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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1447	8-1-78	F-3107. Piece mark numbers are not visible on material NPS Shipment number NPSI-6845 & NPSI-6842	Rework	9-1-78	R. Montreuil
1448	8-2-78	Spec. C-231. ACI-347 - Formwork for concrete constructed such that concrete is not poured to correct dim. 672'6 to 693'6	Rework & Use as is	1-12-79	E. Dutton
1449	8-2-78	M-18AC. Foundation Equip. for Emer. Diesel Gen. - fillet welds delivered have undersize legs & throats, undercutting, etc.	Use as is Doc. Rework	9-25-78	J.R. Slifer
1450	8-2-78	M-106AC. Pipe Hangers EMD-060-01, No Quality Verification Documentation received on site for this material.	Doc. Rework	9-1-78	R. Montreuil
1451	8-3-78	J-256AC. Nuclear Service Solenoid Valves - Cleaning Verification Reports were not included in Doc. Pkg.	Doc. Rework	9-13-78	D. Delaney
1452	8-2-78	BQAM, Stock ASME-Sec. NF Mat'l PO's issued to Supplier w/o Procurement Insp. Dept. survey being accomplished.	Use as is	8-22-78	J. Slifer
1453	8-2-78	C-231. Form Removal - Tank Farm Footer forms for the second tank farm footer were broken while removing previous forms.	Use as is	8-25-78 8-21-78	B. Cheek
1454	8-3-78	C-231. Concrete Curing - 3' of formwork @ construction joint (pours #4 & 5) were stripped after 24 hours. Tank Farm	Use as is	8-23-78	S. Kirker
1455	8-3-78	M-204. Field Weld #18, Dwg. M-618 Sh. 1 was welded on without inspection by FWE or QCWE. SW Bldg. El. 623'	Rework	8-30-78	B. Daly
1456	8-3-78	FSK-M-1HBC-498-2 - Yard Piping-Diesel Gen. Return Line has been bent & is not in accordance with the dwg.Test	Rework #976	8-14-78	L. Brown
1457	8-3-78	M-117AC. Valve 6"-EBB-GT-1Mo-3177A-RP, Shop Inspector did not sign page one of Form G-321-D. (Item #8.1)	Doc. Rework	8-7-78	J. Slifer
1458	8-4-78	E-42/ C-305 Expansion anchors not installed with required embedment.			
1459	8-4-78	M-104A. 2 Spools, 1ELB-9-S631-1-9, 2ELB-3-S639-13-1, delivered to site with no dessicant/rust scale.	Rework	11-21-78	J. Slifer
1460	8-8-78	J-256. Valves, No Cleaning Verification Report was included in the documentation pkg.	Doc. Rework	8-30-79	T. Estes
1461	8-7-78	M-14AC. Turbine Drivers for Aux. Feedwater Pumps 1P05B & 2P05B. Doc pkgs & Form G-321D do not agree.	Doc. Rework	10-17-78	T. Christofferson
1462	8-8-78	M-61. Makeup Filters & Spare Filter Cartridges - Misc. Documentation problems, no radiographic film received.	Doc. Rework	8-25-78	D. Delaney
1463	8-8-78	M-106AC. Pipe Hanger 657-44-10 is required to be painted in accordance with Spec. FC-49, Mat'l received unpainted.	Rework		
1464	8-9-78	F-3103. Struc. Steel Beams - delivered to the jobsite with re-entrant corners cut past the point of tangency.	Reject	11-20-78	C. Gwin
1465	8-9-78	M-204. Emer. Diesel Oil Supply Lines - have permanent welded attachments for which mat'l cert. has not been	Use as is n furnished.	11-30-78	F.Star r

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1466	8-10-78	J-204. Seismic Instrument Rack - tagging of rack does not agree with Bechtel Dwg. J-393.(panel 2C166)	Rework	9-8-78	J. Slifer
1467	8-10-78	J-204. Differential Pressure transmitter - Non-Q documentation was delivered . (1LT-2107A & 2LT-2207A)	Reject		
1468	8-14-78	M-305. Material received against M-305 without the required traceability.	Doc.Rework Reject	3-22-79	K. Deitz
1469	8-14-78	F-26182. 2 pcs 2½" 45° CS Elbows - manufactures name and heat number are illegible.	Reject	2-22-79	M. Moore
1470	8-14-78	M 1.7. Reactor Coolant Pump Motor Flywheel - Data pkg does not have a signed B & W NPGD Cert. of Conformance.	Doc. Rework	8-14-79	R. Valentine
1471	8-15-78	F-18375. Deformed Bar Anchors, do not meet min. tensil strength according to documentation received.	Use as is	9-13-78	T. Christofferson
1472	8-16 78	M-117AC. Nuclear Service Valves - Items # 11.1, 11.2, 11.3, 12.1 have numerous documentation problems.	Doc.Rework	1-19-79	D. Delaney
1473	8-15-78	F-27833. Zone 5A Rip Rap - mat'l received on ticket # 77389 does not meet size requirement called out by PO.	Reject	9-27-78	R. Montreuil
1474	8-17-78	M-125C. Numerous documentation problems on Valve s/n 5205-21-1-9, 10"HCB-GT-DRL	Doc.Rework	1-19-79	D. Delaney
1475	8-17-78	M-185C. Numerous Doc. problems on valves s/n 5205-06-1-1,2,3,4	Doc.Rework	1-19-79	D. Delaney
1476	8-17-78	M-125C. 4 Valves, missing repair verif. reports, paint flaking off valve operator, heat charts not legible/traceable	Use as is Doc. Rework		
1477	8-17-78	M-117AC. Doc. problems on 2 vlaves, s/n 4632-16-1-92 & 4632-16-1-94.	Doc.Rework	1-19-79	D. Delaney
1478	8-17-78	M-117AC . Doc. problems on 4 valves s/n 4632-13-1-90, 88,89,87	Rework Doc.Rework	3-12-79	L. Brown
1479	8-17-78	F-28362. Mainstream Anchors & Restraint Supports - 3 Beams delivered to jobsite with numerous Doc. problems.	Rework	5-17-79	E. Dutton
1480	8-18-78	CRD Primary AC Breaker - Relative humidity at which units were stored exceeded 60% requirement.	Use as is	11-22-78	K. Nilson
1481	8-21-78	Dwg. C-416. Embeds 601-3-12 & 601-3-13 were installed out of Dwg. design elev.	Use As Is	10-13-78	P. Vanderveer
1482	8-21-78	Civil QC (Survey) Settlement in the Diesel Generator Foundations and Structure			
1483	8-21-78	M-215. 4 pcs 6" Sch. 10 Tees - Heat # on Certified MTR does not agree with that stamped on pipe.	Doc.Rework	9-29-78	M. Donovan
1484	8-21-78	M-215. 6 pcs 12" Flanges - Form C-321D was not included on documentation pkg.	Doc.Rework	8-31-78	T. Christoffeson

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1599	10-25-78	FSK-MPY-98. 2"-1-HBC-498 and return line and return line 1½-1-HBC-4 are installed outside class I boundary	Rework		
1600	10-25-78	F-29361. 4 U-bolts were shipped without being listed on packing slip and therefore without certification	Doc.Rework	2-20-79	B. McGlashan
1601	10-25-78	J-207. No documentation or G-321D form	Doc. Rework	12-15-78	J. L. Slifer
1602	10-25-78	F-29400. supplier has shipped 300 ft. of 1 3/4 diameter bar while certifying only 200 feet.	Doc. Rework	11-30-78	R. Yonekawa
1603	10-25-78	M-64. Incorrect heat numbers on Heat number chart and welding control sheets.	Doc. rework	2-20-79	D. Delaney
1604	10-26-78	M204. 18 inch flange on pipe spool 2GCB-32-611-3-3 has a radial deficiency on the raised portion of flange.	Rework	12-14-78	L. Brown
1605	10-26-78	F-31705. Nuts have no manufactuer's mark.	Reject	11-29-78	J. Gray
1606	10-27-78	J-206. Valve item # ? tag # 5M6S2GN2, item #4.13 Tag# 5M15S2Gn2 No Quality Verification Documentation.	Doc.Rework	5-24-79	D. A. Delaney
1607	10-27-78	Spool 1HBC-4-619-6-1. Flange Face mismatched to Butterfly Valve	Rework	6-12-79	M. Allard
1608	10-30-78	F-3107. 5 pages of certified Material Test Repo.ts instead of the 6 stated on the G-321D.	Doc. Rework	12-7-78	R. A. Montreuil
1609	10-30-78	F-3107. Shop Inspector released 42 pages of Certified Material Test Reports contrary to this 39 were received	Doc. Rework	11-7-78	R. Montreuil
1610	10-30-78	F-3107. Discrepiancies in G-321D.	Doc. Rework	11-7-78	R. Montreuil
1611	10-30-78	M-104A. Base metal repair on Spool 2GCB-16-S613-2 shows linear indication in the horiz. weld seam.	Use As Is	6-15-79	L. Harrison
1612	10-30-78	J-204. Control panels 1C114 and 2C114. No Quality Verification on Doc. Package.	Doc. Rework		
1613	10-30-78	F-3107. Discrepencies in G-321-D.	Doc. Rework	11-14-78	R. Montreuil
1614	10-30-78	J-201. Number One Operator's Desk OC01, the layout of equip. on the operator's desk Tag #OC01 doesnt agree with	Rework; use as is J-748	8-23-79	A. Lobrovich
1615	10-31-78	Dwg. E-532 Battery Charger & Inverters, anchored in ½" dia. bolts instead of 3/4" dia bolts	Rework	1-11-79	A.M. Lobrovich
1616	10-30-78	E-205. Modification Equipment for Metal Clad Switch-gear. Mounting brackets arepositioned off bolt center line.	Rework	1-26-79	A. M. Lobrovich
1617	11-1-78	M-117. Four Nuclear Service Valves No Doc. supplied.	Doc. Rework	1-30-79	D. Delaney

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1694	12-8-78	M-1.27 Pressurizer Spray Control Valves. The dial Indicators of F-1-256 were notfunctioning whenvalves were cycled.	Rework	1-26-79	C. Fugate
1695	12-11-78	F-31391 275Pcs. of ASTM-A-449 Bolts Material Test Reports are unavailable due to lack of traceability tospecific lot.	Reject	1-31-79	M. Moore
1696	12-11-78	M-123-C Decay Heat Removal & Core Flood Tank 4-12" ACA-GT-R Valve. Wrong page Number on G-321-D	Rework	1-30-79	K. Deitz
1697	12-11-78	M-125-cc Nuclear Service Valves. No documentation was received on M-125-c.	Doc. Rework	1-29-79	J. Gray
1698	12-11-78	M-120-AC Nuclear Service Valves. Doc. doesn't correspond with G-321-D.	Rework	1-23-79	D. Delaney
1699	12-12-78	M-123-CC Nuclear Service Valve. Documentation doesn't correspond with G-321-D.	Rework	1-19-79	D. Delaney
1700	12-12-78	C-305 ENERPAC Unit w/gauge No. BPC 1444 was used and found to be out of tolerance.	Rework	1-10-79	K. Brinster
1701	12-12-78	M-120-AC Nuclear Service Valves Valve is stamped class 3, and should be class 2.	Rework	1-30-79	D. Delaney
1702	12-13-78	M-342 Two Shop Fabricated Pipe Spools, have flaking rust w/ possible pitting on interior surface of pipe.	Rework	5-10-79	M. Moore
1703	12-14-78	M-326 2½"-1HCC-87-H1, has 4 pcs. improperly identified.	Rework		
1704	12-14-78	E-20 Cable Penetrations Wire N-3 on penetration 2Z133 received pinched at 24 and 25 inches from the end.	#1 rework #2 reject		
1705	12-14-78	F-32187 Expoxy Container for part Aof cono/weld primer was received damaged and leaking.	#1 Use as is #2 Doc Rework	1-30-79	R. Montreuil
1706	12-14-78	E-13 DC Distribution Centers, two pages oftest certification for Esterline Angus Recorders,are illegible.	Doc Rework Use as Is	6-21-79	D. Delaney
1707	1244-78	J-258 Nuclear Service Butterfly Control Valve Transducers Name Tags Were wrong.	N/A	3-29-79	D. A. Delaney
1708	12-14-78	M-1.10 Maintenance Inspection, unable to locate material for inspection.	Rework	1-25-79	C. Fugate
1709	12-15-78	F-31834 Carboline 191 HB, Were Received Damaged, and exposed to air.	use as is	6-16-79	R. Valentine
1710	12-15-78	E-39 Seismil Wireway Support, Weld was omitted.	Use As Is	2-5-79	J.C. Huron
1711	12-15-78	G-27 Field Wled No. 26, was welded without a form WR6 or QCIR being issued for Doc.	Rework		
1712	12-15-78	E-7 Four Thermal Mag. Breaker & Rem Operators,Bechtel Shop Inspector 337 Released 4 Rotory Breaker Operators,	Reject	8-23-79 R. MacGlashan	

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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	Use As Is	8-27-79	R. Moray
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	Use As Is	8-14-79	R. A. Moray
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	Use As Is	8-3-79	R. Moray
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	Use As Is	8-30-79	R. Moray
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. [illegible] 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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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	6 DISPO.	8 DATE NCR CLOSED	9 CLOSED BY
1823	1-18-79	M-106 ITT GrinnellPipe Hangers,no Quality Verication Documentation was received with shop order (EMD-263)	POC. Rework		
1824	1-18-79	M-106 ITT Grinnell no Quality Verification Documentation was received with shipment,also material location is unknown.	Doc. Rework	3-16-79	R. Montreuil
1825	1-18-79	C-305 Seismic Conduit &Box Supports, these items haveG-305 supports attached to block wallswhich is not inacclrdancewith			
1826	1-20-79	J-253 ATmospheric Steam Pump Valves,tags for valves contain the wromg item number and valve I.D. number.	Doc. Rework		
1827	1-20-79	M-106 Bolts, no quality verification documentation was received for ITT Grinnell shop order EMD-149-01.	Doc. Rework	5-8-79	R. Montreuil
1828	1-20-79	C-304 Sleeve MFA 2A&2B, was done without an open Inspection Record.	Use AS Is		
1829	1-22-79	C-304 Fab. of angle frames, was accomplished without an open, inspection record.	Use As Is	2-15-79	J.C. Huron
1830	1-19-79	C-231 Concrete Curing, temperature were to low for to long of time.	Use As Is	8-7-79	C. Pavledes
1831	1-22-79	F-32624 Smls Butt Weld Elbows,G-321-D received wrong purchase spec.	Rework Doc. Repair	1-27-79	B. Mac Glashal
1832	1-22-79	G-24 Misc. Metals, inryco has hever submitted sample panels for approval.	Use As Is		
1833	1-23-79	M-204 Voltage Measurements indicated that 3 were welded to less volts.	Use As Is	3-23-79	J. Huron
1834	1-23-79	F-10-205 Station Batteries, Maintainance Deficiency.	Rework	3-22-79	M. Donovan
1835	1-25-79	C-50B-AC Emergency Airlock, Discrepancies for qaulity Verification documentation was found.	Use As Is	3-19-79	B. Mc Glashan
1836	1-25-79	F10-145 Service Water Pump Moters, power supply to motor space heaters has been disconnected since 1/12/79.	Use As Is	3-14-79	C. Fugate
1837	1-25-79	C-304 Installation of Cable Tray Supports, voltage measure was outside the WPS specified value.	Use As Is	6-12-79	D. Squires
1838	1-26-79	M-118 Main Steam Isolation Valve,Wrong Rev. on G321-D was inQVD pkg., valve reducers have wrongheat no. doc. don'tcorrs. with Q.V.D.pkg.	Doc. Rework	5-30-79	D. A. Delaney
1839	1-26-79	C-208 Embeded Channel, was cut out.	Uae As Is	3-6-79	J. Moyers
1840	1-29-79	M-134. Page 3 of 3 for Code Data Reports on G-321-D not received with valve shipment.	Doc. Rework	1-30-79	R. Valentine
1841	1-29-79	C-439 Pump return line restraint (1 embed, were installed	Rework Use As Is	~~12-20-77~~ 5-18-79	~~P. Vanderveer~~ S. Kirker

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1880	2-14-79	M-204 Spool 2HCB-16-604-6-3, has an arc strike on the north 90° elbow.	Rework	6-15-79	M. Gubitose
1881	2-15-79	M-169 Electric Hydrogen Recombiners, no documentation was receivedon control panel stand #82A,83A,84A,85A.	Doc. Rework	6-11-79	B. MacGlashan
1882	2-15-79	E-7 Starter Nema. Controller Type Magnetic Breakers. Item tags have missing or broken locks.	Rework	8-29-79	B. MacGlashan
1883	2-15-79	E-26 600volt control cable,cable ends on reels G-3340 & G-3319 were not protected.	Use As Is	4-11-79	T. J. Estes
1884	2-15-79	M-204 Spool 1FCB-15-S603-8-3, has two 45°elbows (Ht#JCMF) in violation of specification.	Use As Is	6-14-79	M. Gubitose
1885	2-15-79	psp G.3.2 Blockwall #15, additional work was performed on wall without prior conditional release.	this , Rework	2-21-79	S. Kirker
1886	2-1-79	M-106 1 Hanger Assembly no sketch was received with documentation package.	Doc. Rework	4-25-79	R. Montreuil
1887	2-15-79	J-255 Nuclear Service Control Valves, no documentation was received on this material.	Rework (Doc.)	2-23-79	R. MacGlashan
1888	2-16-79	NCR#1744 Threaded Nelson Stud Welds, was welded and no Quality Control Inspections were performed.	Use AS Is	4-4-79	S. Kirker
1889	2-16-79	C-1.10 Floor Mounted Instrument Racks are 'Q' listed &were grouted as Non'Q'.	Its not a nonconformance	2-19-79	S. Kirker
1890	2-16-79	C-304 Controlled drawings do not call out or show the connection used for tray run #1CVA	use as is	3-2-79	J. Miller
1891	2-16-79	C-304 Controlled drawings do not call out or show the connections used for type 1, sec.A beam and brace.	Use As Is	4-13-79	J. Miller
1892	2-16-79	G-3 Material received on MRR AEO-7429 as non--Q, has been changed to "Q"; material cannot be located.	Reject		
1893	2-16-79	F-29894 Cormor&Lada Fig. 121&12" & 16" Riser Clamp, clamp and stud dimensions incorrect.	Reject	3-28-79	B. Mc Glashan
1894	2-16-79	F-33799 9PCs.of2" Sch. 80C.S. Pipe SA-106 Gr. B, Pipe not traceable due to illegible marking of heat numbers.	reject	3-1-79	M. Moore
1895	2-19-79	E-45 9 each 125 Volt DC Distribution Panels,documentation was not received for distribution panels.0	Doc. Rework		
1896	2-19-79	F-20676 M-163 Single Seal Link Pack Unit, were not purchased as"Q"an nospecifications existed at timeof purachsed.			
1897	2-19-79	E-42 Conduit was damaged. (3" PVC)2AC008.	Repair	4-10-79	C. R. Urbany

