. Scratch across seal surface and two small gouges outside of seal surface. (see attached sketch).

14. REPORTED BY	15. VERIFIED BY	16. CORRECTIVE ACTION REQUIRED
R Hough for Bill Williams — NAME; 7-12-79 — DATE	R W Hough — NAME; 7-12-79 — DATE	☐ YES ☒ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO — H. P. Lowe — FIELD PROJECT ENGINEER — 7-12-79 — 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. P. Lowe — FIELD PROJECT ENGINEER — 7-13-79 — 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

POOR ORIGINAL

838 271

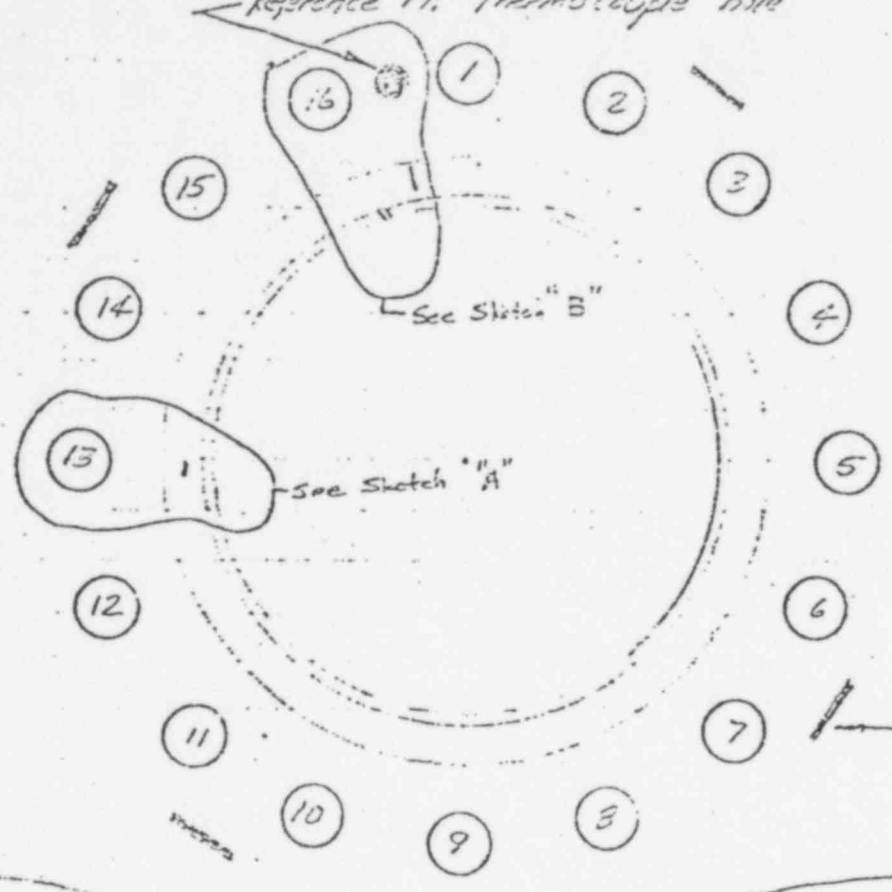
FIELD PROJECT MANAGER — DATE

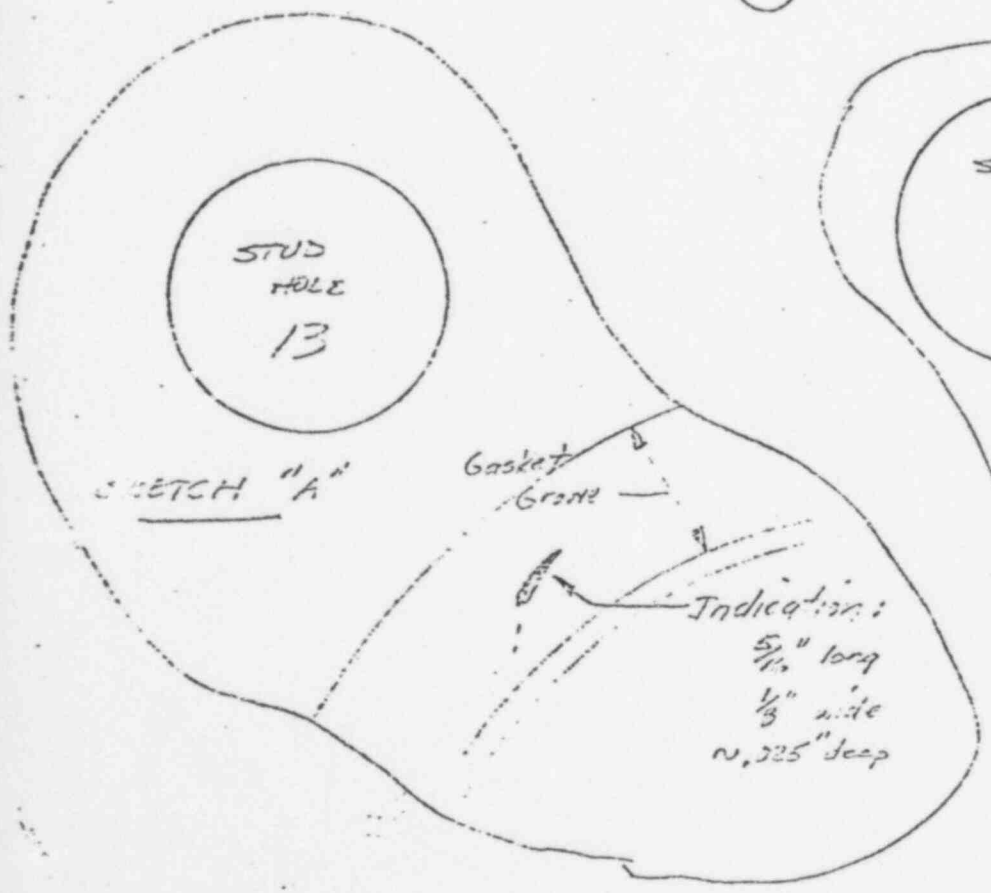
27. NONCONFORMITY CLOSED

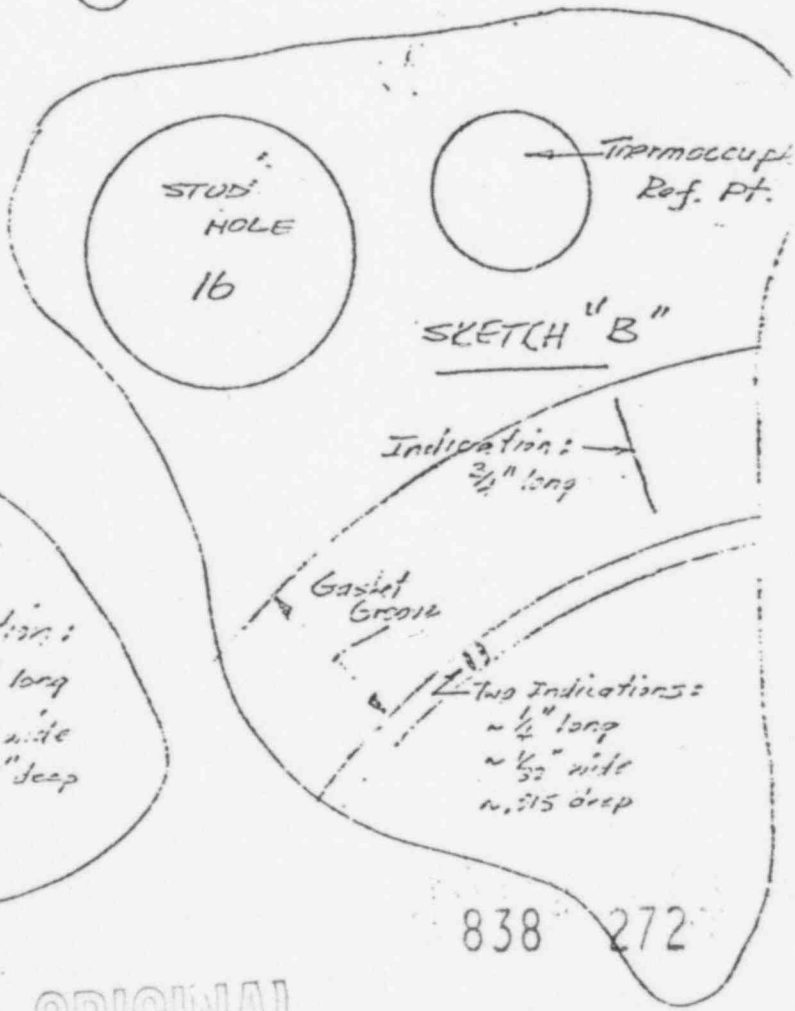
FIELD QUALITY CONTROL SUPV. — DATE

SEQUENTIAL NUMBER № 1626

TOP FACE OF DRIVER MOUNT BOTTOM FLANGE
RCP 2P51C







838 272

Ref. NCR: 1626
FCP-76 Unit #2
-Sequence 210

POOR ORIGINAL

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	2	July 12, 1979	WELD #8	2CCA-195-604-3-2B 2CCA-195-604-3-3

6. VENDOR/MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
Southwest FAB	☐ RECEIVING ☐ TEST ☒ CONST.	508	FCP-19

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY#
N/A	M-604 Sht.3, Rev. 2/F4	1606

13. DESCRIPTION OF NONCONFORMITY

Make up and purification system field weld #8 was welded flush with O.D. of pipe surface then ground smooth. The cover pass was placed approx. 3/4" off center line of weld which made the radiograph appear to have two welds one adjacent to the other. The portion of weld placed in the correct location is unacceptable by R.T.

14. REPORTED BY		15. VERIFIED BY		16. CORRECTIVE ACTION REQUIRED
R. Murphy	7-12-79	R W Hoge	7-12-79	☒ YES ☐ NO
NAME	DATE	NAME	DATE	

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO

H. L. Lair — FIELD PROJECT ENGINEER — DATE 7-12-79

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

POOR ORIGINAL

FIELD PROJECT MANAGER — DATE 838 273

27. NONCONFORMITY CLOSED

FIELD QUALITY CONTROL SUPV. — DATE

SEQUENTIAL NUMBER № 1627

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

PAGE 1 OF 1 3 WGC 7-27

REPORT OF NONCONFORMITY

1. JOB NUMBER	2. UNIT NUMBER	3. DATE	4. ITEM NAME	5. ITEM NUMBER
CL 238	Unit #2	7-13-79	Assy Heat Exchange	MK #2

6. VENDOR MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
Byron-Jackson	☒ RECEIVING ☐ TEST ☒ CONST.	549	FCP-96

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY #
9-QPP-108	IF-7623 Rev. K	N/A

13. DESCRIPTION OF NONCONFORMITY

Preparing for installation of heat exchange assembly, an incomplete machining area was found 2 5/16" below the top of the outor stationary baffle for 270° of the circumference. See Attached Sketch.

14. REPORTED BY	15. VERIFIED BY	16. CORRECTIVE ACTION REQUIRED
R. D. Brown R.D. Brown — NAME 7-13-79 — DATE	R. D. Murphy R.D. Murphy — NAME 7-13-79 — DATE	☐ YES ☒ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO — W. N. Lain — FIELD PROJECT ENGINEER — 7-13-79 — DATE

18. RECOMMENDED DISPOSITION: ☐ N/A ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS

19. TECHNICAL JUSTIFICATION/OR RECOMMENDED DISPOSITION INSTRUCTIONS

Vendor to supply disposition

W. N. Lain — FIELD PROJECT ENGINEER — 7-23-79 — DATE

20. ACTUAL DISPOSITION: ☐ REWORK ☐ REPAIR ☐ REPLACE ☒ RETURN ☐ ACCEPT AS IS

21. DISPOSITION INSTRUCTIONS

See Attachment A & SPR 85

W. N. Lain — FIELD PROJECT ENGINEER — 7-27-79 — DATE

22. APPROVALS

B&W FQC: R W Lange — SIGNATURE — 7-30-79 — DATE — OTHER: _____ — SIGNATURE — DATE

OWNER/AGENT: R E Whitaker — SIGNATURE — 8/1/79 — 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

POOR ORIGINAL

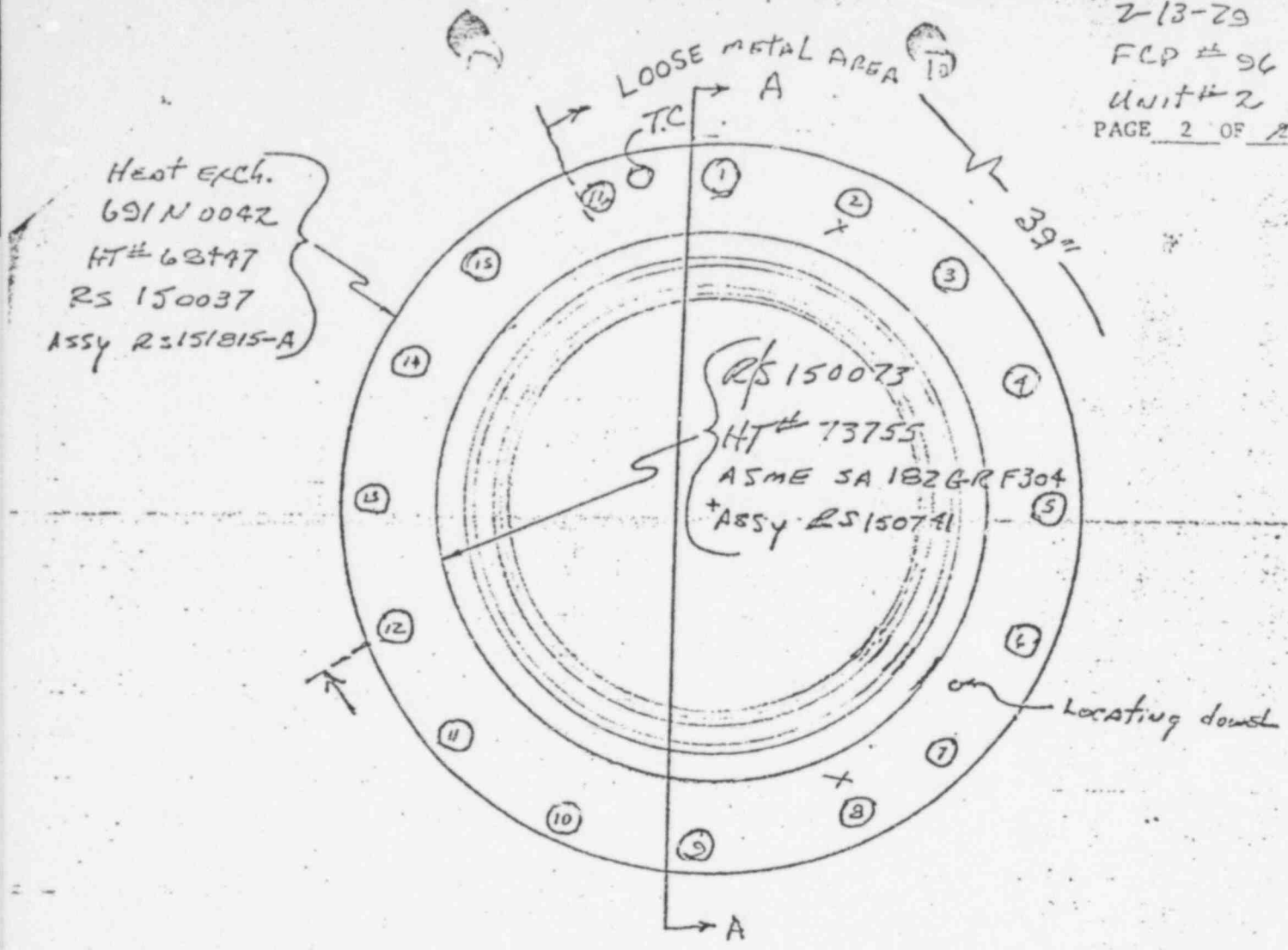
_____ FIELD PROJECT MANAGER — DATE 838 274

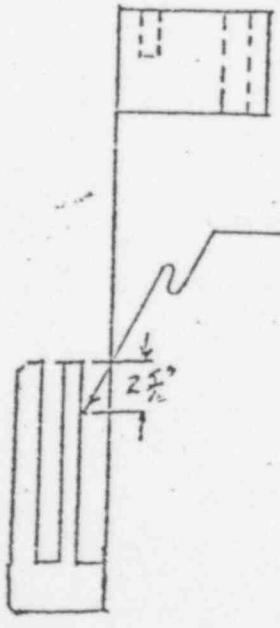
27. NONCONFORMITY CLOSED

_____ FIELD QUALITY CONTROL SUPV. — DATE

SEQUENTIAL NUMBER № 1628

2-13-79
FCP # 96
Unit # 2
PAGE 2 OF # 3 UCC 7-77





LOOSE METAL IS APPARENT ON THIS SURFACE AS WOULD BE LEFT BY INCOMPLETE MACHINING. THIS LEAVES WHAT APPEARS TO BE A METAL SHAVING.

POOR ORIGINAL

"SEC. A-A"

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

Rev 7-20-79

REPORT OF NONCONFORMITY

NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
C. 238	#2	7-27-79	#1628

ATTACHMENT A

NCR-1628 & SPR-85

1. Package and return heat exchanger (2-P51-C) #691-N0042
2. Substitute heat exchange (1-P1-C) #691-N0047
3. Heat Exhanger (2-P1C) #691-N0042 shall be receipt inspected when recurned in accordance with 9-QAP-108 on FCP-69, Unit #1 620-0013.

SITE PROBLEM REPORT

PROBLEM IDENTIFICATION

CUSTOMER	ORIGINATOR / DATE	DOC. ID. CONT. NO.	SPR NO.	REV. NO.
CONSUMERS POWER	H.A. GUETLING 7/17/79	420-0012	25	0
VENDOR	P.A. NO.	PART NO. / TASK NO.	GROUP NO.	SEQ. NO.
TYRON JACKSON	420-0012-42	42	01	001
TITLE (MAX 30 CHARACTERS)		PROBLEM CONTACT		
RC COOLANT PUMP		H.A. GUETLING		

DESCRIPTION OF PROBLEM:

INCOMPLETE MACHINING AREA 2 5/16 BELOW TOP OF THE OUTER STATIONARY BAFFLE FOR 270° OF CIRCUMFERENCE ON HEAT EXCHANGER. SEE ATTACHED SKETCH

B&W CC NCR# 1628

STATUS-ACTION TO DATE, INCLUDING PERSONS CONTACTED:

RHUDY CAMPER - LYNCHBURG

FURTHER ACTION RECOMMENDED BY SITE PERSONNEL:

RESOLUTION

RESOLUTION:

1. Because of surface indications on the "OD" of the stationary Pastic middle cylinder, Tyron Jackson recommends that the stationary part be returned to L.A. for remachining.
2. If desired, a Heat Exchanger stationary part from one of the other units HX may be substituted. Recommend either IRC-P1A2 or IRC-P1B1

PREPARED BY	DATE	APPROVED BY	DATE
[illegible]	7-20-79	R L Reed	7/20/79
REVIEWED BY	DATE		
Rhudy B. Camper	7-20-79		
W.R. Gillaspie for GM OLDS	7/20/79		

COST CATEGORY	FIELD CHANGE REQ	F.C.A. NO.	SIGNIF. DEFICIENCY
☐ NORM OTHER ☒	☐ YES NO ☒	09-	☐ YES NO ☒

COMPLETION

SITE COMPLETION REPORT:

POOR ORIGINAL

DEVIATIONS: ☐ NONE SPR REV NO. ☐

DATE COMPLETED:

COMPLETED BY DATE

838 277

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

REPORT OF NONCONFORMITY

1. JOB NUMBER	2. UNIT NUMBER	3. DATE	4. ITEM NAME	5. ITEM NUMBER
CL 230	Unit #2	7-13-79	RCP Motor Stand	691-N-0041

6. VENDOR/MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
Byron-Jackson	☐ RECEIVING ☐ TEST ☒ CONST.	513	FCP-97

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY#
~~9-QPP-108~~ ~~Rev 7-16-79~~ N/A	IF 7623 Rev. K	N/A

13. DESCRIPTION OF NONCONFORMITY

Discovered a ½ inch diameter indentation and several scribe marks within the gasket groove seating surface area on the top face of driver mount bottom flange. See Attached sketch for details.

14. REPORTED BY	15. VERIFIED BY	16. CORRECTIVE ACTION REQUIRED
R. D. Brown R.D. Brown — NAME 7-13-79 — DATE	RW Ahlgren — NAME 7-16-79 — DATE	☐ YES ☒ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ~~☒~~ NO

R. A. Lurie — FIELD PROJECT ENGINEER — 7-16-79 — DATE

18. RECOMMENDED DISPOSITION: ☐ N/A ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS

19. TECHNICAL JUSTIFICATION OR RECOMMENDED DISPOSITION INSTRUCTIONS

Vendor to supply disposition.

[illegible] — FIELD PROJECT ENGINEER — 7-[illegible]-79 — DATE

20. ACTUAL DISPOSITION: ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS

21. DISPOSITION INSTRUCTIONS

1640

FIELD PROJECT ENGINEER — DATE

22. APPROVALS				23. ANI REVIEW	
B&W FQC	SIGNATURE / DATE	OTHER	SIGNATURE / DATE	SIGNATURE	DATE
OWNER/AGENT	SIGNATURE / DATE	OTHER	SIGNATURE / DATE		

24. DISPOSITION COMPLETED		25. DISPOSITION VERIFICATION		☐ ACCEPTABLE ☐ UNACCEPTABLE
NAME	DATE	NAME	DATE	REPORT OF NONCONFORMITY #

25. CORRECTIVE ACTION

POOR ORIGINAL

838 278

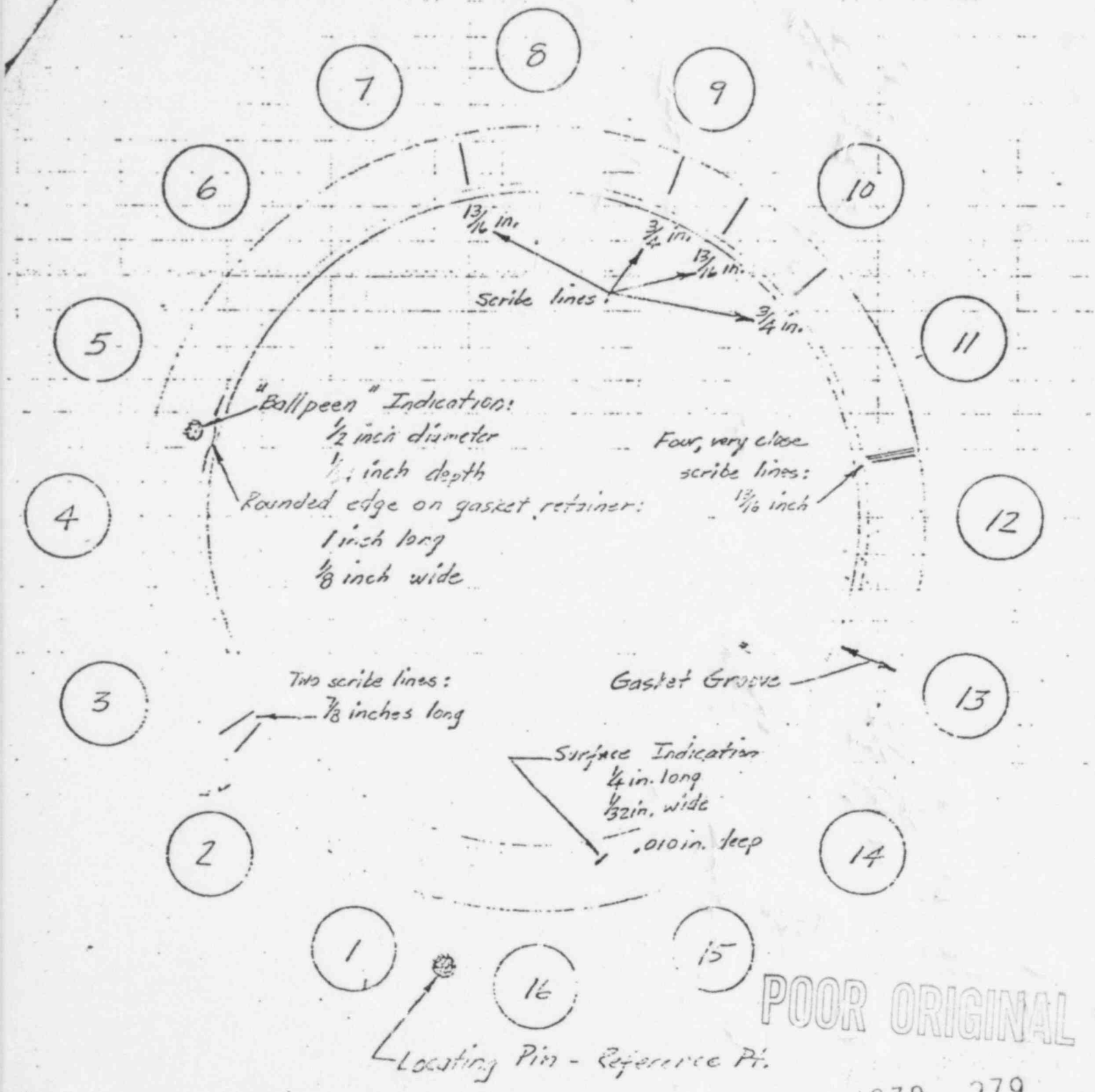
FIELD PROJECT MANAGER — DATE

27. NONCONFORMITY CLOSED

FIELD QUALITY CONTROL SUPV. — DATE

SEQUENTIAL NUMBER № 1629

KCP 2P51 D



POOR ORIGINAL

NOTE: All scribe lines have depth of rust to the touch except for the line located at stud # 10. All above indications are located within the seating surface area of the driver mount gasket groove.

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

REPORT OF NONCONFORMITY

1. JOS NUMBER	2. UNIT NUMBER	3. DATE	4. ITEM NAME	5. ITEM NUMBER
L 238	2	7-17-79	RC Pump Casing	2P51C

6. VENDOR MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
Byron Jackson	☐ RECEIVING ☐ TEST ☒ CONST.	514	N/A

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY #
N/A	N/A	N/A

13. DESCRIPTION OF NONCONFORMITY
The third stud hole C.C.W. from the keyway nearest the south direction has missing threads due to an out of round hole. Approximately 180° is affected due to the tapering of threads into the area of non-existant thread. (See attached sketch).

14. REPORTED BY	15. VERIFIED BY	16. CORRECTIVE ACTION REQUIRED
R Hope for A. C. Ashworth 7-17-79 (NAME / DATE)	R W Hope 7-17-79 (NAME / DATE)	☐ YES ☒ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)
☐ YES ☒ NO — H. L. Lion, FIELD PROJECT ENGINEER — 7-17-79 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 #

25. CORRECTIVE ACTION

POOR ORIGINAL

838 280

FIELD PROJECT MANAGER — DATE

27. NONCONFORMITY CLOSED

FIELD QUALITY CONTROL SUPV. — DATE

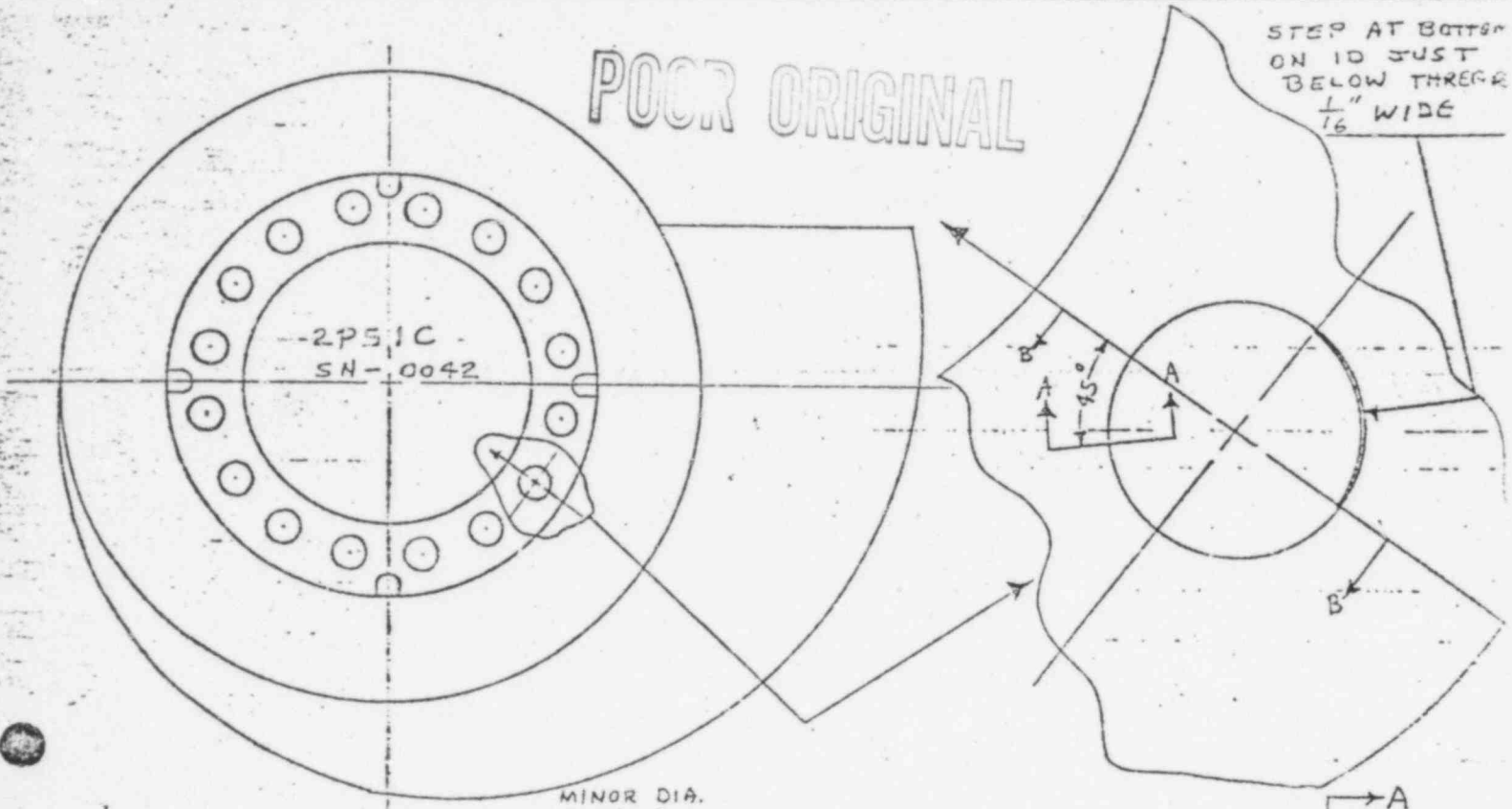
SEQUENTIAL NUMBER № 1630

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

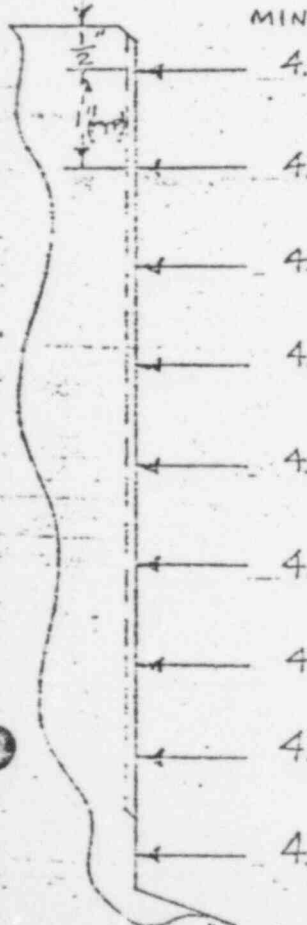
REPORT OF NONCONFORMITY

B NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
238	2	7-17-79	1630

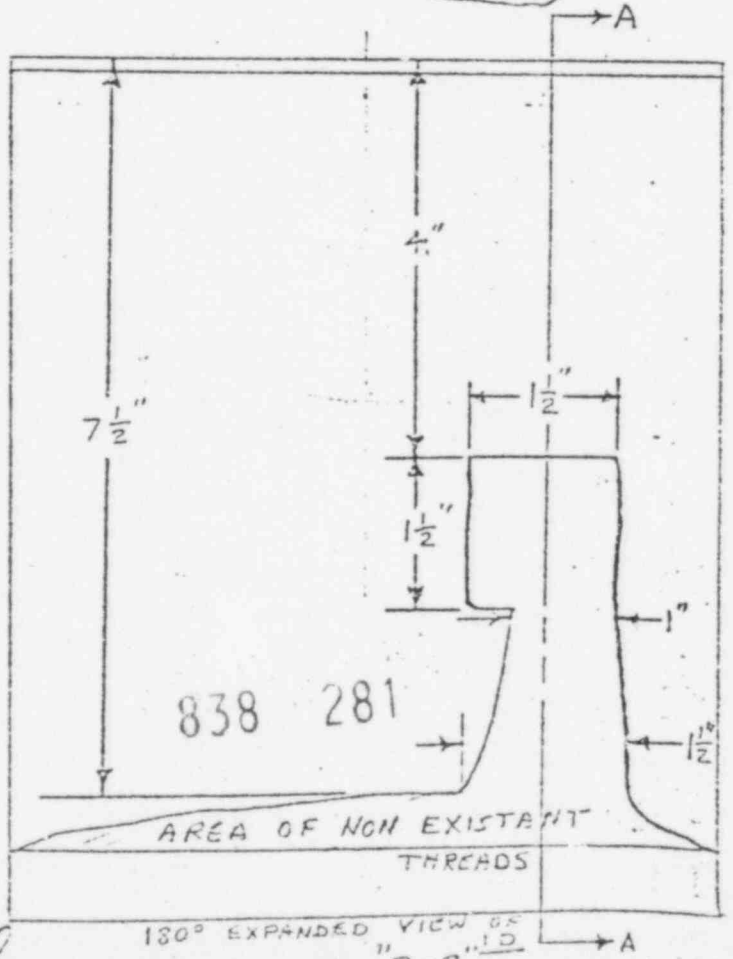
POOR ORIGINAL



	MINOR DIA.	MINOR DIA. @ 90°
	4.638"	4.610"
	4.630"	4.611"
	4.638"	4.615"
	4.655"	4.613"
	4.672"	4.625"
	4.685"	4.616"
	4.689"	4.620"
	4.702"	4.640"
	4.701"	4.642"



SECTION "A-A"



SECTION "B-B"

A.C. Anderson Ltd.

838 281

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	2	7-17-79	Reactor Coolant Pipe	WJS-1

6. VENDOR/MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
B&W Mt. Vernon	☐ RECEIVING ☐ TEST ☒ CONST.		FCP-92

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY #
9-HT-102, Rev. 6	150177E, Rev. 8	N/A

13. DESCRIPTION OF NONCONFORMITY

1. Spec. requirement of 100° Δt between 1, 2, 3, 4, 30, & 32 violation of 100° Δt for 8 hours with a maximum Δt of 125° temp. 955° - 830° violation during hold and cool down.

2. Spec. requirement of 150° Δt maximum below 600° for TC 1, 3, 5, 6, 7, 8. 9, 10, 11, 12. Violation of 155° for 30 minutes during heat up, temp. 170° - 325°.

14. REPORTED BY	15. VERIFIED BY	16. CORRECTIVE ACTION REQUIRED
W. A. Willman (NAME) 7-17-79 (DATE)	R. W. Thorne (NAME) 7-17-79 (DATE)	☒ YES ☐ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55(e)

☐ YES ☒ NO — R. A. Lear (FIELD PROJECT ENGINEER) — 7-17-79 (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 #

25. CORRECTIVE ACTION

POOR ORIGINAL

838 282

FIELD PROJECT MANAGER — DATE

27. NONCONFORMITY CLOSED

FIELD QUALITY CONTROL SUPV. — DATE

SEQUENTIAL NUMBER No. 1633

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	2	7-17-79	Reactor Coolant Pipe	WJ5-2

6. VENDOR/MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
B&W Mt. Vernon	☐ RECEIVING ☐ TEST ☒ CONST.		FCP-99

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY
9-HT-102, Rev. 6	150177E, Rev. 8	N/A

13. DESCRIPTION OF NONCONFORMITY
Specification requirement of 100° maximum Δt between TC 1, 2, 3, 4, 30, & 32. Violation of 100° Δt for 5 hours 15 minutes with a maximum Δt of 115° temp. 940° - 825°. Violation during hold and cool down.

14. REPORTED BY	15. VERIFIED BY	16. CORRECTIVE ACTION REQUIRED
W. A. Willman (NAME) 7-17-79 (DATE)	R W Hupe (NAME) 7-17-79 (DATE)	☒ YES ☐ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)
☐ YES ☒ NO — FIELD PROJECT ENGINEER — DATE 7-17-79

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

POOR ORIGINAL

838 283

FIELD PROJECT MANAGER — DATE

27. NONCONFORMITY CLOSED
FIELD QUALITY CONTROL SUPV. — DATE

SEQUENTIAL NUMBER № 1634

0 12-1

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	2	7-23-79	RC pump motors	2P51A, B, C, & D

6. VENDOR/MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
General Electric	☐ RECEIVING ☐ TEST ☒ CONST.	518, 519, 520, & 521	FCP-58

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY#
N/A	N/A	N/A

13. DESCRIPTION OF NONCONFORMITY

The oil being placed in RC pump motors upper bearing assembly, 2P51A, B. C, & D is Mobil Oil DTE Heavy medium, and lower bearings is Mobil DTE Light.

Mobilrama 522 or 523 is the correct oil for these motors in storage.

14. REPORTED BY R. D. Brown	15. VERIFIED BY R. W. Shope	16. CORRECTIVE ACTION REQUIRED
R. D. Brown (NAME) 7-23-79 (DATE)	R. W. Shope (NAME) 7-23-79 (DATE)	☐ YES ☒ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO — FIELD PROJECT ENGINEER — DATE 7-23-79

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

FIELD PROJECT MANAGER — DATE 838 284

27. NONCONFORMITY CLOSED

FIELD QUALITY CONTROL SUPV. — DATE

SEQUENTIAL NUMBER № 1635

6

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	1	7-24-79	STEAM GENERATOR	1E51B

6. VENDOR/MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
Babcock & Wilcox	☐ RECEIVING ☐ TEST ☒ CONST.	#527	FCP-11

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY#
FS III-2	C-376 Rev. 9	N/A

13. DESCRIPTION OF NONCONFORMITY

Required contact between the base and soleplate is 95%. The actual contact is 82.048%.

14. REPORTED BY R. D. Brown	15. VERIFIED BY R. W. Shope	16. CORRECTIVE ACTION REQUIRED
R. D. Brown 7-24-79 (NAME / DATE)	R W Shope 7-24-79 (NAME / DATE)	☐ YES ☒ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO

H. M. Lowe — FIELD PROJECT ENGINEER — 7-29-79 — 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 #

25. CORRECTIVE ACTION

838 285

FIELD PROJECT MANAGER — DATE

27. NONCONFORMITY CLOSED

FIELD QUALITY CONTROL SUPV. — DATE

SEQUENTIAL NUMBER № 1636

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	#2	7-24-79	REACTOR COOLANT PIPE	WJ 5-3

6. VENDOR/MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
B&W Mt. Vernon	☐ RECEIVING ☐ TEST ☒ CONST.	528	F [illegible] 00

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY #
9-HT-102, Rev. 6	150177E, Rev. 8	N/A

13. DESCRIPTION OF NONCONFORMITY

Violation of PWHT temperature 1150°F max. Act temperature on T.C. #16 1160°F max. for 3½ hours and T.C. #14 1155° max. for 3 hours.

14. REPORTED BY W. A. Willman	15. VERIFIED BY	16. CORRECTIVE ACTION REQUIRED
W A Willman 7-24-79	R W Hope 7-24-79	☒ YES ☐ NO
NAME DATE	NAME DATE	

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO

H H Linn 7-24-79
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

838 286

FIELD PROJECT MANAGER DATE

27. NONCONFORMITY CLOSED

FIELD QUALITY CONTROL SUPV. DATE

SEQUENTIAL NUMBER № 1637

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	#2	7-24-79	REACTOR COOLANT PIPE	WJ 5-4

6. VENDOR/MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
B&W Mt. Vernon	☐ RECEIVING ☐ TEST ☒ CONST.	529	FCP-101

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY #
9-HT-102, Rev. 6	150177E, Rev. 8	N/A

13. DESCRIPTION OF NONCONFORMITY

Violation of heating rate from 600°F to PWHT temperature 100°F/hour max. Act 115°F/hour from 840°F to 955°F for one (1) hour.

14. REPORTED BY W. A. Willman	15. VERIFIED BY	16. CORRECTIVE ACTION REQUIRED
W A Willman (NAME) 7-24-79 (DATE)	R W Hope (NAME) 7-24-79 (DATE)	☒ YES ☐ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO — H. A. Levin (FIELD PROJECT ENGINEER) — 7-24-79 (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 #

25. CORRECTIVE ACTION

838 287

_____ FIELD PROJECT MANAGER _____ DATE

27. NONCONFORMITY CLOSED

_____ FIELD QUALITY CONTROL SUPV. _____ DATE

SEQUENTIAL NUMBER 10 1638

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	#2	7-26-79	SEQUENCE 200	

6. VENDOR/MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
Byron-Jackson	☐ RECEIVING ☐ TEST ☒ CONST.	546	FCP-96

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY #
IF 7623 RK	1F 7623 RK	1626

13. DESCRIPTION OF NONCONFORMITY

THIS NCR VOIDS NCR 1626 (Revised cavity depth)

Cavity on sealing surface of flange-to-heat exchanger assembly 5/16" long, 1/8" wide, and .009" deep. Scratch across seal surface and two small gouges outside of seal surface. See Attached Sketch.

14. REPORTED BY W. A. Willman	15. VERIFIED BY	16. CORRECTIVE ACTION REQUIRED
W. A. Willman NAME 7-26-79 DATE	R W Thye NAME 7-26-79 DATE	☐ YES ☒ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO

W. A. Linn — FIELD PROJECT ENGINEER — 7-26-79 DATE

18. RECOMMENDED DISPOSITION: ☐ N/A ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS

19. TECHNICAL JUSTIFICATION/OR RECOMMENDED DISPOSITION INSTRUCTIONS

Vendor to supply disposition

W. A. Linn — FIELD PROJECT ENGINEER — 7-26-79 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

838 288

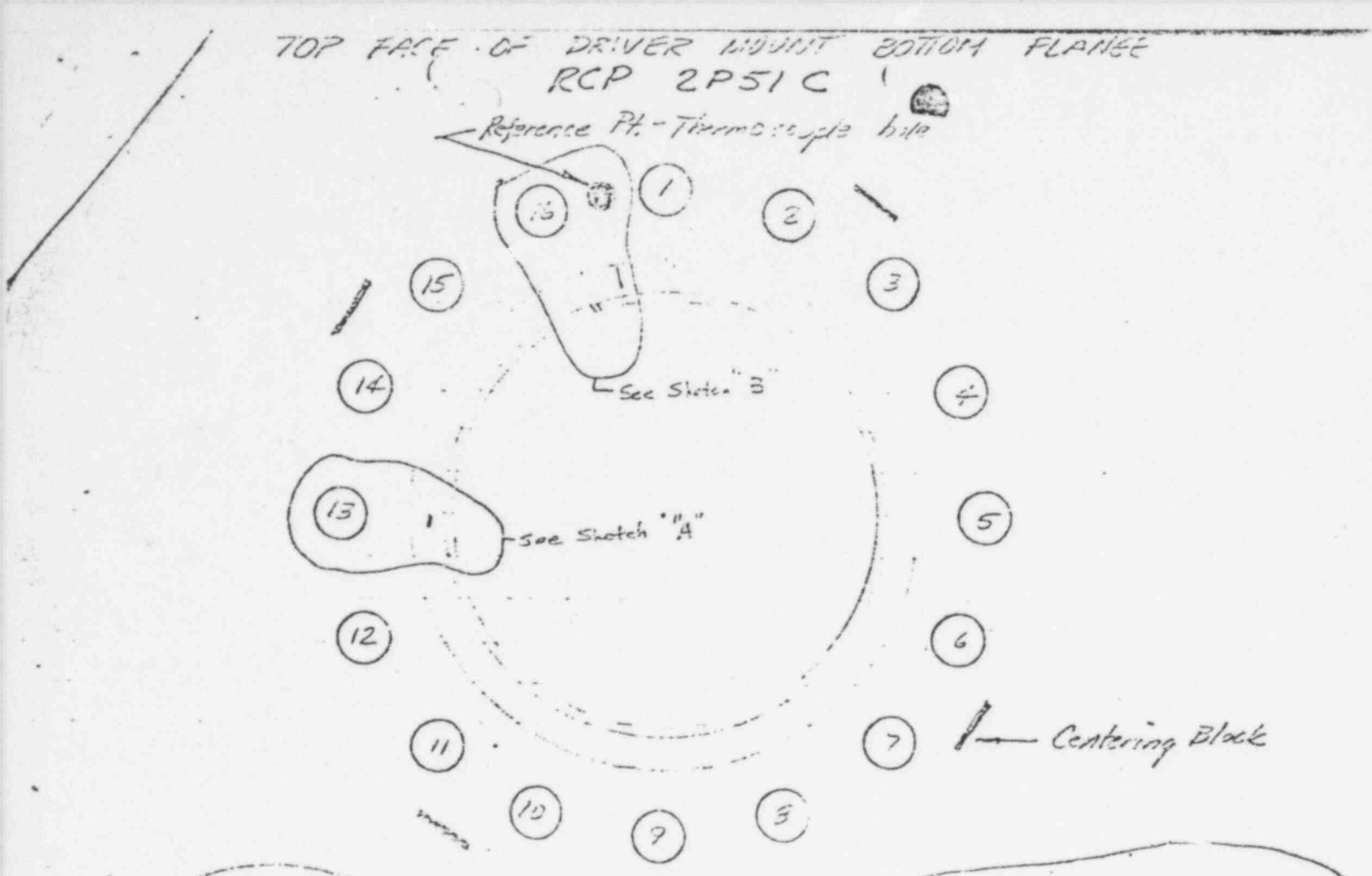
FIELD PROJECT MANAGER — DATE

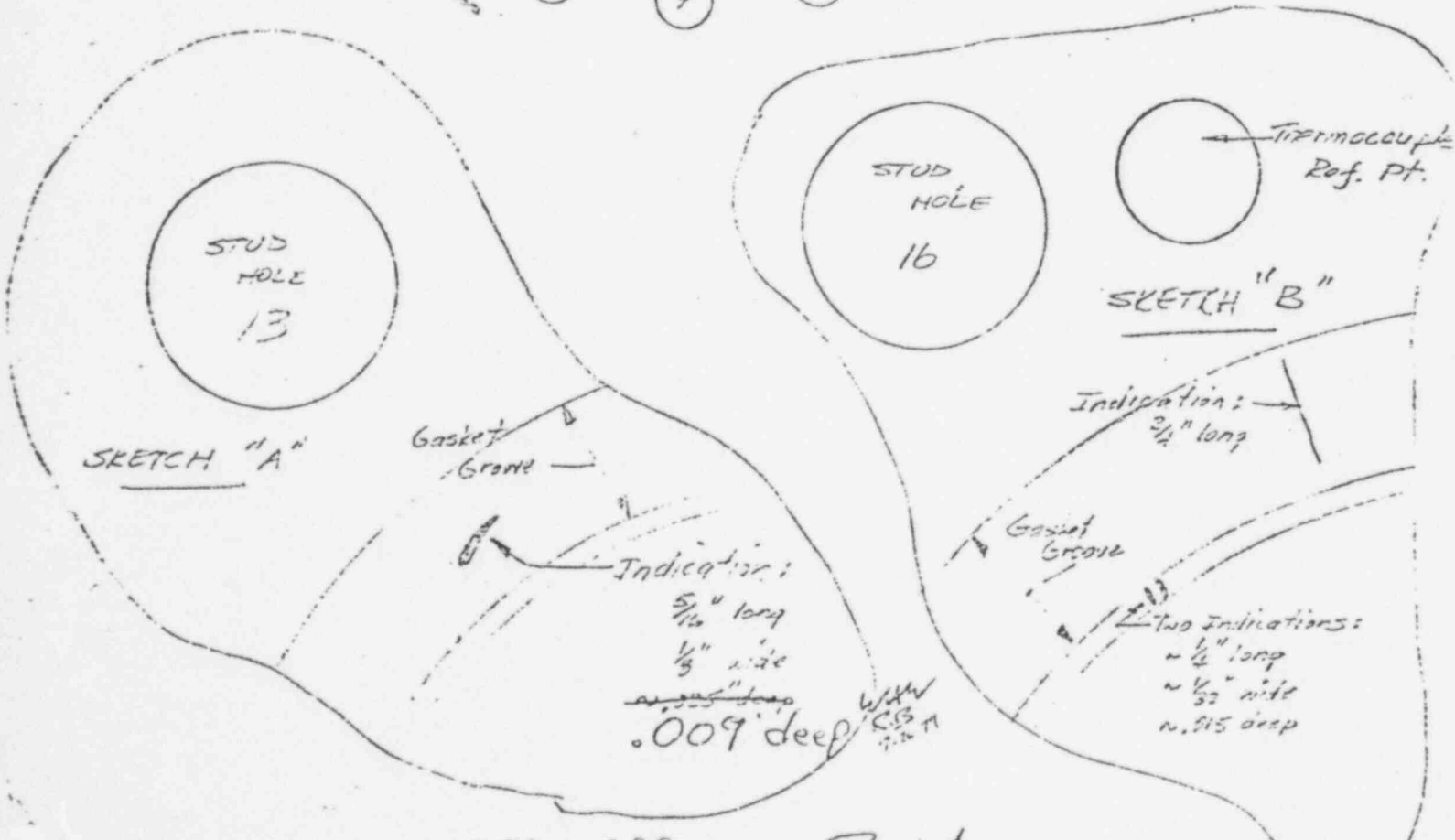
27. NONCONFORMITY CLOSED

FIELD QUALITY CONTROL SUPV. — DATE

SEQUENTIAL NUMBER № 1139

TOP FACE OF DRIVER MOUNT BOTTOM FLANGE
RCP 2P51C





838 289

POOR ORIGINAL

Ref. NCR: 1626
FCP-76 Unit #2
-Sequence 210

REV 1
Changed Cavity depth
Ray Brown 7/25/79
W. A. Williams

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	#2	7-26-79	REP. MOTOR STAND	691-W-0041

6. VENDOR/MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
Byron-Jackson	☐ RECEIVING ☐ TEST ☒ CONST.	513	FCP-97

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY #
	1F-7623 Rev. K	NCR-1629

13. DESCRIPTION OF NONCONFORMITY

THIS NCR VOIDS NCR-1629 (Revised cavity depths)

Discovered a 1/2" diameter indentation and several scribe marks within the gasket groove seating surface area on the top face of driver mount bottom flange. See attached Sketch.

14. REPORTED BY R.D. Brown	15. VERIFIED BY	16. CORRECTIVE ACTION REQUIRED
R.D. Brown (NAME) 7-26-79 (DATE)	R W Hugo (NAME) 7-26-79 (DATE)	☐ YES ☒ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO — W. K. Linn (FIELD PROJECT ENGINEER) — 7-26-79 (DATE)

18. RECOMMENDED DISPOSITION: ☐ N/A ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS

19. TECHNICAL JUSTIFICATION OR RECOMMENDED DISPOSITION INSTRUCTIONS

Vendor to supply disposition

W. K. Linn (FIELD PROJECT ENGINEER) — 7-26-79 (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	25. DISPOSITION VERIFICATION	☐ ACCEPTABLE ☐ UNACCEPTABLE
NAME _____ DATE _____	NAME _____ DATE _____	REPORT OF NONCONFORMITY #

25. CORRECTIVE ACTION

838 290

_____ (FIELD PROJECT MANAGER) _____ (DATE)

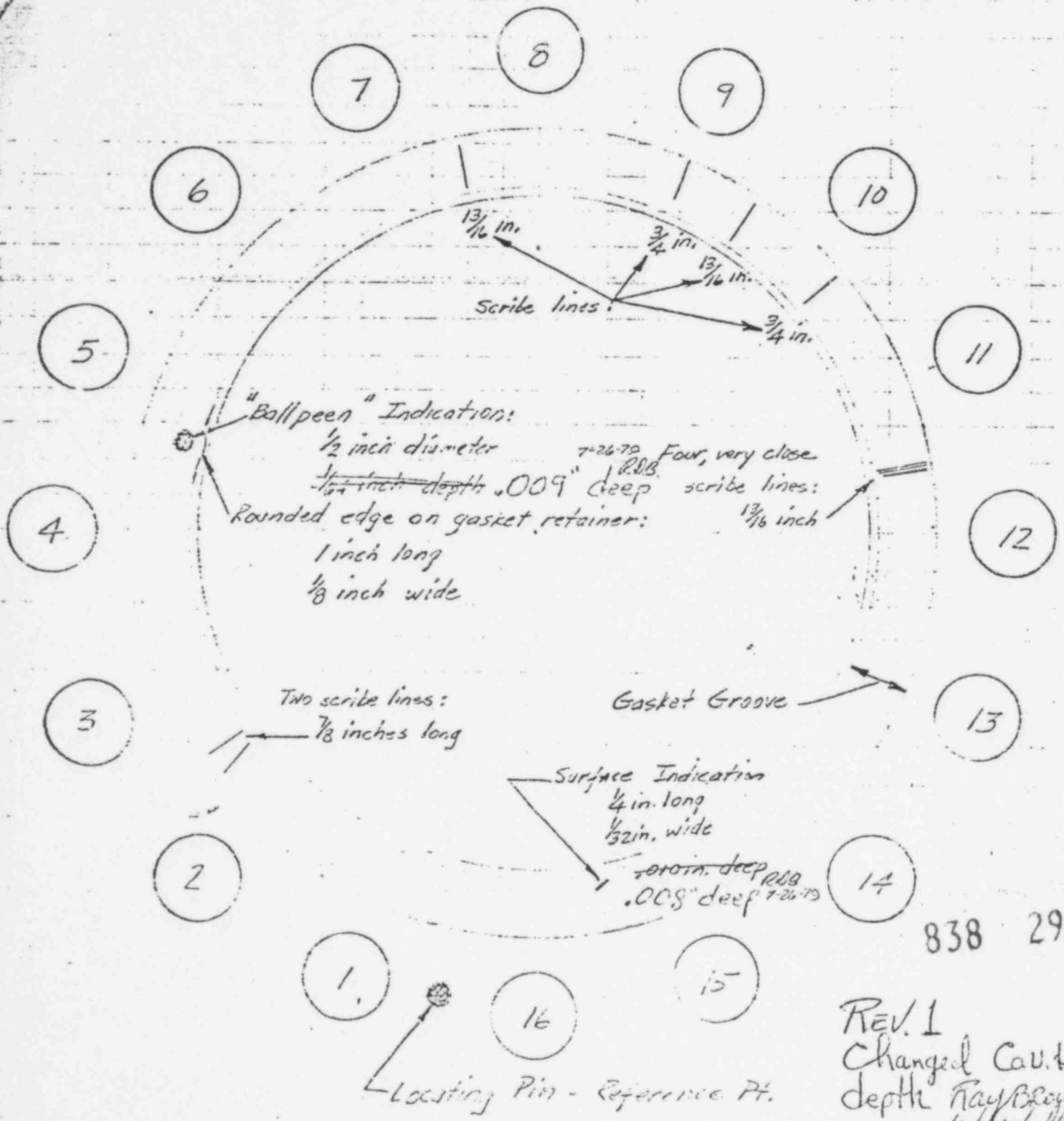
27. NONCONFORMITY CLOSED

_____ (FIELD QUALITY CONTROL SUPV.) _____ (DATE)

SEQUENTIAL NUMBER № 1640

TOP FACE OF DRIVER MOUNT BOTTOM FLANGE

RCP 2P51 D



838 291

REV. 1
Changed Cavity depth Ray Bryant
W. A. Wallman
7/25/7

NOTE: All scribe lines have depth apparent to the touch except for the line located at stud hole #10. All other indications are located within the seating surface area of the driver mount gasket groove.

POOR ORIGINAL

91812

REPORT OF NONCONFORMITY

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

TO BE COMPLETED BY FIELD QC

SYSTEM OR PART NAME	JOB NO.	DATE
1 Reactor Coolant System Unit #2	2 CL-238	3 1-12-79

DRAWING VIOLATED & REV.	VENDOR NAME	REJECT TAG NOS.
4 N/A	5 B&W	6 102

PROC/SPEC. VIOLATED	P.O. NO.	PART NO.	SYSTEM DESIGNATION
7 FCP #28 Seq. 200	8 M1.9	9 B-67	(Cold Leg) 10 Primary Piping

CORRECTIVE ACTION REQUIRED
11 ☒ YES ☐ NO

REPORTED BY
12 J. R. Jones / JR Jones by R Stone

CONDITION DETAILS

Two gouges in base stainless steel metal about 5 1/2" below weld prep.
Damaged areas resulted from restraint installation effort.

(See attached sketch)

13

CONDITION DETAILS VERIFIED BY
14 B&W QC SUPV. R W Hope DATE 1-12-79

DISPOSITION REQUESTED FROM
☒ B&W CONSTRUCTION ☐
15 BY R W Hope DATE 1-12-79

TO BE COMPLETED BY F.P. ENGINEERING

REPORTABILITY PER 10 CFR 50.55 (E)
16 ☐ REPORTABLE ☒ NON-REPORTABLE BY D. E. Limerick DATE 1-12-79

DISPOSITION INSTRUCTIONS

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

Blend at a minimum 3:1 ratio to remove defect. OK Ed Ballenger
Clear Cavity per 9-PT-103. PT ACCEPT REPORT # 2947 7-2-79 J. R. Jones
Above in accordance with vendors spec. 08-1037000012-03. OK J. R. Jones
Inspect for minimum wall, per 9-UT-102. UT ACCEPT REPORT # 1591 7-2-79

17

DISPOSITION APPROVED BY
18
B&W QC SUPV. R W Hope DATE 2-7-79
B&W FPE C. E. Limerick DATE 2-1-79
OTHER letter 61 FSH 79 DATE
OTHER: DATE

DISPOSITION DETAILS BY
19 B&WCC

ACTION COMPLETED
20 BY James R. Jones DATE 7-2-79

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 James R. Jones DATE 7-2-79
REPORT OF NONCONFORMITY

NONCONFORMITY CLOSED
22 B&W QC SUPV. R W Hope DATE 7-2-79

TO BE COMPLETED BY F.P. MANAGER

CORRECTIVE ACTION DESCRIPTION

Advised superintendants in charge of rigging and fit-up activities that greater care must be exercised to protect material.

838 292

V. N. Ayyanka
FIELD PROJECT MANAGER

23

ANI

ANI ACCEPTANCE C. W. Amoye DATE 2-22-79
24

SEQUENTIAL NUMBER № 470

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

BWCC 31810-1

ULTRASONIC INSPECTION REPORT

JOB NUMBER CL-238 DATE 7-2-79

WELD NUMBER N/A SYSTEM NUMBER REACTOR COOLANT

WELD REPAIR NUMBER N/A

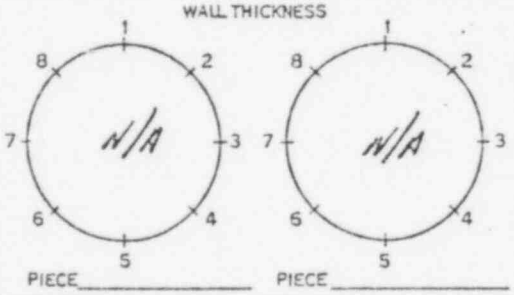
UT PROCEDURE NUMBER 9-UT-102 NCR #470

INSPECTION LEVEL	MATERIAL TYPE & SURFACE CONDITION	APPLICABLE CODE
WELD: ☐ FINAL ☐ REPAIR ☐ THICKNESS ☐ OTHER _____	☐ MATERIAL TYPE _____	☐ ASME I
BASE METAL: ☐ FLAW DETECTION ☒ THICKNESS ☐ OTHER _____	☐ AS WELDED	☐ ASME III
CLAD ☐ BOND ☐ OTHER _____	☒ GROUND	☐ ASME VIII
	☐ MACHINED	☐ B 31.1
		☒ OTHER N/A

INSTRUMENT	TRANSDUCER
MAKE KRAUTKRAMER	TYPE AEROTECH GAMMA
MODEL USM2	SIZE ½" SN-K15766
SERIAL NO. 808266	FREQ. 2.25 MHz
CALIBRATION DATE DUE 9-6-79	BEAM ANGLE 0°
CALIBRATION BLOCK SN. NO. 781523	COUPLANT EXXSEN #30 BATCH NO. 10107830

IDENTIFICATION & OR PART NO.	AREA	ACCEPT	REJECT	LENGTH	DEPTH	BACK REFLECTION	MAX. SIG.
		X					

WALL THICKNESS



WALL THICKNESS DIMENSIONS

NO.	INCHES	NO.	INCHES
1		1	
2		2	
3		3	
4		4	
5		5	
6		6	
7		7	
8		8	

REMARKS

LOWEST READING
2.72"

SKETCH

838 293

OPERATOR James R. Jones

CERTIFIED LEVEL II

ASSISTANT N/A

CERTIFIED LEVEL _____

N/A = NOT APPLICABLE

SEQUENTIAL NUMBER № 1591

BWCC 31809-1

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

MAGNETIC PARTICLE & LIQUID PENETRANT INSPECTION REPORT

MAGNETIC PARTICLE REPORT

JOB NUMBER _____ WELD NUMBER _____ DATE _____

SYSTEM NUMBER _____ M.T. 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	☐ AS WELDED ☐ GROUND ☐ MACHINED	☐ ASME I ☐ ASME III ☐ ASME VIII ☐ B31.1 ☐ OTHER _____

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

☐ ACCEPT ☐ REJECT

COMMENTS:

INSPECTOR _____

CERTIFIED LEVEL _____

LIQUID PENETRANT REPORT

JOB NUMBER CL-238 WELD NUMBER N/A DATE 7-2-79

SYSTEM NUMBER REACTOR COOLANT L.P. PROCEDURE NUMBER 9-PT-103

WELD REPAIR NUMBER N/A SEQ. NUMBER N/A F.C.P. NUMBER NCR #470

INSPECTION LEVEL	MATERIAL INSPECTED	SURFACE CONDITION	APPLICABLE CODE
☐ ROOT ☐ FINAL ☐ PARTIAL ☒ REPAIR	☐ WELD ☒ BASE METAL TYPE 55	☐ AS WELDED ☒ GROUND ☐ MACHINED	☐ ASME I ☒ ASME III ☐ ASME VIII ☐ B31.1 ☐ OTHER _____

PRE EXAM. CLEANING	PENTRANT APPLICATION	PRE DEVELOP CLEAN	DEVELOPER APPLICATION	POST EXAM. CLEANING
☐ SPRAY ☒ WIPE BATCH NO. 7BG023 DRY TIME 5 MIN	☒ SPRAY ☐ BRUSH BATCH NO. 4K029 DWELL TIME 10 MIN	☒ CLOTH WIPE ☐ TOWEL WIPE ☒ SOLVENT WIPE BATCH NO. 7BG023 DRY TIME 5 MIN	☐ DUST ☒ SPRAY BATCH NO. 7BM073 DEV. TIME 10 MIN	☐ FLUSH ☒ SOLVENT WIPE BATCH NO. 7BG023

☒ ACCEPT ☐ REJECT TEMPERATURE 75° GAGE NUMBER C112255

COMMENTS:

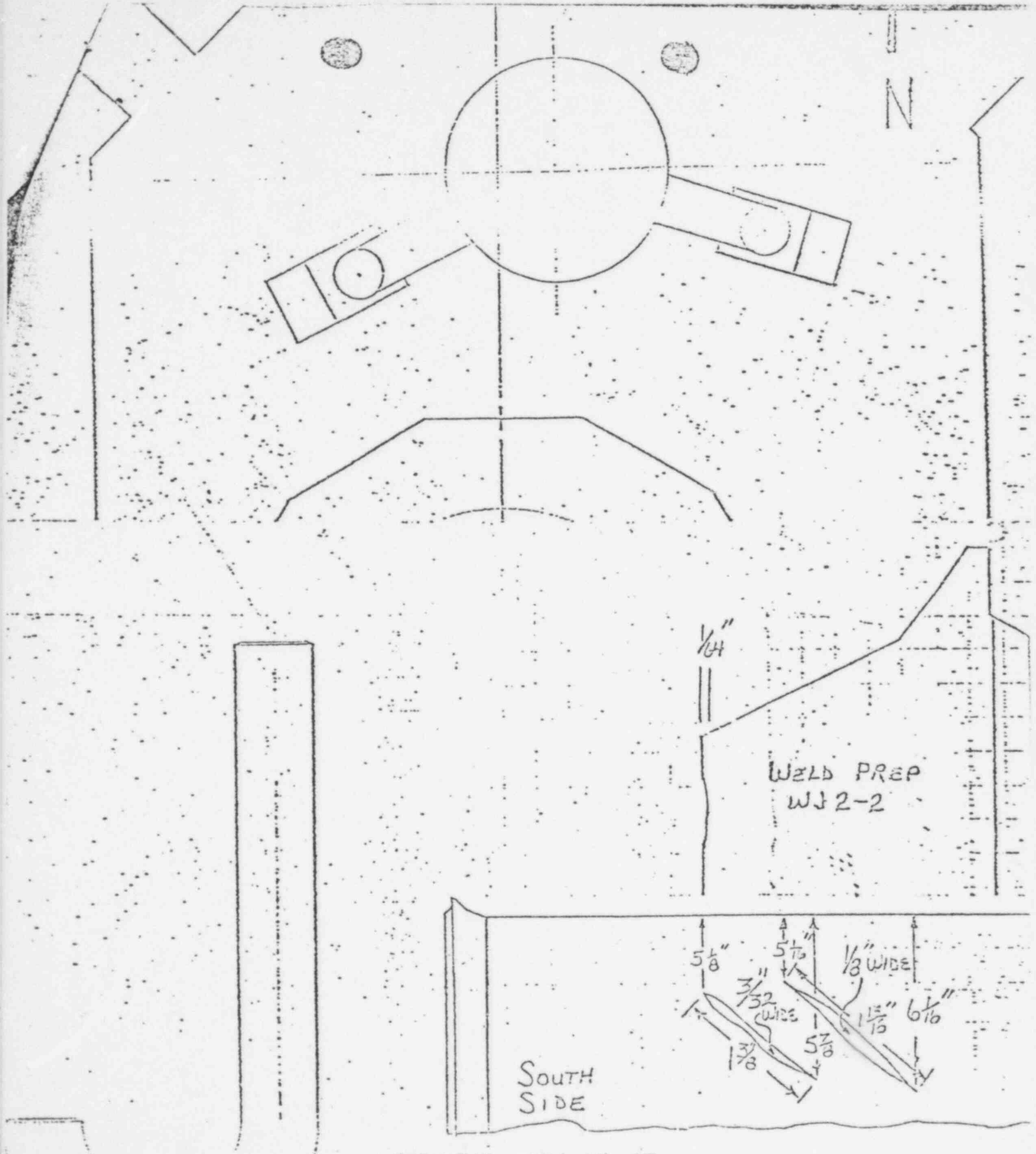
838 ?4

LIGHTING ACCEPTABLE

INSPECTOR James L. Jones

CERTIFIED LEVEL II

N/A = NOT APPLICABLE SEQUENTIAL NUMBER NL 0047



EXPANDED VIEW OF O.D.