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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.	Use As Is		
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	8-21-79	M. Moore
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 OHBC-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	8-27-79	J. Henderson
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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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 # 778 Insert, 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	8-9-79	W. Smith
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 Hanger 8"-OHBC-21-H4, item #1-4" M-beam was used instead of 3" S-Beam, & hanger is resting against pipe spool.	Rework		
2013	3-29-79	M-326 Large bore pipe hanger, item 5 welded to decking support angles, item 2 has damage to lower flanges adjacent clevis.	Rework	8-2-79	C. Fugate
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 wh in 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 2HCB-1, Pen. No. 2 (18"SS) is out of location.	Use As Is	5-8-79	T. Aritola
2018	3-30-79	C-233 Misc. Fabricated Steel with nuts, Bolts & washers packages 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-20, Pipe received on Grinnell order #KER 10732-P, G-321-D was not signed by 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. #24951 was 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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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 Is	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 vice versa from vender's Dwgs.	non-nonconformance	4-19-79	M. Guliano
2031	4-4-79	Cable 2AB[illegible]1F. 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-S610-6-3A, 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.	Rework		
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	8-2-79	A. Lobrovich
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. Telnect

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[2] NCR NO.	[3] DATE	[4] NONCONFORMANCE DESCRIPTION / REMARKS	[5] DISPO.	[6] DATE NCR CLOSED	[7] CLOSED BY
2044	4-13-79	QAMgmt. audit-168 (AF/AS-3) 1-9-79. No calculations in evidence for hangers leaving integrity indeterminate.			
2045	4-9-79	E-26 Incorrect G-321-D received for 600 Volt Control Cable 5000 ft. 2/C#14 AWG Reel #B-1826.	Doc. Rework		
2046	4-9-79	M-326 Item 3 of hanger 10"-1HBC-136-H2 has been cut to 3½" in length and welded to Item 1, which is 1½" off location.	Rework		
2047	4-9-79	M-326 Hanger 10"-1HBC-103-H9 configuration not in compliance with sketch; material cannot be traced to cert. of comp.	Rework	8-9-79	L. Brown
2048	4-9-79	M-326 Hanger 10"-1CCB-25-H3 configuration and location not in compliance with hanger sketch.	Use As Is	8-29-79	Wm. Smith
2049	4-9-79	E-21 5000 and 8000 Volt Power Cable reel #K1221 was not shop inspected prior to shipment as required.	Use AS IS		
2050	4-11-79	M-204. Dwg. M-633 sh. 5 & 7. Installed location of valves have reversed serial numbers.	Rework Use As Is	5-8-79	F. Starr
2051	4-11-79	Dwgs. E-721,E-716, E-42 sh. 111. Welding discrepancies on Seismic tray supports previously reported on DR's	Test & Use As Is	8-7-79	L. Harrison
2052	4-11-79	Spec. C-305. Stud anchors installed by an electrician who was not qualified as required.	Use As Is		
2053	4-11-79	Spec. C-305. Abandoned anchor holes not repaired before new anchor holes were loaded.	Use as is		
2054	4-11-79	Dwg. M-634 sh.1. Gouge in pipe spool 2EBB-14-634-1-7.			
2055	4-11-79	C-208. Final results of shrinkage tests not received from vendor for nonshrink grout.	D . Rework		
2056	4-11-79	Dwg. C-400. Welding gap greater than allowed by welding procedure GWS-FM on 1" material.	Use As Is	6-15-79	L. Harrison
2057	4-11-79	Dwg. E-650 sh.1, E-652. Intermittant welds have been replaced with a continuous on seismic conduit supports.	Use as is		
2058	12-79	M-18. Quality Verification Documentation not received.	Use as is	8-21-79	T. Estes
2059	4-12-79	C-306. Rebar cut while core drilling f r 5/8" anchor bolts for CRD primary Breakers Aux. Bldg. El. 674'6"			
2060	4-12-79	E-60. Quality Verification Documentation has quantity discrepancies on cable received.	Doc. Rework	8-22-79	T. Estes
2061	4-12-79	M-1.35. Discreprancies in documentation for thermowells items released from warehouse w/o inspection.	Doc. Rework	6-22-79	R. Valentine

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[2] NCR NO.	[3] DATE	[4] NONCONFORMANCE DESCRIPTION / REMARKS	[5] DISPO.	[6] DATE NCR CLOSED	[7] CLOSED BY
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. Fredianell.
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	D.C. Squires
2070	4-13-79	E-614. Project approved dwg. cannot be located for the installation of type 16 SIM conduit supports.	Use As Is		
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	8-24-79	L. Brown
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.	N/A		
2077	4-16-79	F-3149. Grout failed to reach the required compressiv. 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.	Rework		
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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2080	4-17-79	Hanger 2-619-2-15. Hanger has welded lug attachment improperly installed per sketh.	Use as is non-nonconformance	8-14-79	L. Brown
2081	4-18-79	Hanger 2-657-3-18. Hanger not installed in compliance with pipe support design drawings.		4-19-79	L. Brown
2082	4-18-79	E-650 Sh. 1. Type 14 supports have continuous welds. E-42 Sh. 335 specifies intermittant welding.	Use As Is	7-9-79	R. Amos
2083	4-19-79	E-532. Conduit 2AA037 was damaged by core drilling the slab.	Rework	~~4-24-79~~	~~J. Kexel~~
2084	4-19-79	M-1.29. Certificate of conformance is required in the QA Data Package for B & W QRM 46-1239-02.	Doc. Rework	8-3-79	R. Valentine
2085	4-19-79	M-1.2. No documentation received for three tube assemblies.	Doc. Rework		
2086	4-19-79	F-31391. Chemical composition not included in MTR submitted with returned bolts originally rejected on NCR-1695.	Reject	6-5-79	M. Moore
2087	4-20-79	F-34605. G-321-D furnished with Quality Verification Documentation was not signed by vendor.	Doc. Rework	4-30-79	T. Estes
2088	4-20-79	Hanger 2-619-1-3. Inadequate installation of 5/8" expansion anchors.			
2089	4-20-79	M-14. Terminal box 1P-05A (Aux. Feed Water Pump) has burn hole caused by arc strike.	Rework		
2090	4-20-79	M-104C. Two pipe spools delivered to jobsite with unapproved Bechetl drawings.			
2091	4-20-79	E-535. Six conduits have incorrect supports as per E-42, Rev. 39.	Rework	7-16-79	D. Squires
2092	4-24-79	C-231 Cadwelding was done and was not qualified until one day later.	Use As Is	5-8-79	S. Kirker
2093	4-24-79	M-342 PipeSpool 1HCB-1-S-612-8-1 has an excessive amount of contrete splatter near FW 18.	Rework		
2094	4-24-79	M-1.16 Misc. Parts for B&W makeup pump MTR# 1MU-PLC this cannot be located&has not been inspected or released.			
2095	4-24-79	M-204 4" 2HCB-11 (M-608sht.1 FW21) A pitted area was found on this spool.	Std. Repair		
2096	4-24-79	E-42&E-46 Pull Boxes NEMA Type1A, boxes has 4 holes1/2"in diameter &are not repaired per E-42DCN63 pg. 2.	Rework	8-18-79	D. Squires
2097	4-24-79	E-42 Unscheduled pullbox size, three boxes do not meet criteria of E-42.	Use As Is	5-30-79	R. Amos

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
2098	4-24-79	M-326 Hanger #10"-1HBC-103-H4, items#2&#6 shows1/4" double fillet weld&have 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 andno plugged in.	Use As Is		
2105	4-26-79	E-42 Conduit Support,asupport very similar toa type 12A nas 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. approal.	Use As Is	5-24-79	C. Spinks
2111	4-26-79	E-19 2 Each Capacitor, 13 MFD@1000 VAC no quality vertification documentation was received with this item.	Use as is	5-29-79	T. J. Estes
2112	-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 ancho indeterminate.			
2115	4-26-79	F-3136 Bolts Nuts, washers & Recessed Pins w/nuts, was received partially or entirely rust covered.	Rework	8-30-79	R. Valentine

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2151	5-3-79	E-37. #6 Essex Cable have no identification marker conductors.	Repair	8-27-79	J. Henderson
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-31870 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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2169	5-8-79	E-617 Sh.2. Four additional conduit supports installed for 2AKA012 thru 2AKA017 were not as shown in drawing.	Repair		
2170	5-8-79	M-619 Sh. 3. Spool 2HBC-120-S619-3-1 has a gross amount of concrete on the 90° elbow.	Rework		
2171	5-8-79	E-42. Type 11 Conduit support has been installed with P1001A3 substituted for P1000 and P3300.	Rework		
2172	5-9-79	F-27952. Fittings certified to ASTM-A276-73 rather than ASME-SA-479 as called out by PO.	Doc. Rework	8-22-79	M. Moore
2173	5-9-79	OUM-01A & OUM-01B, Air Handling Units, released from storage without megger testing the motors.	Doc. Rework		
2174	5-9-79	C-383. Structural steel beam to the north of the reactor headstand opening at El. 656-9 exceeds tolerance of error.	Repair Use As Is	6-22-79	L. Harrison
2175	5-9-79	F-22. 350 MCM 3/C B-11 Cable, several reels are indeterminate on the basis of sampling or use.	~~Use-As-Is, & Repair~~ Doc. Rework		
2176	5-11-79	J-201. Dwg. 540. Control Panel, 1C14, five wire terminations loose from soldered connection to individual switches.	Rework		
2177	5-11-79	M-326. Hangers are indeterminate because heat no.'s are not traceable to doc., incorrect or illegible numbers.			
2178	5-11-79	M-135. Documentation not available for Differential Pressure Transmitters.	Doc. Rework		
2179	5-12-79	M-614 Sh. 10. Valve, 12"HCC-GT-RL, below FW #6 a depression leaves wall thickness indeterminate.	Repair		
2180	5-14-79	E-640 Sh. 2. Conduit/box support installed without adequate prior approval or documentation.	Use As Is	6-4-79	C. Cameron
2181	5-14-79	E-624 Sh. 2. Tray support has been installed with continuous across the flange welds.			
2182	5-14-79	A-41. Paint Storage Area, no temperature readings available for 5-12-79 thru 5-14-79.	Use As Is	5-14-79	S. Kirker
2183	5-14-79	E-532. Motor Control Centers, units installed back to back; rear & top compartments rendered inaccessable.	Reject	8-31-79	A. Lobrovich
2184	5-14-79	F-3107, C-233. Vendor, NPS, descrepancies in NDE reports and inspection processes not documented per requirements.			
2185	5-14-79	E-532. Panelboards, CDP,1 & 2D20, four additional holes for anchors drilled not required by drawing.			

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
2186	5-14-79	J-255B. Nuclear Service Control Valves, 2HV-0[illegible]07 & 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.	Rework		
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	C. Cameron
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 CHBC-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	8-17-79	T. Estes

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2203	5-21-79	Hanger 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.	Use As Is	8-14-79	J. W. Hamler
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.	Doc. Rework	8-7-79	M. Moore

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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.	Rew		
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.	Use As Is		
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	8-24-79	T. Estes
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.	Rework	8-17-79	A. M. Lobrovich
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 (I-08) (I-16)	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 1¼" 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-10LA. 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	Rework		
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	8-29-79	B. MacGlashan
2246	6-7-79	F-35791. Bolts, nuts & washers received with no certificate of compliance	Reject		
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	8-8-79	E. Dutton
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	8-29-79	J. Hamler
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 1873 & 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	W. 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	8-13-79	R. Mac Glashan
2259	6-12-79	F-33741. 20 Resistors received on AEO-9721 have no traceability to P.O., packing slip or markings on material	Reject	8-4-79	R. MacGlashan
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	8-30-79	R. Valentine
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	8-17-79	George Young
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.	Reject		
2269	6-15-79	M-167. Service Water Piping 26" OHBC-54, wall thickness indeterminate, soil sample drill bit hit this line.	Std. Repair	8-28-79	L. Brown
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	9-4-79	M. Moore

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2272	6-15-79	M-104A. Concentric reducers, G-321-D not signed by shop inspector; no line designation data or spool number on concentric reducers.	Doc. Rework		
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-25-H4 has no visible marking and cannot be traced to a certificate of compliance.	Rework		
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.	Doc. Rework		
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	9-5-79	R. MacGlashan
2282	6-19-79	E-617 Sh. 2. Expansion anchors used to install support conduit run and junction box. Expansion anchor not to be used.			
2283	6-20-79	Stud expansion anchors are not installed with the required minimum embedded length.	Rework		
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.	Rework		
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.	N/A	8-27-79	T. Estes
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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2291	6-22-79	C-1.50 Hanger 1HBC-196-2-H14, work was done on this NCRed hanger without documentation approval.	Rework	6-28-79	L. Brown
2292	6-22-79	C-305 Expan on anchors are still available and being issued from electrical crib unmarked.			
2293	6-22-79	E-42 Supports for conduit 2ASA014 was installed using 3/4" as a min.	Use As Is	8-2-79	C. Bawtinhiemer
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 inspection was performed.	Use As Is	8-28-79	M. Donovan
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. wtr.	Rework		
2303	6-25-79	F-1-467 Component cool Pumpmotors, storage maintenance Inspec. was never preformed, activi 2.3 was never preformed.	Rework		
2304	6-25-79	F-24 6-Housing cover gaskets,no inspection release or doc. has been received making items nonconforming.	Reject		
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	8-27-79	J. Henderson
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.	Rework Use As Is		
2308	6-27-79	F-36501. 3" .216W LR 90 Ell, no G-321-D form was received.	Doc. Rework	7-6-79	T. J. Estes

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2309	6-27-79	Service Water Pumps w/Motors, no seven day "in place" maintenance inspections made since 3-29-79.	1&2 Use As Is 3 Rework		
2310	6-28-79	Valves, IXV-0324A & IXV-0324B, 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	Use As Is	8-7-79	C. Spinks
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.	Rework		
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.	Rework		
2321	7-2-79	M-1.7. Non documentation has been received forTab Washers. Byron Jackson order #793-S-3630	Doc. Rework	8-18-79	R. Valentine
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.	N/A		
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

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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.	Rework		
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.	Doc. Rework	8-23-79	T. Estes
2335	7-10-79	OHBC-17-619-8-1, pipe spool damaged, has an arc strike approximately 7/8" in diameter.	Std. Repair		
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	Doc Rework	8-17-79	M. Moore
2343	7-13-79	Dwg. FSK-M-1HBC-207-1, 3/4" globe valve is inoperative due to piping insulation interference.	Rework		
2344	7-13-79	E-750 Sh. 1, Anchor center to center spacing do not meet requirements of Spec. C-305.	Rework Useasis		
2345	7-14-79	Dwg. E-611. Conduit Installation 1BJE002. Conduit has total of 405° between pulling points. Anchor bolts do not meet dwg. dimensions.	Rework		
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		

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2 NRC NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 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.	Rework		
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.	N/A		
2387	7-27-79	Pipe Spool 2ECC-1-S602-3-1 not cleaned in accordanc with the spec. requirements of M-342.	Use As Is	8-7-79	L. Brown
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. QF-75B. Weld Repair done on strainer after AI sign-off on N-2 form thereby voiding N-2 form in QVD package.	Doc. Rework		
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.	Use as is	8-13-79	Gilbert Cheves
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.	Rework		
2396	8-1-79	C-46. SS Fuel transfer tube & accessories, no documentation received with MRR-10229.	Doc. Rework		
2397	8-1-79	M-14. Steam driven Aux. Feedwater Pump; a large quantity of metal ships in the equalizer pipe.			
2398	8-2-79	E-11. Battery charger, 2D27, has had a hole burned in the top front of the cabinet.			
2399	8-1-79	E-642 Sh. 2. Supports on boxes 1DJ473 & 2DJ804 & 2DJ805 do not conform to details in E-42.			
2400	8-1-79	E-26 cable #1AQ2718 had no tape or cap on the end & the end of the cable was lying in a pool of water.	Rework		
2401	8-2-79	A-14. Grout placed at blockwalls failed to meet minimum compressive strength requirements.			
2402	8-2-79	M-168AC. 48" purge isolation valve receivedon AE0-10082 is partially rusted on exterior of valve body & victaulic gasket surface.	Rework		
2403	8-3-79	C-205. A channel has been interrupted by two holes being drilled through it for a hanger.	Use As Is		

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LOG OF NONCONFORMANCE REPORTS