838 295

POOR ORIGINAL

B-67

FCP # 28
UNIT # 2
SEQ # 202
DATE 1-12-79

Consumers Power Company

Midland Project: P.O. Box 1963, Midland, Michigan 48640 - Area Code 517 631-0951

February 15, 1979

Mr J F Newgen
Bechtel Power Corp
PO Box 2167
Midland, MI 48640

MIDLAND PROJECT - B&W CC NCR NO 470
File: 16.9.2 Serial: 61FQA79

Consumers Power Company NCR M-03-4-9-014 identified an improper method of making corrections or revisions to quality assurance records. Subsequent to the issuance of that NCR, B&W CC NCR No 470 has been received using the same method of revision.

As was the case with NCR No 453, NCR No 470 has an acceptable disposition and is being approved, but our approval is again being sent by letter instead of signing the NCR form.

R E Whitaker
for W R Bird
Section Head - QA Engineering, Midland

WRB/REW

CC VNAsgaonkar
TCCooke
JLCorley
BWMarguglio
PAMartinez
DBMiller
LFStornetta

POOR ORIGINAL

2312

REPORT OF NONCONFORMITY

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

TO BE COMPLETED BY FIELD QC

1 SYSTEM OR PART NAME: Lug 2-8B south		2 JOB NO.: CL-238	3 DATE: 4/12/79
4 DRAWING VIOLATED & REV.: 2-6, Rev. 2	5 VENDOR NAME: NPS Industries	6 REJECT TAG NOS.: 300	
7 PROC/SPEC. VIOLATED: FCP ~~#23~~ 28 and 4-4-79	8 P.O. NO.: F3107 Q	9 PART NO.: 2-8B-6	10 SYSTEM DESIGNATION: Restraints
11 CORRECTIVE ACTION REQUIRED: ☒ YES ☐ NO		12 REPORTED BY: J. R. Jones / J. Jones per R Thope	

13 CONDITION DETAILS

Cavities on weld W28-9 on lug 2-8B-6 south were welded without having cavities cleared by MT. These cavities were welded without a weld control record. The cavities were not charted or evaluated by engineering. An attachment "A" to FCP #28 was initiated into the repair system well in advance of the unauthorized welding.

14 CONDITION DETAILS VERIFIED BY B&W QC SUPV. R W Thope DATE 4-12-79	15 DISPOSITION REQUESTED FROM ☒ B&W CONSTRUCTION ☐ BY R W Thope DATE 4-12-79

TO BE COMPLETED BY F.P. ENGINEERING

16 REPORTABILITY PER 10 CFR 50.55 (E)
☐ REPORTABLE ☒ NON-REPORTABLE BY D. E. Smith DATE 4-12-79

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

An Attachment "A" was issued on both welds W28-9 ~~and W28-10~~, which is the top and bottom weld ~~on lug~~ 2-8B-6. ~~The~~ cavities in question were on each side of the lug and ~~were~~ reflected ~~on~~ both Attachment "A" for W28-9 and W28-10. The grinding and welding was actual ~~done~~ under the Attachment "A" ~~for W28-10~~. Sequence 2,3,4,&5 of Attachment "A" for weld ~~W 28-9~~ to be accepted as is bases on an acceptable final M.T. examination. DHD 5/25/79

17 See attachment for disposition instructions. Revised 5-5-79 DHD

18 DISPOSITION APPROVED BY Rwthope 5-25-79 B&W QC/SUPV. R W Thope DATE 4-23-79 B&W PE/ME D. E. Smith DATE 4-19-79 OTHER L E Whitaker DATE 6/4/79 OTHER ____ DATE ____	19 DISPOSITION DETAILS BY B&WCC ACTION COMPLETED 20 BY T. G. Davis Jr DATE 7-10-79

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 W Thope DATE 7-11-79 REPORT OF NONCONFORMITY ____

22 NON CONFORMITY CLOSED B&W QC SUPV. R W Thope DATE 7-11-79

TO BE COMPLETED BY F.P. MANAGER

23 CORRECTIVE ACTION DESCRIPTION

Seperate NDE reports should be issued for each weld.

838 297

V. N. Argumedo
FIELD PROJECT MANAGER

ANI

24 ANI ACCEPTANCE C. Amaya DATE 6-7-79

SEQUENTIAL NUMBER № 511

NCR- #511

DISPOSITION INSTRUCTIONS

Step No.

1. Remove weld by arc gougin, per 9-WG-105 or by mechanical means as shown on attached sketch. Record preheat temperature if arc gouging is used.
6-19-79 T. H. Davis Jr. GROUND OUT

*2. Inspect cavity size to attached sketch and clear reject per 9-MT-101.
NOTE: Attached sketch is based on inspectors recollection of cavity size plus additional size to assure complete removal of repair weld.
MT Accept Report # 2915 H. Braun 6-26-79

3. Remove arc burns by grinding.
Accept H. Braun 6-26-79

*4. Visually inspect ground area, map and record cavity size.
SEE Attached Chart R.D. Brown 6-28-79

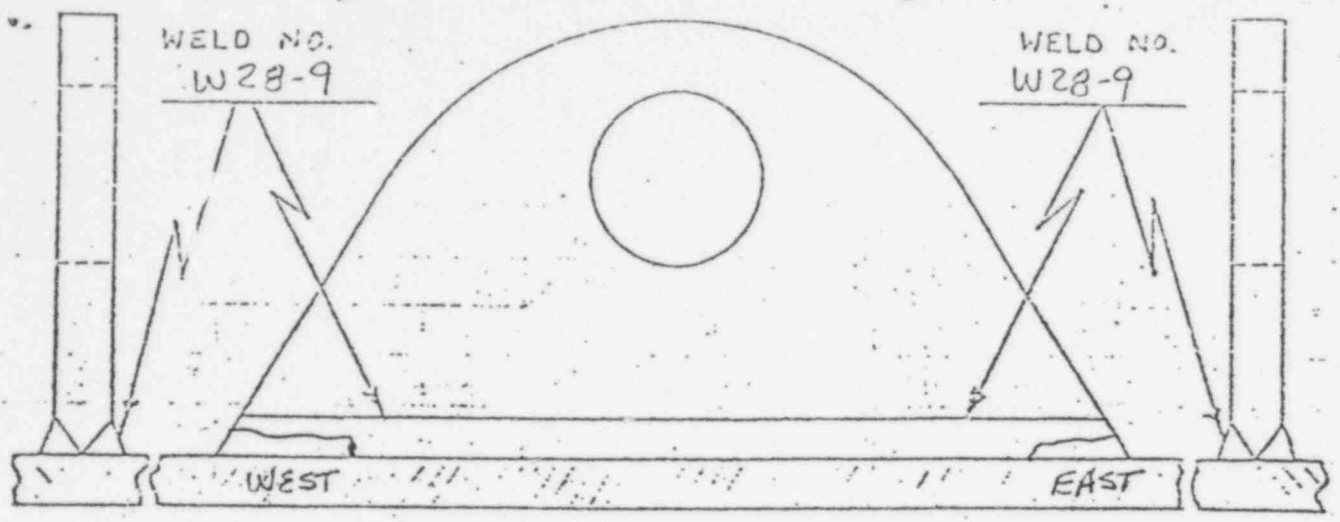
5. Engineering to review defect size in accordance with Bechtel Spec. 7220-C-304.
CROSS SECTIONAL AREA OF DEFECT IS LESS THAN 5% OF THE CROSS SECTIONAL AREA OF THE EMBED. THIS IS A MINOR REPAIR PROCEED WITH REPAIR 6/29/79 D&Q

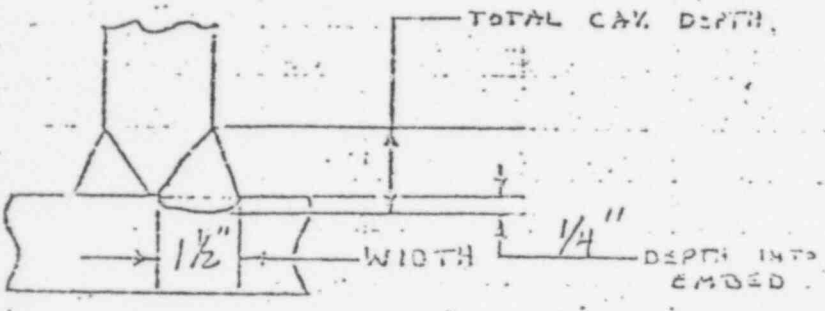
6. Repair cavity per WIN-101-1/AWS. WCR
7-6-79 T. H. Davis Jr. # 000043

*7. M.T. weld repair per 9-MT-101.
MT Accept Report # 3002 7-9-79 H. Braun

8. Grind and re-M.T. as required.
N/R H. Braun 7-9-79

838 298





FCP NO. 28
SEQ. NO.
UNIT NO. 2
DATE 5-22-79
SIGNED James R. Jones

WEST

TOTAL CAVITY DIM'S

LENGTH	WIDTH	DEPTH
3 5/8"	1"	TO ROOT ABOUT 1" TO 1½

TOTAL ~~EMBED~~ EAST CAVITY DIM'S

LENGTH	WIDTH	DEPTH
2 ¾"	1"	TO ROOT ABOUT 1½"

POOR ORIGINAL

BWCC 3180-1

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

MAGNETIC PARTICLE & LIQUID PENETRANT INSPECTION REPORT

MAGNETIC PARTICLE REPORT

JOB NUMBER CL-238 WELD NUMBER 4128-9 DATE 6-26-79

SYSTEM NUMBER Lug 2-8R-5 N.E. M.T. PROCEDURE NUMBER 9MT-101

WELD REPAIR NUMBER N/A SEQ. NUMBER 2 F.C.P. NUMBER 28 rev-511

INSPECTION LEVEL	MATERIAL INSPECTED	SURFACE CONDITION	APPLICABLE CODE
☐ ROOT ☐ FINAL ☐ PARTIAL ☐ REPAIR ☒ Cavity	☒ WELD ☐ BASE METAL	☐ AS WELDED ☒ GROUND ☐ MACHINED	☐ ASME I ☒ ASME III ☐ ASME VIII ☐ B31.1 ☐ OTHER

CURRENT	EXAMINATION METHOD		EQUIPMENT	MAGNETIC PARTICLE
☐ A.C. ☐ D.C. ☒ D.C. RECTIFIED AMPERES 500-600	☒ PROD ☐ Y-5 YOKE	☐ WET ☒ DRY	MAKE Econospect MODEL ESC-270 SERIAL NUMBER 6838	☐ FLOURESCENT ☒ RED ☐ GRAY

☒ ACCEPT ☐ REJECT

COMMENTS: Lighting Acceptable

INSPECTOR Gary Brewer

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 ☐ B31.1 ☐ OTHER

PRE EXAM. CLEANING	PENETRANT 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 _____ GAGE NUMBER _____

COMMENTS:

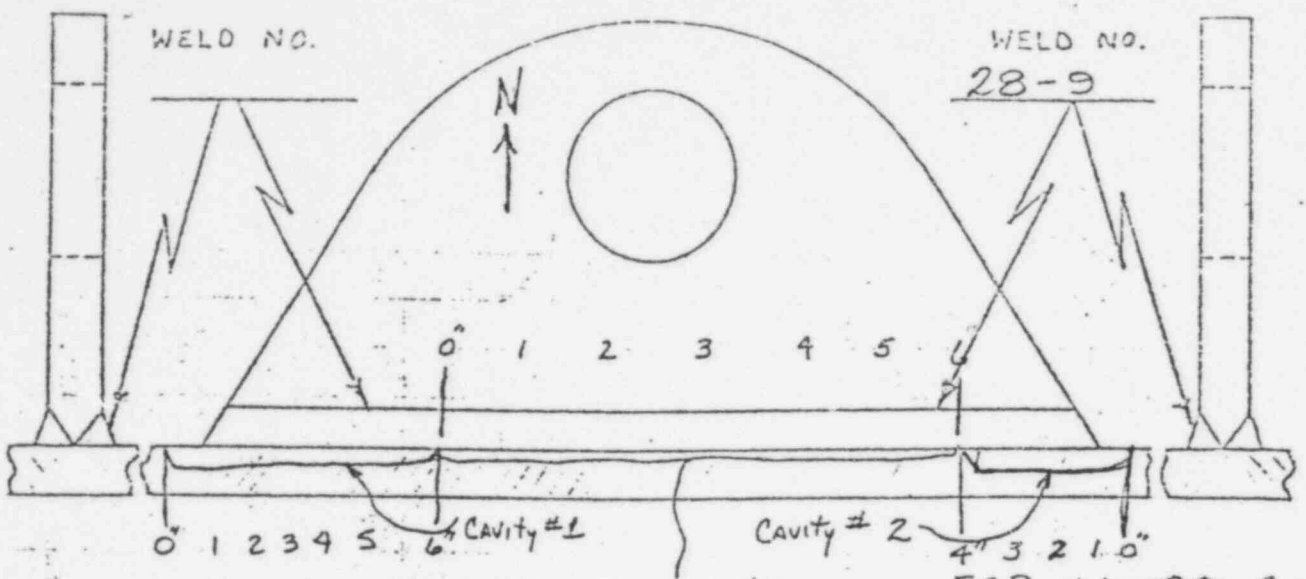
838 300

INSPECTOR _____

CERTIFIED LEVEL _____

N/A = NOT APPLICABLE

SEQUENTIAL NUMBER № 2915



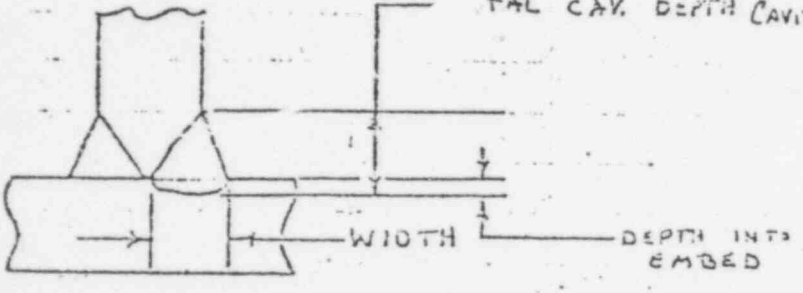
~~FCP #~~ ~~28~~ NCR # 511 Rev 7-10-79

SEQ. NO. 4

UNIT NO. 2

DATE 6-28-79

SIGNED R.D. Brown



TOTAL CAVITY DIM'S.

LENGTH	WIDTH	DEPTH
13½"	1⅛"	1¼"

EMBED CAVITY DIM'S

		LENGTH	WIDTH	DEPTH
Cavity #1	0"	6"	~~2.5"~~ 0"	~~.187"~~ 0"
	1"		2.5"	.187"
	2"		2"	.250"
	3"		1.750"	.250"
	4"		1.5"	.250"
	5"		1.5"	.187"
	6"		0"	0"
Cavity #2	0"	4"	0"	0"
	1"		2.250"	.093"
	2"		2.0"	.156"
	3"		1.750"	.093"
	4"		0"	0"
Cavity #3	0"	6"	0"	0"
	1"		.750	.125"
	2"		.750	.125"
	3"		.875	.187"
	4"		.875	.187"
	5"		.75"	.187"
	6"		0"	0"

2.27" Cross section of cavity

3.30" Cross section of cavity

POOR ORIGINAL

BWCC 31809-1

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

MAGNETIC PARTICLE & LIQUID PENETRANT INSPECTION REPORT

MAGNETIC PARTICLE REPORT

JOB NUMBER CC-228 WELD NUMBER 41 38-7 DATE 7-9-78
SYSTEM NUMBER Cuy 2-8B N.E. M.T. PROCEDURE NUMBER 9217-101
WELD REPAIR NUMBER 1 SEQ. NUMBER 7 F.C.P. NUMBER Attachment A

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 ☐ B31.1 ☐ OTHER

CURRENT	EXAMINATION METHOD		EQUIPMENT	MAGNETIC PARTICLE
☐ A.C. ☐ D.C. ☒ D.C. RECTIFIED AMPERES 450-550	☒ PROD ☐ Y-5 YOKE	☐ WET ☒ DRY	MAKE Eddycurrent MODEL ESC-27A SERIAL NUMBER 1843	☐ FLOURESCENT ☒ RED ☐ GRAY

☒ ACCEPT ☐ REJECT
COMMENTS: Lighting Acceptable

INSPECTOR Gary Brown
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 ☐ B31.1 ☐ 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 _____ GAGE NUMBER _____
COMMENTS:

838 302

INSPECTOR _____
CERTIFIED LEVEL _____

N/A = NOT APPLICABLE

SEQUENTIAL NUMBER № 3002

PDS 32261-1

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

WELD CONTROL RECORD

UNIT #2

NCR #511

WELD CONTROL RECORD S/N	WELD NO. OR IDENT.	CONTRACT NO. & COMPONENT	WELD INST. SHEET/REV.	ELECTRODE/FILLER METAL TYPE	REQUIRED PREHEAT	FCP/DEV. # / SEQ. #
000043	W-28-9	CL-238 & 2-8-B	WIN-101-2	E-7015 A1	200 °F	28 / 050

SUPVR. INITIAL	TIME AM/PM	DATE DAY, MONTH & YEAR	WELDER IDENTIFICATION (SOCIAL SECURITY NUMBER)	FILLER METAL DIA. INS.	FILLER METAL HEAT, LOT OR BATCH NO.	DUPLICATE PIECE SERIAL NO.	PREHEAT OR POSTHEAT °F		INTERPASS °F
[illegible]	9:38 AM	11-22-78	387	1/8	421C8131	2-8-B-6	275°F	N/A	367°F (CU12-235
[illegible]	1:40 P.M.	11-22-78	387	1/8	421C8131	2-8-B-5	240°F	N/A	350°F (CU12-23
[illegible]	12:45 PM	1-16-79	382	3/32 + 1/8	3/32 422B8721 1/8 421C8131	2-8B-5	264°F	N/A	360°F (CU12-235
[illegible]	2:10 PM	1-24-79	389	3/32	422B8721	2-8B-5	259°F	N/A	365°F (CU12-235
[illegible]	1:45 PM	2-6-79	273	3/32 + 1/8	(3/32) 422B8721 (1/8) 4020702	2-8B-5	268°F	N/A	321°F (CU12-236)

POOR ORIGINAL

838-303

1812

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 Spools- Unit #1 & Unit #2	2 CL-238	3 4/20/79

DRAWING VIOLATED & REV.	VENDOR NAME	REJECT TAG NOS.
4 N/A	5 ITT Grinnell	1CCA-21-S610-1-4 #266 #265 #267, #268 (Unit #1) 6 2CCA-21-S611-1-4

PROC/SPEC. VIOLATED	P.O. NO.	PART NO.	SYSTEM DESIGNATION
7 BPC Spec. 7220-M-201	8 N/A	1CCA-21-S610-1-4 (Unit #1) 9 2CCA-21-S611-1-4	10 Core Flood

CORRECTIVE ACTION REQUIRED
11 ☐ YES ☒ NO

REPORTED BY
12 R. W. Shope / R W Shope

CONDITION DETAILS

Spools exceed flattening and ovality limitations of 5% maximum per attached quality action request SD-154.

13

CONDITION DETAILS VERIFIED BY
B&W QC
14 SUPV. R W Shope DATE 4-20-79

DISPOSITION REQUESTED FROM
☒ B&W CONSTRUCTION ☐
15 BY R W Shope DATE 4-20-79

TO BE COMPLETED BY F.P. ENGINEERING

REPORTABILITY PER 10 CFR 50.55 (E)
☐ REPORTABLE ☒ NON-REPORTABLE BY D. E. Viviola DATE 4-20-79
16

DISPOSITION INSTRUCTIONS

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

Bechtel to advise disposition.
BECHTEL RESPONSE TO RFI No. 73

17

DISPOSITION APPROVED BY
B&W QC SUPV. R W Shope DATE 6-26-79
B&W FPE D A Wenzel DATE 6/26/79
OTHER R E Whitaker DATE 7/3/79
OTHER _____ DATE _____
18

DISPOSITION DETAILS BY
19 BECHTEL RFI #73

ACTION COMPLETED
20 BY D A Wenzel DATE 7-9-79

TO BE COMPLETED BY FIELD QC

REWORK INSPECTION NOT REQUIRED ACCEPT AS IS ☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE ☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE
21 BY R Shope DATE 7-9-79 REPORT OF NONCONFORMITY _____

NON CONFORMITY CLOSED
22 B&W QC SUPV. R W Shope DATE 7-9-79

TO BE COMPLETED BY F.P. MANAGER

CORRECTIVE ACTION DESCRIPTION

838 -304

FIELD PROJECT MANAGER
23

ANI

ANI ACCEPTANCE C.W. Sturgis DATE 7-10-79
24

SEQUENTIAL NUMBER No. 514

QUALITY ACTION REQUEST

From: (1)
Bob Ablondi

To: (2) W. Barclay
C. Buhl

Control Document ref.: (3)
Spec. M-201 & SF/PSP G-3.2

QAR Identification No.: (4)
SD-154

Action Requested: (5)
During a QA surveillance of the "combo" shop, the following condition was noted:

1) Contrary to the requirements of Bechtel Specification 7220-M-201 para. 6.3.7C & ITT Grinnell Procedure No. SS-KR19 Section V para 9 & 12, two (2) ASME Section III Nuclear Cl. 1 spools nos. 1CCA-21-S610-1-4 & 2CCA-21-S611-1-4 exceeded the ref. flattening and ovalility limitations of 5%. See attached.

2) Contrary to the requirements of Bechtel Specification 7220-M-201 para. 9.2 a.7., no deviations with Project Engineering appv'd was included in the QA/QC documentation pkgs. no. MR-78-126 and MP-68-12 for the above spools.

(continued)

Signature: (6) R B Ablondi
Date: (7) March 23,1979
Reply Requested by: (8) 4-17-79

Reply: (9)

POOR ORIGINAL

838 305

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

3) Contrary to the requirements of para. 3.4 & para. 3.4 (6) (a) (ii) of SF/PSP G-3.2 no nonconformance report has been issued to allow release and further work on the nonconforming items.

Action Requested

1) Procurement Supplier Quality Representative require ITT Grinnell to resolve the nonconformance in accordance with their QA program.

2) Procurement Supplier Quality Representative require that ITT Grinnell provide objective evidence that the reported condition is not germane.

3) Bechtel Receiving Quality Control issue an NCR in accordance with para. 3.4 of SF/PSP G-3.2

QA Measurements

1) Spool No. 2CCA-21-S611-1-4
MR-78-126

D max = 14.594
D min = 13.164
Do = 14.037

$$\frac{100\text{x } (14.594-13.164)}{14.037} = \frac{1.43}{} = 10.18\%$$

2) Spool No. 1CCA-21-S610-1-4
MP-68-12

D max = 14.705
D min = 13.005
Do = 14.020

$$\frac{100\text{x } (14.705-13.005)}{14.020} = \frac{1.7}{} = 12.12\%$$

Spec. M 204 allows 5%

3) METE used

BPC-M-1043 (13"-14")
BPC-M-2044 (14"-15")

POOR ORIGINAL

Consumers
Power
Company

Midland Project: P.O. Box 1963, Midland, Michigan 48640 · Area Code 517 631-0951

April 18, 1979

Mr J F Newgen
Bechtel Power Corp
PO Box 2167
Midland, MI 48640

MIDLAND PROJECT - BECHTEL QAR SD-154
File: 16.0 Serial: 134FQA79

Bechtel Quality Assurance has identified a discrepant condition on pipe spool numbers 1CCA-21-S610-1-4 and 2CCA-21-S611-1-4 and documented the discrepancy in Quality Action Request SD-154. This pipe has been turned over to B&W. As further corrective action is required and with the pipe currently outside the scope of the Bechtel QA/QC program, it appears the proper mechanism to obtain the corrective action is to have B&W initiate a nonconformance report. The B&W NCR needs to address the identified discrepancy and be submitted to Bechtel for evaluation It is noted that B&W has written NCR's against these two specific spools but not for the particular discrepancy identified. Copies of associated correspondence and QAR SD-154 are attached. Please transmit this letter and the attachments to B&W for their action.

J L Corley
Section Head - IE&TV, Midland

JLC/DRK

CC VNAsgaonkar, w/o attach
WRBird, w/o attach
TCCooke, w/o attach
JWLillywhite, w/o attach
BWMarguglio, w/o attach
PAMartinez, w/o attach
DBMiller, w/o attach
RWShope, w/o attach
CDThompson, w/o attach

838 307

REQUEST FOR INFORMATION

PAGE 1 OF ____ NO. 73 fdw

ECT NO. 7220-M-1A S/C NO. CL-238 Q-RELATED YES [X] NO [ ] DATE 4/23/79

DWG. OR SPEC.	SHEET	REV.	TITLE
N/A	N/A	N/A	N/A

PARED BY: D. E. Kinsala/ DEK RESPONSE REQUESTED BY DATE 4-25-79

STING CONDITION:

Core flood spools 1-CCA-21-S610-1-4 and 2CCA-21-S611-1-4 exceed Bechtel's requirements for flattening and quality. See attached NCR-4514.

QUESTED INFORMATION:

Please advise disposition.
Is it permissable to proceed with installation of the pipe on a caution basis or must work stop until the NCR is cleared?

POOR ORIGINAL

SPONSE: THE QUALITY OF 10-18% ON 2CCA-21-S-611-1-4 AND 12-12% ON 1CCA-21-S-610-1-4 IS ACCEPTABLE. WORK MAY PROCEED.

838-508

EVIEWED BY: DATE
CIVIL N/A

RESPONSE PREPARED BY: Ron Dunbar

REC'D 31812

REPORT OF NONCONFORMITY

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

TO BE COMPLETED BY FIELD QC

1 SYSTEM OR PART NAME: Core Flood System Units 1 & 2	2 JOB NO.: CL-238	3 DATE: 4/25/79
4 DRAWING VIOLATED & REV.: M-610, Sht. 1; M-611, Sht. 1	5 VENDOR NAME: ITT Grinnell	6 REJECT TAG NOS.: 1-CCA-021-610-01-04 284 & 285; 2-CCA-021-611-01-04 286 & 287
7 PROC/SPEC. VIOLATED: M-201(Q), Rev. 8	8 P.O. NO.: M 104A	PART NO.: 1-CCA-021-610-01-04; 92-CCA-021-611-01-04 — 10 SYSTEM DESIGNATION: Core Flood Line 021
11 CORRECTIVE ACTION REQUIRED: ☐ YES ☒ NO		12 REPORTED BY: J. Rheinhardt / J Rheinhardt

13 CONDITION DETAILS

Documentation supplied by vendor to Bechtel does not meet specifications of Bechtel per attached Quality Action Request SD-155.

14 CONDITION DETAILS VERIFIED BY: B&W QC SUPV. R W Hope DATE 4-25-79	15 DISPOSITION REQUESTED FROM: ☒ B&W CONSTRUCTION ☐ BY R W Hope DATE 4-25-79

TO BE COMPLETED BY F.P. ENGINEERING

16 REPORTABILITY PER 10 CFR 50.55 (E): ☐ REPORTABLE ☒ NON-REPORTABLE BY D. E. Lewis DATE 4-25-79

17 DISPOSITION INSTRUCTIONS

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

~~Bechtel to advise disposition.~~ WGL 7-11-79

Vendor to supply documentation mentioned in QAR SD-155 or assure acceptability of present documents. B&W will review data when made available and close NCR.

18 DISPOSITION APPROVED BY: B&W QC SUPV. R W Hope DATE 7-11-79; B&W FPE H. H. Lum DATE 7-11-79; OTHER R E Whitelaw DATE ____; OTHER ____ DATE ____	19 DISPOSITION DETAILS BY H. H. Lum 7-11-79
	ACTION COMPLETED 20 BY J Rheinhardt DATE 7-19-79

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 7-19-79 REPORT OF NONCONFORMITY ____

22 NON CONFORMITY CLOSED B&W QC SUPV. R W Hope DATE 7-19-79

COMPLETED BY F.P. MANAGER

23 CORRECTIVE ACTION DESCRIPTION

FIELD PROJECT MANAGER 838 309

24 ANI ACCEPTANCE C. Stinger DATE 7-19-79

SEQUENTIAL NUMBER № 522

Consumers Power Company

Midland Project: P.O. Box 1963, Midland, Michigan 48640 - Area Code 517 631-0951

April 23, 1979

Mr J F Newgen
Bechtel Power Corp
PO Box 2167
Midland, MI 48640

MIDLAND PROJECT - BECHTEL QAR SD-155
File: 16.C Serial: 140FQA79

Bechtel Quality Assurance has identified a discrepant condition on pipe spool numbers 1CCA-21-S610-1-4 and 2CCA-21-S611-1-4 and documented the discrepancy in Quality Action Request SD-155. This pipe has been turned over to B&W. As further corrective action is required and with the pipe currently outside the scope of the Bechtel QA/QC program, it appears the proper mechanism to obtain the corrective action is to have B&W initiate a nonconformance report. The B&W NCR needs to address the identified discrepancy and be submitted to Bechtel for evaluation. It is noted that B&W has written NCR's against these two specific spools but not for the particular discrepancy identified. A copy of QAR SD-155 is attached. Please transmit this letter and the attachments to B&W for their action.

J L Corley
Section Head - IE&TV, Midland

JLC/WFD

CC VNAsgaonkar, w/o attach
WRBird, w/o attach
TCCooke, w/o attach
JWLillywhite, w/o attach
BWMarguglio, w/o attach
PAMartinez, w/o attach
DBMiller, w/o attach
RWShope, w/attach
CDThompson, w/o attach

POOR ORIGINAL

CONSUMERS POWER COMPANY
RECEIVED
APR 2 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640

March 27, 1979

Consumers Power Company
P. O. Box 1963
Midland, MI 48640

Attention: J. L. Corley

Job 7220 Midland Project
Project QAR SD-155 Issue
LAD: 786 Action Item: 654

Dear Mr. Corley:

Attached for your information is a copy of the subject QAR SD-155 Issue.

Very truly yours,

L. Smith

for L. A. Dreisbach
Project Quality Assurance
Engineer

LAD/HA/jrh

cc: W. Bird

JLC	
DRK	
RGW	
PRK	
QE	
FILE	

838 311

QUALITY ACTION REQUEST

(1) From: L. A. Dreisbach			
(2) To: M. L. Barclay	(3) Control Document ref.: Spec. H-201 (Q) Rev. 8	(4) QAR Ident. No.: SD-155	

(5) Action Requested:

1) Para 6.3.7 g of the controlling document states that stainless steel materials shall be post bend heat treated, etc.... and held for one hour per inch of thickness, but not less than one hour, followed by a rapid cooling to below 700°F in less than 4 minutes.

2) Para 7.3.5 b of the referenced specification requires wall thickness measurements....etc., along the entire length of the "heel".at 6" intervals or less and at points 60° both sides "of the centerline" at 6" intervals or less.

cont'd.....

(6) Signature: L A Dreisbach	(7) Date: 3/23/79	(8) Reply Requested by: 4/6/79	

(9) Reply:

POOR ORIGINAL

(10) Signature:		(11) Date:	
(12) Action Verified:		(13) Date:	

8/2/74

WHITE -- Return to sender CANARY -- Addressee's file PINK -- Sender's file

BPC 20877
G1031649 05

1) Contrary to the referenced controlling document, there was no documents included to substantiate that the rapid cooling rate was met. The Post Bend Heat Treat Chart did not provide the above data for Spools No.'s 1CCA-21-8511-1-4 and 2CCA-21-S610-1-4.

2) Contrary to the above referenced specification, the bend radius wall thickness measurements were not available in the QA/QC documentation package for Spool No. 1CCA-21-S610-1-4.

The above spools have been released for installation to B&W Construction.

Action Requested

1) Implement the requirements of the applicable QA/QC program to obtain the missing documentation.

2) Verify that similar documentation is available for spools previously released for installation to B&W Construction.

POOR ORIGINAL

POOR ORIGINAL

TO Mr. Frank Kucera
Bechtel

DATE 5/10/79

SUBJECT Rental Rates of Intermediate Weld Prep Mach.

MESSAGE Please refer to your answer of our Speedmessage of 5-8-79 concerning weld prep machine. At the present time 6 of pieces of pipe are held up by NCR's. When the NCR's are cleared or if Bechtel grants us permission to proceed the work can be accomplished in (eighty) 80 hours. The machine would be on site for one week after we are released. The NCR's in question are 445 on 2-CCA-20 and NCR's 514 & 522 on 2-CCA-21. If interim release to proceed can be issued on these documents, work can proceed.

SIGNED D. E. Kinsel

REPLY #522 - DOCUMENTATION QAR SD-152 *

514 - QUALITY EXCEEDS 5% QAR - SD-154 **

445 - ELEVATION - PIPE IS WITHIN SPEC. NCR IS NOT APPROPR

* Documentation being expedited from vendor.

** Item sent to D.A. Engr. for disposition (letter sent 5/3/79)

Note: I see no reason that B&W/C can't write a conditional release to install ~~that~~ the pipe 2CCA-21-S-610-1-4 on their NCR.

838 314

838 314

SIGNED Ron Dunlap DATE 5/15/79

Reciform - 45 475 SEND PARTS 1 AND 3 WITH CARBONS INTACT - PART 3 WILL BE RETURNED WITH REPLY.

CC: W. BIRD
J. CORLEY
D. MILLER

Pg 1 of 3

D/T 1.54

QUALITY ACTION REQUEST

From: L. A. Dreisbach (1)		
To: W. L. Barclay (2)	Control Document ref.: Spec. M-201 (Q) Rev. 8 (3)	QAR ident. No.: SD-155 (4)

Action Requested: (5)

1) Para 6.3.7 g of the controlling document states that stainless steel materials shall be post bend heat treated, etc.... and held for one hour per inch of thickness, but not less than one hour, followed by a rapid cooling to below 700°F in less than 4 minutes.

2) Para 7.3.5 b of the referenced specification requires wall thickness measurements....etc., along the entire length of the "heel".at 6" intervals or less and at points 60° both sides "of the centerline" at 6" intervals or less.

cont'd.....

Signature: R A Dreisbach (6)	Date: 3/23/79 (7)	Reply Requested by: 4/6/79 (8)

Reply: (9)

1) Rased on a phone conversation between the discipline QAE and Mr. J. Abel of Project Engineering on 7/3/79, Project Engineering considers the method of cooling in the Treatment for the spools noted on Pg 3 of the QAR satisfy the requirements of para 6.3.7g of the Ref. specification.

2) The requirements of Paragraph 7.3.5b have been resolved. Vendor has provided the Wall Thickness Verification document. The requirements of para. 6.3.9 regarding min wall thickness tolerances have not been exceeded.

(CONTINUED ON THE FOLLOWING PAGE)

Signature: NOT REQUIRED (10)	Date: (11)
Action Verified: R A Dreisbach (12)	Date: July 6, 1979 (13)

8/2/74

WHITE – Return to sender CANARY – Addressee's file PINK – Sender's file

BPC-20877
G1001649-05

1) Contrary to the referenced controlling document, there was no documents included to substantiate that the rapid cooling rate was met. The Post Bend Heat Treat Chart did not provide the above data for Spools No.'s 1CCA-21-8611-1-4 and 2CCA-21-S610-1-4.

2) Contrary to the above referenced specification, the bend radius wall thickness measurements were not available in the QA/QC documentation package for Spool No. 1CCA-21-S610-1-4.

The above spools have been released for installation to B&W Construction.

Action Requested

1) Implement the requirements of the applicable QA/QC program to obtain the missing documentation.

2) Verify that similar documentation is available for spools previously released for installation to B&W Construction.

3) SQR's are currently performing 100% verification reviews of all ASME Section III piping, including piping furnished by ITT Grinnell for installation by B & W. Based on the SQR's on-going review, item (2) of the action requested is considered resolved.

Note: ITT Grinnell's subcontracted Post Bend Heat Treating organization's Cert. of Compliance states "The material was heated to the required Temp. and held at said Temp. per Spec M-201 Rev. 8, Then "water quenched" to black in 92 seconds.

POOR ORIGINAL

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	5/14/79	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., and 3" I.P.S. riser sub-assembly.

14. REPORTED BY	15. VERIFIED BY	16. CORRECTIVE ACTION REQUIRED
A. C. Ashworth, 5-14-79 NAME DATE	R W Hope 5-14-79 NAME DATE	☐ YES ☒ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO — D A 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

Rust is a result of long term storage.
Vendor to advise disposition.

D. A. Durst (FIELD PROJECT ENGINEER) — 5/14/79 (DATE)

20. ACTUAL DISPOSITION: ☒ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS

21. DISPOSITION INSTRUCTIONS

1. Bechtel will clean nozzles
2. Vendor representative to accept.

H H Linn (FIELD PROJECT ENGINEER) — 7-13-79 (DATE)

22. APPROVALS

B&W FQC: R W Hope 7-16-79 (SIGNATURE / DATE) OTHER: _____ (SIGNATURE / DATE)

OWNER/AGENT: R E Whitaker 7/17/79 (SIGNATURE / DATE) OTHER: _____ (SIGNATURE / DATE)

23. ANI REVIEW: C Jones (SIGNATURE) — 7-19-79 (DATE)

24. DISPOSITION COMPLETED	25. DISPOSITION VERIFICATION	☒ ACCEPTABLE ☐ UNACCEPTABLE
H H Linn 7-27-79 NAME DATE	R W Hope 7-30-79 NAME DATE	REPORT OF NONCONFORMITY #

25. CORRECTIVE ACTION

838 318

_____ (FIELD PROJECT MANAGER) — _____ (DATE)

27. NONCONFORMITY CLOSED: R W Hope (FIELD QUALITY CONTROL SUPV.) — 7-30-79 (DATE)

SEQUENTIAL NUMBER № 1604

BDG 1743-3
FIELD CORRESPONDENCE-B&W CONSTRUCTION COMPANY

TO:	CUSTOMER	
FRANK KUCERA BECHTEL P.A.	CONSUMERS POWER Co.	
	JOB NO.	DATE 7-27-79

This is to advise you that the inside surface condition of the Feedwater Headers on the south Steam Generator of unit #2, in my judgement meets the requirements of a Class "C" cleanness and I accept them.

F. A. Fuetling

POOR ORIGINAL

838 319

COPY SENT TO

POOR ORIGINAL

FROM: Vas Organisan

DATE: 7/18/79

SUBJECT:

MESSAGE: Please be advised that the feedwater heater wings for steam generator 2E51A have been cleaned to the satisfaction of the BTW site representative. BTWCC is therefore authorized to proceed with installation of the wings, welds etc.

SIGNED: Frank Thomas

REPLY

838 320

SIGNED

DATE / /

Rediform® 45 475 SEND PARTS 1 AND 3 WITH CARBONS INTACT - PART 3 WILL BE RETURNED WITH REPLY.

POLY PAK (50 SETS) 49475

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

REPORT OF NONCONFORMITY

1. JOB NUMBER	2. UNIT NUMBER	3. DATE	4. ITEM NAME	5. ITEM NUMBER Mk. Nos.
CL 238	2	6-20-79	Reactor Internal	282/383

6. VENDOR MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
B&W	☐ RECEIVING ☐ TEST ☒ CONST.	538	FCP-49

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY#
N/A	27105F Rev. 6	N/A

13. DESCRIPTION OF NONCONFORMITY

(2) Mk. 282 locking clip tabs were placed over alignment holes.. Therfore, not allowing for a full weld along tabs. (see pg. 2 of 5 and 3 of 5).

(2) Mk..383 Locking clips have been bent. (see pg. 4 of 5 and 5 of 5).

14. REPORTED BY	15. VERIFIED BY	16. CORRECTIVE ACTION REQUIRED
A. C. Ashworth / A. C. Ashworth — NAME — 6-20-79 DATE	R. W. Shope / R. W. Shope — NAME — 6-20-79 DATE	☐ YES ☒ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO — W. H. Linn — FIELD PROJECT ENGINEER — 6-20-79 DATE

18. RECOMMENDED DISPOSITION: ☐ N/A ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☒ ACCEPT AS IS

19. TECHNICAL JUSTIFICATION/OR RECOMMENDED DISPOSITION INSTRUCTIONS

Except as is
Vendor to approve disposition

W. H. Linn — FIELD PROJECT ENGINEER — 6-26-79 DATE

20. ACTUAL DISPOSITION: ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☒ ACCEPT AS IS

21. DISPOSITION INSTRUCTIONS

per S.P.R. No. 46:
1. Accept MK 282 clips "AS IS".
2. Inspect the bent MK 383 clips are not cracked. If no cracking exists, the MK 383 clips are acceptable "AS IS".

W. H. Linn — DATE 7-17-79

22. APPROVALS
B&W FQC R W Shope — SIGNATURE — 7-13-79 DATE — OTHER — SIGNATURE — DATE
OWNER/AGENT R E Ritzman — SIGNATURE — 7-13-79 DATE — OTHER — SIGNATURE — DATE

23. ANI REVIEW
SIGNATURE — 7/24/79 DATE

24. DISPOSITION COMPLETED
A C Ashworth, NAME — 7-24-79 DATE

25. DISPOSITION VERIFICATION ☒ ACCEPTABLE ☐ UNACCEPTABLE
A C Ashworth, NAME — 7-24-79 DATE — REPORT OF NONCONFORMITY #

26. CORRECTIVE ACTION

838 321

FIELD PROJECT MANAGER — DATE

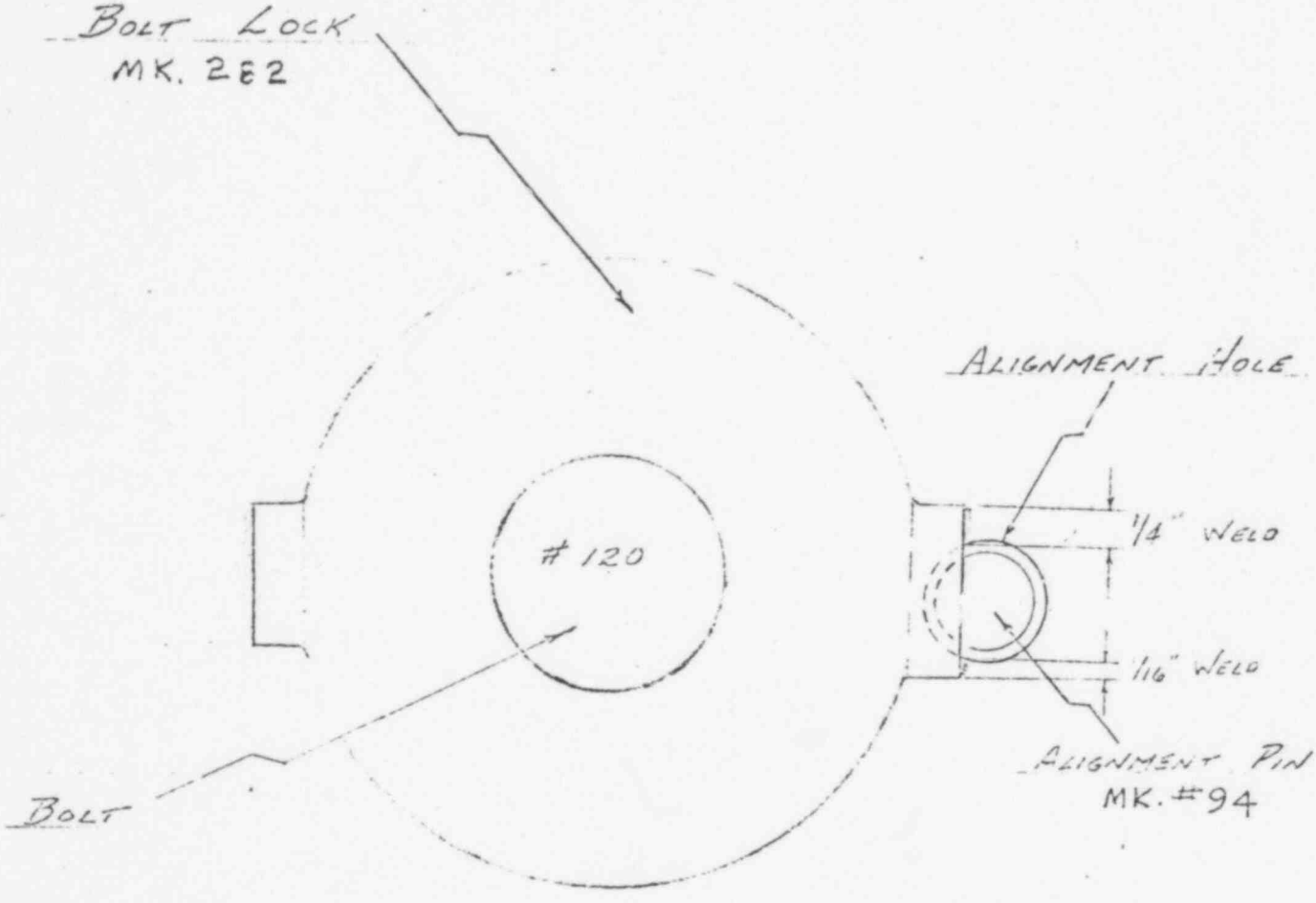
27. NONCONFORMITY CLOSED
R W Shope — FIELD QUALITY CONTROL SUPV. — 7-24-79 DATE

SEQUENTIAL NUMBER № 1611

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

REPORT OF NONCONFORMITY

JOB NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL 238	2	6-20-79	1614

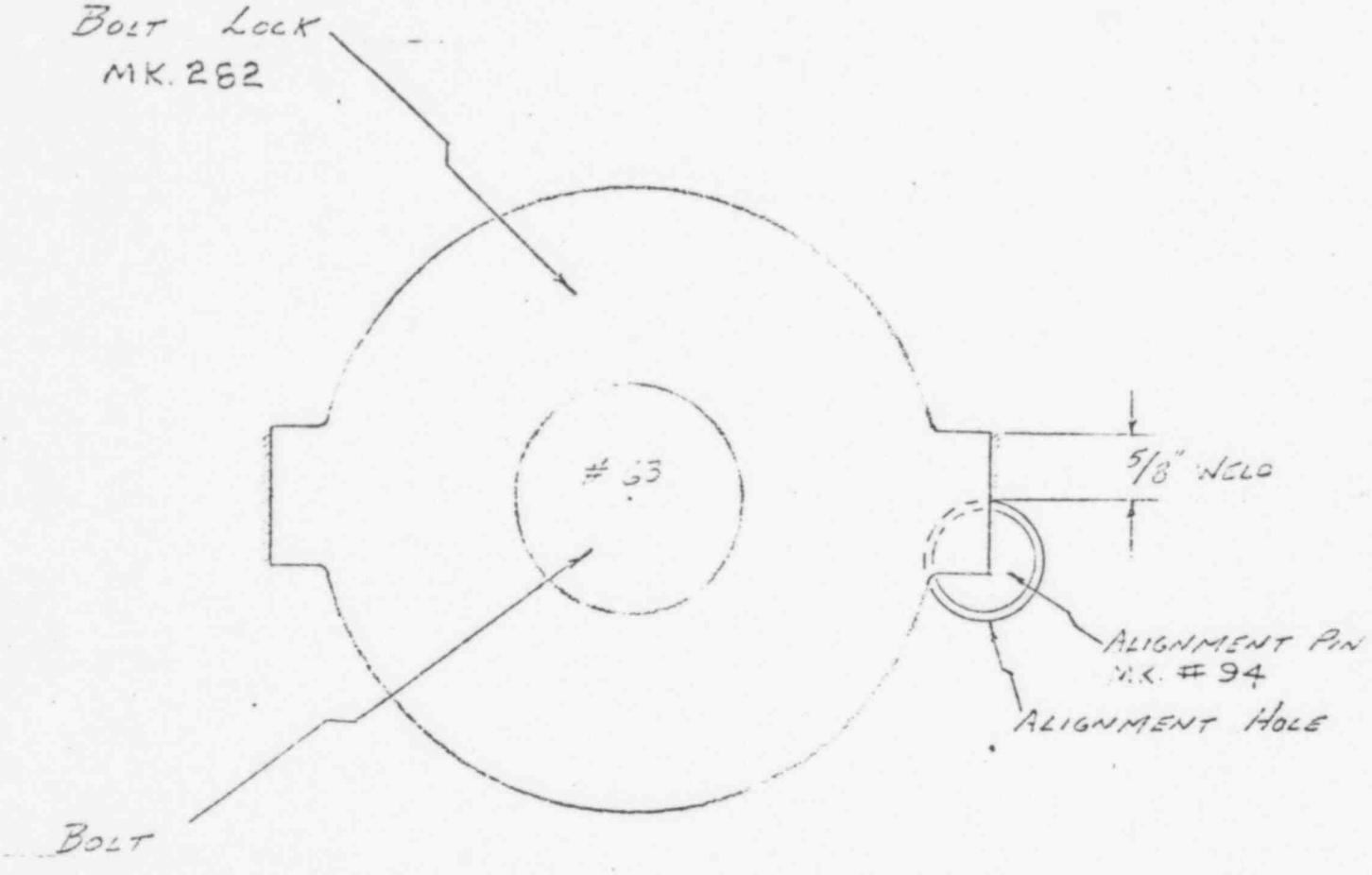


POOR ORIGINAL

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

REPORT OF NONCONFORMITY

JOB NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL 233	2	6-20-79	1614

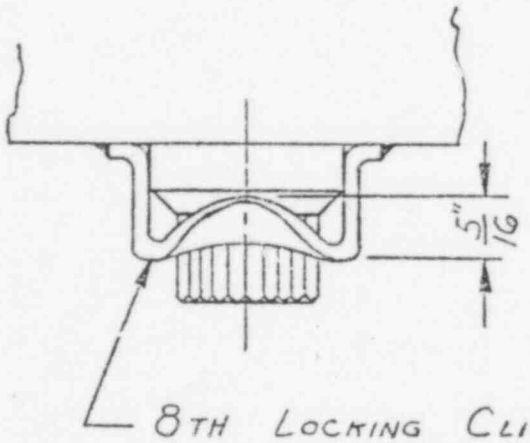


POOR ORIGINAL

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

REPORT OF NONCONFORMITY

JOB NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL 238	2	6-20-79	1614

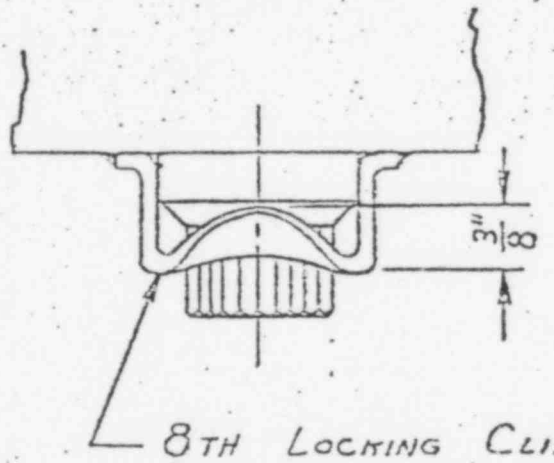


8TH LOCKING CLIP COUNTER CLOCKWISE FROM "Y" AXIS
MK. 383

POOR ORIGINAL

REPORT OF NONCONFORMITY

B NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL 238	2	6-20-79	1614



8TH LOCKING CLIP
CLOCKWISE FROM "Y" AXIS
MK. 382

POOR ORIGINAL

PROBLEM REPORT

BABCOCK & WILCOX

CUSTOMER	ORIGINATOR DATE	DOC. ID.	CONT. NO.	SPR NO.	REV. NO.
Consumers Power Company	H.A.Guetling 7-5-79	13 -	0013	46	0
VENDOR	P.A. NO.	PART NO./TASK NO.	GROUP NO.	SEQ. NO.	
B&W Barberton, Ohio	620-0013-60	60	01	001	
TITLE (MAX 30 CHARACTERS)		PROBLEM CONTACT			
Locking Clips & Tabs - Internals		H. A. Guetling			

PROBLEM IDENTIFICATION

DESCRIPTION OF PROBLEM:

(2) MK 282 locking clip tabs placed partially over alignment holes.
(See NCR sketch P. 2 & 3 of 5)

(2) MK 383 locking clips bent.
(See NCR sketch p. 4 & 5 of 5)

B&WCC NCR #1614

STATUS-ACTION TO DATE, INCLUDING PERSONS CONTACTED:

D. L. Rice - Lynchburg

FURTHER ACTION RECOMMENDED BY SITE PERSONNEL:

Accept as is.
Vendor to approve disposition.

RESOLUTION

RESOLUTION: THE MK. 282 LOCKING CLIP TABS, WELDED AS SHOWN IN B&W CL NCR 1614, ARE ACCEPTABLE "AS IS". THE MK 383 LOCKING CLIPS SHOULD BE VISUALLY INSPECTED FOR DAMAGE SUCH AS CRACKING AND ACCEPTED "AS IS" IF NO DAMAGE IS FOUND.

PREPARED BY Norman P. Rice DATE 7-11-79

REVIEWED BY Dan Wright DATE 7-11-79

W.N. Zimmerman for Gray 0205 7/11/79

APPROVED BY C.D. Markuson DATE 7-11-79

COST CATEGORY ☐ NORM N/A ☐ OTHER

FIELD CHANGE REQ ☐ YES ☒ NO

F.C.A. NO. OR- NA

SIGNIF. DEFICIENCY ☐ YES ☒ NO

COMPLETION

SITE COMPLETION REPORT:

DEVIATIONS: ☐ NONE SPR REV NO. ☐

DATE COMPLETED:

COMPLETED BY DATE

POOR ORIGINAL

Start Up System: O-EAA

Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

PAGE 1 OF 2

6. PROJECT NAME: Midland	7. NONCONFORMING PART NO: N/A	8. NONCONFORMING PART NAME: Swagelok Installation	1. NCR SERIAL NO: M-01-4-9-065
			2. DATE: 7-6-79
9. SERIAL NUMBER: N/A	10. ORG. CONCERNED NO: BPCo Construction	11. AREA/LOC. OF NC: SWIS	3. DATE OF DET: N/A
			4. FILE NO: 16.3.4

12. "AS IS" NONCONFORMING CONDITION (DESCRIBE WHAT IS WRONG):

Inst. Tube on OPT-1826-F1 and OPT-1826-F2 at the Service Water Intake Structure is installed with Swagelok Fittings per their drawings, FSK-J10-0038 and FSK-J10-0039 respectively.

Procedure FII-1.140, "Installation of Swagelok Flameless Tube Fittings" is not an approved procedure to date.

NOTE: BPCo QA stopped work on Swagelok Fittings 7-6-79

5. DISTRIBUTION
ACTION COPY: LADreisbach

DEPT COPY: WLBarclay, WRBird, TCCooke, RHermeston, SHHowell, GSKeeley, BWMarguglio, JMilandin, DBMiller, JFNewgen, DATargart

13. QA RECOMMENDATION FOR PART 21:
1. Expedite FII-1.140 approval
2. Inspect & evaluate existing installations to assure their quality and integrity

DESIGN/PROJECT ENG. DISPOSITION REQUIRED: [ ] NOT REQUIRED: [X]

14. HOLD TAGS APPLIED: YES [ ] NO [X] TAG(S), LOCATION & DATE OF HOLD TAGS APPLIED:

15. IS PROCESS QA REQUIRED: YES [X] NO [ ] IF NO, ENTER JUSTIFICATION BELOW:

16. DOES NC AFFECT 4-UNIT 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: N/A

20. IF YES, WHO MADE REPORT TO NRC: N/A

21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A

22. NCR GENERATED BY: M. L. Scott

23. VERIFIED ACTUAL REQUIRED BY: 7-20-79 TO ESTABLISH QA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: DRKeating 7-6-79

25. PART QA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

26. DESIGN/PROJECT ENG. ACTIV. DISP.:	27. PQA ENG. ACTIV. DISP.:	28. PROCUREMENT ENG. ACTIV. DISP.:	29. ENG. OF ORG. RESP. FOR QA:
30. FAB/CONST. ENG. ACTIV. DISP.:	31. ENG. OF TEST PROG ACTIVITIES:	32. FOR MATLS MGT - FLD. SUPT. ENG. ACTIV. DISP.:	33. QA ACTIV. ENG. TO DISPOSITION:

34. METHOD OF PART QA RECTIFICATION:

35. ENG. OF ORG. RESP. FOR PART 21 A RECTIFYING DISPOSITION:	36. ENG. VERIFYING PART 21 A HOLD TAG REMOVAL DATE:	37. NCR CLOSED BY: DATE: (PART 21 PROCESS QA COMPLETE)

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Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

M-01-4-9-065

NCR SERIAL NUMBER:

38. QA ASSESSMENT OF ROOT CAUSE(S):

Awaiting further data

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA INITIATED FROM:

DESIGN ☐ FABRICATION ☐ CONSTRUCTION ☒ PROCUREMENT ☐ INSPECTION ☐

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

Awaiting further data

42. PROCESS CA TO BE TAKEN BY ORG(S) CITED IN BLOCK 41 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

POOR ORIGINAL

44. QA ORG. RESPONSIBLE FOR PROCESS CA VERIFICATION COMPLETION:

45. PROCESS CA COMPLETION VERIFIED ON DATE:

8

Start Up System: 1-GJA

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-01-4-9-066
Midland	NA	Hanger/Support	2. DATE: 7-10-79
9. SERIAL NUMBER: FSK-M-2HBC-196-2-H2	10. QUAL. CONDITION NO: BPCo - QC	11. AREA/LOC. OF NC: Battery Room 2VM-40A	3. DATE OF REV: NA
			4. FILE NO: 16.3.6

12. "AS IS" NONCONFORMANCE CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

Review of QCIR for hanger FSK-M-2HBC-195-2-H2 indicates that no entries have been made on the QCIR to date.

a) The hanger is essentially complete and required prerequisite and in-process inspection in accordance with QCI 7220/P-2.10. Item #6 of subject drawing as installed, measures ½" x 6" x 12". Subject drawing indicates item #6 to be ½" x 9" x 9". Lack of prerequisite or in-process hanger inspections (P-2.10) was previously documented on NCR M-01-4-9-033. The corrective action, as submitted in BPCo letter (838 Action Item: 621) LADreisbach to JLCorley apparently was ineffective.

5. DISTRIBUTION

ACTION COPY:

LADreisbach

INFO COPY:

WLBarclay	DBMiller
WRBird	WGMoring
TCCooke	JFNewgen
JLCorley	RASimanek
RHermeston	DATaggart
SHHowell	
DRJohnson	
GSKeeley	
BWMarguglio	
PAMartinez	
JMilandin	

13. QA RECOMMENDATION FOR PART QA:

1. Provide inspections for subject hangers. (complete)
2. Review similar installations for similar problems and document.
3. Devise and implement program to prevent recurrence.

A. DESIGN/PROJECT ENG. DISPOSITION REQUIRED [ ] NOT REQUIRED [X]

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 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 INITIATED BY: [signature] 7-11-79

23. WRITTEN REPLY REQUIRED BY: 7-25-79 TO ESTABLISH QA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: DRKeating 7-11-79

25. PART QA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

POOR ORIGINAL

26. DESIGN/PROJECT RES. AUTH. DISP.:	27. PMO RES. AUTH. DISP.:	28. PROCUREMENT RES. AUTH. DISP.:	29. RES. OF DISP. REQ. FOR Q/A:
NA	NA	NA	
30. FAB/CONST. RES. AUTH. DISP. DISP.:	31. RES. OF TEST PROOF ACTION, CONDITION:	32. FOR VALVE NCR - PLT. SUPT. RES. AUTH. DISP.:	33. QA AUTH. RES. TO DISPOSITION DISP.:
NA	NA	NA	

34. METHOD OF PART QA VERIFICATION:

35. RES. OF DISP. REQ. FOR PART QA SATISFACTORY COMPLETION:	36. RES. VERIFYING PART QA & HOLD TAG REMOVAL DATE:	37. NCR CLOSED BY/DATE: (PART & PROCESS QA COMPLETE)

Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

NCR SERIAL NUMBER: _____

38. QA ASSESSMENT OF ROOT CAUSE(S):

Unknown, to be determined.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA RESULTED FROM:

DESIGN [ ] FABRICATION [ ] CONSTRUCTION [ ] PROCUREMENT [ ] INSPECTION [X]

OTHER _____

41. QA RECOMMENDATION FOR PROCESS CA:

Unknown, to be determined.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

POOR ORIGINAL

44. SIG. OF RESP. RESPONSIBLE FOR PROCESS CA DEMONSTRATING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

Start-Up System 1-BGA
2-AEA

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: M-01-9-9-067
Midland 1 & 2	N/A	N/A	2. DATE: July 17, 1979
9. SERIAL NUMBER:	10. ORG. COMMITTING NC:	11. AREA/LOC. OF NC:	3. DATE OF REV: NA
N/A	Bechtel Construction	See Block No. 12	4. FILE NO: 16.4.3.4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

Specification M-204 Para 6.2 states in part "Valves, pumps and vessels shall have dustproof and waterproof covers over all openings." Contrary to the above, Valve No. OHCC-74-2, P.O.#7220-M-134 AC Item 2.0, ID #1HCC-PL-IXV-0319 AB-PL has the inlet and outlet uncovered and sand and dirt inside. Additionally the pneumetic supply line is open and the pressure gage is broken. This valve is to be in line 1HCC-74 and is to be valve 025"Vent from letdown post filter." Further, specification M-204 para 6.3.1 states in part, "Pipe end weld preparations shall be protected with plastic, wood or wood and aluminum." Also para 6.4 states in part, "During installation of piping and equipment, all openings (Contd on second sheet)

5. DISTRIBUTION
ACTION COPY: LADreisbach

INFO COPY:

WLBarclay	DBMiller
WRBird	WGMoring
TCCooke	JFNewgen
JLCorley	RASimanek
RHermeston	DATaggert
SHHowell	
DRJohnson	
GSKeeley	
BWMarguglio	
PAMartinez	
JMilandin	

13. QA RECOMMENDATION FOR PART CA:

1. Take immediate action to clean the valve and pipe and cover all valve and pipe openings.
2. Repair or replace broken pneumatic gage or submit as a punchlist item.
3. Survey all staging areas for similar conditions.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [ ] NOT REQUIRED [XX]

14. HOLD TAGS APPLIED: YES [X] NO [ ] NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: One on valve stored on pallet No. of R/B #2 & E of railway Bay Aux. Bldg. One on pipe at El 594' of R/B #2 near base of No Steam Generator.

15. IS PROOF CA 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: N/A
20. IF YES, WHO MADE REPORT TO NRC: N/A	21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A

22. NCR ORIGINATED BY:	23. WRITTEN REPLY REQUIRED BY:	24. SUPERVISOR'S SIGNATURE/DATE:
Donald K. Martin	July 30, 1979 TO ESTABLISH CA COMPLETION DATE	DR Keating 7-17-79

25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

POOR ORIGINAL

26. DESIGN/PROJECT SIG. AUTH. DISP.:	27. PMO SIG. AUTH. DISP.:	28. PROCUREMENT SIG. COMC. DISP.:	29. SIG. OF ORG. RESP. FOR C/A:
30. FAB/CONST. SIG. AUTH. IMP. DISP.:	31. SIG. OF TEST GROUP ACKNOW. CONDITION:	32. FOR MAJOR MOD - PLT. SUPT. SIG. AUTH. DISP.:	33. QA AUTH. SIG. TO IMPLEMENT DISP.:

34. METHOD OF PART CA VERIFICATION:

838 331

35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION:	36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE:	37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)

Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

NCR SERIAL NUMBER: M-01-9-9-067

38. QA ASSESSMENT OF ROOT CAUSE(S):

Lack of implementation of referenced Specification requirements due to lack of attention to detail by cognizant personnel relative to the covering of openings and housekeeping practices.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA REQUIRED FROM:

DESIGN ☐ FABRICATION ☐ CONSTRUCTION ☒ PROCUREMENT ☐ INSPECTION ☐

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

1. Instruct cognizant personnel in the Specification and Field Procedure requirements relative to cleanliness of components and housekeeping practices.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

POOR ORIGINAL

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

Nonconformance Report (Contd)
NCR Serial No. - M-01-9-9-067
File No. 16.4.3.4

12. (Contd)

for pipe connections, all access openings and all open ended pipes shall be covered with dustproof covers whenever work is not actually in progress." Contrary to these requirements spool number 2ELB-3-5-639-13-3 is laying in R/B #2 at elevation 594' near the base of the north steam generator and has no end coverings or weld prep protection and contains dust and debris.

PGA PHC
Start Up System: PBA NGE
PEA

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-01-5-9-068
Midland 1 & 2	See Attached Sheet	Electrical Cables	2. DATE: 7-17-79
9. SERIAL NUMBER: N/A	10. ORG. COMMITTING NC: Bechtel Construction	11. AREA/LOC. OF NC: Panel 1C15	3. DATE OF REV: NA
			4. FILE NO: 16.3.4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

Bechtel termination procedure FPE 7.000, Rev. 4 gives criteria for stripping back, supporting and terminating electrical cables. Sub-para. 6.6 states "stripping back of the outer jacket of a cable shall not be more than necessary for the individual conductors to reach their connection point." Sub-para 6.7, states in part, "cable supports or harnesses shall be installed where necessary to ensure that no load is applied to the points of termination. Contrary to the above, the cables listed in block 7 have been stripped back more than necessary in violation of paragraph 6.6 and the cable support is insufficient to prevent conductors from becoming load bearing at the point of termination in violation of para.6.7.

5. DISTRIBUTION

ACTION COPY:
LADreisbach

INFO COPY:

WLBarclay	JFNewgen
WRBird	RASimanek
TCCooke	DATaggart
JLCorley	
RHermeston	
SHHowell	
DRJohnson	
GSKeeley	
BWMarguglio	
JMilandin	
DRMiller	

13. QA RECOMMENDATION FOR PART DA:

Correct the installation of the above cables so that they meet the requirements of FPE 7.000 Rev. 4.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [X] NOT REQUIRED [ ]

14. HOLD TAGS APPLIED: YES [ ] NO [X] NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED:

15. IS PROCESS CA 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: N/A
20. IF YES, WHO MADE REPORT TO NRC: N/A	21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A
22. NCR ORIGINATED BY: D.Nott D. Nott	23. WRITTEN REPLY REQUIRED BY: 7/23/79 TO ESTABLISH CA COMPLETION DATE
	24. SUPERVISOR'S SIGNATURE/DATE: Paul R Kuper 7-18-79

25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

POOR ORIGINAL

26. DESIGN/PROJECT SIG. AUTH. DISP.:	27. PRO SIG. AUTH. DISP.: N/A	28. PROCUREMENT SIG. COMP. DISP.: N/A	29. SIG. OF ORG. RESP. FOR C/A:
30. FAB/CONST. SIG. AUTH. DEP. DISP.:	31. SIG. OF TEST (FOUR ACKNOW. CONDITION: N/A	32. FOR MAJOR MOD - PLT. SUPT. SIG. AUTH. DISP.: N/a	33. QA AUTH. SIG. TO IMPLEMENT DISP.:

34. METHOD OF PART CA VERIFICATION:

35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION:	36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE:	37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)

Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

NCR SERIAL NUMBER: M-01-5-9-068.

38. QA ASSESSMENT OF ROOT CAUSE(S):

Unknown to be determined

39. ACTUAL ROOT CAUSE(S) IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA REQUIRED FROM:

DESIGN [ ] FABRICATION [ ] CONSTRUCTION [X] PROCUREMENT [ ] INSPECTION [X]

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

Unknown to be determined

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

POOR ORIGINAL

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

Block 7 - Nonconforming Part No.

1AA0506F, ~~1AA1701D~~, 1AA0506G, 1AB5501F, 1AA0505L, 1AA0505K, 1AA0501E and 1AA0502N.