PROJECT NAME[1] Midland JOB NO.[1] 07220 PAGE[8] 146

[2] NRC NO.	[3] DATE	[4] NONCONFORMANCE DESCRIPTION / REMARKS	[5] DISPO.	[6] DATE NCR CLOSED	[7] CLOSED BY
2404	8-3-79	A-14. Grout failed to meet minimum compressive strength requirements.			
2405	8-3-79	E-655. Expansion anchors(six) have been installed with an embeddment length which exceed Spec. C-305 requirements.			
2406	8-3-79	E-42. a type #14 conduit support has been installed with fillet welds across the bottom flange of the beam.			
2407	8-3-79	Dwg. 732 Sh. 2. two flare and fillet welds nine inches long have been installed across the bottom flange ofa beam.			
2408	8-3-79	M-613 . 6. Spool 2HBC-1-613-6-11 has an arc strike which violates m mum wall thickness.	Std. Repair		
2409	8-6-79	C-305. Pipe hangers have been installed with expansion type anchors which is contrary tc spec. requireemnts.			
2410	8-6-79	F-3/323. S/S angle received with no documentation.	Doc. Rework	8-15-79	R. Valentine
2411	8-6-79	E-532. Station Battery, 1D01; metal tool dropped into battery. Plastic flecks in battery, metal contamination.			
2412	8-6-79	F-33177. Heat number on each stud does not conform to the piece mark requirement.			
2413	8-6-79	F-34294. Hex head bolts are not marked by manufacturer on bolt heads.	Reject	9-4-79	T. Estes
2414	8-7-79	Spool 2FCB-19-611-4-1 ha been painted with read paint of indeterminate halogen and sulfur content.	Rework		
2415	8-7-79	Cable pulled for scheme 2AB2312A have been installed with a bend radius which exceeds minimum. (E-22).			
2416	8-7-79	FSK-M-1HCC-12-1, an arc strike on the exposed yoke threads on 3/4" vent valve 121 on line 1HCC-12.			
2417	8-7-79	Crimp Tool, BPC 2527, did not pass Go No Go test, tool not operating properly. Used on additional Q terminations.			
2418	8-8-79	Pipe spool 1HBC-134-S615-6-1, during P.T. testing of FW 56, linear indication found. Pipe ground down to min. wall thickness.	Reject		
2419	8-8-79	Panels have no covering on them duirng inspections, allowing dirt and dust to enter interior of panels.			
2420	8-8-79	F-3107. Supplier performed welding on misc. fabricated metals with procedures that were not prequalified to Bechtel dwg.'s & specs.			
2421	8-8-79	E-42. Conduit support, anchor bolt detail used on the main support legs does not conform to type 8B details.			
2422	8-8-79	E-39. 3 type 1A wireway supports installed & permanently attached before QC testing and acceptance of anchors on the baseplates.			

1063 028

LOG OF NONCONFORMANCE REPORTS

PROJECT NAME[1] Midland JOB NO.[1] 07220 PAGE[8] 47

[2] NRC NO.	[3] DATE	[4] NONCONFORMANCE DESCRIPTION / REMARKS	[5] DISPO.	[6] DATE NCR CLOSED	[7] CLOSED BY
2423	8-9-79	C-50. Several 1/8" and deeper undercuts exist on leakchase on the Personnel Lock.			
2424	8-9-79	F-36237. Round rod received on AEO-10026 has no documentation; rod not located for visual inspection.			
2425	8-10-79	Relatively humidity exceeded 50% in Class 'A' Warehouse violating requirements of F-1-268.	Use As Is		
2426	8-10-79	Dwg. E-658. FCN-E-848 written and approved to allow over a 10' length of 2" conduit supports.			
2427	8-10-79	Dwg. E-655. Spec. C-305. ½" anchors have embedment length greater than 2½". Support spacing between anchors greater than 7'6"			
2428	8-10-79	FSK-DVI-M-617-6-11, SW 2-3-4-5 on Conn #11 was welded completely prior to attachment of copy #4 of the QCIR W-1.00 or Fit-up acceptance	Rework		
2429	8-10-79	FSK-DVI-M-604-5, SW #47-49-50 was completely welded, prior to attachment of copy #4 of QCIR W-1.00B or fit-up acceptance by the FWE			
2430	8-10-79	E-42. Three supports welded to a P3300 with a continous "flair V" weld(both sides) along its length.			
2431	8-10-79	Dwg. C-277 . One #8 horizontal splice & one vertical #8 were cut out of the pent. on each face.			
2432	8-10-79	J-201. Cable entering panel 2C11 isnot meeting separation requirements. Cable is within 6" of internal rod channel wires.			
2433	8-11-79	C-305. Dwg. E-650 sh. 1. Stud anchors broken off slightly violating SCN 9005.			
2434	8-11-79	Dwg. E-755 sh. 1. Embedment length of stud anchors violates requirements of SCN C-305-9002.			
2435	8-11-79	Dwgs. E-750 sh 18 & 29. E-750 sh3. Conflicting requirements for anchor embedment, drawings vs. Spec. C-305.			
2436	8-10-79	E-42. Wrong support has been installed for pull bos 2DJ442.			
2437	8-13-79	Relative humidity exceeded 50% in Class "A" warehouse violating requirements of F-1-268.			
2438	8-13-79	Dwg. E-642 sh 2 & E-643 sh 2. Pull boxes installed using anchors and bolts that do not have ASTM code on the head. Spec. C-305 reqmt.			
2439	8-13-79	FPM-2.000. Aux. Bldg. Strain on nozzle weld indeterminate due to no monitoring of pump alignment.	N/A	8-15-79	M. Guliano
2440	8-14-79	C-305 HDI Anchors, embedment of anchors should be 1 5/8", actual embedment of these anchors are 1 3/8" only.			
2441	8-15-79	F-3107. Welding performed on misc. fabricated metal w/ weld procedures that were not prequalified to req'mts of dwgs. and specs			
					063 029

LOG OF NONCONFORMANCE REPORTS

PROJECT NAME[1] Midland JOB NO.[1] 07220 PAGE[8] 148

[2] NRC NO.	[3] DATE	[4] NONCONFORMANCE DESCRIPTION / REMARKS	[5] DISPO.	[6] DATE NCR CLOSED	[7] CLOSED BY
2442	8-14-79	Cable scheme 2AB2312A. Pullback of cable not witnessed by QC leaving integrity of conductor and outer jacket indeterminate.			
2443	8-14-79	Aux. Bldg. El. 659'0" Relative humidity exceeded 60% for a period of 4.5 days in a 90 day inspection period. safety related equip rms			
2444	8-16-79	FSK-JB2-0033. Spec. J-218. Field welds on 2FT-1305A done w/o visual verfication or documentation, line left uncapped.			
2445	8-16-79	Dwg. E-603. Unit 2 Process Inst. Room. Supports have 5/8" HDI anchors instead of 5/8" studs. Anchors failed testing due to slippage.			
2446	8-16-79	Spec. C-305. Pressure gauge for the testing of drop-in type anchors found to be out of calibration.			
2447	8-16-79	Dwg. E-628. Spec. C-304. Welding done across the flange of the beam with prior approval of project engineering.			
2448	8-16-79	Dwg. E-623. Spec. C-304. Lengths of welds on type 14 & 16 supports longer than 2½" maximum.			
2449	8-17-79	PO E-26. Cable pulled for Scheme 1AB4310K has a blister in outer jacket leaving quality indeterminate.			
2450	8-17-79	Spec. G-27. Socket welds performed by a welder not qualified in the correct welding procedure.			
2451	8-16-79	F-3152. Spec. M-305. Vibro-Etched heat numbers on pipe are illegible. AEO-10375.	Reject		
2452	8-17-79	F-37338. Various Burndy parrallel splices received with no statement of conformance.	Doc. Rework	8-24-79	T. Estes
2453	8-17-79	Spec. C-306. Instrumentation stands were grouted without QC witness.			
2454	8-21-79	E-632, Spec. C-305. 2 abandoned ½" anchors have been recessed into a wall and grouted over.			
2455	8-20-79	Dwg. E-643 Sh. 2. Several discrepancies on HCI anchors in type 1A wireway support 2BFB005.			
2456	8-20-79	E-602. Several discrepancies on HDI anchors in special case supports 1CE027, 1CE029, 2CH014.			
2457	8-20-79	Spec. M-204. Stock SS pipe, ht. no. 03981, is marked with yellow paint which is not to be used on stainless steel pipe.			
2458	8-18-79	FSK-JIO-0005, Dragon Instr. valve manifold indeterminate because valve is uncapped with sand in intervals.	Rework	9-4-79	K. Wyant
2459	8-21-79	Spec. C-231. A vertical rebar was cut 2' away from another vertical bar.			
2460	8-21-79	F-3151. Supplier submitted a G-321-D from Rev. 3 of M-305 for AEO-10075.	Doc. Rework		

1063 030

LOG OF NONCONFORMANCE REPORTS

PROJECT NAME 1 Midland JOB NO 1 07220 PAGE 8 149

2 NRC NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
2461	8-21-79	Spec. C-305. Nine Hilti Drop-In Anchors failed the tension test.			
2462	8-21-79	E-7AC. Misc. Replacement Parts; several discrepancies found in documentation. G-321-D incomplete from supplier, no Shop Insp. sign.	Doc. Rework	8-27-79	B. Mac Glashan
2463	8-22-79	M-618 Sh. 1. FW #42 on 30" Check valve (418-019) S/N 3N668 during liquid penetration exam a linear indication found in heat affected zone.			
2464	8-22-79	E-42. Seismic conduit supports installation made with length of welds and spacing between weld segments exceeding maximum tolerances.			
2465	8-22-79	E-650 Sh. 1. Spec. C-305 specifies minimum embedment for Hilti Drop-in anchors; installation exceeds this minimum.			
2466	8-22-79	Dwg. E-617 Sh. 2. Welding procedure stated on draw. E-42 Sh. 339a is inconsistent with spec. requirements of G-27.			
2467	8-22-79	C-226. Beam welded across the flange, this continuous weld was ground out by field leaving a 1/8" gouge in 4 locations across flange.			
2468	8-23-79	M-123B. TRC Solenoid valve received with documentation dicrepancies to P.O. number on tags, G-321-D incorrect, valve tag numbers	Doc. Rework		
2469	8-23-79	J-256AC. Solenoid valves, document category numbers 22.0, 25.0 & 17.5 are nonconforming in page count number.	Doc. Rework		
2470	8-23-79	E-655. Two stud anchors for a type 1A conduit support have embedment length exceeding minimum required by Spec. C-305.			
2471	8-23-79	FSK-JIO-0040/41. External contamination of tubing, at several points, tubing is coated with zinc paint.			
2472	8-24-79	F-31591. Jack screws received are defective. Threads of jack screws are slivered and pitted.			
2473	8-24-79	F-3151. Pipe fittings received on AEO-10213, supplier submitted G-321-D forms from Rev. 3 of M-305.	Doc. Rework		
2474	8-24-79	F-37108. Forged f[illegible]eceived on AEO-10428, discrepancies with manganese content; tinsile strength is less than minimum.			
2475	8-24-79	E-616 Sh. 2. 2 type 14 conduit supports installed with leg lengths of stitch welds exceeding the ¼" maximum.			
2476	8-24-79	FSK-DVI-M-604-5, SW #52 was welded completely prior to attachment of copy #4 of the QCIR W-1.00B or fit-up acceptance by the F.W.E.			
2477	8-27-79	M-619 Sh. 5. 20" 150# RF flange has indentations running across the raised face.			
2478	8-27-78	F-35137. Flanges have dents or gouges on the tongue & butt weld preparation areas of the flanges.			
2479	8-27-79	FSK-JBI-0025. Expansion anchor for instrument support 1FT-1002A installed too close to abandoned anchor hole.			
					1063 031

LOG OF NONCONFORMANCE REPORTS

PROJECT NAME[1] Midland JOB NO.[1] 07220 PAGE[8] 150

[2] NRC NO.	[3] DATE	[4] NONCONFORMANCE DESCRIPTION / REMARKS	[5] DISPO.	[6] DATE NCR CLOSED	[7] CLOSED BY
2480	8-27-79	E-750 Sh. 1. No approval for non-Q tray support welded to 6" tube steel. No inspection criteria.			
2481	8-27-79	FSK-J10-0040, FSK-JC2-0006, FSK-JC2-003; hilti drop-in anchors failed testing criteria required by C-305. (tension testing)			
2482	8-27-79	M-1.1. stud storage rack, no documentation was received.			
2483	8-28-79	E-60. Cables pulled for five schemes were overtensioned when pulled into conduit 2BGB016; their quality is indeterminate.			
2484	8-28-79	E-643 Sh. 2. Wireway supports, type 6, were not installed as per E-39 requirements.			
2485	8-28-79	M-1.4. CRDM subassembly, several received on this P.O. with no documentation.			
2486	8-29-79	M-633 Sh. 3. Pipe spool oHBC-47-S633-3-6 has two arc strikes.			
2487	8-29-79	FSK-JC2-0006. FW 5, 6, 22, 23 on three tubing lines have been installed & welded without visual verification & documentation.			
2488	8-29-79	F-3154. various unistrut spring-nuts & clamps were received with no certificate of compliance.			
2489	8-30-79	F-35442. 1000 Ln. Ft. Belden cable #8761 for fault sensor received with no statement of conformance.	Doc. Rework	9-4-79	T. Estes
2490	8-30-79	E-651. Type 14 conduit support for 2AG066 and 2AG071 has no welder's stamp, support welds exceed minimum skip btw. welds.			
2491	8-30-79	E-37. Cable packet B-1161 (cable 2BA0601D) was pulled without QC verification and documentation.			
2492	8-30-79	C-45. A hand hold compactor was used to compact an area that was note mined. A 'ground pounder' was used that is not on TWX 5283.	N/A	8-30-79	S. Gelnett
2493	8-31-79	E-710. Cable tray supports, plate between channel & embed, plates are installed with less than ¼" fillet weld.			
2494	8-31-79	Scheme 23D2001, cable pulled for scheme is installed causing minimum bend radius exceeding requirements.			
2495	8-31-79	E-715. Seismic cable tray support, all 12 detail A connections have been installed without end return welds.			
2496	8-30-79	1HBC-304-S619-8-1. Arc strike on pipe spool which has been ground out resulting in a depression.			
2497	8-30-79	2HBC-304-S619-8-1. Arc strike on pipe spool which has been ground out resulting in a depression.			
2498	8-31-79	Spec. C-306. Cut rebar in hanger 611-6-17 exceeds minimum requirements of radial distance in cutting rebar.			

1063 032

7220 [illegible] M QC G-3 1-3

LOG OF NONCONFORMANCE REPORTS

PROJECT NAME[1] Midland JOB NO.[1] 07220 PAGE[8] 151

2 NRC NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
2499	8-31-79	E-42. A type 16 conduit supports 2AG067 has 6/15" fillet welds; due to welding open of unistrut is too wide for proper installation.			
2500	8-31-79	E-42. Flexible conduit connecting IMO-0330A to rigid conduit 1AJD014 is 4'7" long, exceding the 2" maximum length.			
2501	8-31-79	M-162. Diesel Generator Service Water supply and return lines are packed with sand.			
2502	8-31-79	F-3107. Supplier performed welding on misc. fabricated metals with weld procedures not prequalified to requirements of dwg.'s & spec's			
2503	8-31-79	F-3107. Supplier performed welding on misc. fabricated metals with weld procedures not prequalified to requirements of dwg.'s & spec's			
2504	9-4-79	The Diesel generators are being stored in a Kelly enclosure that has several holes in the roof.			
2505	9-4-79	Cont. 2, dome stressing; dome tendon D-301-2 had 5 wires sheared off during the liftoff.			
2506	9-5-79	Pipe spool 2HBC-109-619-17-1 has a gouge between FW 4 and flange shop weld.			
2507	9-6-79	F-19157, 20869, 21649, 22282, 32424 & 32959; bolting material listed on these P.O.'s not purchased to ASME Sec. III requirements.			

1063 033

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NONCONFORMANCE REPORT

S/U INDETERMINATE

1. PROJECT NAME: MIDLAND	JOB NO. 7220			19. NO. 2396	20. PAGE 1 OF 1
2. UNIT(S): UNIT 1	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: N2-1123 – N2-1126 SS FUEL TRANSFER TUBE AND ACCESSORIES	5. ITEM LOCATION: POSEYVILLE, WHSE#2	
6. P.O. OR SPEC NO.: C-46	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N ____ REV ____ SER NO. N/A	9. SOURCE: SUPPLIER	10. CONTRACTOR/SUPPLIER: PATHWAY BELLOWS INC.	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER — IR NO R-1-00-10229 NO C-46 REV. 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 ( ) Client (X) Eng ( ) FLD	

16. NONCONFORMING CONDITION: TECHNICAL SPECIFICATION C-46 REQUIRES QUALITY VERIFICATION DOCUMENTATION WITH EACH SHIPMENT, CONTRARY TO THIS NO DOCUMENTATION WAS RECEIVED WITH MRR 10229. HOLD FOR ENGINEERING DISPOSITION. 5 QC HOLD TAGS APPLIED TO NONCONFORMING ITEMS "Q" NUMBER IS 1.2011.