Start Up System: Indeterminate

Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

PAGE 1 OF 4

6. PROJECT NAME:	7. PLANT/CENTRAL PART NO:	8. NONCONFORMING PART NAME:	1. NCR SERIAL NO: M-01-2-79-069
Midland 1 & 2	NA	Native Pit Run Sand (Yellow Sand)	2. DATE: 7-19-79
9. MODEL NUMBER:	10. ORG. CONCERNED (C):	11. AREA/LOC. OF NC:	3. DATE OF REV: NA
NA	Bechtel FE & QC	Sand Stockpile South of Main Guardhouse	4. FILE NO: 16.3.4, 16.3.6

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

1. Section 8.2.3 of Specification C-211, Revision 6 dated 5-18-79 states in part, "...the yellow sand shall be 100% passing the ½ inch sieve and a maximum 10% passing the number 200 sieve". Section 8.2.3 of Specification C-211, Revision 7, dated 6-27-79 states in part, "...this sand shall be 100% passing the 3/4 inch sieve and a maximum of 12% passing the number 200 sieve". Contrary to these requirements, the Purchase Order #7220-F-18367 still reads, "Sand to be easily compactible with 100% passing the #4 sieve and 85% passing the #40 sieve".

(Contd on Page 3)

5. DISTRIBUTION

ACTION COPY:

LADreisbach

INFO COPY:

WLBarclay	DBMiller
WRBird	WMoring
TCCooke	JFNewgen
JLCorley	RASimanek
RHerneston	DATaggart
SHHowell	NTheil
DRJohnson	JWanzeck
GSKeeley	GKrzisnik
BWMarguglio	
PAMartinez	
IMilandin	

13. CA RECOMMENDATION FOR PART CA:

1. Purchase Order #7220-F-18367 should be brought in line with Specification C-211, Revision 7 dated 6-27-79.

(Cont'd on Page 4)

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [X] NOT REQUIRED [ ]

14. HOLD TAGS APPLIED: YES [X] NO [ ] NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: Four (4) Bechtel Hold Tags applied to sand stockpile. Remarks on Tags: CPCo NCR - Sand not to be used for "D" listed backfill.

15. IS PROCESS CA 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: Robert M. Kheim / Donald E. Horn

23. WRITTEN REPLY REQUIRED BY: 8-4-79 TO ESTABLISH CA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: Donald E. Horn / 7-20-79

25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

POOR ORIGINAL

26. DESIGN/PROJECT SUB. AUTH. DISP.:	27. PRO SUB. AUTH. DISP.:	28. PROCUREMENT SUB. CONC. DISP.: NA	29. SUB. OF ORG. RESP. FOR C/A:
30. FAB/CONST. SUB. AUTH. DEP. DISP.:	31. SUB. OF TEST GROUP ACTION CONCURRENCE: NA	32. FOR MAJOR MOD - PLT. SUPT. SUB. AUTH. DISP.: NA	33. QA AUTH. SUB. TO DISPOSITION DISP.:

34. METHOD OF PART CA VERIFICATION:

838 337

35. SUB. OF ORG. RESP. FOR PART C/A SATISFACTORY COMPLETION:	36. SUB. VERIFYING PART C/A & HOLD TAG REMOVAL DATE:	37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)

Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

M-01-2-9-069
NCR SERIAL NUMBER:

39. CA ASSESSMENT OF ROOT CAUSE(S):

Unknown, to be determined.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA REQUIRED FROM:

DESIGN [ ] VERIFICATION [ ] CONSTRUCTION [X] PROCUREMENT [ ] INSPECTION [X]

OTHER

41. CA RECOMMENDATION FOR PROCESS CA:

Unknown, to be determined.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

POOR ORIGINAL

838 338

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SATISFACTORY COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

NCR SERIAL NO: M-01-2-9-069
DATE: 7-19-79
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)

2. FPG-8.000, Rev 3 dated 11-2-78, Field Material Requisitions Section 3.3 states, "The originator shall clearly identify in the description block of the FMR whether the item is 'Q' listed or non-'Q'. Each FMR shall be exclusively 'Q' or non-'Q'." FMR Req 4198 Rev 9 dated 12-1-78, lists native pit run sand as non-Q. Specification C-211 is a "Q" specification, therefore, the native pit run sand should have been purchased "Q".

3. Section 8.7.2 of Specification C-211, Revision 6 dated 5-18-79 in regards to testing of yellow sand, and Section 8.8.2 of Specification C-211, Revision 7 dated 6-27-79 regarding sand from offsite sources, state in reference to these sands, "...shall be visually inspected and tested in accordance with ASTM D 422 by Contractor's Soil Testing Representative once each day when material is being delivered". Contrary to this requirement, there was no inspection or testing of native pit run sand for the following days and deliveries:

Date of Delivery	Material on Fischer Invoice Number	Daily Total (Tons of Sand)
6-27-79	G58802, G58804, G58807, G58809, G58810, G58812, G58814, G58816, G58894, G58897, G58900	597.75
6-28-79	G58819, G58820, G58826, G58827, G58836, G58837, G58848, G58951, G58955	476.55
6-29-79	G58952, G58958, G58959, G58967, G58968, G58972, G58974, G58979, G58980, G58982, G58989	598.5
7-02-79	G58904, G58908, G58915, G58922, G58925, G58929	331.85
7-03-79	G58935	59.55
7-09-79	G59159, G59179, G59184, G59191, G59202	269.90
7-10-79	G59213, G59216	107.50

NCR SERIAL NO: M-01-2-9-069
DATE: 7-19-79
DATE OF REV: NA
FILE NO: 16.3.4, 16.3.6

13. QA RECOMMENDATION FOR PART CA:

(Contd from Page 1)

2. Purchase Order #7220-F-18367 and FMR Req CY4198, should be revised to identify native pit run sand as Q-listed material, and the Procedure FPG-8.000 Rev 3, Section 3.3 should be implemented.

3. Check records for any deliveries, other than ones listed in Item 12, not inspected or tested since daily testing was required. Document dates of deliveries and location of placement. Get Project Engineering's disposition on this nonconforming condition and others found in review.

0

Start Up System: 0-EAA

Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

PAGE 1 OF 2

6. PROJECT NAME: Midland	7. NONCONFORMING PART NO: NA	8. NONCONFORMING PART NAME: Lock Washers (use)	1. NCR SERIAL NO: M-01-4-9-070
9. SERIAL NUMBER: NA	10. ORG. CONCERNED: BPCo Construction	11. AREA/LOC. OF NC: Service Water Bldg	2. DATE: 7-18-79
			3. DATE OF REV: NA
			4. ITEM NO: 16.3.4

12. AS IT NONCONFORMING CONDITION VERSUS AS REQUIRED CONDITION WITH REFS:

FSK-JO-0008(Q) Rev 1, "Std. Assembly Details for Transmitters on Standard Floor Mounted Stands" calls for manifold mountings, "with (4) ¼" dia 20 UNC x 2" Lg hex bolts with flat washers".

Contrary to the above, the following instruments have been mounted using flat washers and lock washers, split ring type:

1) OPDIT - 1830
2) OPI - 1825
3) OPI - 1821
4) OPDIT - 1827
5) OPI - 1822

5. DISTRIBUTION
ACTION COPY: LADreisbach

INFO COPY:

WLBarclay	JMilandin
WRBird	DBMiller
TCCooke	WGMoring
JLCorley	JFNewgen
RHermeston	RASimanek
SHHowell	DATaggart
DRJohnson	
GSKeeley	
BWMarguglio	
PAMartinez	

13. CA RECOMMENDATION FOR PART CA:

1. Remove split ring washers from the mounting assembly.
2. Inspect fill installed manifolds for improper installations.
3. Obtain proper installation requirements of the bolt and washer assemblies from DESIGN/PROJECT ENG. DISPOSITION REQUIRED [X] Project NOT REQUIRED [ ] Engineering to assure proper attachment of the manifolds to the support stands.

14. HOLD TAGS APPLIED: YES [ ] NO [X] TAGGED, LOCATION & DATE OF REMOVAL TAGS APPLIED: NA

15. IS PROCESS CA REQUIRED: YES [X] NO [ ] IF NO, GIVE 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: [signature]

23. RESPONSE REPLY REQUIRED BY: 8-1-79
TO ESTABLISH CA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: DRKeating 7-18-79

25. PART CA DISPOSITION, IMPLEMENTATION & COMPLETION DATE:

POOR ORIGINAL

26. DESIGN/PROJECT ENG. ACTN. DISP.:	27. PRO ENG. ACTN. DISP.:	28. PROCUREMENT ENG. DISP.:	29. ENG. OF ORG. REQ. FOR N/A:
30. PAR/CONST. ENG. ACTN. DISP.:	31. ENG. IF NOT PROOF ACTION, CONDITION:	32. FOR VALVE NCR - PLT. ENGR. ENG. ACTN. DISP.:	33. QA ACTN. ENG. TO DOCUMENT DISP.:

34. METHOD OF PART CA VERIFICATION:

838 341

35. ENG. IF ORG. REQ. FOR PART CA SATISFACTORY COMPLETION:	36. ENG. VERIFICATION PART C/A & HOLD TAG REMOVAL DATE:	37. QA CLOSES NCR/DATE: (PART A PROCESS CA COMPLETE)

Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT
M-01-4-9-070
NCR SERIAL NUMBER: _____
PAGE 2 OF 2

38. QA ASSESSMENT OF ROOT CAUSE(S):

Unauthorized use of lock washers on Q-hardware.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA RESULTED FROM:

DESIGN ☐ FABRICATION ☐ CONSTRUCTION ☒ PROCUREMENT ☐ INSPECTION ☐

OTHER: _____

41. QA RECOMMENDATION FOR PROCESS CA:

Take action to avoid further occurrence of improper manifold installation.

42. PROCESS CA TO BE TAKEN BY ORG(S) CITED IN BLOCK 41 & DATE OF COMPLETION:

POOR ORIGINAL

43. METHOD OF PROCESS CA VERIFICATION:

838 342

44. QA, IF REQ., RESPONSIBLE FOR PROCESS CA SATISFACTORY COMPLETION:

45. PROCESS CA COMPLETION VERIFIED ON DATE:

Start Up System: 1-GJA

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: M-01-4-9-071
Midland	NA	Socket Welds	2. DATE: 7-19-79
9. SERIAL NUMBER: NA	10. QAC COMMITMENT NO: BPCo QC	11. AREA/LOC. OF NC: Site Wide	3. DATE OF REV: NA
			4. FILE NO: 16.3.6

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION (CLEAR TEXT):

1. An informal QC reference document entitled "Fillet Weld Sizes for Socket Welds per ASME Code 2" to ½"," and used for inspection of socket welded fittings (Sch 80, 1½" NPS) does not conform to ASME Code requirements. Socket weld leg length was inspected to 3/16" (.1875).
   a) Using information provided on Figure ND-3673.2(b)-3, the leg length should be 7/32" (.218). Socket welds 24 and 25 (1HBC-196-2) were inspected and accepted by QC to the above incorrect criteria.

(Contd on Page 3)

5. DISTRIBUTION

ACTION COPY:

LADreisbach

INFO COPY:

WLBarclay	DBMiller
WRBird	WGMoring
TCCooke	JFNewgen
JLCorley	RASimanek
RHermeston	DATaggart
SHHowell	
DRJohnson	
GSKeeley	
BWMarguglio	
PAMartinez	
JMilandin	

13. QA RECOMMENDATION FOR PART 21:

1. Upgrade specific welds and inspections to cause welds 24 & 25 to conform to the code.
2. Correct flange and fitting socket weld inspection requirements to conform to ASME.

(Contd on Page 3)

DESIGN/PROJECT ENG. DISPOSITION REQUIRED: [ ] NOT REQUIRED [X]

14. HOLD TAGS APPLIED: YES [ ] NO [X] NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: NA

15. IS PROCESS CA 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 INITIATED BY: W. Howell 7-19-79

23. WRITTEN REPLY REQUIRED BY: 7-30-79
TO ESTABLISH CA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: D.F.Keating 7-19-79

25. PART CA DISPOSITION, VERIFICATION & COMPLETION DATE:

POOR ORIGINAL

26. DESIGN/PROJECT SIG. AUTH. DISP.:	27. PQC SIG. AUTH. DISP.:	28. PROCUREMENT SIG. AUTH. DISP.:	29. SIG. OF ENG. REP. FOR T/A:
	NA	NA	
30. FAB/CONST. SIG. AUTH. DISP.:	31. SIG. IF TEST GROUP ACCEPT. CONDITION:	32. FOR MAJOR MOD - FOR. SUPT. SIG. AUTH. DISP.:	33. QA AUTH. SIG. TO IMPLEMENT DISP.:
NA	NA	NA	

34. METHOD OF PART CA VERIFICATION:

838 343

35. SIG. IF ENG. REP. FOR PART 21A CLOSEOUT/COMPLETION:	36. SIG. VERIFYING PART 21A & HOLD TAG REMOVAL DATE:	37. NCR CLOSED BY: DATE: (PART & PROCESS CA COMPLETE)

Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

M-01-4-9-071

38. QA ASSESSMENT OF ROOT CAUSE(S):

Unknown, to be determined.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY CRG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA ORIGINATED FROM:

DESIGN [ ] FABRICATION [ ] CONSTRUCTION [ ] PROCUREMENT [ ] INSPECTION [X]

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

Unknown, to be determined.

42. PROCESS CA TO BE TAKEN BY CRG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

POOR ORIGINAL

43. METHOD OF PROCESS CA VERIFICATION:

838 344

44. SIG. OF CRG. RESPONSIBLE FOR PROCESS CA SATISFACTORY COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

NCR SERIAL NO: M-01-4-9-071
DATE: 7-19-79
DATE OF REV: NA
FILE NO: 16.3.5

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Contd from Page 1)

2. The above QC reference criteria used for inspection of socket welded flanges does not conform to ASME Code requirements as reflected on Figure ND-3673.2(b)-3.

   a) The referenced Figure contains welded fitting and flange information. Flanges are inspected by QC using the criteria established for fittings vs flanges.

13. QA RECOMMENDATION FOR PART CA:

(Contd from Page 1)

3. Review all socket weld inspection requirements for 2" and under pipe and fittings.

4. For inspection requirments that are determined to be incorrect, as a result of #2 above, reinspect all affected fittings/flanges to the correct criteria and document same.

5. Provide the necessary corrective action to upgrade welds and inspections as a result of #4 above and document.

Start Up System: OECA

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-01-4-9-072
Midland 1 & 2	N/A	Storage/Support Brackets on Fuel Pool Gates	2. DATE: 7-25-79
9. SERIAL NUMBER: #35500 GATE #35494 GATE	10. ORG. CONTRACTING NC: Becthel QC Bechtel Construction	11. AREA/LOC. OF NC: Spent Fuel Pool Aux Bldg. 636'-659'	3. DATE OF REV: N/A
			4. FILE NO: 16.3.4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

A. WQ-1 Rev 9 para 1.3 states in part "Welders and/or welding operators qualified on tests that meet the requirements of ASME, Section IX are not qualified for the AWS Codes and vice versa, except that groove welds in plate one inch and over in thickness in accordance with ASME IX also qualify for AWS D1.1."

Contrary to the above:

1. Welders B321 (Hintz, G) does not have a properly signed form WR-1 on file to qualify welding using the P8A Rev 2 procedure. (Cont. on Page 3)

5. DISTRIBUTION

ACTION COPY:

LADriesbach

INFO COPY:

WLBarclay JMilandin
WRBird DBMiller
TCCooke JFNewgen
JLCorley RASinanek
RHermeston DATaggart
SHHowell
DRJohnson
GSKeeley
BWMarguglio
PAMartinez

13. CA RECOMMENDATION FOR PART CA:

1. Review system (program) that allows the unqualified welders to perform subject welds and develop program to prevent recurrence, and document same. (Cont. on Page 4)

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [X] NOT REQUIRED [ ]

14. HOLD TAGS APPLIED: YES [ ] NO [X] NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED:

15. IS PROCESS CA 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: N/A
20. IF YES, WHO MADE REPORT TO NRC: N/A	21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A

22. NCR ORIGINATED BY:	23. WRITTEN REPLY REQUIRED BY: 8/8/79 TO ESTABLISH CA COMPLETION DATE	24. SUPERVISOR'S SIGNATURE/DATE: DRKeating 7-25-79

25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

POOR ORIGINAL

26. DESIGN/PROJECT SIG. AUTH. DISP.:	27. PMO SIG. AUTH. DISP.:	28. PROCUREMENT SIG. AUTH. DISP.:	29. SIG. OF DES. ASSP. FOR C/A:
30. FAB/CONST. SIG. AUTH. DEP. DISP.:	31. SIG. OF TEST GROUP ACKNOW. CONDITION:	32. FOR MAJOR MOD - PLT. SUPT. SIG. AUTH. DISP.:	33. QA AUTH. SIG. TO IMPLEMENT DISP.:

34. METHOD OF PART CA VERIFICATION:

838 346

35. SIG. OF ORG. RESP. FOR PART C/A SATISFYING COMPLETION:	36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL DATE:	37. NCR CLOSED BY: DATE: (PART & PROCESS CA COMPLETE)

Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT
M-01-4-9-072
NCR SERIAL NUMBER:

38. CA ASSIGNMENT OF ROOT CAUSE(S):

Unknown, to be determined.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA REQUIRED FROM:

DESIGN ☐ FABRICATION ☐ CONSTRUCTION ☒ PROCUREMENT ☐ INSPECTION ☒

OTHER

41. CA RECOMMENDATION FOR PROCESS CA:

Unknown, to be determined.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

POOR ORIGINAL

43. METHOD OF PROCESS CA VERIFICATION:

830 347

44. SIG. OF IND. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

45. PROCESS CA VERIFIED ACCEPTABLE? YES/NO:

NCR SERIAL NO: M-01-4-9-072
DATE: 7-25-79
DATE OF REV: N/A
FILE NO: 16.3.4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

A note indicating the individual qualify welding using the P8A Rev 2 procedure with certain bends being accepted is listed on an information sheet, initialed and dated 6/29/79.

2. Welder B289 (Payne, G) does not have a properly signed form WR-1 on file to qualify welding using the P8A Rev 2 procedure. A note indicating the individual had passed the one inch plate test using P8A Rev 0 procedure with bends accpeted on an information sheet, dated 6/28/79 but not initialed.

Further welder B289 (Payne) has on file a WR-1 for procedure P8A Rev 0 dated 3/6/78 listing the process qualified using the GTAW method instead of the SMAW method as required.

3. Welder B271 (Doneth, R) does not have a properly signed form WR-1 on file to qualify welding using the P8A Rev 2 procedures for QCIR C304-1304W which requires qualification of one inch plate for AWS D1.1 work with ASME qualifications.

B. QCI 7220/W-1.00 specifies the QCE shall 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 this:

1. QCIR No. C304-1304W, page 2, indicates that qualification records for welders B284 and B289 were reviewed by QC on 7/2/79 for authorization to use procedures P8A and P8, P1-A. However, on 7/18/79, a properly signed form WR-1 was not on file to verify this for both welders.

2. QCIR No. C304-1304W had an additional welder (B271-Doneth) assigned on 7/18/79. This welder qualification record was reviewed by QC the same day for authorization to use procedures P8A and P8, P1-A. However, on 7/19/79 a properly signed form WR-1 was not on file to verify this.

C. Bechtel took immediate action to provide assurance that welders were qualified and/or stopped the welders in question from working.

NCR SERIAL NO: M-01-4-9-072
DATE: 7-25-79
DATE OF REV: N/A
FILE NO: 16.2.4

13. QA RECOMMENDATION FOR PART CA:

2. Provide proper documented evidence that welders B289 and B321 are cerified to weld using WPS P8A Rev 2 and P8, P1-A Rev 3 for AWS D1.1 work using ASME procedures which require testing on one inch plate and over.

3. Retest and/or upgrade welder B271 qualifications to include one inch plate under procedure P8A and provide proper documented evidence.

4. Review weld joints completed, and assure all weld joints completed by welders B321 and B289, are in accordance with appropriate acceptance standards.

5. Review and inspect all weld joints completed by B271 (Doneth) and provide corrective action as necessary for the welds to meet appropriate acceptance criteria.

6. Process above nonconforming conditions in accordance with para 6.5 of C-304, para 1.3 of WQ-1 and ASME Section IX, and provide documentation upon completion of all corrective action.

7. Apprise the responsible individuals of the findings in Block 12.

Start Up System: BBB

Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

PAGE 1 OF 3

6. PROJECT NAME: Midland	7. NONCONFORMING PART NO: BN04374, BN04375, BNC4376, BN04377	8. NONCONFORMING PART NAME: Pressurizer Relief/ Safety Valves	1. NCR SERIAL NO: M-03-3-0-073
9. SERIAL NUMBER: BN04373, BN04375, BN04376, BN04377	10. ORG. CONCERNED NO: B&W Construction	11. AREA/LOC. OF NC: Warehouse #1	2. DATE: 7-23-79
			3. DATE OF REV.: 7-27-79
			4. FILE NO: 16.4.4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

Four (4) pressurizer relief/safety valves were issued to [illegible] from Bechtel controlled storage and returned to the warehouse for storage. 10CFR50 Appendix B, Criterion VII Control of Purchased Material, Equipment and Services states in part, "Measures shall be established to assure that purchased material conform to the procurement documents, which includes examination of products upon deliver." Criterion XIII Handling, Storage and Shipping states in part, "Measures shall be established to control the handling,storage,shipping,cleaning and preservation of material and equipment in accordance with

5. DISTRIBUTION

ACTION COPY:

JFNewgen

INFO COPY:

WRBird DBMiller
TCCooke DATaggart
JLCorley CDThompson
RHermeston
SHHowell
GSKeeley
BWMarguglio
PAMartinez
JWLillywhite
VNAsgaonkar
AWDePatie

13. QA RECOMMENDATION FOR PART CA:

1. Issue FCP for withdrawal of valves from storage.
2. Perform receipt inspection.
3. Implement storage requirements.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [ ] NOT REQUIRED [X]

14. HOLD TAGS APPLIED: YES [ ] NO [X] NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: N/A

15. IS PROCESS CA 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: N/A

20. IF YES, WHO MADE REPORT TO NRC: N/A

21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A

22. NCR ORIGINATED BY: Howard L. Allen

23. WRITTEN REPLY REQUIRED BY: 8-6-79 TO ESTABLISH CA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: DRKeating 7-23-79

25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

POOR ORIGINAL

26. DESIGN/PROJECT SIG. AUTH. DISP.:	27. PAD SIG. AUTH. DISP.:	28. PROCUREMENT SIG. AUTH. DISP.:	29. SIG. OF ENG. RESP. FOR CA
30. FAB/CONST. SIG. AUTH. DISP.:	31. SIG. OF JOINT GROUP ACTION, CONDITION:	32. FOR MAJOR NCR - PLT. SUPT. SIG. AUTH. DISP.:	33. QA AUTH. SIG. TO IMPLEMENT DISP.:

34. METHOD OF PART CA VERIFICATION:

838 350

35. SIG. OF ENG. RESP. FOR PART C/A SATISFYING COMPLETION:	36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL, DATE:	37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)

Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

NCR SERIAL NUMBER: 11-03-3-9-073

39. QA ASSESSMENT OF ROOT CAUSE(S):

1. A policy of not routing material withdrawal documents through QC for signature.
2. Not having provisions established for returning material to storage after it has been issued and cannot be installed for some reason.
3. Not having a procedure for withdrawal of material for inspection and return to storage.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA RECOMMENDED FROM:

DESIGN [ ] FABRICATION [ ] CONSTRUCTION [X] PROCUREMENT [ ] INSPECTION [X]

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

1. Initiate change to policies and QA manuals that requires all material and equipment withdrawal documents be routed through the site Lead QC for notification prior to withdrawal of materials.
2. Develop procedures for returning material to Bechtel storage that cannot or will not be installed immediately.
3. Develop procedures for withdrawing material from storage that cannot or will not be installed immediately.

42. PROCESS CA TO BE TAKEN BY ORG(S) CITED IN BLOCK 41 & DATE OF COMPLETION:

POOR ORIGINAL

43. METHOD OF PROCESS CA VERIFICATION:

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA VERIFYING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

NCR SERIAL NO: M-03-3-9-073
DATE: 7-23-79
DATE OF REV: 7-27-79
FILE NO: 16.3.4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Cont. from Page 1)

work and inspection instructions to prevent damage and deterioration". Contrary to the above, pressurizer relief/safety valves were issued without a receipt inspection being conducted by B&W CC and having established procedures for handling and storage of equipment drawn from storage that is not scheduled for installation. Also, approved B&W Field Construction Procedures (FCP's) were not available for receiving and receipt inspection of these items when they were released from the warehouse.

K

Start Up System: Indeterminate

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: M-01-4-9-074
Midland	N/A	Expansion Anchors	2. DATE: 23 July 79
9. SERIAL NUMBER: N/A	10. QAP, CONSTRUCTION NO: Zack Q/C Zack Const.	11. AREA/LOC. OF NC: Aux. Bldg, Control Room	3. DATE OF REV: NA
			4. FILE NO: 10.3.0 16.3.4

12. "AS IS" NONCONFORMING CONDITION (CONTRAST "AS REQUIRED" CONDITION WITH REF'S):

1). SCN No. C-305-9002 Requires, "Each stud anchor shall be marked/coded to provide a positive method to identify the length of the stud anchor after it has been installed." This marking/coding is to be consistant for all stud anchors used, regardless of manufacturer. (Required by Spec. M-151 (Q)) (3-May-79, P2, item 3, addendum to 3.4)
Contrary to the above, hangers installed per this specification after 3-May-79 have no such identification system to date. Hangers affected are #23 & #24 on V25,Sh.3, Rev 0 (BPCo dwg C-884, Rev 5 & C-886, Rev 3 detail # 7).

5. DISTRIBUTION

ACTION COPY:
LADreisbach

INFO COPY:

WLBarclay	DBMiller
WRBird	WMoring
TCCooke	JFNewgen
JLCorley	DATaggart
RHermeston	
SHHowell	
DRJohnson	
GSKeeley	
BWMarguglio	
PAMartinez	
JMilandin	

13. QA RECOMMENDATION FOR PART QA:

1) Establish a code/marking system and implement it.
2) Test all bolts installed to present requirements.
3) Test all drop in anchors to section 6.2.2 of C-305, (Cont.)

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [ ] NOT REQUIRED [X]

14. HOLD TAGS APPLIED: YES [ ] NO [X] NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED:

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 [V]
18. IS NC REPORTABLE PER PART 21: YES [ ] NO [V]	19. IF YES, DATE & TIME OF REPORT TO NRC: N/A
20. IF YES, WHO MADE REPORT TO NRC: N/A	21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A
22. NCR ORIGINATED BY: [signature]	23. WRITTEN REPLY REQUIRED BY: 7-Aug-79 TO ESTABLISH QA COMPLETION DATE
	24. SUPERVISOR'S SIGNATURE/DATE: DRKeating 7-23-79

25. PART QA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

POOR ORIGINAL

26. DESIGN/PROJECT ENG. ADMIN. DISP.:	27. PRO ENG. ADMIN. DISP.:	28. PROCUREMENT ENG. ADMIN. DISP.:	29. ENG. OF ORG. RESP. FOR N/A:
30. FAB/CONST. ENG. ADMIN. ENG. DISP.:	31. ENG. OF TEST GROUP ACCEPT. CONDITION:	32. FOR FAULT REC - PLT. SUPT. ENG. ADMIN. DISP.:	33. QA ADMIN. ENG. TO DOCUMENT DISP.:

34. METHOD OF PART QA VERIFICATION:

838 353

35. ENG. OF ORG. RESP. FOR PART N/A SIGNIFYING COMPLETION:	36. ENG. VERIFYING PART N/A & HOLD TAG REMOVAL DATE:	37. NCR CLOSED BY: (QA ENG.) (PART & PROCESS QA COMPLETE)

Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT
NCR SERIAL NUMBER: N-01-4-9-074

38. QA ASSESSMENT OF ROOT CAUSE(S):

Failure to implement SCN-C-305-9002 and Section 6.2 of C-305.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA INITIATED FROM:

DESIGN [ ] FABRICATION [ ] CONSTRUCTION [X] PROCUREMENT [ ] INSPECTION [X]

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

1) Review C-305 and conduct training session concerning the latest commitments of this specification.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

POOR ORIGINAL

43. METHOD OF PROCESS CA VERIFICATION:

838 354

44a. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA IMPLEMENTING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED ON DATE:

NCR SERIAL NO: M-01-4-9-074
DATE: 23-July-79
DATE OF REV: NA
FILE NO: 16.3.6 (Q/C)
16.3.4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Cont.) from Page 1)

2) Item #5, SCN 9002 (C-305) of 3-May-79 requires "Each expansion anchor shall be visually inspected for correct installation." Two allowable methods are given to accomplish this on the SCN.

Contrary to the above, there is no reference to these commitments of 100% inspection of anchor bolts, based on QCP-23, Survey Form 1 and reference to 6.1, "Testing frequency."

3) Section 6.2 of C-305 states, "Hilti-HDI drop in anchors shall be tested using the tension testing method."

Contrary to the above, Zack Company Q/C is presently testing Hilti-HDI drop in anchors using the torque testing method (6.2.1 of C-305).

13. QA RECOMMENDATION FOR PART CA:

(Cont. from Page 1)

"Tensioner Testing Method" which have been used to date.

4) a) Revise QCP-23 survey form to reflect a 100% inspection in accordance with item #5, "a" or "b", of SCN-C305-9002.

b) Add a block on Survey Form #1 to enter type of A/B used or the code/mark designator, or incorporate this into the "Bolt length and diameter" block on the form. Establishment of a code/marking system.

(NOTE 1) QCP-23, survey form #1 states: "Depth and Diameter per 4.1 App. A. I can find no such Appendix. Change this design capactiy reduction factors for loads in accordance with table 3.2 of C-305.

(NOTE 2) Zack Company is presently reviewing/revising QCP-23.

Start Up System: Indeterminate

Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

PAGE 1 OF 7

6. PROJECT NAME:	7. NONCONFORMING PART NO:	8. NONCONFORMING PART NAME:	1. NCR SERIAL NO: M-01-9-9-075
Midland 1 & 2	N/A	N/A	2. DATE: 7-25-79
9. SERIAL NUMBER: N/A	10. ORG. CONNECTION NO: Bechtel Project Engineering	11. AREA/LOC. OF NC: N/A	3. DATE OF REV: N/A
			4. FILE NO: 16.3.1

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

The FSAR requires structural welding to be accomplished in accordance with AWS D1.1. This requirement is implemented through project specification 7220-C-304 "Field Fabrication, repair and erection of structural steel and miscellaneous metal." The following paragraphs document inconsistancies between Revision 5 of the specification and AWS D1.1.

(Cont. on Page 3)

5. DISTRIBUTION

ACTION COPY:

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WRBird
RLCasteberry
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JMilandin
DBMiller
JFNewgen
ERumbaugh

13. QA RECOMMENDATION FOR PART QA:

1. Revise the specification to address the FSAR requirements.
2. Provide assurance that welds made and accepted to the criteria of specification C-304 are satisfactory.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [X] NOT REQUIRED [ ] (Cont. on Page 7)

14. HOLD TAGS APPLIED: YES [ ] NO [X] NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED:

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 NRC: N/A

20. IF YES, WHO MADE REPORT TO NRC: N/A

21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A

22. NCR INITIATED BY:

23. WRITTEN REPLY REQUIRED BY: 8/8/79
TO ESTABLISH QA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: DRKeating 7-25-79

25. PART QA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

POOR ORIGINAL

26. DESIGN/PROJECT SIG. AUTH. DISP.:	27. PMO SIG. AUTH. DISP.:	28. PROCUREMENT SIG. CONC. DISP.:	29. SIG. OF ORG. RESP. FOR N/A:
30. FAB/CONST. SIG. AUTH. DEV. DISP.:	31. SIG. OF TEST GROUP ACCEPT. CONDITION:	32. FOR MAJOR MOD - PLT. SUPT. SIG. AUTH. DISP.:	33. QA AUTH. SIG. TO IMPLEMENT DISP.:

34. METHOD OF PART QA VERIFICATION:

35. SIG. OF QAS. RESP. FOR PART QA SATISFYING COMPLETION:	36. SIG. VERIFYING PART QA & HOLD TAG REMOVAL DATE:	37. NCR CLOSED BY: DATE: (PART & PROCESS QA COMPLETE)

838 356

Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

NCR SERIAL NUMBER: _____

38. QA ASSESSMENT OF ROOT CAUSE(S):

Unknown - To be determined

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA REQUIRED FROM:

DESIGN [X] FABRICATION [ ] CONSTRUCTION [ ] PROCUREMENT [ ] INSPECTION [ ]

OTHER _____

41. QA RECOMMENDATION FOR PROCESS CA:

Unknown - To be determined

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

POOR ORIGINAL

43. METHOD OF PROCESS CA VERIFICATION:

838 357

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SELECTION/COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

NCR SERIAL NO: M-01-9-9-075
DATE: 7-25-79
DATE OF REV: N/A
FILE NO: 16.3.1

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

AWS D1.1 Para 3.3.1

Para 3.3.1 states in part "The parts to be joined by fillet welds shall be brought into as close contact as practicable. The gap between parts shall normally not exceed 3/16", except in cases involving shapes or plates 3" or greater when after straightening and in assembly the gap cannot be closed sufficiently to meet this tolerance. In such cases a maxium gap of 5/16" is acceptable provided a sealing weld or suitable backing material is used to prevent melt-through. If the separation is 1/16" or greater, the leg of the fillet weld shall be increased by the amount of the separation or the contractor shall demonstrate that the required throat thickness has been obtained."

C-304

Para 6.2 1b "Maximum overrun for either or both fillet weld legs shall not exceed +3/16" for welds up to and including 3/8" and +1/4" for welds larger than 3/8." Fillet welds larger than these require field engineering approval prior to final acceptance."

NOTE: Bechtel interprets this to allow a weld +3/16" oversize regardless of fitup. Approximately 75% of all fitup for electrical could be considered contact (i.e. not gapped).