17. REPORTED BY [signature] DATE 3/1/79

18. VALIDATED BY [signature] DATE 3-1-79

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

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

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJ CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

1063 034

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NONCONFORMANCE REPORT S/U 2-FCA

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO. 2397	20. PAGE 1 OF 1
2. UNIT ~~/SI~~: 2	3. ~~DRAWING~~/PART NO.: 2P-05B	REV: N/A	4. ITEM DESCRIPTION: STEAM DRIVEN AUX FEEDWATER PUMP	5. ITEM LOCATION: AUX BLDG EL 584	
6. P.O. ~~OR SPEC NO.~~: M14	7. SERIAL NO.: 40225-B	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE: SUPPLIER	10. CONTRACTOR/SUPPLIER: BINGHAM-WILLAMETTE CO.	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC ( ) OTHER IR NO. N/A NO. N/A		12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( )Rec'g (X)Const ( )Test	15. Equip Furnished By ( )Client (X)Eng ( )FLD

16. NONCONFORMING CONDITION: DURRING SURVEILLANCE OF THE REMOVAL OF THE 3" LUBE OIL EQUALIZER PIPE, TO FACILITATE INSTALLATION OF A WATER COOLING LINE, IT WAS NOTED THAT THERE WAS A LARGE QUANTITY OF METAL CHIPS IN THE EQUALIZER PIPE LEAVING THE INTEGRITY OF THE EQUIPMENT INDETERMINATE.

"Q" LIST # 4392 I HOLD TAG APPLIED TO PIPE

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
M. Sulsona	7-30-79	W.K. Barclay	8-1-79

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

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

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

1063 035

Blab
SV. 2PKB

NONCONFORMANCE REPORT

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO. 2398	20. PAGE 1 OF 1
2. UNIT(S): 2	3. DRAWING/PART NO.: E-532	REV: 13	4. ITEM DESCRIPTION: BATTERY Charger 2D27	5. ITEM LOCATION: 614 Aux Bldg.	
6. P.O. OR SPEC NO.: E-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 (M) SPEC ( ) OTHER IR NO. E6.0-65 NO. E-11 Rev. 4	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (M) NO	13. SKETCH ATTACHED ( ) YES (M) NO	14. Discovered During ( ) Rec'g (M) Const ( ) Test	15. Equip Furnished By ( ) Client (M) Eng ( ) FLD	

16. NONCONFORMING CONDITION:

BATTERY charger 2D27 has had a hole Burned in the top front of the CABINET, There is also adjacent Paint Damage.

Q list 3,202 — 1 hold TAG APPLIED — Hold For Eng. Disposition

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
D. Young	8-1-79	T. Barclay	8-2-79

21. ROUTING: (M) 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

1063 036

X

Alab

NONCONFORMANCE REPORT

S/U Non Testable

1. PROJECT NAME: Midland	JOB NO.: 7220 XX			19. NO. 2399	20. PAGE 1 OF 3
2. UNIT(S): 1+2	3. DRAWING/PART NO.: E642 sh 2 / E643 sh 2	REV: 6/5	4. ITEM DESCRIPTION: Junction Box Supports	5. ITEM LOCATION: AUX BLDG ELEV 64'6"	
6. P.O. OR SPEC NO.: N/A	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE: CONSTRUCTION	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA (X) DWG ( ) SPEC ( ) OTHER IR NO: 1DJ473 2DJ804 2DJ805 E42 Rev 41 SH 604		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 41 sh 604 gives specifications for TYPE 9E Junction Box Supports, contrary to the above, supports on Boxes 1DJ473, 2DJ804, and 2DJ805 do not conform to these details (Attached sketches show AS-BUILT conditions). In addition, E42-REV 41 sh 604 does not provide a connection detail for attaching the ¼" stiffener plate to Unistrut when this configuration is used. (See attached sketch for 1DJ473 and 2DJ804)

6 HOLD Tags Applied, Hold for Engineering Disposition A List 3.006

17. REPORTED BY: [signature] DATE: 7-31-79

18. VALIDATED BY: [signature] DATE: 8-1-79

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

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

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

1063 037

CALCULATION SHEET

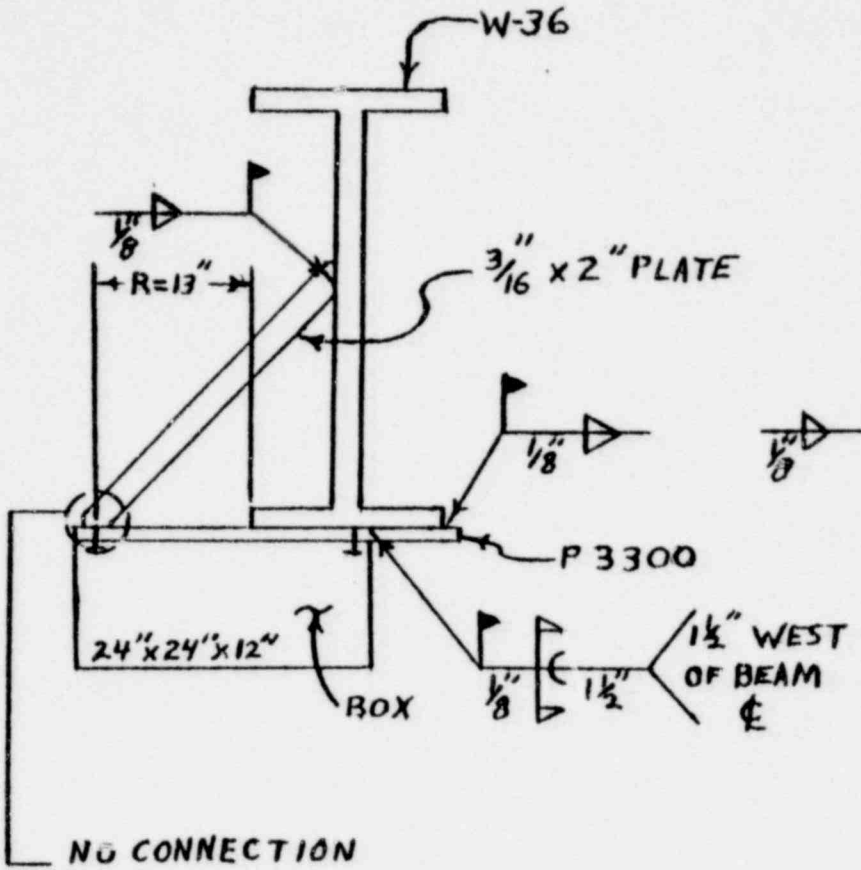
DESIGN BY _____ DATE _____ CHECKED BY _____ SHEET NO. _____

PROJECT _____ JOB NO. _____

SUBJECT _____ CALCULATION NO. _____ FILE NO. _____

DATE _____

1DJ473 LOOKING SOUTH



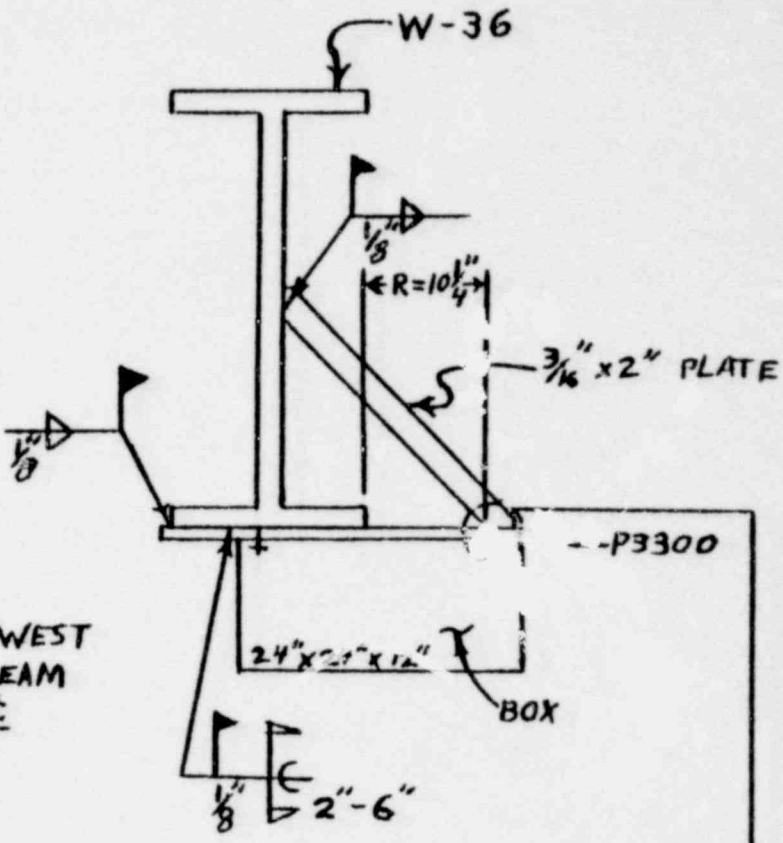
NO CONNECTION DETAIL IN E-42 FOR THIS CONFIGURATION

ELEV. 674'6"

4'-6" W of 5.9

1'-7" N of J

2DJ804 LOOKING SOUTH



NO CONNECTION DETAIL IN E-42 FOR THIS CONFIGURATION

ELEV 67[illegible]'6"

ON 7.2

3' N of J

NOT TO SCALE

1063 038

0810 (11-74)

CALCULATION SHEET

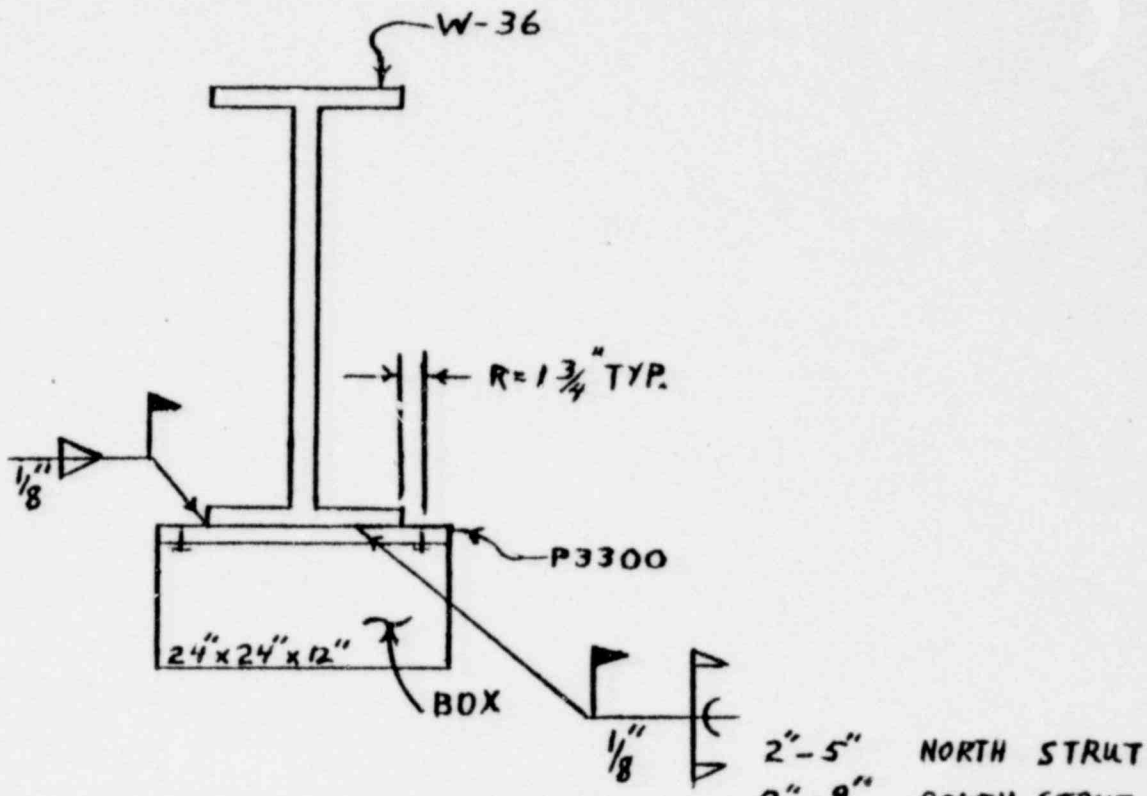
DESIGN BY _____ DATE _____ CHECKED BY _____ DATE _____

PROJECT _____ JOB NO. _____

SUBJECT _____ CALCULATION NO. _____ FILE NO. _____

BECHTEL

2DJ805 LOOKING SOUTH



ELEV 674'6"

ON 7-2 LINE
N. of J LINE

1063 039

0

BECHTEL

NONCONFORMANCE REPORT

S/U 15BA

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO. 2400	20. PAGE 1 OF 1
2. UNIT(S): UNIT 1	3. DRAWING/PART NO.: CABLE 1AQ271B	REV: N/A	4. ITEM DESCRIPTION: E-26 CABLE	5. ITEM LOCATION: EL. 659 AREA 3, NORTH OF H LINE	
6. P.O. OR SPEC NO.: N/A	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE: CONSTRUCTION	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER IR NO. N/A NO FIE-4.100 Rev.1	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( )Rec'g (X)Const ( )Test	15. Equip Furnished By ( )Client (X)Eng ( )FLD	

16. NONCONFORMING CONDITION: FIE-4.100 REV.1 PARA 3.4 STATES "CABLE ENDS SHALL BE SEALED BY THE USE OF CAPS OR TAPE EXCEPT WHEN IN THE PROCESS OF CUTTING OR PULLING." CONTRARY TO THE ABOVE, E-26 CABLE #1AQ271B HAD NO TAPE OR CAP ON THE END AND THE END OF THE CABLE WAS LYING IN A POOL OF WATER ON 7-13-79 AND 7-27-79. NOTE: CABLE PULLING SHOWN COMPLETED 4-19-79. "Q" NUMBER IS 3.007. 2 HOLD TAG APPLIED TO NONCONFORMING ITEM.

E

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
M. Donovan	7/31/79	DQL E Barclay	8-1-79

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

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

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJ CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

1063 040

0

S/U Non Testable

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
Midland	7220	2401	1 OF 1

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
1 & 2	DWG A-19	8	Grout test failure	Aux. Bldg.

6. ~~XXXXX~~SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
A-14 Rev. 3	N/A	P/N N/A REV N/A SER NO. N/A	Const.	N/A

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

16. NONCONFORMING CONDITION: Specification A-14 Rev.3 section 7.3 states in part;

Grout shall conform to ASTM C-476, the minimum compressive strength shall be 2500 pounds per square inch at 28 days, unless otherwise shown. Contrary to the above, grout placed at blockwalls at el. 599', coordinates; 6.5 line and G (B.W. #3); 8.1 and B line (B.W. #28/29); 7.8 and B line (B.W. #22), failed to meet minimum compressive strength requirements. Field test No. SP804.

Q list 1.105 Hold for engineering disposition. no hold tags required

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
B Lara	7.31.79	D.K. Barclay	8-2-79

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 INSPECT' DATE

C

1063 041

Q

alab

BECHTEL

NONCONFORMANCE REPORT

start up code: 1GTE

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 2402	20. PAGE 1 OF 1
2. UNIT(S): 1	3. ~~DRAWING~~/PART NO.: 46" HLB-BF-1M0/5316A-PRZ	REV: N/A	4. ITEM DESCRIPTION: 1 EA. 48" Purge Isolation Valve		5. ITEM LOCATION: Warehouse # 2
6. P.O. OR ~~SPEC~~ NO.: M-168-AC Rev. 3	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N ____ REV ____ SER NO. N/A	9. SOURCE: Supplier	10. ~~CONTRACTOR~~/SUPPLIER: Henry Pratt Company	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER — IR NO. R-1.00-10082 NO. M-168 Rev. 6	12. ASME AUTHORIZED INSPECTION REQ'D (X) YES ~~( ) NO~~	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During (X) Rec'g ( ) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FLD	

16. NONCONFORMING CONDITION: Bechtel Spec. M-168 Rev. 6, Section 13.1 states in part, "All valves shall be thoroughly cleaned internally and externally of rust, oil, grease etc." Contrary to the above, the 48" Purge Isolation Valve received on AEO-10082 is partially rusted on the exterior of the valve body and on the victaulic gasket surface. "Q" number is 4.536. Hold pending final disposition & Hold tag applied.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Michael J. Moore	7-31-79	W. Barclay	8-2-79

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

1063 042

X

Alab

NONCONFORMANCE REPORT

S/U Non Testable

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
MIDLAND	7220	2403	1 OF 2

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
N/A	C-205(Q)	11	CUTTING CHANNEL EMBED	AUX. BLDG. EL. 634'-6"

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	CONSTR'N	N/A

11. INSPECTION CRITERIA	IR NO.	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
X DWG ( ) SPEC ( ) OTHER	NO. C-205	( ) YES X NO	X YES ( ) NO	( ) Rec'g X Const ( ) Test	( ) Client ( ) Eng ( ) FLD

16. NONCONFORMING CONDITION: THE NOTE ON DWG. C-205(Q), REV. 11, NEAR (8.7) & (G) LINES STATES: " ALL CHANNEL INSERTS EXTEND FROM EL. 635'-6" TO EL. 643'-6" SPACED @ 6'-0" U.N. " HOWEVER, A CHANNEL ON THE SOUTH FACE OF (AA) WALL @ 15'-3" W/ (7.4) HAS BEEN INTERRUPTED BY TWO 3½" ø HOLES BEING DRILLED THROUGH IT FOR HANGER # 658-4-64 WITHOUT OBTAINING PROJ. ENG. APPROVAL. (SEE ATTACHED SKETCH)

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
B. OLDHAM	7/31/79	K.K. Barclay	8-3-79

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

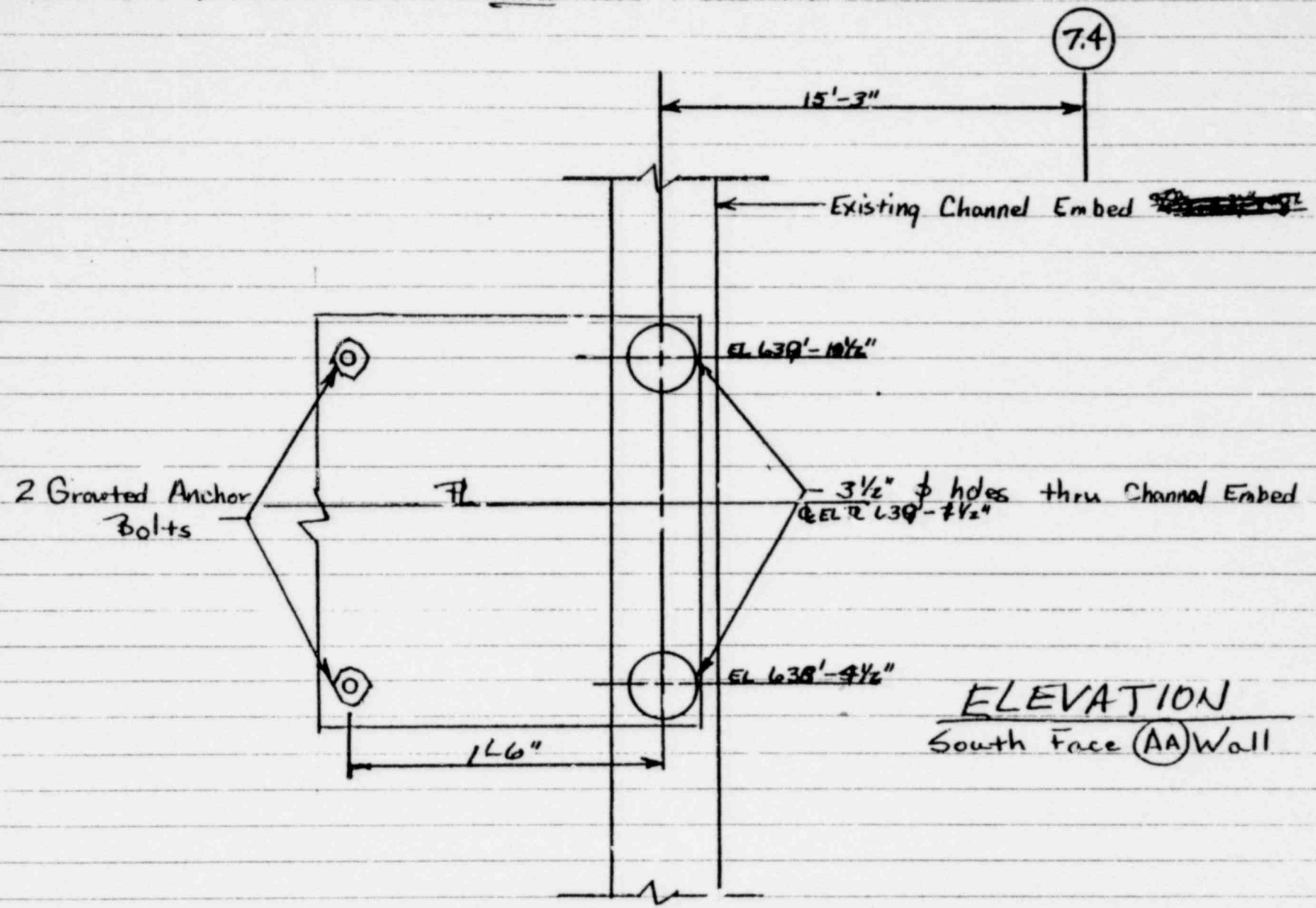
26. QC ACCEPTANCE

QC ENGINEER	DATE
AUTHORIZED INSPECTOR	DATE

C

1063 043

16.(CONT.)- Q-LIST #1.202. ONE HOLD TAG APPLIED.



ELEVATION
South Face (AA) Wall

Alab

S/U Non Testable

NONCONFORMANCE REPORT

1. Project Name: Midland	Job No.: 7220			19. No. 2404	20. Page 1 of 1
2. Unit(s): 1 & 2	3. Drawing/Part No.: DWG A-15 Rev.17, A-20 Rev.	Rev: 10	4. Item Description: Grout test failure		5. Item Location: Aux. Bldg.
6. ~~XXXX~~ Spec No.: A-14 Rev. 3	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 NO. A-14 Rev. 3 IR NO. N/A		12. ASME AUTHORIZED INSPECTION REQ'D ☐ YES ☒ NO	13. SKETCH ATTACHED ☐ YES ☒ NO	14. Discovered During ☐ REC'G ☐ CONST ☒ TEST	15. Equip Furnished By ☐ CLIENT ☐ ENG ☒ CONTR

16. Nonconforming Condition:

Specification A-14 Rev.3 section 7.3 states in part; Grout shall conform to ASTM C-476, the minimum compressive stength shall be 2500 pounds per square inch at 28 days, unless otherwise shown. Contrary to the above, grout placed at blockwalls at el. 568' coordinates; D,F and 6.2 line (B.W. #12/13); el. 614' coordinates F and 6.2 line (B.W. #15), failed to meet minimum compressive strength requirements. Field test No. SP810.

Q list 1.105 Hold for engineering disposition. no hold tags required

17. Reported By: B Rose — Date: 7-31-79

18. Validated By: W C Barclay — Date: 8-3-79

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 Reviews

26. QC Acceptance

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

1063 045

Q

Alat

NONCONFORMANCE REPORT

s/u NON testable unit

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
Midland	7220	2405	1 OF 1

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
Cont #1	E-655	8	Expansion Anchors	Cont#1 Sec Shld Wall S/E Corner

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 ____ SER NO. ____	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-1,50EH304 NCC-305Rev8	( ) YES (X) NO	( ) YES (X) NO	( )Rec'g (X)Const ( )Test	( )Client ( )Eng (X)FLD

16. NONCONFORMING CONDITION:

Specification Change Notice C-305-S002 states in part, "Expansion Anchors in the secondary shield wall shall meet the following criteria:

b) Expansion anchors shall be limited to 2.5" embedment length."

Contrary to the above, six 1/2" expansion anchors have been installed with 4.5" embedded length. These anchors are near the south-east corner of the secondary shield wall, south face, elevations 596' and 602'.

Q List #1.105. Hold for Engineering Dispostion. Two QC Hold Tags applied.

17. REPORTED BY J W Mills DATE 8-2-79

18. VALIDATED BY D A Barclay DATE 8-3-79

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

1063 046

X

Plat

NONCONFORMANCE REPORT

s/u now testable unit

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO. 2406	20. PAGE 1 OF 2
2. UNIT(S): I	3. DRAWING/PART NO.: E42 Q	REV: 41	4. ITEM DESCRIPTION: CONDUIT SUPPORT	5. ITEM LOCATION: AUX. 699' 6-6 G-H	
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. C-304-821 WR2, 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) FLD	

E/W

16. NONCONFORMING CONDITION: C-304 #6-2-6 STATES, "NO WELDING ACROSS THE FLANGE OF THE BEAM SHALL BE DONE WITHOUT THE PRIOR APPROVAL OF PROJECT ENGINEERING." E-42 SH.335 TYPE #14 SHOWS THE USE OF 1/8" FLARE/FILLET WELDS STITCHED 2 ON 3 INCHES.

CONTRARY TO THE ABOVE, A TYPE #14 CONDUIT SUPPORT HAS BEEN INSTALLED ON A W18X50 BEAM

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Scott L. Smith	8/2/79	Barclay	8-3-79

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

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

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJ CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

1063 047

CONT. BLOCK #16:

UTILIZING TWO SOLID 1/8" FILLET WELDS ACROSS THE BOTTOM FLANGE OF THE BEAM.

IN ADDITION, THE BEAM HAS UNDERCUT WHICH EXCEED THE 1/32 MAX. REF. C-304 #6-2-3

ALSO, THERE IS NO WELDERS IDENTIFICATION.

THE ABOVE MENTIONED BEAM IS LOCATED AT 699' ELEV. G-H & 6-6
THE TYPE #14 SUPPORT IS AT THE NORTH END OF THE BEAM.

Q. LIST #1.201 ONE Q.C. HOLD TAG APPLIED
HOLD FOR ENGINEERING DISPOSITION

X-1

alab

NONCONFORMANCE REPORT

S/U NON TESTABLE UNIT

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO. 2407	20. PAGE 1 OF 2
2. UNIT(S): I	3. DRAWING/PART NO.: 732 SH I & II	REV: 3	4. ITEM DESCRIPTION: TRAY SUPPORT		5. ITEM LOCATION: AUX. 685' 5.3-5.9 K-Kc
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. C-304-963-W 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	

E/W

16. NONCONFORMING CONDITION:

DWG. 732 SH. 2 DETAIL #3 REQUIRES TWO 1/4" FLARE & FILLET WELDS TO BE 4" LONG.

CONTRARY TO THE ABOVE, TWO FLARE & FILLET WELDS NINE INCHES LONG HAVE BEEN INSTALLED ACROSS THE BOTTOM FLANGE OF A STRUCTURAL BEAM.

Q. LIST # 1.201 ONE Q.C. HOLD TAG APPLIED.

HOLD FOR ENGINEERING DISPOSITION

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Scott L. Manitti	8/2/79	W.B. Barclay	8-3-79

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

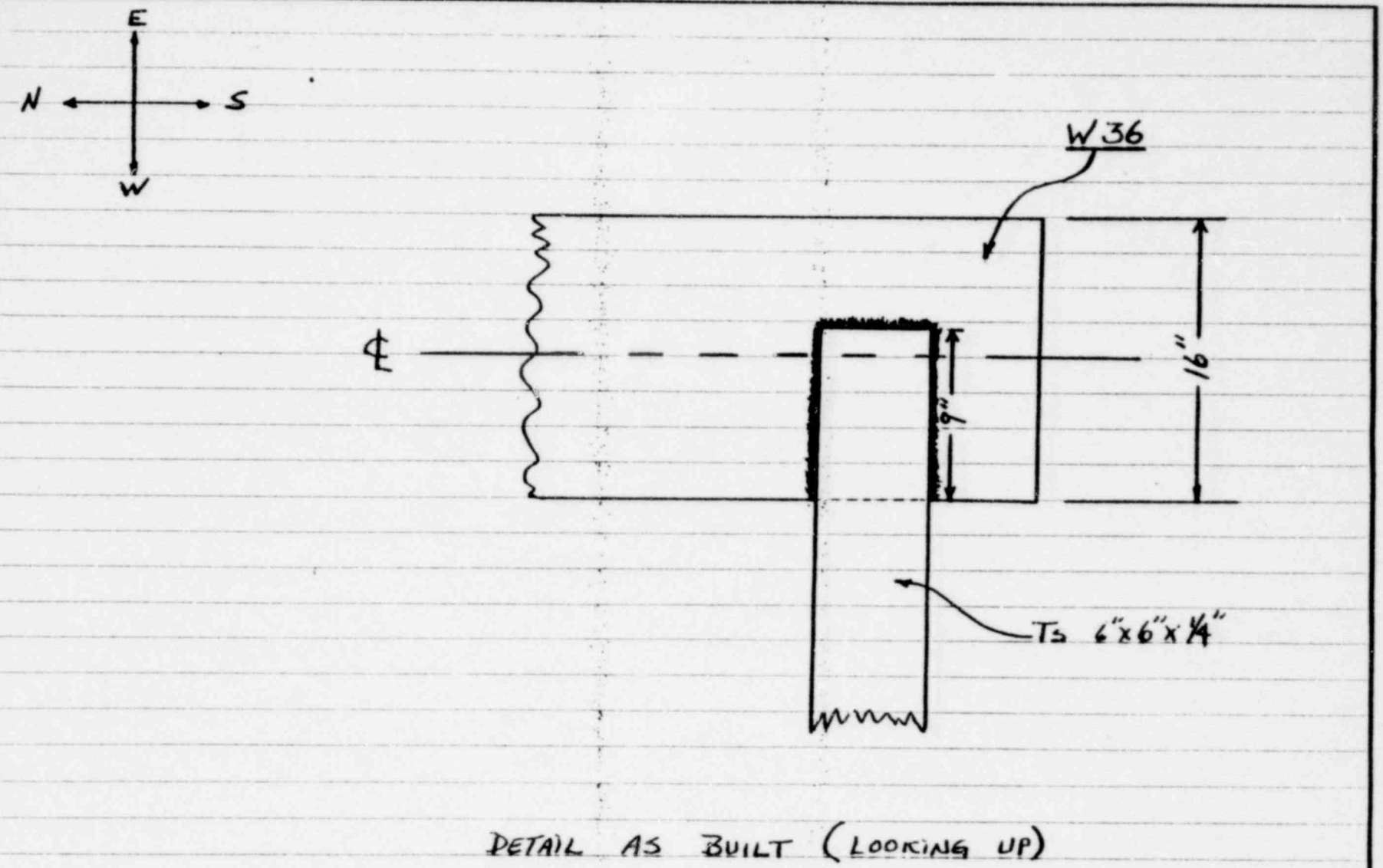
25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

1063 049



DETAIL AS BUILT (LOOKING UP)

X

alab

NONCONFORMANCE REPORT S/U #2-BKA

1. PROJECT NAME	JOB NO.			19. NO. ~~2405~~ 2408	20. PAGE 1 OF 2
MIDLAND	7220				
2. UNIT(S)	3. DRAWING/~~PART NO.~~	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION	
2	M-613 SH 6	7/E2	PIPE SPOOL (18") 2HBC-1-S613-6-11	AUX BLDG EL 627	

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-1.10-613-6-6 (9) NO. 7220-M-204 (10)	(X) YES ( ) NO	( ) YES (X) NO	( ) Rec'g (X) Const ( ) Test	( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION: SPEC M-204 REV 10, PARAGRAPH 3.5.2.6 STATES IN PART: "MINIMUM WALL THICKNESS FOR FABRICATED ASSEMBLIES AS FINALLY FABRICATED SHALL BE AT LEAST 87.5% OF THE NOMINAL WALL THICKNESS FOR PIPE SPECIFIED BY NOMINAL WALL." CONTRARY TO THIS THERE IS AN ARC STRIKE ON PIPE SPOOL 2HBC-1-613-6-11 (NOMINAL WALL .375") (CONT'D)

"Q" LIST # 4.134 / HOLD TAG APPLIED TO PIPE

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
M Gilbert	7-31-79	[illegible]	8-3-79

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

1063 051

LOCATED APPROXIMATELY 8'-0" SOUTHWEST OF FW 23 THAT IS 1"x 3"x 1/4" DEEP.

.X 1/

Alab

BECHTEL

NONCONFORMANCE REPORT

S/U See Page 2 of NCR

1. PROJECT NAME: MIDLAND	JOB NO.: 7220					19. NO. 2409	20. PAGE 1 OF 3
2. UNIT(S): 1 & 2	3. DRAWING/~~PART NO:~~: SEE BLOCK #16	REV: N/A	4. ITEM DESCRIPTION: PIPE HANGERS			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 (X) SPEC ( ) OTHER — IR NO. N/A NO C-302 REV. 8		12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( )Rec'g (X)Const ( )Test	15. Equip Furnished By ( )Client (X)Eng ( )FLD		

16. NONCONFORMING CONDITION: SPECIFICATION: C-302, REV. 8, APPENDIX "D" STATES IN PART: "THE FOLLOWING PIPING SHALL NOT BE SUPPORTED BY EXPANSION ANCHORS.... THE FIRST TWO SUPPORTS ON SUCTION AND DISCHARGE OF PUMPS." CONTRARY TO THE ABOVE THE FOLLOWING SUPPORTS HAVE BEEN INSTALLED WITH EXPANSION TYPE ANCHORS: (SEE CONTINUATION)

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
M Julegno	8-3-79	D Barclay	8-6-79

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

1063 053

(BLOCK #16 CONTINUATION) NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 3 19NCR NO 2409

SKETCH NO.	LINE N.O	PUMP I. D.	"Q" LIST	S/U NO.	HOLD TAG APPLIED
1-616-9-1	18"-1HBC-133	1P-73B	4.162	1-EGA	1 HOLD TAG
0-617-7-16	18"-0HBC-52	0P-73	4.172	2-EGA	APPLIED TO EACH
0-617-7-15	"	"	"	"	HANGER
0-616-8-13	16"-0HBC-51	"	"	2-EGA	"
2-617-7-2	18"-2HBC-133	2P-73A	4.172	2-EGA	"
2-617-6-1	16"-2HBC-134	"	"	"	"
2-617-9-1	18"-2HBC-133	2P-73B	4.172	2-EGA	"
0-614-10-27	8"-0HCC-50	0P-76A	4.142	0-ECC	"
0-614-8-29	10"-0HCC-12	0P-76B	4.142	0-ECC	"
0-614-10-31	8"0HCC-51	"	"	"	"
1-603-5-1	4"-1FCB-18	1P-58A	4.037	1-BGC	"
1-603-5-4	4"-1CCB-13	"	"	"	"
1-603-6-2	6"-1FCB-16	1P-58B	4.037	1BGC	"
1-603-8-1	6"-1FCB-15	1P-58C	4.037	1-BGC	"
1-603-8-2	"	"	"	"	"
1-603-8-13	4"-1CCB-6	"	"	"	"
1-603-8-14	"	"	"	"	"
2-604-5-1	6"-2FCB-18	2P-58A	4.045	2-BGC	"
2-604-5-4	4"-2CCB-13	"	"	"	"
2-604-8-1	6"-2FCB-15	2P-58C	4.045	2-BGC	"
2-604-8-2	"	"	"	"	"
2-604-8-13	4"-2CCB-6	"	"	"	"
2-604-6-7	4"-2CCB-1	2P-58B	4.045	2-BGC	"
2-604-6-6	"	"	"	"	"
2-613-4-1	8"-2GBB-15	2P-64B	4.131	2-BKA	"
1-634-4-8	6"-1DBC 2	1P-95A	4.381	1-ALA	"
1-634-4-11	10"-1HBC-26		"	"	"

POOR ORIGINAL

1063 054

(BLOCK #16 CONTINUATION)

SKETCH NO.	LINE NO.	PUMP I.D.	"Q" LIST NO.	S/U NO.	HOLOTAG APPLIED
1-633-2-10	4"-1CEBC-1	1R05B	4.391	1-ALA	1
2-634-4-2	8"-2HBC-22	2R05A	4.391	2-ALA	1
2-634-4-1	8"-2HBC-22	2R05A	4.391	2-ALA	1

POOR ORIGINAL

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NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO. 7220			19. NO. 2411	20. PAGE 1 OF 1
2. UNIT(S): 1	3. DRAWING/PART NO.: E532	REV: 13	4. ITEM DESCRIPTION: Station Battery 1D01	5. ITEM LOCATION: Aux Bldg. EL 614	
6. P.O. OR SPEC NO.: N.A.	7. SERIAL NO.: N.A.	8. REPLACEMENT PART P/N NA REV NA SER NO. NA	9. SOURCE: Construction	10. CONTRACTOR/SUPPLIER	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. E6.21-01 NO. E12 Rev 1	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Rec'g (X) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FLD	

16. NONCONFORMING CONDITION:

Battery #10 Located in North Rack of Battery Room 1D01. During the replacement of a broken vent Plug, a metal Tool, (EZ-OUT), was dropped into the Battery. Approximately 1½ hours elapsed until the Tool was removed. Small Flecks of Plastic Appear inside the Battery & the Amount of metal contamination has rendered the condition of this Battery indeterminate.