Ex:	Weld Size Required	Bechtel Allowed
Structural (Building)	1/8"	5/16"
	1/16"	3/8"
	1/4"	7/16"
	5/16"	1/2"
	3/8"	9/16"
	7/16"	11/16"
	1/2"	3/4"

AWS D1.1 Para 3.6.1

"The faces of fillet welds may be slightly convex, flat or slightly concave as shown in Figure 3.6, Details A,B, and C with no defects as such shown in Figure 3.6, Detail D. Except at outside corner joints, the convexity shall not exceed the value of 0.1S plus 0.03 inches where S is the actual size of the fillet weld in inches. (See Figure 3.6, Detail C)"

NOTE: AWS D1.1 Fig 3.6 attached.

NCR SERIAL NO: M-01-9-9-075
DATE: 7-25-79
DATE OF REV: N/A
FILE NO: 16.3.1

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Cont. from Page 3)

C-304

Para 6.2.1c "Convexity height, rollover, and weld reinforcement may be accepted without limit."

6.3.3 Same as 6.2.1c.

6.3.1 "The weld shall meet or exceed specified size requirements. Either or both fillet weld legs may exceed the design size. Continuous welds may be accepted in place of intermittent welds. Unequal leg fillets may be accepted without limit, provided the smaller leg meets or exceeds minimum requirements."

AWS D1.1 Para 3.6.2

Para 3.6.2 states in part "In the case of butt and corner joints, the reinforcement shall not exceed 1/8 inch in height and shall have gradual transition to the plane of the base metal surface. (Fig 3.6, Detail E). They shall be free of defects as shown for butt joints in Figure 3.6 Detail F."

C-304

Para 6.2.2 "Butt welds shall be slightly convex, of uniform height, and shall be full penetration unless otherwise shown. Weld reinforcement for butt welds shall not exceed 3/16"."

6.4.9 "Butt weld profiles shall be convex." (i.e. no restrictions or limits).

AWS D1.1 Para 3.6.4

"For buildings and tubular structures undercut shall not be more than 0.01 inches deep when its direction is transverse to primary tensile stress in the part that is undercut, nor more than 1/32" for all other situations."

C-304

Para 6.2.1c "Convexity height, rollover, and weld reinforcement may be accepted without limit."

6.3.3 Same as 6.2.1c

6.4.4 Same as 6.2.1c

NCR SERIAL NO: M-01-9-9-075
DATE: 7-25-79
DATE OF REV: N/A
FILE NO: 16.3.1

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Cont. from Page 4)

AWS D1.1 Para 3.1.4

"The sizes and lengths of welds shall not be less than those specified by design requirements and detail drawings, nor shall they be substantially in excess of those requirements without approval. The location of welds shall not be changed without approval."

C-304

Para 6.2.1a "The minimum fillet weld size shall be the size specified on the drawing, and shall not underrun the size specified more than 1/16 inch for more than 10% of the weld length."

6.2.1d "Maximum underrun for fillet weld lengths shall not exceed 1/8" for end returns and 1/4" for all other welds."

6.3.1 "The weld shall meet or exceed specified size requirements. Either or both fillet weld legs may exceed the design size. Continuous welds may be accepted in place of itermittent welds. Unequal leg fillets may be accepted without limit, provided the smaller leg meets or exceeds minimum requirements."

6.3.2 "The fillet leg dimension shall not underrun the size specified by more than 1/16 inch for more than 10% of the weld length. Fillet weld sizes shall be measured to the nearest 1/16 inch."

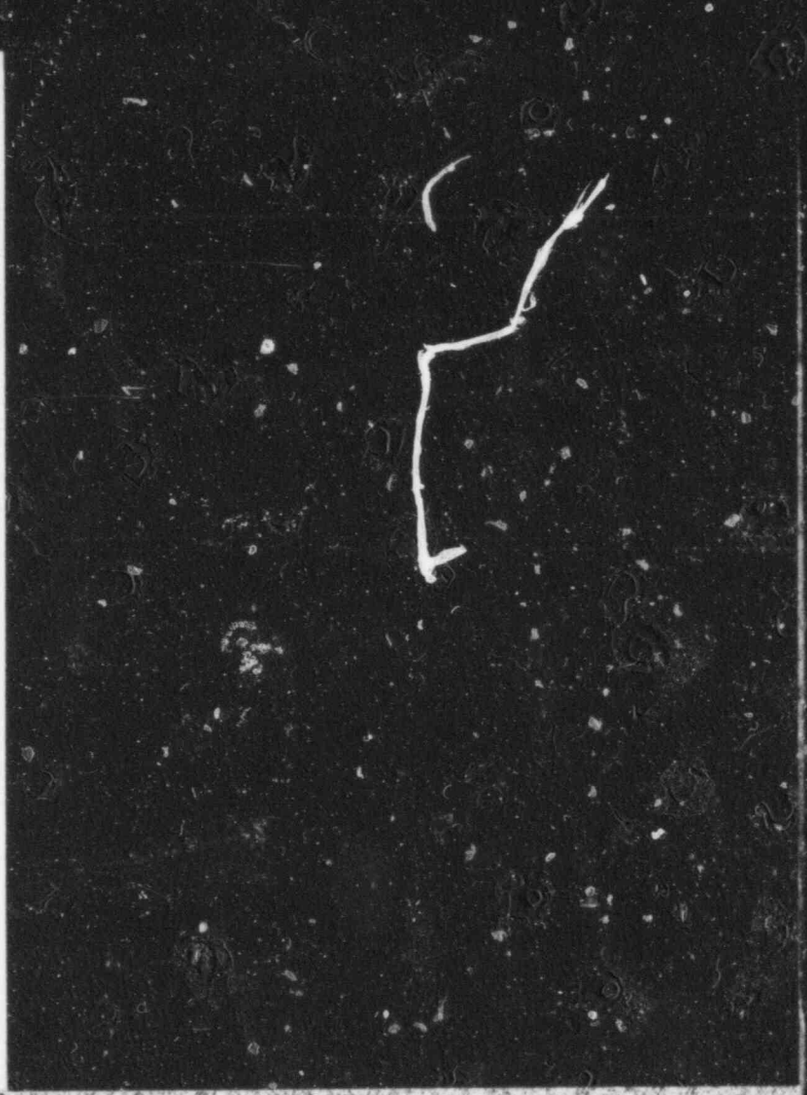
AWS D1.1 Para 8.15.1.3

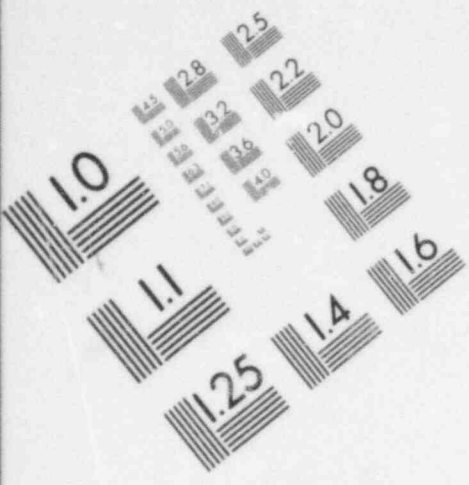
"All craters are filled to the full cross section of the welds."

C-304

Para 6.3.5 "Underfilled groove weld craters shall be accepted, provided the depth of the underfill is 1/16" or less. On multipass fillet welds, crater depths 1/16" or less shall be accepted."

POOR ORIGINAL





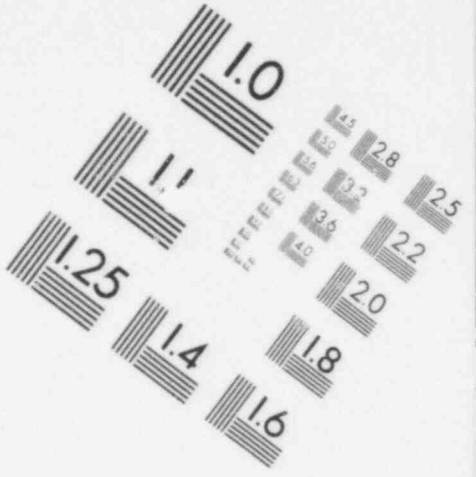
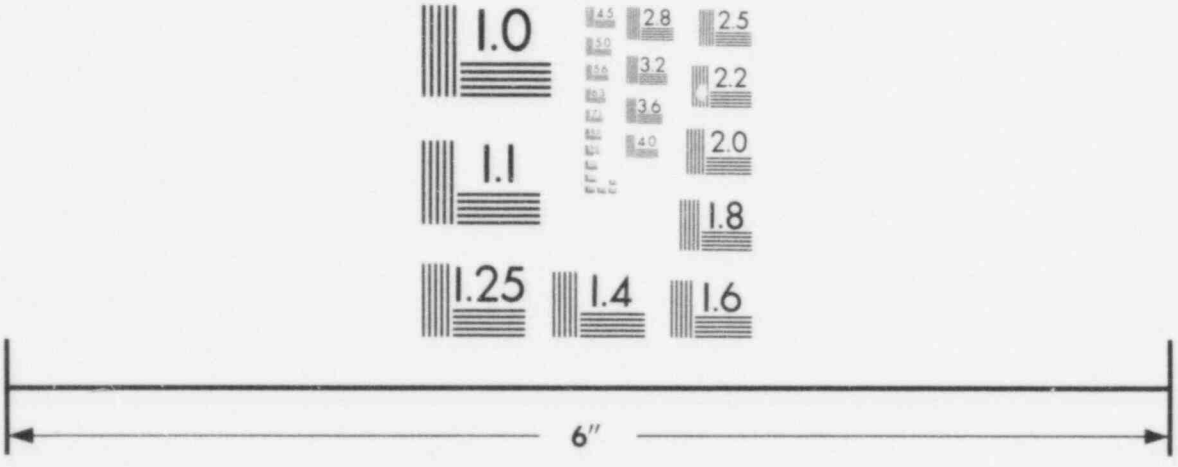
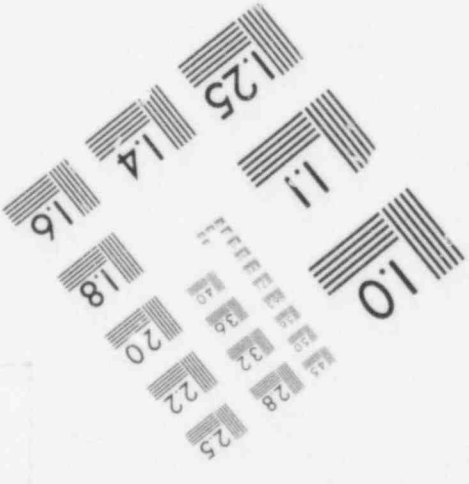
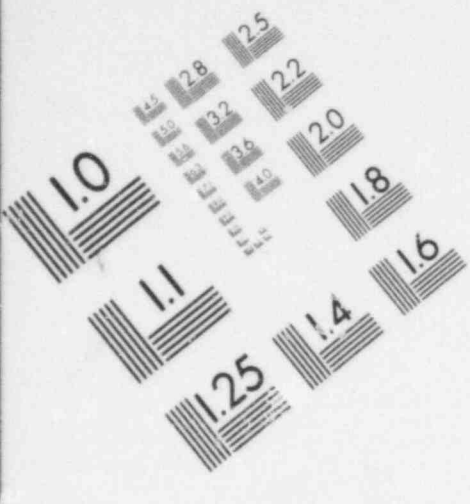


IMAGE EVALUATION TEST TARGET (MT-3)







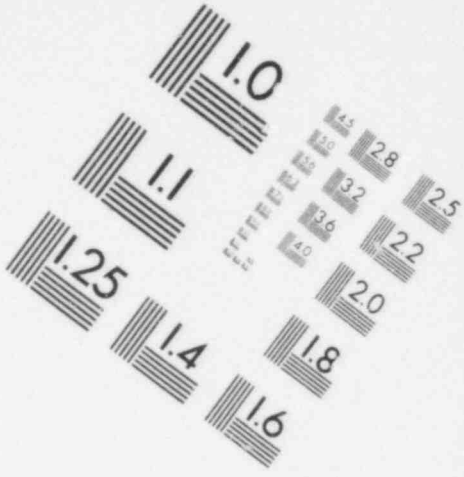
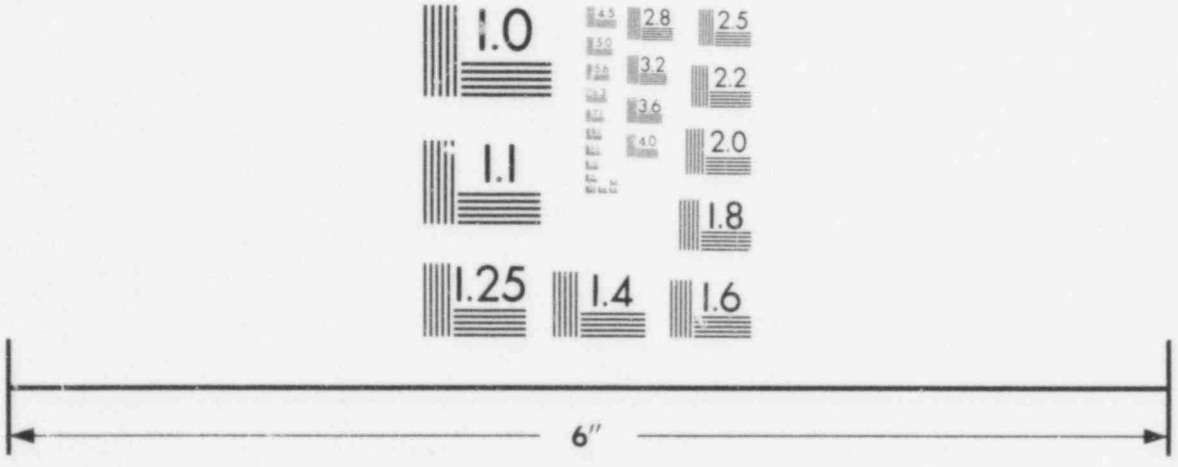
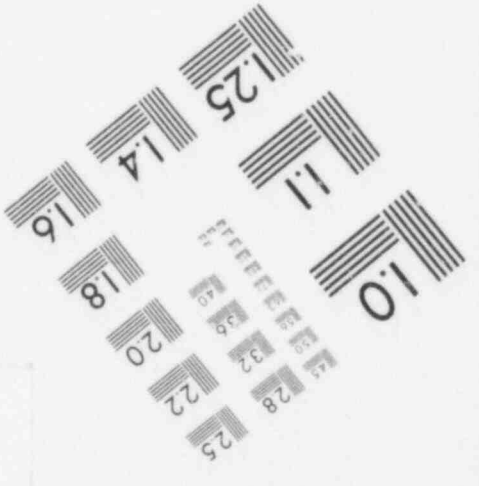
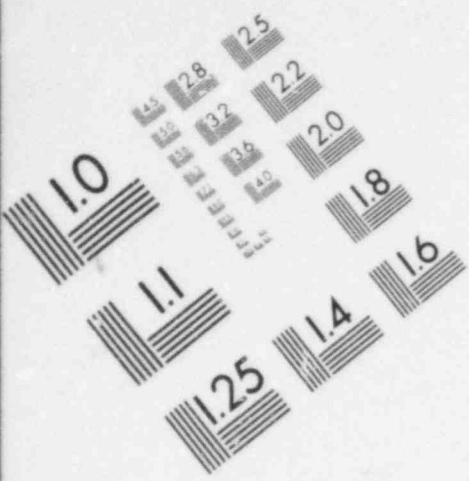


IMAGE EVALUATION
TEST TARGET (MT-3)







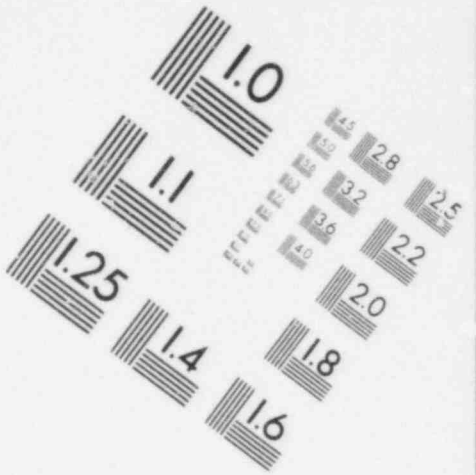
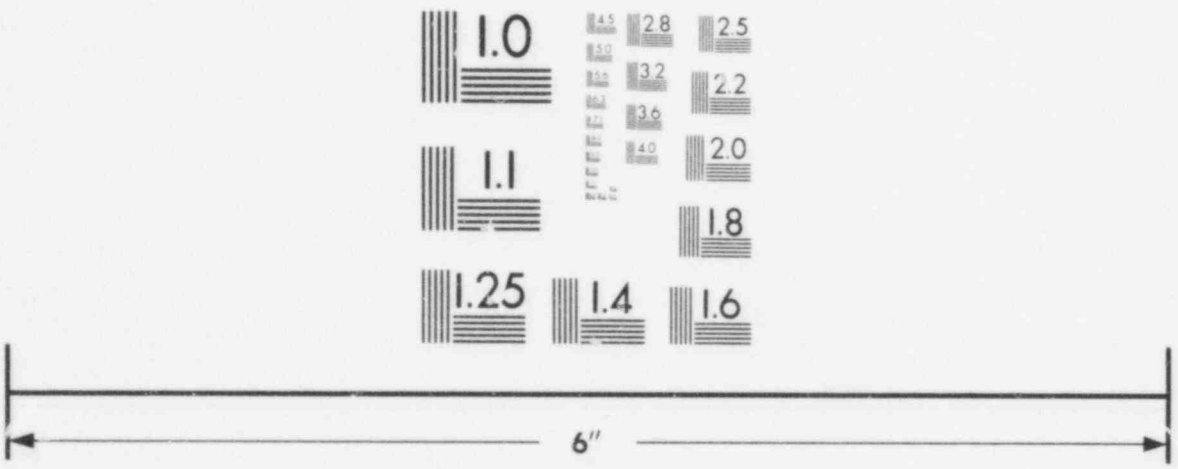
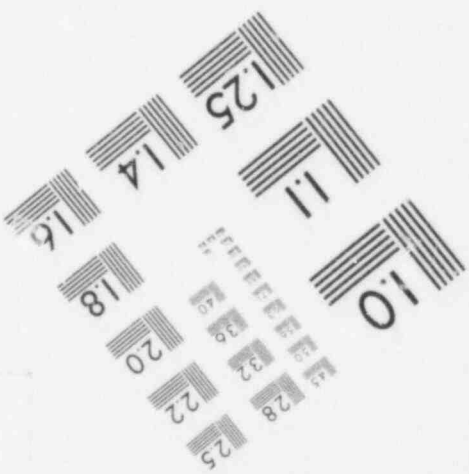


IMAGE EVALUATION TEST TARGET (MT-3)





NCR SERIAL NO: M-01-9-9-075
DATE: 7-25-79
DATE OF REV: N/A
FILE NO: 16.3.1

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Cont. from Page 5)

AWS D1.1 Para 8.[illegible]

"The weld has no cracks."

C-304

Para 6.4.5 "Crater cracks on any single pass weld which is less than continuous along or around the interface shall be accepted. Crater cracks shall be confined to the weld crater and shall not extend past the first ripple. All other cracks are unacceptable."

AWS D1.1 Para 8.15.1.5

"The sum of diameters of piping porosity shall not exceed 3/8" in any linear inch of weld and shall not exceed 3/4" in any 12" length of weld."

C-304

Para 6.3.6 "Porosity is not a criteria for rejection."

6.4.3 Same as 6.3.6.

AWS D1.1 Para 3.7.2.1

"OVERLAP OR EXCESSIVE CONVEXITY: Reduce by removal of excess weld metal."

C-304

Para 6.2.1c "Convexity height, rollover, and weld reinforcement may be accepted without limit."

6.3.3 Same as 6.2.1c

6.4.4 Same as 6.2.1c

AWS D1.1 Para 3.7.2.2

"EXCESSIVE CONCAVITY OF WELD OR CRATER, UNDERSIZE WELDS, UNDERCUTTING: Clean and deposit additional weld metal."

POOR ORIGINAL

NCR SERIAL NO: M-81-9-9-075
DATE: 7-25-79
DATE OF REV: N/A
FILE NO: 16.3.1

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Cont. from Page 7)

C-304

Para 6.3.7 "There is no specified limit on undercut, except for attachment welds to the building frame. Undercut to the building frame shall not exceed 1/32 inch."

6.4.7 "There is no specified limit on undercut."

AWS D1.1 Para 3.7.2.3

"EXCESSIVE WELD POROSITY, EXCESSIVE SLAG INCLUSIONS, INCOMPLETE FUSION: Remove defective portions and reweld."

C-304

Para 6.3.6 "Porosity is not a criteria for rejection."

6.4.3 Same as 6.3.6.

AWS D1.1 Para 4.4 Arc Strikes

"Arc strikes outside of the area of permarent welds should be avoided on any base metal. Cracks or blemishes resulting from arc strikes shall be ground to a smooth contour and checked to ensure soundness."

C-304

Para 6.3.9 "Arc strikes are acceptable, providing the craters do not contain cracks as determined by visual examination."

6.4.15 Same as 6.3.9.

13. QA RECOMMENDATION FOR PART CA:

3. Provide assurance that other areas of specification C-304 meet FSAR requirements.

POOR ORIGINAL

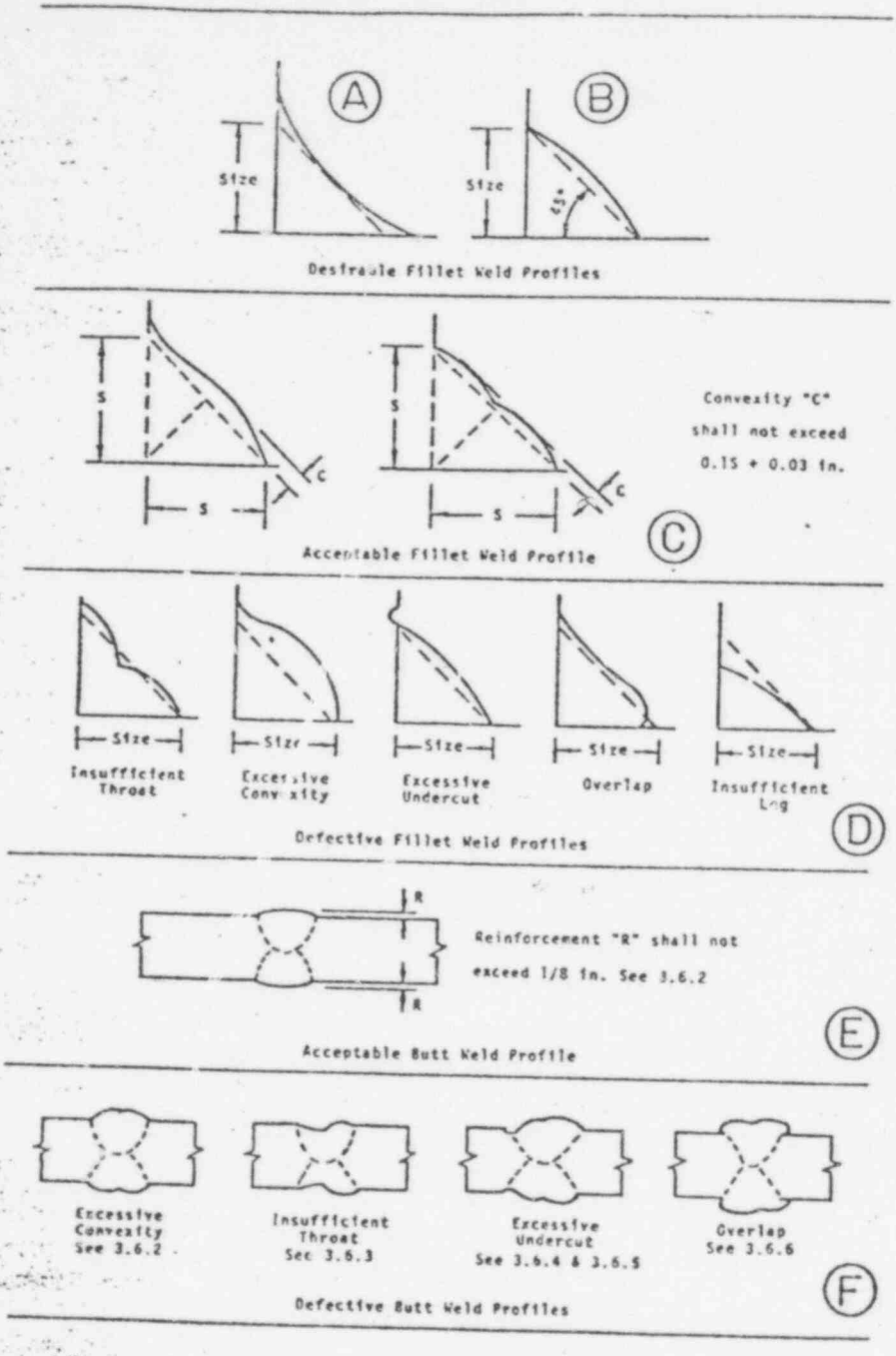


Fig. 3.6—Illustrations of acceptable and defective weld profiles

3.7.2.2 *Excessive concavity of weld or crater, undersize welds, undercutting:* clean and deposit additional weld metal.

3.7.2.3 *Excessive weld porosity, excessive slag inclusions, incomplete fusion:* remove defective portions and reweld.

3.7.2.4 *Cracks in weld or base metal:* ascertain the extent of the crack by use of acid etching, magnetic particle inspection, or other equally positive means; remove the crack and sound metal 2 in. beyond each end of the crack, and reweld.

3.7.3 Members distorted by welding shall be straightened by mechanical means or by carefully supervised application of a limited amount of localized heat. The temperature of heated areas as measured by approved methods shall not exceed 1100 F for quenched and tempered steel nor 1200 F (a dull red color) for other steels. Parts to be heated for straightening shall be substantially free of stress and from external forces, except those stresses resulting from mechanical means used in conjunction with the application of heat.

839 003

POOR ORIGINAL

Start Up System: ABA

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-01-9-79-076
Midland	1-ELB M631 Sh-1 FW-18	Field Weld	2. DATE: 7-27-79
9. SERIAL NUMBER: NA	10. DEPT. CONCERNED NO: Bechtel QC	11. AREA/LOC. OF NC: NA	3. DATE OF REV: NA
			4. PROJ NO: 16.3.6

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

Paragraph NC-5320, Radiographic Acceptance Standards of ASME Boiler & Pressure Vessel Code 74-76 states in part, "Welds that are shown by radiography to have any of the following types of discontinuities are unacceptable. (a) Any type of crack or zone of incomplete fusion or penetration".

Contrary to the above, view 42-56 contains lack of fusion at location #48. This weld defect was not noted during Bechtel's review, therefore, not rejected.

5. DISTRIBUTION

ACTION COPY:

LADreisbach

INFO COPY:

WLBarclay, WRBird, TCCooke, JLCorley, RHermeston, SHHowell, DRJohnson, GSKeeley, BWMarguglio, JMilandin, DBMiller, JFNewgen, RASimanek, DATaggart

13. CA RECOMMENDATION FOR PART CA:

1. Reject film No 42-56 and rework accordingly.
2. Review 100% of radiographic film accepted during the month of May 1979 for similar discrepancies.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED ☐ NOT REQUIRED [X]

14. HOLD TAGS APPLIED: YES ☐ NO [X] NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: NA

15. IS PROCESS CA REQUIRED: YES ☐ NO [X] IF NO, ENTER JUSTIFICATION IN 24:

This is an isolated occurrence and, as such, no process corrective action is indicated at this time.

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, WAS NCR REPORT TO NRC: NA	21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

22. NCR GENERATED BY:	23. WRITTEN REPLY REQUIRED BY: 8-10-79 TO ESTABLISH CA COMPLETION DATE	24. SUPERVISOR'S SIGNATURE/DATE: DRKeating 7-27-79

25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

POOR ORIGINAL

26. DESIGN/PROJECT SIG. AUTH. DISP.:	27. QAD SIG. AUTH. DISP.:	28. PROCUREMENT SIG. AUTH. DISP.:	29. SIG. OF DISP. REQ. FOR CA:
30. FAB/CONST. SIG. AUTH. DISP.:	31. SIG. IF TEST GROUP ACCEPT. CONDITION:	32. FOR VALVE NCR - PLT. SUPT. SIG. AUTH. DISP.:	33. QA AUTH. SIG. TO DISPOSITION DISP.:

34. METHOD OF PART CA VERIFICATION:

839 004

35. SIG. OF DISP. REQ. FOR PART CA SIGNIFYING COMPLETION:	36. SIG. VERIFYING PART CA & HOLD TAG REMOVAL DATE:	37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)

Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

M-01-9-9-076

NCR SERIAL NUMBER:

38. QA ASSESSMENT OF ROOT CAUSE(S):

NA

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

NA

40. PROCESS CA REQUIRED FROM: NA

DESIGN ☐ FABRICATION ☐ CONSTRUCTION ☐ PROCUREMENT ☐ INSPECTION ☐

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

NA

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

NA

43. METHOD OF PROCESS CA VERIFICATION:

NA

POOR ORIGINAL

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

0

Start Up System: BBA

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: N-03-4-9-078
Midland	NA	NA	2. DATE: 7-30-79
9. SERIAL NUMBER:	10. CSG. CONSTRUCTING NO:	11. AREA/LOC. OF NC:	3. DATE OF REV:
NA	B&W Construction Co	Containment #2	NA
			4. FILE NO: 16.4.4

12. "AS IS" NONCONFORMING CONDITION VS. THE "AS REQUIRED" CONDITION WERE KEPT:

At least six of the thermocouple removal areas for the "peened" thermocouples exceed the maximum 1/8 inch in depth allowed by paragraph 9.4 of B&W Construction Company Procedure 9-HT-102 Rev 6. These areas are located on the external surface of both steam generator outlets.

5. DISTRIBUTION

ACTION COPY:

RWShope

INFO COPY:

VNAsgaonkar	DBMiller
WRBird	JFNewgen
TCCooke	DATaggart
JLCorley	CDThompson
AWDePatie	
RHermeston	
SHHowell	
GSKeeley	
JWLillywhite	
BWMarguglio	
PAMartinez	

13. QA RECOMMENDATION FOR PART QA:

1. Assure that minimum wall thickness is adequate in the removal areas for all peened thermocouples.
2. Assure that the 3:1 taper requirements are met.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [ ] NOT REQUIRED [X]

14. HOLD TAGS APPLIED: YES [ ] NO [X] PURPOSE, LOCATION & TYPE OF HOLD TAGS APPLIED: NA

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 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. O. Raffety	23. WRITTEN REPLY REQUIRED BY: 8-14-79 TO ESTABLISH QA COMPLETION DATE
	24. SUPERVISOR'S SIGNATURE/DATE: DRKenting 7-30-79

25. PART QA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

POOR ORIGINAL

26. DESIGN/PROJECT SIG. AUTH. DISP.:	27. PAD SIG. AUTH. DISP.:	28. PROCUREMENT SIG. AUTH. DISP.:	29. SIG. OF ORG. RESP. FOR D/A:
30. FAB/CONST. SIG. AUTH. DISP. DISP.:	31. SIG. OF TEST GROUP ACCEPTANCE CONDITION:	32. FOR MAJOR NCR - FIELD SUPT. SIG. AUTH. DISP.:	33. QA AUTH. SIG. TO DOCUMENT DISP.:

34. METHOD OF PART QA VERIFICATION:

839 006 ~~839~~ 005

35. SIG. OF ORG. RESP. FOR PART D/A SATISFACTORY COMPLETION:	36. SIG. VERIFYING PART D/A & HOLD TAG REMOVAL DATE:	37. NCR CLOSED BY/DATE: (PART & PROCESS QA COMPLETE)

Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

M-03-4-9-078

NCR SERIAL NUMBER: _____

38. QA ASSESSMENT OF ROOT CAUSE(S):

Field Construction procedures do not require dimensional inspection of the removal areas by Quality Control.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA REQUIRED FROM:

DESIGN [ ] FABRICATION [ ] CONSTRUCTION [X] PROCUREMENT [ ] INSPECTION [X]

OTHER _____

41. QA RECOMMENDATION FOR PROCESS CA:

1. Require QC inspection of the removal areas to assure meeting maximum allowed depth
2. Assure that personnel performing the work are aware of the dimensional requirements.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

POOR ORIGINAL

43. METHOD OF PROCESS CA VERIFICATION:

839 007

44. SIG. OF RESP. INDIVIDUAL FOR PROCESS CA SATISFACTORY COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

Start Up System: O-GLA

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-01-4-9-079
Midland	NA	NA	2. DATE: 7-31-79
9. SERIAL NUMBER:	10. ORG. CONSTRUCTING NC:	11. AREA/LOC. OF NC:	3. DATE OF REV: NA
NA	Zack Co QC	Control Room	4. TECH SPEC NO: 16.3.4

12. DESCRIPTION OF NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

Zack QC Procedure M-B-QCP-19, Rev 2 states in part, "...Construction Site Quality Control Inspector.

4.2.4 Responsible for monitoring all phases of the field fabricated items

4.2.5 Responsible for documentation of QC monitoring activities on Zack Company's Quality Control Survey, Report forms No 2 and No 3".