Spec 3.2.01 Hold Tag Applied Hold for Engineering Disposition

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
R M Labrecque	8/3/79	D D Barclay	8-6-79

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 .

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BECHTEL

NONCONFORMANCE REPORT S/U SYSTEM - INDETERMINATE

1. PROJECT NAME: MIDLAND	JOB NO.: 07220			19. NO.: 2412	20. PAGE 1 OF 4
2. UNIT(S): INDETER-MINATE	3. DRAWING/PART NO.: N/A	REV	4. ITEM DESCRIPTION: SEE BLK 16		5. ITEM LOCATION: WAREHOUSE 1
6. P.O. ~~OR SPEC NO.~~: F-331776	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV ____ SER NO. ____	9. SOURCE: SUPPLIER	10. CONTRACTOR/SUPPLIER: R.E.C. CORPORATION	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER — IR NO. R-1.00-10142 NO. C-306, R4	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: BASED ON A SAMPLING PLAN PROVIDED BY REV. 8 TO PQCI R-1.00 (SEE ATTACHED) A RANDOM SELECTION (SAMPLE) WAS MADE FROM EACH ITEM (LOT) FOR INSPECTION.

ITEM 1 - Specification C-306 REQUIRES IN PART that a TRACEABLE HEAT NUMBER BE ON EACH

17. REPORTED BY: R. Valentine — DATE: 8.4.79

18. VALIDATED BY: [signature] — DATE: 8-6-79

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

1063 057

BLOCK 16 CONTINUED

STUD. CONTRARY to this, the following ITEMS DID NOT CONFORM to the piece mark REQUIREMENT:

P.O. ITEM NO.	DESCRIPTION	LOT SIZE	SAMPLE SIZE	REJECT
1	5/8-11 x 6½" F.T. STUD	800	65	5
2	5/8-11 x 7½" DITTO	700	65	2
3	5/8-11 x 8" DITTO	700	65	3
6	¾-10 x 10" DITTO	700	65	4
7	¾-10 x 11" DITTO	600	65	7
8	1-8 x 9" DITTO	500	50	1

ITEM 2- A SAMPLE SIZE OF SIXTY-FIVE (65) 1" A325 FLAT WASHERS WAS SELECTED FROM A LOT SIZE OF 1000 FOR INSPECTION. A TOTAL OF TWO(2) WASHERS FAILED, AS PERTAINS TO TOLERANCES, TO MEET THE OD MEASUREMENT REQUIREMENTS OF TABLE 1-A, SECTION 5, PAGE 5-192, SEVENTH EDITION OF THE AISC MANUAL. (P.O. ITEM NO. 15).

HOLD FOR ENGINEERING DISPOSITIONING. "Q" LIST NO. IS INDETERMINATE. 24 HOLD TAGS APPLIED TO CONTAINERS.

(8)

Appendix B
to
PQCI No. 7220/R-1.00 Rev. 8

Sampling Plan Description

NCR 2412
PG 3 OF 4

Single Sampling Table for
Lot Tolerance Per Cent Defective (LTPD) = 10.0%

Lot Size	Process Averages 1.01 to 2.00%		
	n	c	
1-20	All	0	
21-50	17	0	
51-100	20	0	
101-200	35	0	
201-300	50	0	
301-400	50	0	
401-500	50	0	PURCHASE ORDER ITEM NO. 8.
501-600	65	0	PURCHASE ORDER
601-800	65	0	ITEM NOS. 1, 2, 3,
801-1000	65	0	6, 7, 8, AND 15.
1001-2000	80	0	
2001-3000	80	0	
3001-4000	90	0	
4001-5000	90	0	
5001-7000	105	0	
7001-10,000	105	0	
10,000-20,000	120	0	
20,001-50,000	120	0	
50,001-100,000	130	0	

n = sample size, c = acceptance number
"All" indicates that each piece in the lot is to be inspected

POOR ORIGINAL

Upon receipt of a shipment of a bulk item, the QCE will determine the lot size (shipment size) from the receiving documents or by physical count or measurement. From the sampling table, the sample size "n" will be selected which corresponds to the lot size. The QCE will then select "n" number of items which will be representative of the entire lot and inspect each item for the required characteristics. The description of the sampling plan and the inspection results will be recorded in the remarks section of the IR.

If all of the sampled items are acceptable, then the lot will be accepted. If any of the sampled items are unacceptable, a nonconforming report will be written against the lot. The NCR will identify the sampling plan used (lot size, sample size (n), acceptance number (c)) and the results of the inspection. The lot will be placed on hold pending the disposition of the NCR.

1063 059

NCR 2412
PG 4 of 4

Pumps and Pump/Motor Combinations

20. Verify pump part identification.
21. Verify marking indicating direction of rotation of pump and/or motor.
22. Verify location of foundation mounting and flange bolt holes.
23. Verify overall dimensions of length, width, and height.
24. Check weld end preparation dimension.

Electrical Equipment

25. Inspect for overall dimensions.
26. Inspect for proper mounting holes and devices.
27. Inspect for proper markings on terminals, switches, indicators.
28. Verify tightness of terminals and connectors, when accessible.
29. Verify cleanliness and moisture control.

Miscellaneous Material

PURCHASE ORDER Item Nos. 1, 2, 3, 6, 7, 8, AND 15.

30. Verify proper markings.
31. Check overall dimensions.
32. Inspect for surface defects.

High Efficiency Particulate Air Filters

33. Check filter unit for cracks or holes in filter media, tears, and foreign material.
34. Verify that the filter gasket is firmly cemented to the filter frame and mating joints.
35. Check overall dimensions and squareness.

Electrical Cable, Wire, and Wiring Harnesses

36. Verify lengths of prefabricated units.
37. Check surface for cleanliness.

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S/U 2-BCA

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland			JOB NO. 7220		19. NO. 2414	20. PAGE 1 OF 1
2. UNIT(S): 2	3. DRAWING/PART NO.: M-611-4	REV: 9/F4	4. ITEM DESCRIPTION: 10" [illegible] B-19-611-4-1		5. ITEM LOCATION: 584' Elev. 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. PI 10-611-4-3 NO. M-204 Rev 10		12. ASME AUTHORIZED INSPECTION REQ'D (X) YES ( ) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Rec'g (X) Const ( ) Test		15. Equip Furnished By ( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION: Specification M-204 Para 4.13 d States "Marking paint or ink applied to austenitic stainless steel material in the field shall be certified that the total halogen and sulfur content does not exceed 200 ppm." Contrary to the above Spool # 2FCB-19-611-41 has been painted with red paint of indeterminate halogen and sulfur content

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
M. H. Peters	8/6/79	QA Barclay	8-7-79

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

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

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

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

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER	DATE
AUTHORIZED INSPECTOR	DATE

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POOR ORIGINAL

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BECHTEL

NONCONFORMANCE REPORT

S/u 0744

1. PROJECT NAME: Midland	JOB NO.: 07220				19. NO. 2415	20. PAGE 1 OF 1
2. UNIT(S): 2	3. DRAWING/PART NO.: N/A	REV	4. ITEM DESCRIPTION: 3/c 350 MCM (Cable Code B11)		5. ITEM LOCATION: Installed (Aux 685)	
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: Construction	10. CONTRACTOR/SUPPLIER: Essex	
11. INSPECTION CRITERIA: ( ) DWG (X) SPEC ( ) OTHER — IR NO. 2AB2312A 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 ( ) Eng (X) FLD	

16. NONCONFORMING CONDITION:

During Walk-Down, Prior To Implementation of WR #158A, Cable Pulled for Scheme # 2AB2312A was Found to Have Been Installed With a Bend Radius of Approx. 7.5 inches in AJ 394. Minimum Acceptable Bend Radius for B11 Cable is 13.5 in.

QList # 3.003 2 Hold Tags Applied Hold For Eng. Disposition

17. REPORTED BY: [signature] DATE: 8-6-79

18. VALIDATED BY: [signature] DATE: 8-7-79

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

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

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJ CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

POOR ORIGINAL

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S/U IBGD

BECHTEL

NONCONFORMANCE REPORT

1. Project Name: MIDLAND	Job No.: 7220			19. No.: 2416	20. Page 1 of 2
2. Unit(s): ONE	3. Drawing/~~Part No.~~: FSK-M-1IHCC-12-1	Rev: 1	4. Item Description: 3/4" VENT VALVE	5. Item Location: AUX. BLDG. EL 614 9'N/E ON 5-31	
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-1.30-FSK-M-1IHCC-12-1-1 NO. M-204	12. ~~ACTIVE~~ 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 SECTION 5.1.3.m STATES IN PART "EXTREME CARE SHALL BE TAKEN TO AVOID ARC STRIKES UPON ADJACENT SURFACES." CONTRARY TO THE ABOVE AN ARC STRIKE EXISTS ON THE EXPOSED YOKE THREADS ON 3/4" VENT VALVE 121 ON LINE 1HCC-12. THE ARC STRIKE LOCATION PROHIBITS THE USE OF THE DAMAGED THREADS. THE ARC STRIKE LOCATION AND DIMENSIONS ARE AS SHOWN

17. Reported By: Michael K Allred Date: 8-2-79

18. Validated By: [illegible] Date: 8-7-79

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

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

23. Project Engineering Disposition

24. Disposition Concurrence

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. Disposition Results

26. QC Acceptance

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

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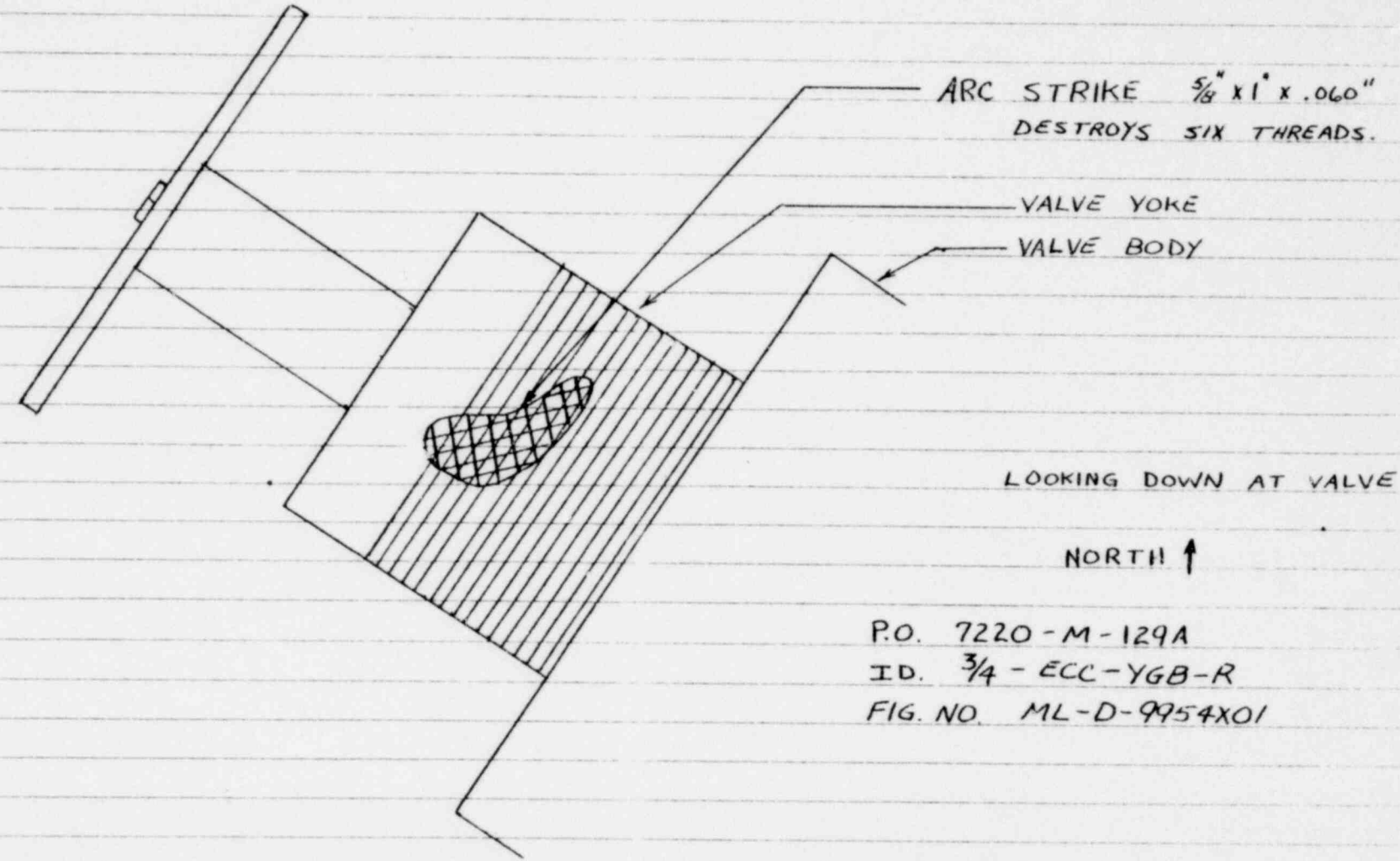
POOR ORIGINAL

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 2 19NCR NO 2416

BLOCK 16 CONTINUED: IN THE FOLLOWING SKETCH. THE MAXIMUM DEPTH OF THE STRIKE IS .060" AS MEASURED BY PIT GAGE BPCM209. GAGE CALIBRATION IS DUE 9-15-79.

ONE HOLD TAG APPLIED

Q LIST: 4.0310



P.O. 7220-M-129A
ID. 3/4-ECC-YGB-R
FIG. NO. ML-D-9954X01

1063 064

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BECHTEL

NONCONFORMANCE REPORT S/U

OEAA 1EAC 2EAD
OECC 2ALA
OECE

1. PROJECT NAME: MIDLAND	JOB NO.: 07220			19. NO.: 2417	20. PAGE 1 OF 1
2. UNIT(S): 1&2	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: BRANDY CRIMP TOOL MR 8-4	5. ITEM LOCATION: CAL. LAB.	
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. Block 16 NO E166.107 Rev 1	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) FLD	

16. NONCONFORMING CONDITION: CRIMP TOOL BPC 2527 (DBU) DID NOT PASS THE GO, NO GO TEST AND THE RATCHET RELEASE'S BEFORE THE JAWS CLOSE (WITHIN .010"). THE TOOL WAS USED ON THE ADDITIONAL 9 TERMINATIONS (NCR 2312). 2BB 5609C (From END), 2BB 5603G (From END), 1BB5620C (From END) 2BB 5611C (From END), 2BA 0603E (From END) 2BB5603L (From END), 1BB 5628B (From END)

SEVEN (7) HOLD TAGS APPLIED HOLD FOR ENGINEERING DISPOSITION

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17. REPORTED BY: [signature] DATE: 8-7-79

18. VALIDATED BY: [signature] DATE: 8.7.79

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

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

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJ CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

1063 065

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BECHTEL

NONCONFORMANCE REPORT

S/U 1-EGA

1. PROJECT NAME: MIDLAND	JOB NO.: 7220				19. NO. 2418	20. PAGE 1 OF 2
2. UNIT(S): 1	3. DRAWING/PART NO.: M616 SH 6	REV: B/F1	4. ITEM DESCRIPTION: PIPE SPOOL 1HBC-134.5-616-6-1		5. ITEM LOCATION: AUX BLDG. EL 599	
6. P.O. OR SPEC NO.: N/A	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N NA REV N/A SER NO. N/A	9. SOURCE: CONSTRUCTION	10. CONTRACTOR/SUPPLIER: N/A		
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. ~~P-1.10-616-618~~ NO. M204 REV 10		ASME AUTHORIZED INSPECTION REQ'D (X) YES ( ) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Rec'g (X) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FLD	

16. NONCONFORMING CONDITION: SPEC M204, REV 10, PARA 5.2.6 STATES MINIMUM WALL THICKNESS FOR FABRICATED ASSEMBLIES AS FINALLY FABRICATED SHALL BE AT LEAST 87½% OF THE NOMINAL WALL THICKNESS FOR PIPE SPECIFIED BY NOMINAL WALL". DURING P.T. TESTING OF FIELD WELD 56 A LINEAR ~~DEFECT~~ INDICATION APPROX 10¼ LONG RUNNING FROM FW 56 IN THE DIRECTION OF FW 73 BECAME VISABLE. THE DISTANCE BETWEEN FW 56 & FW 73 IS APPROX 12". THE PIPE WAS GROUND DOWN TO MIN WALL THICKNESS & INDICATION ~~OF DEFECT~~ REMAINED.

– CONT ON PAGE 2 –

17. REPORTED BY: P Gordon — DATE: 8/8/79 KAN 8/9/79

18. VALIDATED BY: T Barclay — DATE: 8-8-79

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

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

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJ CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

POOR ORIGINAL

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 2 19NCR NO 2418

BLOCK 16 CONT.

"Q" LIST No. 4.164

1
~~NO~~ HOLD TAGS APPLIED

ATTACHMENT "A" COPY OF PEABODY TESTING REPORT #7679

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S/U 1-RLC 2 SAA 1-GTA 0-GLA

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO. 7220					19. NO. 2419	20. PAGE 1 OF 2
2. UNIT(S): Common	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: See Block 16			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: Bechtel		
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER IR NO. N/A NO. See Blk 16		12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES XX NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( )Rec'g XX Const ( )Test	15. Equip Furnished By ( )Client XX Eng ( )FLD		

16. NONCONFORMING CONDITION: F-10 Forms, Maintainance requirements for the panels and cabinets listed on Page 2, require the panels to be covered except during cable pulling or wire termination. Contrary to the above, the panels listed on Page 2 have no covering or them with no work being done to them at the time the inspections were made, allowing dirt and dust to enter the interior of the panels.

10 hold tags applied to the nonconforming items.

Con't Pg. 2

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Marian Donovan	8/7/79	J.K. Barclay	8-8-79

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

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

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

1063 068

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 2 19NCR NO 2419

Block 16 continued

F-10 #	F-20 #	Equip. #	Location	Date of Inspection	"Q" No.	Start Up No.
180	E5212	1C-166	Area C/East of 4.6 El. 659'0"	8/3/79	5.202	1RLC
180	E5212	2C-35	Control Rm - NE El. 659'0"	8/3/79	5.202	2SAA
123	E5200	1C-114	Area C/West of 6.6 El. 659'0"	8/3/79	5.032	No Code Available
123	E5200	1C-150	Area C/East of 6.6 El. 691'0"	8/3/79	5.032	1GTA
123	E5200	0C-151	Ditto	8/3/79	5.032	0GLA
166	E5210	1C-46	Control Rm - N/W El 659'0"	8/3/79	No "Q" Number	No Code Available
166	E5210	1C-47	Ditto/S/W	8/3/79	Ditto	Ditto
166	E5210	2C-46	Ditto/N/E	8/3/79	Ditto	Ditto
178	E5211	1C-30	Ditto/N/W	8/3/79	5.032	Ditto
178	E5211	2C-30	Ditto/N/E	8/3/79	5.032	Ditto

1063 069

X

alaf

NONCONFORMANCE REPORT START UP CODE: NON-TESTABLE UNIT

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. 2420 NO. ____	20. PAGE 1 OF 2
2. UNIT(S): INDETER	3. DRAWING/PART NO.: N/A	REV	4. ITEM DESCRIPTION: SEE BLK 16.		5. ITEM LOCATION: G-12-N QC HOLD POSEYVILLE
6. P.O. ~~OR SPEC NO.~~: REV 16 RQ. 7 REV 17 7220-F-3107	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV ____ SER NO. ____		9. SOURCE: SUPPLIER	10. ~~CONTRACTOR~~/SUPPLIER: NPS INDUSTRIES INC.
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER	IR NO. R-1.00-10302 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: THE SUPPLIER PERFORMED WELDING ON MISCELLANEOUS FABRICATED METALS FOR RELEASE NUMBER 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 NPS1-8267/CC REMAINS ON QC HOLD UNTIL BECHTEL HAS REVIEWED AND APPROVED AN SDDR AND (CONT'D ON PAGE 2)

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Rick G. Monbouquette	8-7-79	A. Barclay	8-8-79

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

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

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJ CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

1063 070

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 3 19NCR NO 2420

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

1063 071

B. Dunlay

TELECOPY

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640

July 10, 1979

PAGE 3 OF 3
NCR 2420

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 YES NO
DATE

RECEIVED
JUL 12 1979
QUALITY CONTROL
BECHTEL JOB 7220
SIGNATURE

- X -

Alab

NONCONFORMANCE REPORT

s/u non testable unit

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO.: 2421	20. PAGE 1 OF 2
2. UNIT(S): 2	3. DRAWING/PART NO.: E603	REV: 7	4. ITEM DESCRIPTION: Conduit Support		5. ITEM LOCATION: Aux Bldg 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 (X) DWG ( ) SPEC ( ) OTHER	IR NO 1BH043, 1BH044 NO E-42 REV 41	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

E

16. NONCONFORMING CONDITION: E 42 Rev 41 DCN 81 (SH 1041) calls out exceptions to a TYPE 8B conduit support and is listed as support number 1292. Besides the listed exceptions, the anchor bolt detail used on the main support legs does not conform to TYPE 8B details. See attached sketch.

Hold for Engineering Disposition

1 HOLD Tag Applied Q List 3.006

17. REPORTED BY: T Brinston DATE: 8-7-79

18. VALIDATED BY: [illegible] DATE: 8-8-79

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

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

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJ CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

1063 073

POOR ORIGINAL

NCR-2421

0510 (11-74)

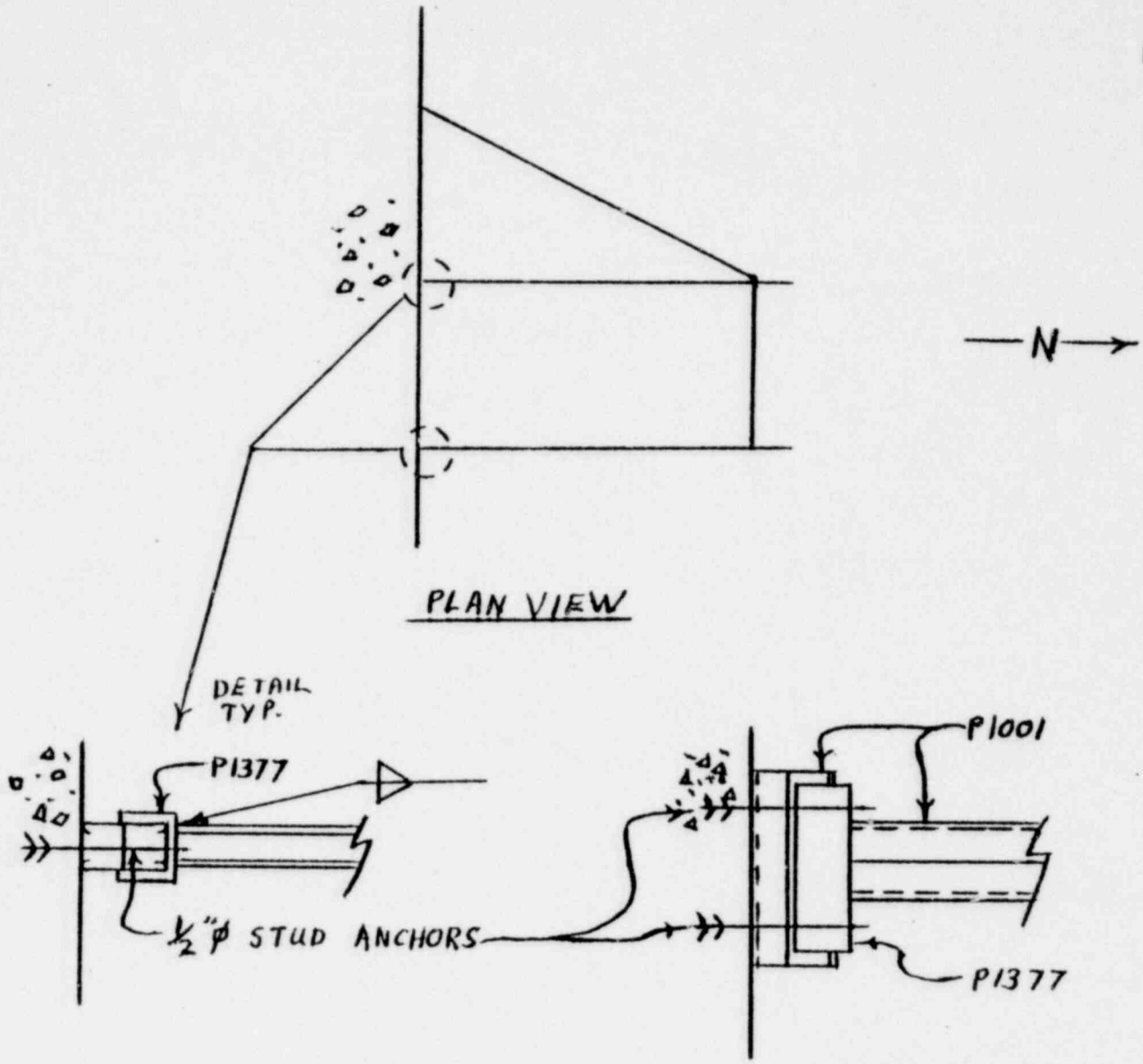
CALCULATION SHEET

DATE _____

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

PROJECT _____ JOB NO. _____

SUBJECT _____ CALCULATION NO. _____ FILE NO. _____



NOT TO SCALE

X

Alab

NONCONFORMANCE REPORT

s/u nontestable unit

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO.: 2422	20. PAGE: 1 OF 2
2. UNIT(S): 1 + 2	3. DRAWING/PART NO.: E642 sh 2 / E643 sh 2	REV: 2/5	4. ITEM DESCRIPTION: Conduit Support Anchor Bolts	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 (X) DWG ( ) SPEC ( ) OTHER IR NO. E1.0 NO. E39 Rev7 SPEC C3.05 Rev8	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( )Rec'g (X)Const ( )Test	15. Equip Furnished By ( )Client ( )Eng (X)FLD	

16. NONCONFORMING CONDITION: Three TYPE 1A Wireway Supports for conduit were installed in the Upper Cable Spreading Rooms, and attached permanently to tray Tube steel prior to Quality Control testing and acceptance of the 3/4" Ø HDI anchors on the baseplates. Locations of the affected supports are on page 2.

E

Continued

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
T Brinster	8-7-79	[illegible] Barclay	8-8-79

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

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

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJ CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

1063 075

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 2 19NCR NO 2422

continued From Page 1 Block 16

UNIT 1

① 12' E. of 5.3
4' N. of K Line

② 15'-6" E. of 5.3
2' N. of K Line

Support Locations.

UNIT 2

⑥ 12' E. of 6.6
ON J Line

3 HOLD TAGS APPLIED
Q LIST 3.006

HOLD FOR ENGINEERING DISPOSITION

1063 076

Olaf

BECHTEL

NONCONFORMANCE REPORT

S/O - NON-TESTABLE UNIT

1. Project Name: Midland	Job No.: 7220			19. No. 2423	20. Page 1 of 1
2. Unit(s): 2	3. Drawing/Part No.: N/A	Rev: N/A	4. Item Description: Leak Chase Emergency ~~Personnel~~ Personnel Lock	5. Item Location: Cont. #2	
6. P.O. Or Spec No.: C-50	7. Serial No.: 31600	8. Replacement Part P/N: N/A REV: N/A SER NO.: N/A	9. Source: N/A	10. Contractor/Supplier: WJ Woolley Co.	
11. Inspection Criteria: ☐ DWG ☒ SPEC ☐ OTHER NO. C-50 IR NO. N/A	12. ASME AUTHORIZED INSPECTION REQ'D: ☐ YES ☐ NO	13. SKETCH ATTACHED: ☒ YES ☐ NO	14. Discovered During: ☐ REC'G ☒ CONST ☐ TEST	15. Equip Furnished By: ☐ CLIENT ☒ ENG ☐ FLD	

16. Nonconforming Condition:

Spec # 7220-C50 Rev #7

7.3.9.2 Welding Technique (A) States Slight Under Cut Not Exceeding 1/32" For up To 3" in 12" of Weld Length Will be Permitted For Welding of Leak Chase Channels. Contary To The Above, There Are Several 1/8" And Deep Places Around The 360° Leak Chase @ ~~Personnel~~ Personnel Lock.

Hold For Engineering Disposition, Q # 1.1018 ONE Hole Too Many

17. Reported By: M Meeks — Date: 8-8-79

18. Validated By: [signature] — Date: 8-9-79

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

C.

POOR ORIGINAL

1063 077

0

Atab

NONCONFORMANCE REPORT

start up code: indeterminate

1. PROJECT NAME: Midland	JOB NO. 7220			19. NO. 2424	20. PAGE 1 OF 1
2. UNIT(S): Indeterminate	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: 1 EA. 2¼" x 20' Round Rod ASTM A-36		5. ITEM LOCATION: Poseyville
6. P.O. OR ~~SPEC~~ NO.: F-36237	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N ____ REV ____ SER NO.: N/A	9. SOURCE: Supplier	10. ~~CONTRACTOR~~/SUPPLIER: Intyco	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC (X) OTHER — IR NO. R-100-10026 NO. G-33 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 ( ) Eng (X) FLD	

16. NONCONFORMING CONDITION:

① Bechtel Spec. G-33 Rev. 5 requires a Certified Material Test Report and Statement of Conformance. Contrary to the above, no documentation was received for the 2¼" x 20' round rod received on AEO-10026. ② PQCI-R-100 Rev. 8 requires Visual Inspection. Contrary to the above, the rod described in block "4 cannot be located for inspection. "Q" number is indeterminate until installation. Hold pending final disposition. No hold tags Applied

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Michael J. Moore	8-9-79	W.K. Barclay	8-9-79

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

R

POOR ORIGINAL

1063 078

X-

Alab

NONCONFORMANCE REPORT

Start-up - N/A

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
Midland	7220	2425	1 OF 2

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
N/A	N/A	N/A	Class "A" Storage, Whse #1	Whse #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	N/A	N/A

11. INSPECTION CRITERIA	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG ( ) SPEC (X) OTHER IR NO. N/A NO. F-1-268 Rev. 4	( ) YES (X) NO	( ) YES (X) NO	( ) Rec'g (X) Const ( ) Test	( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION: F-1-268 Form for Storage requirements for Level "A" Warehouse Environmental Control states: "Humidity shall not exceed 50% relative humidity.

Contrary to the above, the relative humidity exceeded 50% on the following dates with no disposition by the Mat'l Storage Eng. noted on the applicable F-2 Forms.

"CONDITION IDENTIFIED BY CPCo"

"Q" number is N/A. No hold tags applied.

Con't Pg. 2

17. REPORTED BY Marian Donovan DATE 8-6-79 8/7/79

18. VALIDATED BY AB 8.9.79 E.F. Barclay DATE 8-10-79

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

1063 079

Block 16 continued'

Date	Relative Humidity	F-2 No.
6/17/79	53%	10995
6/16/79	61%	10995
6/15/79	54%	10995
6/13/79	54%	10995
6/7/79	54%	10963
6/6/79	56%	10963
5/4/79	71%	10939
5/27/79	52%	10910
5/24/79	52%	10910
4/26/79	56%	10776

X

ALAB

NONCONFORMANCE REPORT

S/U Non Testable Unit.

1. PROJECT NAME: Midland		JOB NO.: 7220		19. NO. 2426	20. PAGE 1 of 2
2. UNIT(S): Cont #1	3. DRAWING/XXXXXX NO.: E-658	REV: 8	4. ITEM DESCRIPTION: Conduit Support spacing	5. ITEM LOCATION: Cont#1 680'± 180°±	
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 & Engineering	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA: X) DWG XX SPEC OTHER	XX NCG-34 Rev 9 NCE-42 Rev 41	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-G-34 Rev 9 paragraph 3.3 states, "The following specific categories are approved by project engineering for use of FCNs on Q-Listed work."

Paragraph 3.3.4.18 states, "Modify the designed supports for all cable tray, conduit, pullbox, and wireway supports as required. The modified supports shall meet or exceed the original designed capability of the support system."

Continued of page 2

E

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
J. H. Miller	8-3-79	D. L. Shelley	8-10-79

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

1063 081

Block 16 continued

Drawing 7220-E-42 Rev 41, sheet 309 Table 1 allows a maximum of ten (10) linear feet of 2" conduit between supports.

Contrary to the above, FCN-E-848 has been written and approved that allows 10± 1" up to 11'-3 1/2" of 2" conduit between supports.

Q List #3.005

Hold for Engineering Dispostion
Two QC Hold Tags applied.

X

AHAB

NONCONFORMANCE REPORT

S/U Non Testable Unit

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 2427	20. PAGE 1 OF 2
2. UNIT(S): Cont #1	3. DRAWING/PART NO.: E-655	REV: 8	4. ITEM DESCRIPTION: Anchors for conduit supports	5. ITEM LOCATION: Cont #1 SE Corner Sec Shld Wall	
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 (X) DWG (X) SPEC ( ) OTHER IR NO C150EH304 NO See Blk 16		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 ( )Chent ( )Eng (X)FLD

16. NONCONFORMING CONDITION:

Specification Change Notice C-305-9002 states in part, "Expansion Anchors in the secondary shield wall shall meet the following criteria:

b) Expansion anchors shall be limited to 2.5" embedment length."

Drawing 7220-E-42, Rev 41, Sh 307 Figure 4 (support spacing for 3" and 5" conduit) allows 1/2" anchors at 18" centers for conduit support spacing of 7'-6".

Continued on page 2.