(Contd on Page 3)

5. DISTRIBUTION

ACTION COPY:

LADreisbach

INFO COPY:

WLBarclay	DBMiller
WRBird	WGMoring
TCCooke	JFNewgen
JLCorley	RASimanek
RHermeston	DATaggart
SHHowell	
DRJohnson	
GSKeeley	
BWMarguglio	
PAMartinez	
JMilandin	

13. QA RECOMMENDATION FOR PART QA:

1. Open IR's on these hangers.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [ ] NOT REQUIRED [X]

14. HOLD TAGS APPLIED: YES [ ] NO [X] REMARKS, LOCATION & TYPE OF HOLD TAGS APPLIED: NA

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 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: Mark T DeWitt

23. WRITTEN REPLY REQUIRED BY: 8-14-79 TO ESTABLISH QA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: DR Eatony 7-31-79

25. PART QA DISPOSITION, JUSTIFICATIONS & COMPLETION DATE:

POOR ORIGINAL

26. DESIGN/PROJECT SIG. AUTH. DISP.:	27. PMO SIG. AUTH. DISP.:	28. PROCUREMENT SIG. AUTH. DISP.:	29. SIG. OF ORG. RESP. FOR Q/A:
30. FAB/CONST. SIG. AUTH. DISP. DISP.:	31. SIG. OF TEST GROUP ACCEPT. CONDITION:	32. FOR MAJOR MOD - ELE. SUPT. SIG. AUTH. DISP.:	33. QA AUTH. SIG. TO DISPOSITION DISP.:

34. METHOD OF PART QA VERIFICATION:

839 008

35. SIG. OF ORG. DISP. FOR PART Q/A DISPOSITING COMPLETION:	36. SIG. VERIFYING PART Q/A & HOLD TAG REMOVAL/DATE:	37. NCR CLOSED BY, DATE: (PART A PROJ TEC QA COMPLETE)

Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

M-01-4-9-079

NCR SERIAL NUMBER:

38. QA ASSESSMENT OF ROOT CAUSE(S):

Unknown - to be determined.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY CBG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA REQUIRED FROM:

DESIGN [ ] FABRICATION [ ] CONSTRUCTION [X] PROCUREMENT [ ] 2 ACK INSPECTION [X]

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

Unknown - to be determined, but this department does recommend conduct training session with Quality Control Inspectors on the requirements of M-B-QCP-19.

42. PROCESS CA TO BE TAKEN BY CBG(S) CITED IN BLOCK 41 & DATE OF COMPLETION:

POOR ORIGINAL

43. METHOD OF PROCESS CA VERIFICATION:

839 009

44. SIG. OF RES. RESPONSIBLE FOR PROCESS CA SATISFACTORY COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

NCR SERIAL NO: M-01-4-9-079
DATE: 7-31-79
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, Zack QC has no open Inspection Reports (IR's) available on the following hangers on July 27, 1979.

Hangers were inspected as partially installed on July 18, 1979 by CPCo QA:
V-25-Sh 3-#107
#106
54
8
11
13

On July 30, 1979 Zack QC clarified "no available" as being non-existent.

NOTES:

1) Hangers #106 and 107 are noted on BPCo QC Exception Report.

2) Zack Co QC is presently rewriting Procedure M-B-QCP-19 Survey Report Form #2 and reviewing past IR's for adequacy and existence.

3) Hanger welds were inspected and initaled on the hardware, the only nonconformance was the documentation of the inspection.

839 010

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: M-01-4-9-017
Midland 1 & 2	Cable 1A5508D	Electrical Cable	2. DATE: 2-19-79
9. SERIAL NUMBER: NA	10. ORG. CONNECTING NO: Bechtel Const	11. AREA/LOC. OF NC: Aux Bldg 614/634 Levels	3. DATE OF REV: Closed 7-26-79
			4. FILE NO: 16.3.4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

Cable 1AB5508D is incorrectly routed; its present routing is not documented correctly and the cable marker identifying the cable destination is wrong.
Attachment 1, Column A shows the scheduled routing of this cable; Column B shows the documented routing per QCIR; Column C shows routing as it presently is. Column D gives list of cables scheduled to pass through conduit 1AJB023 and proper routing to do so. Cable marker for 1AB5508D identifies destination as EPA 1Z113. It is presently installed in EPA 1Z112.

5. DISTRIBUTION

ACTION COPY:
LADreisbach

INFO COPY:

WLBarclay	DBMiller
WRBird	WGMoring
TCCooke	JFNewgen
JLCorley	RASimanek
RHermeston	DATaggart
SHHowell	
DRJohnson	
GSKeeley	
BWMarguglio	
PAMartinez	
JMilandin	

13. CA RECOMMENDATION FOR PART CA:

Evaluate and provide corrective action.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [X] NOT REQUIRED [ ]

14. HOLD TAGS APPLIED: YES [ ] NO [X] SURVEY, LOCATION & TYPE OF HOLD TAGS APPLIED: NA

15. IS PROCESS CA REQUIRED: YES [X] NO [ ] IF NO, ENTER JUSTIFICATION BELOW:

16. DOES NC AFFECT Q-LIST ITEM: YES [X] NO [ ]

17. IF 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: D. Hott

23. WRITTEN REPLY REQUIRED BY: 3-5-79
TO ESTABLISH CA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: Paul Zigler 2-22-79

25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

LADreisbach letter to JLCorley LAD-907 dated 5-23-79.

POOR ORIGINAL

26. DESIGN/PROJECT RESP. ADMIN. DESP.:	27. PMO RESP. ADMIN. DESP.:	28. PROCUREMENT RESP. ADMIN. DESP.:	29. RESP. OF ORG. ASSIGN. FOR C/A:
LAD-950	NA	NA	LAD-950
30. FAB/CONST. RESP. ADMIN. DEP. DESP.:	31. RESP. OF TEST GROUP ACTION, CONDITION:	32. CR MAJOR MOD - RESP. SUPV. ID. ADMIN. DESP.:	33. QA ADMIN. RES. TO DOCUMENT DESP.:
LAD-950	NA	NA	D. Hott

34. METHOD OF PART CA VERIFICATION: Visually inspected to ensure cable marker for 1AB5508D has been corrected to indicate its proper destination.

839 011

35. RES. IF ORG. RESP. FOR PART C/A STIPULATING COMPLETION:	36. RES. VERIFYING PART C/A & HOLD TAG REMOVAL DATE:	37. NCR CLOSED BY: (PART C/A PROPERLY COMPLETED)
LAD-907	7/03/79 D. Hott	D. Hott 7/27/79

CC Document Control (1141 - 1 - 05000 - 36230 - 1A5508D - 73*01*10)

Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

N-01-4-9-017

NCR SERIAL NUMBER:

38. QA ASSESSMENT OF ROOT CAUSE(S):

Unknown, to be determined.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM 38. (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

LAD-907, LAD-950

40. PROCESS CA REQUIRED FROM:

DESIGN [ ] FABRICATION [ ] CONSTRUCTION [X] PROCUREMENT [ ] INSPECTION [X]

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

Timely action should be taken to prevent recurrence to avoid tray and conduit overloading.

42. PROCESS CA TO BE TAKEN BY ORG(S) GIVEN IN BLOCK 41 & DATE OF COMPLETION:

LAD-907, LAD-950

POOR ORIGINAL

43. METHOD OF PROCESS CA VERIFICATION:

Revision 28, DCN-136 of Drawing E-37 dated June 28, 1979 does reflect the correct routing of cable 1AB5508D. A check of this revision was made on July 24, 1979.

839 012

44. ORG. OF RESP. FOR PROCESS CA VERIFYING COMPLETION:

LAD-950

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

7/24/79

NCR: M-01-4-9-017

EME No. 1AB55C D

Conduit 1AJB02
1AJB21 to 1AKA23

Column A E-37 Rev. 24 dtd 1-27-79	Column B Inspt. Record dtd 1-5-79	Column C Actual Instl. date 2-9-79	Column D E-36
1ASL904	1ASL904	1ASL904	1AB4301J
1AJM04	1AJM04	1AJA05	1AB4301K
1AKA05	1AJA05	1AJC01	1AB4302C
1AKA06	1AJC01	1AJB07	1AB4305C
1AKA07	1AJB07	1AJB08	1AB4306C
1AKA08	1AJB08	1AJB09	1AB4309C
1AKA09	1AJB09	1AJB10	1AB4310J
1AKA10	1AJB10	1AJB11	1AB4310K
1AKA11	1AJB11	1AJB12	1AB5533J
1AKA12	1AJB12	1AJB13	1AMU001E
1AKA13	1AJB13	1AJB19	1AMU002E
1AKA19	1AJB19	1AJB18	1AMU003E
1AKA18	1AJB18	1AJB17	1AMU004E
1AKA20	1AJB17	1AJB20	1AMU011J
1AKA21	1AJB20	1AJB21	1AMU012A
1AKA036 (Conduit)	1AJB21	1AJB023 (Conduit)	1AMU012F
1AKA23	1AJB023 (Conduit)	1AKA24	1AQ103A
1Z112	1AKA23	1AKA23	1AQ103E
	1Z112	1Z112	1AQ104A
↑		↑	1AQ104E
"As Required" Condition		"As is" Condition	1AQ105A
			1AQ106A
			1AQ107A
			1AQ107E
			1AQ110A
			1AQ111A
			1AQ112A
			1AQ112F
			1ARW175B
			1AS012A
			1AS012C
			1AW001A
			1AW002A
			1AW003A
			1AW004A
		839 013	1AW005A
			1AW006A
			1AW007A

Attachment #1
to
NCR M-01-4-9-017

PAGE 3 of 3

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640

June 14, 1979

Consumers Power Company
P. O. Box 1963
Midland, MI 48640

Attention: J. L. Corley

JOb 7220 Midland Project
CPCo NCR M-01-4-017 and
AFR M-01-12-9-03
Final Response
LAD-950 Action Item-593/699

Dear Mr. Corley:

Reference: Bechtel letter LAD-907 dated 5/23/79, L. A. Dreisbach to J. L. Corley

The subject noncompliances concern the inconsistences between the as-installed condition of cable and the related design criteria described in drawing E-37.

In addition to the actions already taken (reference Bechtel letter), a subsequent revision was made to drawing E-37 correcting the cable routing deficiencies identified in the subject reports. Revision 28 to drawing E-37 now identifies the as-installed conditions of cables 1AA0508E and 1AB5508D.

This is considered to be a complete response to the subject concerns. If further assistance is necessary please contact the writer.

Very truly yours,

E. Smith

for L. A. Dreisbach
Project Quality Assurance
Engineer

JLC	
DRK	
RGW	
X PRK	
03 X CLJ	
CF	
X DAN	
FILE	

LAD/HCH/bsm 017

cc: W. Bird
B. Marguglio

CONSUMERS POWER COMPANY
RECEIVED
JUN 21 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

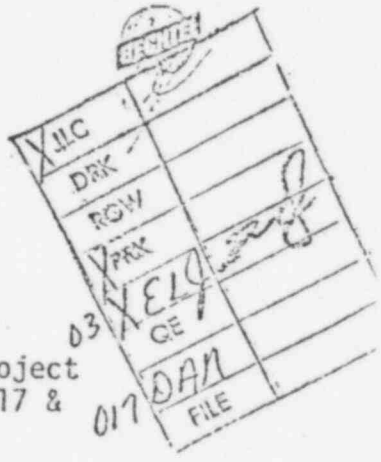
839 014

CONSUMERS POWER COMPANY
RECEIVED
MAY 29 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640

May 23, 1979



Consumers Power Company
P. O. Box 1963
Midland, MI 48640

Attention: J. L. Corley

Job 7220 Midland Project
CPCo NCR M-01-4-9-017 &
AFR M-01-12-9-03
Partial Response
LAD-907 Actior Item-593/699

Dear Mr. Corley:

The subject noncompliances concern the inconsistences between the as-installed condition of cable and the related design criteria described in drawing E-37.

An investigation of these nonconformances revealed that the cables were pulled in accordance with the latest issue of drawing E-37. A subsequent revision to E-37 made the cable installation nonconforming as reported in the subject findings.

These subsequent changes to E-37 are either, treated as "design changes to complete work", the cable repulled and reinspected; or Project Engineering revises E-37 back to the original design. In either case the final version of drawing E-37 will reflect the "as-installed" condition of the cable.

To eliminate unnecessary revisions to drawing E-37, Project Engineering is coordinating with the site Resident Engineers to determine cable status prior to initiating a change to E-37.

The system implemented May 1 should resolve your concerns with the inconsistences with the installed cable and related design criteria.

In response to the misidentified cable identified in the subject NCR, action was taken to correct the discrepancy. The cable marker for 1AB5508D now identifies the termination as EPA-1Z112.

This letter is considered to be a partial response to the subject deficiencies. A complete response will be issued upon issuance of E-37 revising the vias of the cable identified in the subject findings. This action is due June 7, 1979. If further assistance is necessary please contact the writer.

Very truly yours,

L. A. Dreisbach
Project Quality Assurance
Engineer

LAD/RCH/bsm
cc: W. Bird
B. Marguglio

839 015

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-01-4-0-019
Midland 1 & 2	NA	RPV Sole Plate Grouting	2. DATE: 2-20-79
9. MATERIAL NUMBER: NA	10. ORG. CONNECTIONS NO: Bechtel Construction and QC	11. AREA/LOC. OF NC: RPV Sole Plate, RB/1 @ Elevation 603'-0"+	3. DATE OF REV: Closed 7-18-79
			4. FILE NO: 16.3.4 16.3.6

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

Five Star Grouting Manual, General Procedures, III Preparation 4. Surface Preparation, states, "All surfaces to be in contact with the grout shall be entirely free of oil, grease, laitance, curing compounds, and other foreign substances".

Contrary to the above, during overinspection of grouting of the RPV sole plate, RB/1, a grease-like foreign substance was detected on the concrete surface.

5. DISTRIBUTION

ACTION COPY:

LADreisbach

INFO COPY:

WLBarclay, WRBird, TCCooke, JLCorley, RHermeston, SHHowell, DRJohnson, GSKeeley, BWMarguglio, PAMartinez, JMilandin, DBMiller, WGMoring, JFNewgen, RASimanek, DATaggart

13. QA RECOMMENDATION FOR PART CA:

Remove foreign substance from concrete surface before proceeding with grouting operation.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [ ] NOT REQUIRED [X]

14. HOLD TAGS APPLIED: YES [X] NO [ ] SERIAL, LOCATION & TYPE OF HOLD TAGS APPLIED: Two (2) hold tags applied on inside face of RPV sole plate base.

15. IS PROCESS CA REQUIRED: YES [X] NO [ ] IF NO, ENTER JUSTIFICATION BELOW:

16. DOES NC AFFECT 4-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 GENERATED BY: D. A. Dashley

23. WRITTEN REPLY REQUIRED BY: 3-7-79

TO ESTABLISH CA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: 2/21/79

25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

The foreign substance was removed by sandblasting in accordance with Project requirements. Completed 2-22-79.

POOR ORIGINAL

26. DESIGN/PROJECT SUB. AUTH. REP.:	27. PMO SUB. AUTH. REP.:	28. PROCUREMENT SUB. CONC. REP.:	29. SUB. OF SUB. AUTH. REP. FOR C/A:
NA	NA	NA	NA
30. FAB/CONST. SUB. AUTH. REP. REP.:	31. SUB. OF TEST GROUP ACTION CONDITION:	32. FOR MAJOR MOD + FAB. REPR. SUB. AUTH. REP.:	33. QA AUTH. SUB. TO DISPOSITION REP.:
NA	NA	NA	D. A. Dashley

34. METHOD OF PART CA VERIFICATION:

Visual inspection prior to acceptance.

839 016

35. SUB. OF SUB. REP. FOR PART C/A SURVEILLANCE INSPECTION:	36. SUB. VERIFIED PART C/A & HOLD TAG REMOVAL DATE:	37. NCR CLOSED BY: (PART A PROCESS CA COMPLETE)
NA	D. A. Dashley 2-22-79	D. A. Dashley 7/9/79

Document Control (1141 - 1 - 00N00 - 21170)

Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT
M-01-4-9-019
NCR SERIAL NUMBER:

38. QA ASSESSMENT OF ROOT CAUSE(S):

Unknown, to be determined.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

Grease-like substance was result of grease being used on reactor vessel bolts and inadvertently overlooked during QC inspection per attached letter LAD-972.

40. PROCESS CA REQUIRED FROM:

DESIGN [ ] FABRICATION [ ] CONSTRUCTION [V] PROCUREMENT [ ] INSPECTION [V]

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

Determine root cause and take corrective action to preclude repetition, respond to this office no later than 3-7-79.

42. PROCESS CA TO BE TAKEN BY ORG(S) CITED IN BLOCK 41 & DATE OF COMPLETION:

The QC Engineer and Field Engineer have been given training in this area.

POOR ORIGINAL

43. METHOD OF PROCESS CA VERIFICATION:

Verified documentation of training records 7-13-79.

839 017

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA DIRECTING COMPLETION:

NA

45. PROCESS CA COMPLETION APPROVED BY/DATE:

H. J. Boyd 7/13/79

CONSUMERS POWER COMPANY
RECEIVED
JUN 28 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

Bechtel Power Corporation

Post Office Box 21[illegible]
Midland, Michigan 48640

June 26, 1979

Consumers Power Company
P. O. Box 1963
Midland, MI 48640

Attention: J. L. Corley

Job 7220 Midland Project
CPCo NCR M-01-4-9-019
Complete Response
Action Item 597
LAD-972

Dear Mr. Corley:

The subject CPCo NCR identified that contrary to the Five Star Grouting Manual, General Procedures III, Preparation 4, a grease-like foreign substance was detected on the concrete surface prior to grouting the containment 1, RPV sole plate.

Part Corrective Action (Block 25) was completed by sandblasting in accordance with project requirements and was verified complete by Consumers on 2/22/79.

With regard to the Root Cause (Block 38), the grease-like foreign substance was the result of grease being used in conjunction with layers of visqueen for wrapping the reactor vessel bolts. The grease stain was inadvertently overlooked during the Quality Control Inspection.

Process Corrective Action (Block 42) in the form of training has been completed as documented by QCFM-5851 dated 3/23/79 and P. Goguen memorandum to L. Dreisbach dated 4/10/79.

I believe the above response addresses all of your concerns expressed in the subject NCR. Should you have additional questions please contact this office.

Very truly yours,

LDreisbach

L. A. Dreisbach
Project Quality Assurance
Engineer

XJLC	
DRK	
XRGW	W
PRK	
XGTD	
QE	
FILE	

LAD/LHS/kjk

cc: W. Bird
B. Marguglio

839 018

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	NA	Socket Weld Tube Fittings	M-01-7-9-039
9. SERIAL NUMBER:	**10. CSD. CONNECTION NO:**	**11. AREA/LOC. OF NC:**	**2. DATE:** 4-12-79
NA	BPCo - QC Parker - Hannifin Corp	NA	**3. DATE OF REV:** Closed 7-18-79
			4. FILE NO: 16.3.2, 16.3.6

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION (GIVE REFS):

Specification J-710, Section 6.C.1.b states in part that, "Material for socket weld tube fittings shall be b) stainless steel, ASME SA-479-F316L or F304L for bar stock".
With respect to:
1) Receipt Package AEO-8112 of F-27952-3-1400, Part 6-1 AW2-SS, Heat Code 793A and
2) Receipt Package AEO-7964 of F-27952-3-1502, Part 6 3/4 AW2-SS, Heat Code 890A,
the Parker-Hannifin Corp "Conformance Certificate for Material Shipped" states these parts were tested to the specified ASME-SA-479 criteria.
(Contd on Page 3)

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 CA:

1) Customer Order No FD890A, take appropriate action to identify parts from this heat and evaluate discrepancy, taking appropriate action.
(Contd on Page 3)

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [ ] NOT REQUIRED [X]

14. WELD TAGS APPLIED: YES [ ] NO [X] NUMBER, LOCATION & TYPE OF WELD TAGS APPLIED: NA

15. IS PROCESS CA 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, 7-DAY PAGE REPORT TO NRC: NA

21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

22. NCR CLASSIFIED BY: [signature]

23. WRITTEN REPLY REQUIRED BY: 5-2-79
TO ESTABLISH CA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: DRKeeley, 4-12-79

25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

Material recertified to SA-479 (see LAD-942 and attached Parker Hannifin letter of May 23, 1979).

POOR ORIGINAL

839 019

26. DESIGN/PROJECT ENG. AUTH. DISP.:	27. PRO ENG. AUTH. DISP.:	28. PROCUREMENT ENG. CONC. DISP.:	29. ENG. OF CONC. REQ. FOR QA:
NA	NA	NA	BPCo - QA See LAD-942
30. FAB/CONST. ENG. AUTH. DIR. DISP.:	**31. ENG. OF TEST GROUP ACCEPT. CONDITION:**	**32. FOR MATLS MGT. - FLD. ENGR. ENG. AUTH. DISP.:**	**33. QA AUTH. ENG. TO DISPOSITION DISP.:**
BPCo - QA See LAD-942	NA	NA	[signature] 7/24/79

34. METHOD OF PART CA VERIFICATION:

Document Review of documentation packages AEO-8112, AEO-7964.

35. ENG. OF ORG. RESP. FOR PART CA IMPLEMENTING DISPOSITION:	36. ENG. VERIFICATION PART CA & WELD TAG REMOVAL DATE:	37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)
LAD-942	[signature] 8-14-79	[signature] 8-14-79

Document Control (1141 - 73*10*03)

Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

M-01-2-0-039

NCR SERIAL NUMBER:

38. QA ASSESSMENT OF ROOT CAUSE(S):

To be determined pending futher evaluation.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

See LAD-942.

40. PROCESS CA REQUIRED FROM:

DESIGN [ ] FABRICATION [ ] CONSTRUCTION [ ] PROCUREMENT [X] INSPECTION [X]

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

Due to two Material Test Reports out of two available being in error of the Specification, it is requested all heats from Parker-Hannifin Corp have their Certificates of Conformances compared to the Material Test Report Specification criteria.

42. PROCESS CA TO BE TAKEN BY ORG(S) CITED IN BLOCK 41 & DATE OF COMPLETION:

See LAD-942, Parker Hannifin has committed to proper certifications.

POOR ORIGINAL

43. METHOD OF PROCESS CA VERIFICATION:

Review of documentation packages AEO-8112 and AEO-7964.

839 020

44. ORG. OF ORG. RESPONSIBLE FOR PROCESS CA IDENTIFICATION/IMPLEMENTATION:

LAD-942

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

M L Bell - K - 0 1 - 89

NCR SERIAL NO: M-01-2-9-039
DATE: 4-12-79
DATE OF REV: Closed 7-18-79
FILE NO: 16.3.2, 16.3.6

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Contd from Page 1)

(Orders: COC# 1) F4404, 275013
2) F4134, 4023334B respectively)

Contrary to the above, Certificate of Tests show the following:
FD890A was tested per ASTM-A276-73 Type 316 Cond A (Spec SS-39)
FD793A was tested per SS-39 - 2/9/73. (100% of QVD Packages reviewed as of 4-12-79)

13. QA RECOMMENDATION FOR PART CA:

(Contd from Page 1)

2) Customer Order No FD793A, determine which ASTM and/or ASME Specification applies to Carpenter Technology Corp Test Specification SS-39 - 2/9/73. Evaluate and take appropriate action to meet ASME Code acceptance.

CONSUMERS POWER COMPANY
RECEIVED
JUN 14 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640

June 12, 1979

Consumers Power Company
P. O. Box 1963
Midland, MI 48640

Attention: J. L. Corley

Job 7220 Midland Project
CPCo NCR #M-01-2-9-039
Complete Response
LAD-942 Action Item 707

Dear Mr. Corley:

The subject NCR cited concerns regarding parts received from Parker-Hannifin (Heat Code 793A and 890A) which were accompanied by documentation ("Certificate of Tests") indicating that the starting material purchased by Parker-Hannifin was certified to ASTM-276 in lieu of SA-479 as required by specification J-710. It was noted that Parker-Hannifin had also furnished "conformance certificates" certifying the material to ASME-SA-479.

The original certifications of the starting material were to ASTM-A-276 in lieu of the required ASME-SA-479. However since the condition A Grade of A-276 specification has compatible chemical and mechanical requirements for Grade 316 of SA-479 the material manufacturer recertified which is permitted in the ASME Codes.

To avoid future questions regarding the subject parts and similar parts purchased by Bechtel, Parker-Hannifin has aquired from their supplier mill certs certifying the material to ASME SA-479. These certs have been forwarded to Bechtel and Parker-Hannifin has agreed to take steps to ensure that all future shipments will be reviewed to assure proper documentation is supplied (Parker-Hannifin Letter to J. F. Newgen dated May 23, 1979).

This is considered a complete response to the subject NCR and if you have any further questions please contact the writer.

839 022

Very truly yours,

L. Smith

for L. A. Dreisbach
Project Quality Assurance
Engineer

WJC	
DRK	
RGW	
PRK	
XMTD	
QE	
FILE	

LAD/WJC/bsm

cc: W. Bird
B. Marguglio

Parker
FluidConnectors

May 23, 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: Re-Certification to ASME-SA-479

Gentlemen:

Enclosed please find updated corrected certifications for our shipments of Parker "Weldlok" fittings. These re-certifications are submitted per our recent telephone conversation with your Mr. Jerry Isaacs.

The original certifications were to ASTM-A-276 in leiu of the required ASME-SA-479. Our supplier was able to recertify to SA-479 since the Condition A Grade of A-276 specification has the same chemical and mechanical requirements for Grade 316. Please note that the M.M. recertified which is permitted in the ASME Codes.

The originial Conformance Certificates supplied by Parker were correct. Copies of the original Conformance Certificates are enclosed which should provide for easier match-ups of the mill certs. Please discard the original mill certs supplied with the original shipments. The original mill certifications for fittings produced from forged shapes were acceptable since they were certified to ASME-SA-182.

Parker has taken steps to ensure that all future shipments will be reviewed to assure proper documentation is supplied.

It is trusted that these actions will meet with your approval and if we can supply any additional information or documentation please feel free to contact us.

Very Truly Yours,

E.A. Delorme
Quality Assurance Manager

ED/erh

Enclosure - Re-certifications

cc: Jim Anderson - Sales

POOR ORIGINAL

Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

PAGE 1 OF 2

6. PROJECT NAME: Midland 1 & 2	7. NONCONFORMING PART NO: 1P-64B and 2P-64A	8. NONCONFORMING PART NAME: R/B Spray Pumps	1. NCR SERIAL NO: M-01-4-0-044
9. SERIAL NUMBER: NA	10. ORG. CONCERNED NO: Bechtel Const & QC	11. AREA/LOC. OF NC: Auxiliary Building @ 568'-0"	2. DATE: 4-23-79
			3. DATE OF DISP: Closed 7-18-79
			4. FILE NO: 16.3.6, 16.3.4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH NOTE:

A. C-231, Specification for Forming, Placing, Finishing, and Curing of Concrete, 18.1 states in part, "Grout shall be placed according to the manufacturer's requirements".

Five Star Technical Bulletin, General Procedures III, Preparation, 2.1 states in part, "...clearance or grout thickness of 4" to 6" are the maximum usually recommended by U.S. Grout..."

Contrary to the above, R/B spray pump bases numbers 1P-64B and 2P-64A, Auxiliary Building @ elevation 568'-0" were placed a depth of 9", with Five Star Grout.

B. Pump base 1P-64B has developed cracks in the base at the base plate grout access openings.

5. DISTRIBUTION

ACTION COPY:

LADreisbach

INFO COPY:

WLBarclay	DBMiller
WRBird	WGMoring
TCCooke	JFNewgen
JLCorley	RASimanek
RHermeston	DATaggart
SHHowell	
DRJohnson	
GSKeeley	
BWMarguglio	
PAMartinez	
JMilandin	

13. CA RECOMMENDATION FOR PART CA:

Project Engineering: Disposition or provide rational to "use-as-is".

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [X] NOT REQUIRED [ ]

14. HOLD TAGS APPLIED: YES [X] NO [ ] REMARK, LOCATION & TYPE OF HOLD TAGS APPLIED: Two (2) hold tags; one each on pump base 2P-64A & 1P-64B

15. IS PROCESS CA 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: A.A. Dadel

23. VENDOR REPLY REQUIRED BY: 5-7-79

TO ESTABLISH CA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: RG Wellnitz 4/23/79

25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

Project Engineering has evaluated and accepted the "use-as-is" recommendation per attached letter LAD-990 and REM C-2234.

POOR ORIGINAL

26. DESIGN/PROJECT ENG. ADMIN. DISP.: NA	27. PMO ENG. ADMIN. DISP.: NA	28. PROCUREMENT ENG. CONC. DISP.: NA	29. ENG. OF ORG. CONC. DISP. FOR CA: NA
30. FAB/CONST. ENG. ADMIN. DEP. DISP.: NA	31. ENG. OF TEST GROUP ADMIN. CONCURRENCE: NA	32. FOR MAJOR MOD - ENG. DEPT. ENG. ADMIN. DISP.: NA	33. QA ADMIN. APP. TO DISPOSITION DISP.: A.A. Dadel

34. METHOD OF PART CA VERIFICATION:

Reviewed REM C-2234.

839 · 024

35. ENG. OF ORG. DISP. FOR PART CA/A SIGNIFYING COMPLETION: NA	36. ENG. VERIFYING PART CA/A & HOLD TAG REMOVAL DATE: NOTE: Hold tags could not be located.	37. NCR CLOSED BY: (DATE: PART CA COMPLETE) A.A. Dadel 7/18/79

Document Control (1141 - 00N00 - 11300 - 1P64B & 2P64A)

Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT
M-01-4-9-044
NCR SERIAL NUMBER:

PAGE 2 OF 2

38. QA ASSESSMENT OF ROOT CAUSE(S):

Unknown, to be determined.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

The QC Engineers and Field Engineers inadvertently overlooked the requirements of the Five Star Technical Bulletin per attached letter LAD-990.

40. PROCESS CA RECEIVED FROM:

DESIGN [ ] FABRICATION [ ] CONSTRUCTION [X] PROCUREMENT [ ] INSPECTION [X]

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

Determine root cause and take corrective action to preclude repetition.

42. PROCESS CA TO BE TAKEN BY ORG(S) ASSIGNED IN BLOCK 41 & DATE OF COMPLETION:

All superintendents and engineers were notified of the placement criteria for nonshrink grouts. Also documented training, in this area, has been performed by QC and corrective action reports have been written on the involved QCE's per letter LAD-990.
7-2-79 date of C/A completion.

POOR ORIGINAL

43. METHOD OF PROCESS CA VERIFICATION:

Reviewed all documentation referenced for corrective action on 7-13-79.

839 025

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA IDENTIFYING COMPLETION:

NA

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

A. A. Sandy 7/13/79

cc Document Control (1141 - 13-10-03

CONSUMERS POWER COMPANY
RECEIVED
JUL 12 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640

July 2, 1979

Consumers Power Company
P. O. Box 1963
Midland, MI 48640

Attention: J. L. Corley

Job 7220 Midland Project
CPCo NCR M-01-4-9-044,
Complete Response
LAD-990, Action Item 727

Dear Mr. Corley:

References:
1. CPCo NCR M-01-4-9-044, dated 4/23/79
2. Resident Engineer Memorandum, C-2234, dated 5/22/79
3. U.S. Grout Corporation, letter to J. Howard, dated 5/10/79
4. IOM J. Newgen to L. Dreisbach, 0-2400, dated 6/27/79
5. IOM W. Barclay to L. Dreisbach, QCFM-5958, dated 5/10/79

The subject NCR (Ref. 1) identified that the Reactor Building Spray Pump bases (1P-64B and 2P-64A) were placed to a depth of nine inches, which is in excess of the Five Star Technical Bulletin recommended maximum depth of four to six inches. In addition, it was noted that one of the pump bases (1P-64B) had developed cracks at the base plate grout access opening.

The pump bases have been approved by Project Engineering (Ref. 2) for "use-as-is" for part disposition (NCR block 25). U.S. Grout Corporation (Ref. 3) has confirmed that the micro-cracking does not present structural problems.

The root cause (NCR block 38) is that the QCE and Engineers inadvertently overlooked the requirements of the bulletin. The following process actions (NCR block 42) were taken to preclude repetition:

1. An Interoffice Memorandum (Ref. 4) from Newgen to all Superintendents and Engineers on the placement criteria for nonshrink grouts.

839 026

JLC	JC
DRK	
RGW	
PRK	W
QE	
FILE	

2. Quality Control (Ref. 5) has documented training in this area. Corrective Action Reports have been written on the involved QCE's.

If you have any additional questions in this area, please contact this office.

for E. Smith
L. A. Dreisbach
Project Quality Assurance
Engineer

LAD/LHS/kjk

cc: W. Bird
B. Marguglio

MIDLAND PROJECT

RESIDENT ENGINEER MEMORANDUM

RE- C-2234

DATE 5-22-79

SUBJECT: Aux. BLDG FIVE STAR GROUT

REF: BEM C-2217

AAO COORDINATION: Date 5-22-79 /Time — /AAO Contact D. ZANESE

PROJECT ENGINEERING HAS EVALUATED THE ATTACHED FIELD ENGINEER'S REPORT AND HAS FOUND ITS CONTENTS TO BE ACCEPTABLE.

POOR ORIGINAL

ATTACHMENTS:

4 PAGE FIELD ENG'RS REPORT BY B.T. HOWARD DATED 5-21-79.

RESIDENT ENGINEER J. Fortman

AAO Review: Group Supervisor _____

Date: _____

MIDLAND UNITS 1 & 2

JOB 7220 DATE 5/21/79 PAGE 1 OF 24

ITEM NO.	INSPECTION DESCRIPTION	ACTION REQUIRED/TAKEN
1	ATTACHED ARE "AS BUILT" DETAILS OF MICROCRACKING IN TWO EL. 568'-0" PUMPS — 1P-64B & 2P-64A. THESE ARE THE ONLY TWO LARGE PUMP BASES (OVER 6" IN DEPTH) WHICH RECEIVED FIVE STAR GROUT. HOWEVER, ACCORDING TO U.S. GROUT, THE MANUFACTURERS OF FIVE STAR, THE 9" GROUT PLACEMENTS IN THE REFERENCED PUMP BASES ARE STRUCTURALLY SOUND EVEN WITH THE MICROCRACKING. (SEE pg 3, ATTACHED)	1 FIELD ENGINEERING RECOMMENDS THE TWO REFERENCED PUMP BASES BE USED "AS IS" AND THAT PROJECT ENG. DISPOSITION NCE M-01-4-9-044 ACCORDINGLY PER REM C-2234
2	THE ROOT CAUSE OF THE MISUSE OF 5 STAR GROUT ON 9" PLACEMENTS WAS UNINFORMED ENGINEERS & Q.C. PERSONNEL	ACTION TAKEN: RICK KOWALSKI, CONCRETE ENGINEER ISSUED A MEMO TO ALL SUPTS. & ENG. ON MAY 11, 1979 A "PLACEMENT CRITERIA FOR NON-SHRINK GROUTS." (ATTACHED-pg)

UNCONTROLLED NOT TO BE USED FOR CONSTRUCTION

REMARKS:

POOR ORIGINAL

SIGNATURE

ROUTE
J. BETTS
S. SCHMITSCH
T. BLACK, C.P.

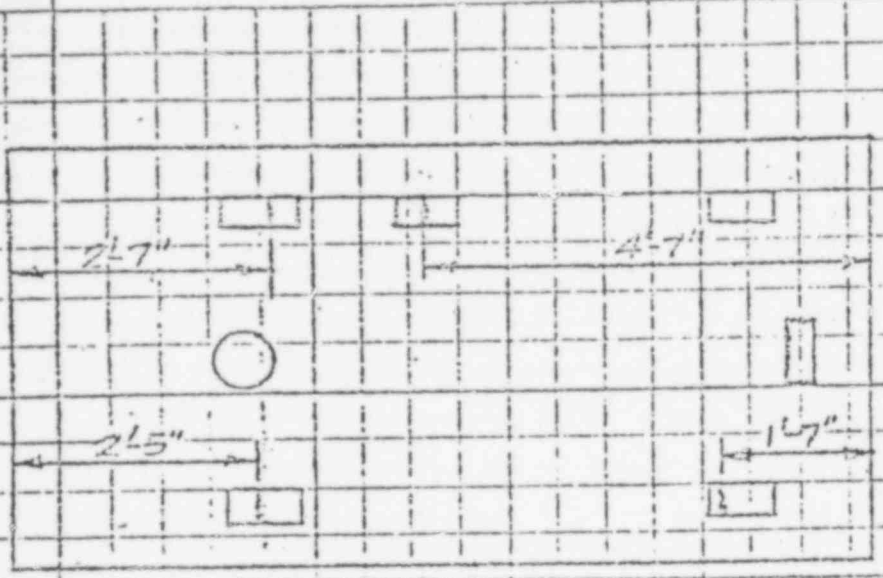
FILE MID. BLDG. - CIVIL

FIELD ENGINEER'S REPORT FORM

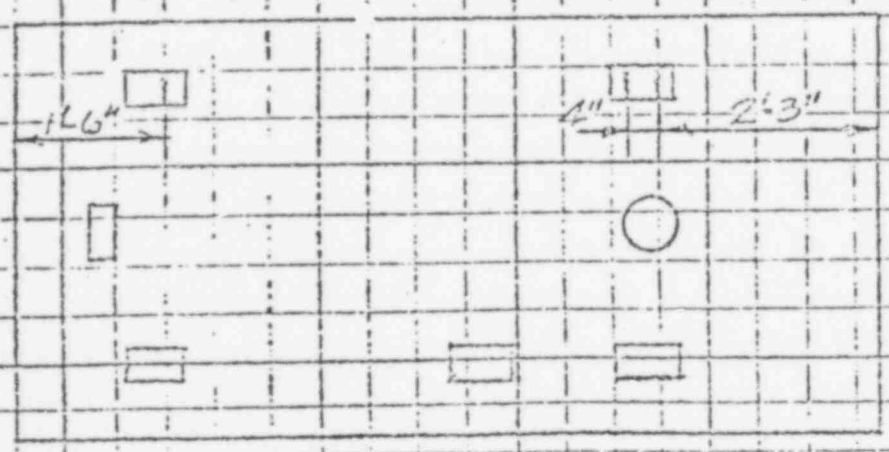
MIDLAND UNITS 1 & 2

JOB 7220 DATE 5/21/79 PAGE 2 OF 4

ITEM NO.	INSPECTION DESCRIPTION	ACTION REQUIRED/TAKEN



2P-64B (8'-9" LG. X 4'-4 1/4" WIDE PAD)



2P-64A (8'-9" LG. X 4'-4 1/4" WIDE PAD)

UNCONTROLLED NOT TO BE USED FOR CONSTRUCTION

REMARKS: PLAN VIEWS OF MICRO CRACKING IN THE BASE PLATE GROUT OPENINGS OF PUMPS. NONE OF THESE CRACKS APPEAR BELOW PUMP BASES AT SAME LOCATION AS ON TOP — THEREFORE DO NOT APPEAR CONTINUOUS.

B. Fowler
SIGNATURE

ROUTE
J. Betts
S. Schmitsch

FILE AUX. 3.04 - C

POOR ORIGINAL

Page 5014

Main Office
d Greenwich, Conn.
(203) 637-4303

Engineering and Technical Center
Riverside, Conn. 06878
(203) 637-4305

U. S. GROUT CORPORATION

ENGINEERING AND TECHNICAL CENTER
1154-56 East Putnam Avenue
Riverside, Connecticut 06878
Telex 996541 Cable: FIVE STAR

May 10, 1979

Mr. Jack Howard
Lead Civil Engineer
Auxiliary Building
BECHTEL POWER CORPORATION
Midland Project
P. O. Box 2167
Midland, MI 48640

Dear Jack:

This letter is to confirm our conversation about the placement of Five Star Grout at a nine-inch depth underneath some pumps.

Some micro-cracking should occur at that kind of depth because of the high cement content and the resulting heat of hydration. However, a lot of this micro-cracking would be held down as there are, apparently, I-beams located underneath the pump baseplate. Additionally, what micro-cracking does occur, if any, should not give you any structural problems.

In the future, if you must place Five Star Grout in depths over approximately four inches, micro-cracking can be prevented by the use of 3/8 inches clean, washed pea gravel, 20 to 25 pounds per cubic foot of Five Star Grout, use of ice water to hold the heat of hydration down, and after the grout has been placed, flooding the area so that the grout is submerged and cured under water after it reaches final set. Reinforcing wire or rebar should be considered for depths much over eight or nine inches.

If you have questions, or if we can be of service to y at any time, please contact John Reilly or myself.

Very truly yours,

UNCONTROLLED
NOT TO BE USED
FOR CONSTRUCTION

Theodore S. Babcock
Vice President, Operations

TSB:st
cc: Mr. John Reilly

POOR ORIGINAL

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. NONCONFORMING PART NO:	8. NONCONFORMING PART NAME:	1. NCR SERIAL NO:
Midland 1 & 2	OB65, OB66 OB69, 1B63, 2B63	Motor Control Centers	M-01-4-9-060
9. DRAWING NUMBER:	**10. ORG. COMPLETING NC:**	**11. AREA/LOC. OF NC:**	**2. DATE:** 6-1-79
NA	Bechtel QC	Service Water Building	**3. DATE OF REV:** Closed 7-10-79
			4. FILE NO: 16.3.6

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

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:
LADreisbach

INFO COPY:

WLBarclay	JMilandin
WRBird	DBMiller
TCCooke	WGMoring
JLCorley	JFNewgen
RHermeston	RASimanek
SHHowell	DATaggart
DRJohnson	
GSKeeley	
BWMarguglio	
PAMartinez	

13. QA RECOMMENDATION FOR PART CA:

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/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 [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:	23. WRITTEN REPLY REQUIRED BY: 6-14-79 TO ESTABLISH CA COMPLETION DATE	24. SUPERVISOR'S SIGNATURE/DATE: DRKeating 6-1-79

25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

June 13, 1979 - Welding QCIR #C304-1136W documentation reviewed, corrected and updated as necessary in accordance with QCI W-1.00. Documentation verified on July 10, 1979.

POOR ORIGINAL

26. DESIGN/PROJECT SIG. AUTH. DESP.: NA	27. PRO SIG. AUTH. DESP.: NA	28. PROCUREMENT SIG. AUTH. DESP.: NA	29. SIG. OF ORG. RESP. FOR C/A: See Letter LAD: 980
30. FAB/CONST. SIG. AUTH. DSP. DESP.: See Letter LAD: 980	31. SIG. OF TEST GROUP ACCEPT. CONDITION: NA	32. FOR MATLS NCR - PLT. SUPT. SIG. AUTH. DESP.: NA	33. QA AUTH. SIG. TO DISPOSITION DESP.:

34. VERIFIED IF PART CA VERIFICATION:

Reviewed QCIR #C304-1136W documentation package.

839 032

35. SIG. OF ORG. RESP. FOR PART C/A SATISFACTORY COMPLETION: See Letter LAD: 980	36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL DATE: 7/10/79	37. NCR CLOSED BY/DATE: PART & PROCESS CA COMPLETE: 7/10/79

82-1141 S/A: 05226 EQUIPCL: 31442 ADMIN: 73-10-03

Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

M-01-4-9-060

NCR SERIAL NUMBER:

38. QA ASSESSMENT OF ROOT CAUSE(S):

To be determined.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

See letter LAD: 980.

40. PROCESS CA REQUIRED FROM:

DESIGN ☐ FABRICATION ☐ CONSTRUCTION ☐ PROCUREMENT ☐ INSPECTION ☒ X

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

To be determined.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

6/13/79 - See letter LAD: 980

POOR ORIGINAL

43. METHOD OF PROCESS CA VERIFICATION:

1. Reviewed and verified corrected QCIR #C304-1136W. Corrected by Welding QCE CGroat and LWQCE BDaly.

830 033

44. ORG. OF IND. RESPONSIBLE FOR PROCESS CA VERIFYING COMPLETION:

See Letter LAD: 980

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

7-10-79

NCR SERIAL NO: M-01-4-9-060
DATE: 6-1-79
DATE OF REV: Closed 7-10-79
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.

CONSUMERS POWER COMPANY
RECEIVED
JUL 2 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640

June 28, 1979

Consumers Power Company
P. O. Box 1963
Midland, MI 48640

Attention: J. L. Corley

Job 7220 Midland Project
CPCo NCR No. M-01-4-9-060
Complete Response
LAD-980 Action Item-803

Dear Mr. Corley:

This is Bechtel's response to the items of nonconformance identified in the referenced CPCo NCR. The reported nonconformances relate to Bechtel Field Engineering and Quality Control's failure to follow the QCI W 1.00 instructions.

1) CPCo Finding (Block 12)

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.

Bechtel Response

The correct welding procedure was referenced on QCIR C-304-1136 although the general welding standard GWS-FM was incorrectly identified and should have referenced GWS-Structural. The QCIR has been corrected.

2) CPCo Finding (Block 12)

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 numbers(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.

Bechtel Response (continued on page 2)

839 035

JLC
DRK DRK
RGW
PRK
KJLL QE
QE
FILE

The reference criteria sheet for QCIR C-304-1136 lists FCR-C1871, C-1896, C-1920 which is correct and no further action is required.

3) CPCo Finding (Block 12)

QCI W-1.00 and Project Quality Control Instruction (PQCI) No. 7220/ W-1.00B Activity 2.1a required 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, accura and up-to-date.

Contrary to the above, SUN, M (welder symbol E118) test qualified on 4-12-79. QCIR #304-1136W indicates the record was reviewed by welding QCE on 3-28-79.

Bechtel Response

Welder E-118 (M.Sun) was identified on the above referenced QCIR on 5-3-79, 5-9-79 and 5-17-79. The QCE's review of welder qualifications on 3-28-79 was for E-115 and E-74. When welder E-118 was assigned to the above referenced QCIR the QCE reviewed the welder qualifications, but did not initial and date 2.1(a) on 5-3-79. Subsequently the QCIR has been corrected and the welders qualifications were valid at the time.

CPCo Recommendation for Part CA (Item (1)):

Assure hardware is not affected by referencing wrong welding procedure and reference criteria.

Bechtel Response

The SMAW variables of GWS-FM with respect to GWS-Structural are equal or exceed GWS-Structural requirements therefore the hardware was not effected.

CPCo Recommendation for Part CA (Item (2)):

Review, correct and update documentation as necessary in accordance with QCI W-1.00.

Bechtel Response

839 036

As stated above in Bechtel's Response, the applicable documents have been reviewed, corrected and updated. QCE's have been appraised of the above by copy of the subject CPCo NCR for review and initialing.

If you have any further questions, please contact this office.

Very truly yours,

L. A. Dreisbach
Project Quality Assurance
Engineer

LAD/HAA/bsm

cc: W. Bird
B. Marguglio

Consumers Power Company

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

"AS IS" CONDITION VERSUS "AS REQUIRED" /"AS WELDED" CONDITION WI[illegible]:

Specification A-41, Field Priming and/or Re Coating of Steel Surfaces, Schedule I calls for 2.0 to 4.0 mils DFT of primer for System No 1. 4.3 states, Acceptance Standards - dry film paint thickness readings exceeding the maximum by 20% and below the minimum by 0% are acceptable for a maximum of 20% of the readings (1 out of 5)".

Contrary to the above, a flued head 27.33 coated June 13, 1979 with C2-11, measured 5 mil thickness. When questioned by the auditor, the Quality Control Engineer indicated that it was acceptable because it did not exceed 20% of the readings. When the auditor pointed out that 5 mils exceed the maximum by more than 20% (4 mils @ 120% = 4.8 mils) a DR was written by the QCE.

AFR SER NO: M-01-18-9-01

PROJ/DEPT AUDITED: Bechtel QC & Const

DATE OF ORIGINATION: 7-12-79

FILE NUMBER: 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:

Determine the extent of the exceeding film thickness and correct as required, and determine root cause and take corrective action to preclude repetition.

CORRECTIVE ACTION COMMITMENT:

Flued head was reblasted and recoated by June 19, 1979.

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A: Bechtel QC & Const

PERSON MAKING C/A COMMITMENT: NA

METHOD OF VERIFICATION:

POOR ORIGINAL

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", NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

IF "YES", WHO MADE REPORT: NA

AFR ORIGINATOR'S SIGNATURE: R G Wollney for GT Black

SUPERVISOR'S SIGNATURE: [signature] 7/12/79

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:

Specification A-41, Field Priming and/or Top Coating of Steel Surfaces, 8.3.3 states, "Application of coating shall be in accordance with the manufacturer's instructions..."

Manufacturer's instructions for time between coats are:

18 hours @ 75°F
12 hours @ 90°F

Contrary to the above, rear snubber brackets coated with phenoline 305 on June 18, 1979 were given three coats on that day without curing between coats. Cratering or "fish eyes" resulted in the top coat.

AFR SER NO: M-01-18-9-02

PROJ/DEPT AUDITED: Bechtel QC & Const

DATE OF ORIGINATION: 7-12-79

FILE NUMBER: 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:

Correct the coating deficiency as required and determine root cause and take corrective action to preclude repetition.

CORRECTIVE ACTION COMMITMENT:

Snubber brackets were reblasted and recoated by June 29, 1979.

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A: Bechtel QC

PERSON MAKING C/A COMMITMENT: NA

METHOD OF VERIFICATION:

POOR ORIGINAL

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: RG Wollney for GT Black

SUPERVISOR'S SIGNATURE: [signature] 7/12/79

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:

PQCI C-8.50 Inspection of Surface Preparation, Application, Touch-Up and Repair of Coatings, Special Instruction #2 states, "When preparing Block No 7 'Reference Criteria' on the IR, the QCE shall enter the documents necessary to perform the designated inspections. These documents shall include: (1) The primary specification(s) revision number(s), with all Specification Change Notices and applicable FCR's..."

Contrary to the above, IR #C-8.50-227 on June 19, 1979 did not include SCN's A-41-9001 and 9002 as part of the reference criteria.

AFR SER NO: M-01-18-9-03

PROJ/DEPT AUDITED: Bechtel QC & Const

DATE OF ORIGINATION: 7-12-79

FILE NUMBER: 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:

Update the IR to reflect the correct reference criteria as required, and reivew and update, as necessary, all C-8.50 IR's since issuance of SCN's A-41-9001 and 9002.

CORRECTIVE ACTION COMMITMENT:

IR #C-3.50-227 was corrected prior to the issuance of this AFR.

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A: Bechtel QC

PERSON MAKING C/A COMMITMENT: NA

METHOD OF VERIFICATION:

POOR ORIGINAL

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: PG Wollney for G T Black

SUPERVISOR'S SIGNATURE: [signature] 7/12/79

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:

Specification A-41, Field Priming and/or Top Coating of Steel Surfaces, 7.5.2b and 8.3.2b states, "The surface temperature of the metal to be cleaned shall be at least 5°F above the dew point (tolerance of -1°F may be allowed for embedded steel items only) unless indicated 'No' on Schedule I".

Contrary to the above Inspection Reports, #C-8.50-123 and 225 indicate surface temperature of the steel within 5°F of the dew point, and indicate preparation and coating of steel on that day.

AFR SER NO: M-01-18-9-04

PROJ/DEPT AUDITED: Bechtel QC & Const

DATE OF ORIGINATION: 7-12-79

FILE NUMBER: 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:

Review and determine material(s) prepared and/or coated on those dates, and document on NCR for Project Engineering disposition. Determine root cause and take corrective action to preclude repetition.

CORRECTIVE ACTION COMMITMENT:

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A: Bechtel QC

PERSON MAKING C/A COMMITMENT: NA

METHOD OF VERIFICATION:

POOR ORIGINAL

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", NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

IF "YES", WHO MADE REPORT: NA

AFR ORIGINATOR'S SIGNATURE: R G Wollney for G T Black

SUPERVISOR'S SIGNATURE: 7/12/79

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:

Inspection Record C-8.50 does not provide for documentation of results of readings for surface profile, film thickness, or time between coats which is contrary to 10CFR50, Appendix B, Criterion XVII.

AFR SER NO: M-01-18-9-05

PROJ/DEPT AUDITED: Bechtel QC & Const

DATE OF ORIGINATION: 7-12-79

FILE NUMBER: 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:

Change the PQCI to meet the requirements of 10CFR50 Appendix B, Criterion XVII.

CORRECTIVE ACTION COMMITMENT:

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A: Bechtel QC

PERSON MAKING C/A COMMITMENT: NA

METHOD OF VERIFICATION:

POOR ORIGINAL

IS AN 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: RG Wollney for G.T. Black

SUPERVISOR'S SIGNATURE: [signature] 7/12/79

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:

Consumers Power Company

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

"AS IS" CON. 'ON VERSUS "AS REQUIRED" /"AS NEEDED" CONDITION WITH REFERENCES:

PQCI C-8.50 indicates inspection of the final coat under "Final Inspection Activities 3.1" but does not provide direction for film thickness readings and documentation, which is contrary to Spec A-41.

AFR SER NO: M-01-18-9-06

PROJ/DEPT AUDITED: Bechtel QC & Const

DATE OF ORIGINATION: 7-12-79

FILE NUMBER: 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:

Change the PQCI to include the requirements of Spec A-41, Section 8.4.2 and 11.3.3e.

CORRECTIVE ACTION COMMITMENT:

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A: Bechtel QC

PERSON MAKING C/A COMMITMENT: NA

METHOD OF VERIFICATION:

POOR ORIGINAL

839 043

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'S SIGNATURE: R G Wollney for G T Black

SUPERVISOR'S SIGNATURE: 7/12/79

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:

Spec A-41 and PQCI C-8.50 require the measurement of film thickness measurements of coatings. Nowhere is the quantity of tests per area or surface delineated for acceptance determination, which is contrary to 10CFR50, Appendix B, Criterion V.

AFR SER NO: M-01-18-9-07

PROJ/DEPT AUDITED: Bechtel QC & Const

DATE OF ORIGINATION: 7-12-79

FILE NUMBER: 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:

Change the PQCI to meet the requirements of 10CFR50, Appendix B, Criterion V.

CORRECTIVE ACTION COMMITMENT:

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A: Bechtel QC

PERSON MAKING C/A COMMITMENT: NA

METHOD OF VERIFICATION:

POOR ORIGINAL

839 044

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", NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

IF "YES", WHO MADE REPORT: NA

AFR ORIGINATOR'S SIGNATURE: RG Wollney for G T Black

SUPERVISOR'S SIGNATURE: 7/12/79

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 6.2 of FPE-7.000 states that, "Tools shall be calibrated in accordance with calibration electrical termination tool FIG-6.122".

The following terminations were accomplished with termination tools indicated that were found to be out of calibration:

Cable	Termination Tool No
1AA0001 G-2	BPC-2398 (DAT)
1AA0001 K-1	BPC-2398 (DAT)
1AA0507 N-1	BPC-2569 (DDC)
1AB2301 C-2	BPC-2398 (DAT)
1AB2305 D-2	BPC-2530 (BBX)
1AB2306 B-2	BPC 2530 (BBX)
1AB2313 D-1	BPC-2569 (DDC)
1AB2327 A-2	BPC-2530 (BBX)
1AB2339 O-2	BPC-2530 (BBX)
2BB5609 C-1	BPC-2527 (DBU)
2BB5611 C-1	BPC-2527 (DBU)
2BB5603 L-1	BPC-2527 (DBU)
2BB5603 G-1	BPC-2727 (DBU)
2BA0603 E-1	BPC-2527 (DBU)

(Over)

AFR SER NO: M-01-20-9-01

PROJ/DEPT AUDITED: Bechtel QC

DATE OF ORIGINATION: 7-10-79

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:

It is recommended that Project Engineering determine the disposition of the above, ie, repair, use-as-is, etc. This should include, as a minimum, reinspection that includes "pull test" on 100% of the terminations listed above. It is further recommended that Bechtel QA determine and correct the condition that permits a difference in the Electrical Cable Report and a special run to cover a selected tool number.

CORRECTIVE ACTION COMMITMENT:

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A: Field Engineering

PERSON MAKING C/A COMMITMENT:

METHOD OF VERIFICATION:

POOR ORIGINAL

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", NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

IF "YES", WHO MADE REPORT: NA

AFR ORIGINATOR'S SIGNATURE: Edgar A Jones

SUPERVISOR'S SIGNATURE: [signature] 7/27/79

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:

Consumers Power Company

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT

CONTINUATION SHEET:

"AS IS" CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED):

Cable	Termination Tool No
1BB5628 B-1	BPC-2527 (DBU)
1BB5620 C-1	BPC-2727 (DBU)

Of 150 terminations checked, 14 were found to have been terminated with tools later found to be out of calibration. Condition is considered to be indeterminate.

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

CORRECTIVE ACTION (CONTINUED):

POOR ORIGINAL

AUTH. ORGANIZATION SIGNATURE: Edgar A. Jones

SUPERVISOR'S SIGNATURE:

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 6.7 of FPE-7.000 states in part, "Cable supports or harnesses shall be installed where necessary to ensure that no load is applied to the points of termination".

Contrary to the above, cable 1AA0501 D-1 located inside panel 1C15 enters from a wireway on a vertical run and is not supported inside the panel except with the terminations.

AFR SER NO: M-01-20-9-02

PROJ/DEPT AUDITED: Bechtel QC

DATE OF ORIGINATION: 7-10-79

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:

Recommend that a ty-wrap be used and the cable be adjusted a few inches to tie it down to bracket that is installed for this purpose.

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:

METHOD OF VERIFICATION:

POOR ORIGINAL

~~839 046~~

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", NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

IF "YES", WHO MADE REPORT: NA

AFR ORIGINATOR'S SIGNATURE: Edgar L Stones

SUPERVISOR'S SIGNATURE: [signature] 7/27/79

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:

839 047

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 5.1.2 of Drawing E-47 states in part, "These cable markings are applied prior to or during installation. Cables routed exclusively in conduits and ducts are marked at points of entry and exit only".

Contrary to the above, cable 1AA0001 G is not painted with channel identification inside cubicle 501 of switchgear 1A05.

AFR SER NO: M-01-20-9-03

PROJ/DEPT AUDITED: Bechtel QC

DATE OF ORIGINATION: 7-10-79

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:

Recommend that cable 1AA0001 G be properly identified with paint inside cubicle 501 of switchgear 1A05.

CORRECTIVE ACTION COMMITMENT:

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A: Bechtel QC

PERSON MAKING C/A COMMITMENT:

METHOD OF VERIFICATION:

POOR ORIGINAL

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: Robert L Jones

SUPERVISOR'S SIGNATURE: [signature] 7/27/79

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 6.7 of FPE-7.000 states in part, "Cables should not be routed, or secured against sharp edges".

Contrary to the above, cable 1AA0509 P is routed through a loose copper strap inside cubicle 509 of switchgear 1A05 that has sharp edges.

AFR SER NO: M-01-20-9-04

PROJ/DEPT AUDITED: Bechtel QC

DATE OF ORIGINATION: 7-10-79

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:

It is recommended that the loose copper strap be removed or tightened down.

CORRECTIVE ACTION COMMITMENT:

Strap was tightened down during course of the audit - 7/11/79.

DATE OF C/A COMPLETION: 7/11/79

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A: Bechtel Construction

PERSON MAKING C/A COMMITMENT: Bechtel QC

METHOD OF VERIFICATION:

Walkdown check on 7/25/79.

POOR ORIGINAL

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'S SIGNATURE: Elgin T Jones

SUPERVISOR'S SIGNATURE: [signature] 7/27/79

C/A VERIFICATION SIGNATURE: Elgin T Jones

VERIFICATION DATE: 7/25/79

Consumers Power Company

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

"AS IS" CONDITION VERSUS "AS REQUIRED" /"AS NEEDED" CONDITION WITH REFERENCES:

Activity No 3.8 of PQCI No 7220/E-5.0 states in part, "Verify that the termination is to the correct point in the equipment as shown in the connection drawing".

Contrary to the above, 12 each terminations were found to have differences between the actual installation and that shown on either the Inspection Record or on the connection drawing E-900. A list of these terminations showing the cable scheme number, termination per drawing E-900, termination per Inspection Record, and the actual termination as found by the auditor is attached.

AFR SER NO: M-01-20-9-05

DEPT/DEPT AUDITED: Bechtel QC

DATE OF ORIGINATION: 7-10-79

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:

It is recommended that corrective action be taken to have drawing E-900 and the Inspection Record agree with the actual installation.

CORRECTIVE ACTION COMMITMENT:

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A: Field Engineering

PERSON MAKING C/A COMMITMENT:

METHOD OF VERIFICATION:

POOR ORIGINAL

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", NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

IF "YES", WHO MADE REPORT: NA

AFR ORIGINATOR'S SIGNATURE: Edgar N. Jones

SUPERVISOR'S SIGNATURE: [signature] 7/27/79

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:

Attachment to AFR M-01-20-9-05

Cable Scheme No	Termination Per Drawing E-900	Termination Per Inspection Record	Termination Per Actual Installation
1AA0511 N-2	(22)BK; (2P2)WH; (3SP) RD; (4SP)GR; (5SP)OR; (6SP)BL; (7SP)W-BK; (12)R-BK.	(22)BK; (2P2)WH; (3SP)RD; (4SP)GR; (5SP)OR; (6SP)BL; (7SP)W-BK; (8SP)R-BK.	(22)BK; (2P2)WH; (3SP)RD; (4SP)GR; (5SP)OR; (6SP)BL (7SP)W-BK; (8SP)R-BK.
1AA0511 V-2	(1Ƶ)BK; (2Ƶ)WH. Shows 1Ƶ ASTM-1 and 2Ƶ ASTM-14.	(10Ƶ)BK; (20Ƶ WH.	(1Ƶ)BK; (2Ƶ)WH. 1Ƶ is actually on terminal #1 and 2Ƶ on terminal #14.
1AA0512 M-1	(22)BK; (2P2)WH; (3SP) RD; (4SP)GR; (5SP)OR; (6SP)BL; (7SP)W-BK; (12)R-BK; (9SP)G-BK.	(22)BK; (2P2)WH; (3SP)RD; (4SP)GR; (5SP)OR; (6SP)BL; (7SP)W-BK; (8SP)R-BK; (9SP)G-BK.	(22)BK; (2P2)WH; (3SP)RD; (4SP)GR; (5SP)OR; (6SP) BL; (7SP)W-BK; (8SP)R-BK; (9SP)G-BK.
1AA0512 M-2	(22)BK; (2P2)WH; (3SP) RD; (4SP)GR; (5SP)OR; (6SP)BL; (7SP)W-BK; (12)R-BK; (9SP)G-BK.	(22)BK; (2P2)WH; (3SP)RD; (4SP)GR; (5SP)OR; (6SP)BL; (7SP)W-BK; (8SP)R-BK; (9SP)G-BK.	(22)BK; (2P2)WH; (3SP)RD; (4SP)GR; (5SP)OR; (6SP)BL (7SP)W-BK; (8SP)R-BK; (9SP)G-BK.
1AB1701 G-1	(1V2)WH; (2V2)BK; (SHLD)SHLD.	(1V2)WH; (2V2)BK; ( )	(1V2)WH; (2V2)BK; (SHLD)SHLD.
1AB2301 C-1a	(12R)BK; (2U)WH; (3T)RD; (4C)GR; (5G)OR.	(1SP)BK; (2U)WH; (3T)RD; (4C)GR; (5SP)OR.	(1SP)BK; (2U)WH; (3T)RD; (4C)GR; (5SP)OR.
1AB2301 C-2	(12R)BK; (2U)WH; (3T)RD; (4C)GR; (5G)OR.	(1SP)BK; (2U)WH; (3T)RD; (4C)GR; (5SP)OR.	(1SP)BK; (2U)WH; (3T)RD; (4C)GR; (5SP)OR.
1AB2312 C-2	(12R)BK; (2U)WH; (3T)RD; (4C)GR; (5G)OR.	(1SP)BK; (2U)WH; (3T)RD; (4C)GR; (5SP)OR.	(12R)BK; (2U)WH; (3T)RD; (4C)GR; (5G)OR.
1AB2326 F-1	(11)BK; (2U)WH; (BR)RD; (4)GR; (5G)OR; (8)BL; (9)W-BK.	(11)BK; (2U)WH; (34)RD; (4)GR; (5G)OR; (8)BL; (9)W-BK.	(11)BK; (2U)WH; (3R)RD; (4)GR; (5G)OR; (8)BL; (9)W-BK.
1AB2329 C-1	(1X1)BK; (2U)WH; (3R)RD; (4)GR; (5G)OR; (6)BL; (7)W-BK; (8)R-BK; (9)G-BK; (10)O-BK; (11)BLBK; (12)BK-W.	(1X1)BK; (2U)WH; (3R)RD; (4)GR; (5G)OR; (6)BL; (7)W-BK; (8)R-BK; (9)G-BK; (10)O-BK; (11)BLBK; (12SP)BK-W.	(1X1)BK; (2U)WH; (3R)RD; (4)GR; (5G)OR; (6)BL; (7)W-BK; (8)R-BK; (9)G-BK; (10)O-BK; (11)BLBK; (12)BK-W.
1AB2330 F-2	(14)WH; (24)BK; SHLD(float).	(14) ; (24) ;	(14)WH; (1)BK; SHLD(float
1AB2330 G-2	(15)WH; (25)BK; SHLD(float).	(15) ; (25) ;	(13)WH; (2)BK; SHLD(float

839 051

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

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RECOMMENDED CORRECTIVE ACTION:

Identify materials in accordance with FPG-4.000 6.1 and 6.4.3 by June 14, 1979.

CORRECTIVE ACTION COMMITMENT:

Materials to be identified.

DATE OF C/A COMPLETION: 7-2-79

DATE OF C/A EFFECTIVENESS: 7-2-79

ORG. RESP FOR C/A: Bechtel Construction

PERSON MAKING C/A COMMITMENT: NA

METHOD OF VERIFICATION:

Verified identification of materials.

POOR ORIGINAL

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

AFR ORIGINATOR'S SIGNATURE: A. A. Bieda

SUPERVISOR'S SIGNATURE: J. Blaney 5/31/79

C/A VERIFICATION SIGNATURE: A. A. Bieda

VERIFICATION DATE: 7/16/79

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

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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:

See attached letter LAD-993.

DATE OF C/A COMPLETION: 7-2-79

DATE OF C/A EFFECTIVENESS: 7-2-79

ORG. RESP FOR C/A: Bechtel Const & QC

PERSON MAKING C/A COMMITMENT: NA

METHOD OF VERIFICATION:

Verified documentation of inspection, assignment of MR&S Engineer, and new distribution routine per letter LAD-993 (attached).

POOR ORIGINAL

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", NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

IF "YES", WHO MADE REPORT: NA

AFR ORIGINATOR'S SIGNATURE: H. J. Bleadsdale

SUPERVISOR'S SIGNATURE: [signature] 5/31/79

C/A VERIFICATION SIGNATURE: H. J. Bleadsdale

VERIFICATION DATE: 7/16/79

CORRECTIVE ACTION REPORT

(1) Unit S/U System Discip Serial: 2 - 3GA - M - 021

(2) Description of Deficiency

VALVE 2XV-0413B (4041073) HAS BEEN WELDED INTO THE MAKEUP AND PURIFICATION (UNIT 2) SYSTEM BACKWARDS. (IE.- THE FLOW PATH THROUGH THE VALVE WILL BE IN THE WRONG DIRECTION.)

☐ (√) Con't on Attachment

(3) Recommended Corrective Action and Retest

REWELD THE VALVE INTO THE SYSTEM IN THE PROPER DIRECTION.

☐ (√) Con't on Attachment

(4) Related Documents and References

~~NONE~~

P&ID M 104 SH 1
CO-ORDINATES E-5

☒ (5) Deficiency
☐ Design Chg
☐ Troubleshoot
☐ Maintenance
☐ Retest Only

(6) Initial: B,P,C

ACTION — Subseqnt:

(7) Cause: 0,2

Category: 0,5

☐ Retest Req
☒ Q-Listed

NRC Reportability 10CFR50,55e (8)
☒ Not Reportable Paul Kuhlman 25 JUL 79
☐ Reportable; QA Notified _____

(9) Signature	Name	Date	Time
Orig:		7/17/79	0900
FE/TE: Duane H. Kanute		7-30-79	0950
PS/PTS: Paul Kuhlman		31 JUL 79	0800

(10) Corrective Action or Response:

839 054

POOR ORIGINAL

Action Organization Representative _____ Date _____

CONSUMERS POWER COMPANY
RECEIVED
AUG 3 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

☐ (√) Con't on Attachment

(11) Retest Complete TE:	Date
Completion Review Signature	Date
QA:	
TE:	
PS/PTS:	