E

17. REPORTED BY: G W Miller DATE: 8-8-79

18. VALIDATED BY: W Kinsley DATE: 8-10-79

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

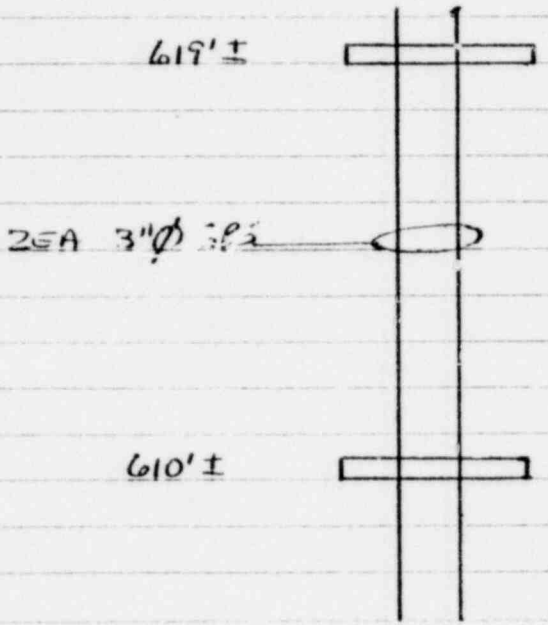
1063 083

Block 16 continued.

A) Contrary to the above, supports EC-1-14-251 and EC-1-14-252 have 1/2" anchors with embedment length greater than 2.5".

B) Contrary to the above, support spacing between EC-1-14-251 and EC-1-14-252 (for 2ea 3" conduits) is greater than 7'-6".

Q List #3.005 Two QC Hold Tags applied. Hold for Engineering Disposition.



Support EC-1-14-252

Anchors: 2ea 1/2", 2 11/16" Embedment Length
18" centers.

Support spacing to next lower support: 9'-6".

Location: Southeast corner outside face, south secondary shield wall.

Support EC-1-14-251

Anchors: 2ea 1/2", 2 3/4" Embedment Length
16 1/2" centers.

Location: Southeast corner, outside face, south secondary shield wall.

START-UP # 2-BCA ALAB

NONCONFORMANCE REPORT

1. PROJECT NAME: MIDLAND	JOB NO.: 7220					19. NO. 2428	20. PAGE 1 OF 1
2. UNIT(S): TWO	3. DRAWING/PART NO.: FSK-DVI-M-617-6-11	REV: 2	4. ITEM DESCRIPTION: SW#2-3-4-5 ON FSK-DVI-M-617-6-11			5. ITEM LOCATION ELV-: AUX BLDG.	
6. P.O. OR SPEC NO.: N/A	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE: CONSTRUCTION	10. CONTRACTOR/SUPPLIER: N/A		
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER IR NO. P-1.10 — NO. FPW-4000 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-4000 REV.#1 STATES IN PART: COPY #4 OF THE QCIR W-100B FORM, MUST BE AT THE WELD JOINT PRIOR TO THE F.W.E. ACCEPTING THE FIT-UP, & RELEASING THE JOINT FOR WELDING; CONTRARY TO THE ABOVE, SW#2-3-4-5 ON CONN#11 WAS WELDED COMPLETLY, PRIOR TO THE ATTACHMENT OF COPY #4 OF THE QCIR-W100B, OR FIT-UP ACCEPTANCE BY THE F.W.E.
(1) HOLD TAG APPLIED TO CONN #11 (@ #4.174)

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
JOE CABRAL	8/9/79 8.10.79	C.R. Barclay	8-10-79

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

1063 085

START-UP # 2-BGC ALAB

NONCONFORMANCE REPORT

1. PROJECT NAME: MIDLAND	JOB NO.: 7220				19. NO. 2429	20. PAGE 1 OF 1
2. UNIT(S): TWO	3. DRAWING/PART NO.: FSK-DVI-M-604-5	REV: 3	4. ITEM DESCRIPTION: SW# 47-49-50 ON FSK-DVI-M-604-5		5. ITEM LOCATION: ELV- AUX. BLDG	
6. P.O. OR SPEC NO.: N/A	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE: CONSTRUCTION	10. CONTRACTOR/SUPPLIER: N/A		
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER IR NO. P-1.10-3 NO. FPW-4.000 REV #4	12. ASME AUTHORIZED INSPECTION REQ'D (X) YES ( ) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Rec'g (X) Const ( ) Test	15. Equip Furnished By ( ) Client ( ) Eng (X) FLD		

16. NONCONFORMING CONDITION: FPW-4.000, REV. #4, STATES IN PART: COPY #4 OF THE QCIR W-100B FORM, MUST BE AT THE WELD JOINT PRIOR TO THE F.W.E. ACCEPTING THE FIT-UP & RELEASING THE JOINT FOR WELDING. CONTRARY TO THE ABOVE, SW#47-49-50 WAS WELDED COMPLETELY, PRIOR TO THE ATTACHMENT OF COPY #4 OF THE QCIR W-100B, OR FIT-UP ACCEPTANCE BY THE F.W.E. (SW# 47 CONN #10 (/) HOLD TAG) (SW# 49-50 CONN #9 (/) HOLD TAG) (Q #4.047)

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
JOE CABRAL	8/9/79	8-10-79 A.K. Barclay	8-10-79

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

1063 086

AIAB

NONCONFORMANCE REPORT

1. Project Name: MIDLAND UNITS 1 & 2 — Job No.: 7220				19. No. 2430	20. Page 1 of 1
2. Unit(s): 2	3. Drawing/Part No.: E 42 (Q) SH. 335	Rev: 4	4. Item Description: SEISMIC CONDUIT SUPPORT	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 — IR NO. — NO. E42(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: DWG. E42 (Q) SH. 335 (TYPE 14 SUPPORT) ALLOWS THE USE OF THE FOLLOWING MATERIALS: P1000, P1001, P3300, P3301, P5000, & P5001. CONTRARY TO THE ABOVE. THREE SUPPORTS HAVE BEEN CONSTRUCTED USING P1000 WITH A P3300 WELDED TO IT WITH A CONTINUOUS "FLAIR V" WELD (BOTH SIDES) ALONG IT'S ENTIRE LENGTH. LOCATED @ 8.3 LINE BETWEEN D LINE & 10' S/D EL. 630'-0

HOLD FOR ENGINEERING DISPOSITION "Q" NUMBER 3.006. 3 "HOLD" TAGS APPLIED

17. Reported By: JOHN BENNETT — Date: AUG. 2, 1979

18. Validated By: J. D. [illegible] QCS — Date: 8-10-79

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

1063 087

X

~~Ato~~ ALAB

S/U - NONTESTABLE UNIT

NONCONFORMANCE REPORT

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO. 2431	20. PAGE 1 OF 2
2. UNIT(S): COMMON	3. DRAWING/~~PART NO.~~: C-277(Q)	REV: 10	4. ITEM DESCRIPTION: CUT REBAR	5. ITEM LOCATION: AUX. BLDG. 5.6 WALL, NEAR AA LINE ELEV. 642'-6"	
6. P.O. OR SPEC NO.: N/A	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE: CONSTRUCTION	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA: (X) DWG ( ) SPEC ( ) OTHER — IR NO. NO. C-272(Q)	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 C-277(Q), REV. 10, STATES THAT NO REBAR CAN BE CUT AT THE TEMPORARY PENETRATION IN 5.6 WALL, 4'-0" SOUTH OF AA LINE AT ELEV. 642'6". CONTRARY TO THIS, ONE #8 HORIZONTAL SPLICE AND ONE VERTICAL #8 WERE CUT OUT OF THE PENT. ON EACH FACE. THESE BARS ARE IN ADDITION TO ONE VERT. BAR CUT ON EACH FACE PREVIOUSLY REPORTED ON NCR #1351, Q LIST #1,203. HOLD FOR ENG. DISPOSITION, 1 HOLD TAG APPLIED.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Steve Payne	8-9-79	S.B. Barclay	8-10-79

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

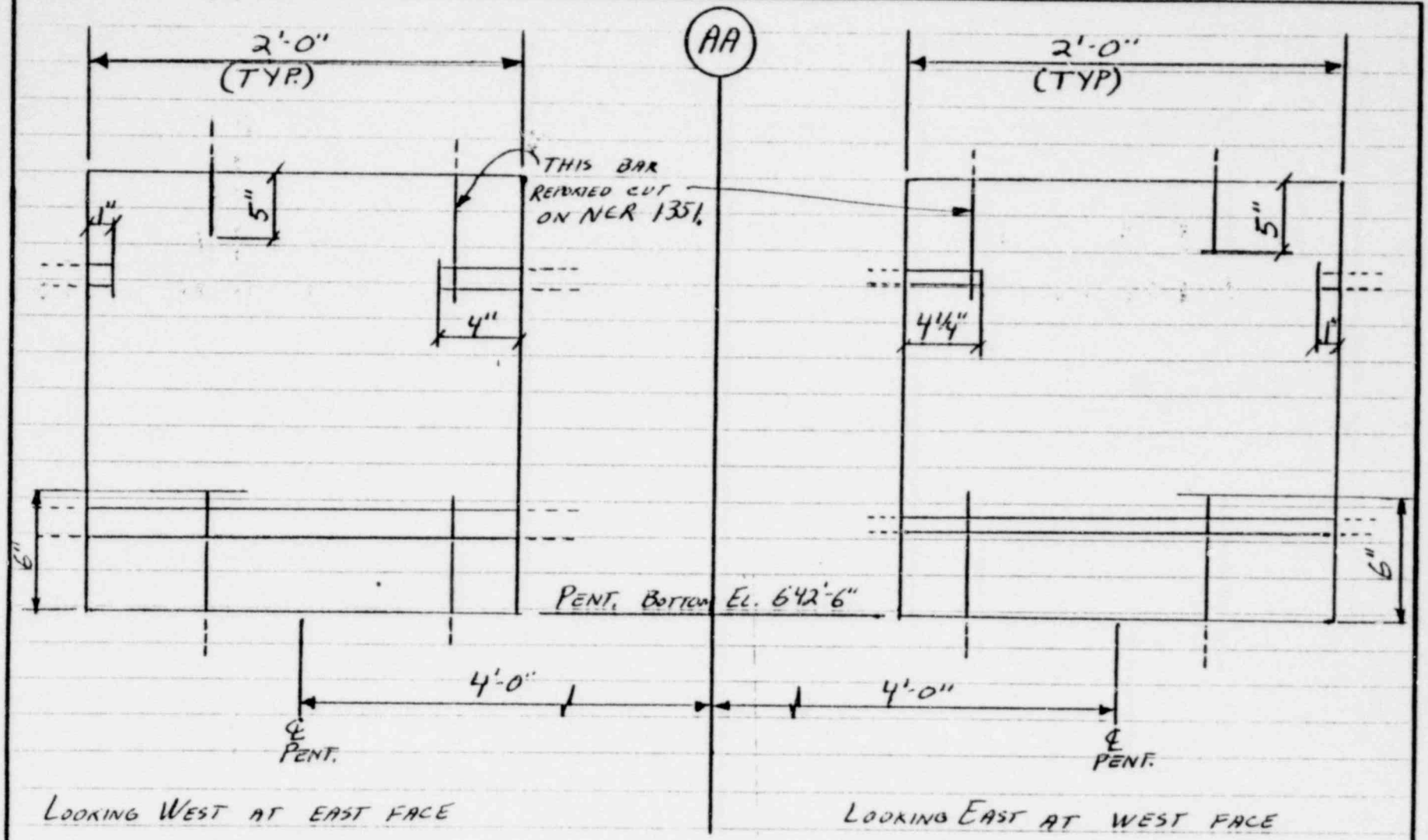
25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

1063 089



ELEVATION - WALL AT (5.6) LINE
ALL REBAR ARE #8

POOR ORIGINAL

0

ALAB

N/C S/U # Non Testable Unit

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 7220					19. NO. 2432	20. PAGE 1 OF 1
2. UNIT(S): 2	3. DRAWING/PART NO.: E-540	REV: 12	4. ITEM DESCRIPTION: Control Panel 2C11			5. ITEM LOCATION: 659 Aux Bldg.	
6. P.O. OR SPEC NO.: J-201 Rev 6	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 (4) SPEC ( ) OTHER IR NO E6.0-55 NO J 201 Rev 6		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:

In Panel 2C11 E6.0-55 the incoming Green and Black channel CABLE is not meeting seperation criteria as required By J201 PARA. 7.8.9. The CABLE is within 6 inches of internal red channel wires The CABLE is entering the top of Panel through penetrations 2BJ065 and 2NJ075

Q list 5.031 Hold For ENG. Disposition 1 Hold Tag Applied

17. REPORTED BY: George Young DATE: 8-8-79

18. VALIDATED BY: [illegible] DATE: 8-10-79

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

1063 090

X

ALAB

NONCONFORMANCE REPORT

S/U Non-testable item

1. PROJECT NAME: Midland	JOB NO.: 07220			19. NO. 2433	20. PAGE 1 OF 2
2. UNIT(S): 2	3. DRAWING/PART NO.: E-650 sh. 1	REV: 15	4. ITEM DESCRIPTION: Anchor Installation	5. ITEM LOCATION: R/B # 2 see block 16	
6. P.O. OR SPEC NO.: N/A	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE: Construction	10. CONTRACTOR/SUPPLIER: N/a	
11. INSPECTION CRITERIA ( ) DWG (XX) SPEC ( ) OTHER — IR NO. C1.50-E:89 NO. C-305 rev 8	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (XX) NO	13. SKETCH ATTACHED ( ) YES (XX) NO	14. Discovered During ( )Rec'g (X)Const ( )Test	15. Equip Furnished By ( )Client ( )Eng (XX) FLD	

16. NONCONFORMING CONDITION:

Specification C-305, Rev. 8, SCN 9005 (Received date 7/17/79) states," Mislocated, abandoned expansion anchors shall not be cut off at the concrete surface. These anchors shall be left in place (exposed) or completely removed." Contrary to the above, two (2) stud anchors were broken off slightly below the concrete surface on 8/1/79. Anchors are 5'-4" and 5'-10" south of the north doorway, on the inside of the west wall , of the Let Down Cooler, Elev. 602'-6".

(continued page 2)

E

17. REPORTED BY: Raleigh Omar — DATE: 8/11/79

18. VALIDATED BY: G. L. Russell — DATE: 8/11/79

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

1063 091

Block 16 continued

Both anchors are 3/8" dia.

HOLD FOR ENGINEERING DISPOSITION
Q List 1.102

One (1) Hold Tag Applied

BECHTEL

NONCONFORMANCE REPORT

S/U Non Testable Unit

1. PROJECT NAME	JOB NO.	19. NO. 2431	20. PAGE 1 OF 2
Midland	7220		

2. UNIT(S)	3. DRAWING/P[illegible]O.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
Cont #1	E-755 Sh 1	5	Anchors for Tray Supports	Cont #1 North Sec Shld Wall 609'

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 ____ SER NO. ____	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 C150EH304 NO See Block 16	( ) YES (X) NO	(X) YES ( ) NO	( ) Rec'g ( ) Const ( ) Test X	( ) Client ( ) Eng (X) FLD

16. NONCONFORMING CONDITION:

Drawing E-755 Sh 3 Detail C and subsequently FCN-E-712 plus FCN-E-836 call for Detail 4G, Dwg E-704 for 3 x 3 x .25" TS attachment to the north face of the secondary shield wall of Containment Bldg #1. Detail 4G, Dwg. E-704 specifies 5/8" anchors (Studs) with 2 3/4" minimum embedment length. Specification Change Notice C-305-9002 states in part, "Expansion anchors in the secondary shield wall shall meet the following criteria: b) Expansion anchors shall be limited to 2.5" embedment length."

Continued on page 2.

E

17. REPORTED BY J. W. Miller DATE 8-10-79

18. VALIDATED BY for J. F. Russell/WLB DATE 8/11/79

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

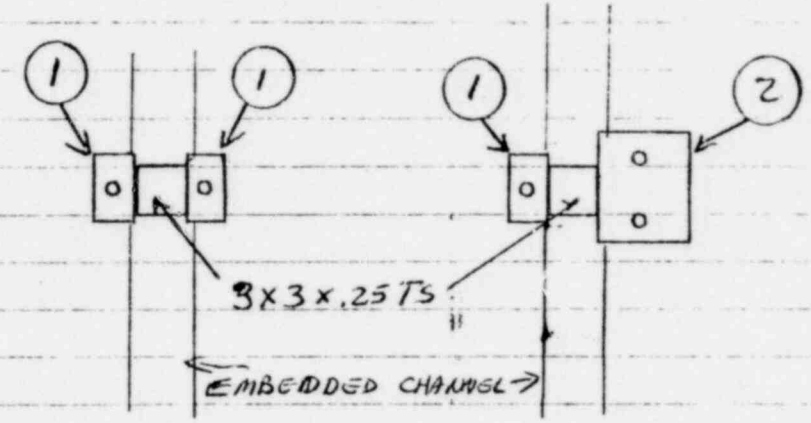
1063 093

Block 16 continued.

Contrary to SCN C-305-9002, but in accordance with Detail 4G, Dwg. E-704, three 5/8" stud anchors with minimum embedment length of 2 3/4" have been installed. See Sketch.

2) FCN E-837 allows use of 2ea 1/2" HDI anchors on large plate on one side of Detail 4G, Dwg. E-704. Contrary to FCN E-837 and SCN C-305-9002 referenced above, 2ea 5/8" stud anchors with embedment length of 2 7/8" and 3" have been installed. See sketch.

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



1063 094

ALAB

NONCONFORMANCE REPORT

S/U Nontestable Items

1. PROJECT NAME: Midland	JOB NO.: 07220			19. NO. 2435	20. PAGE 1 OF 3
2. UNIT(S): 2	3. DRAWING/PART NO.: E-750sh1 & E-750sh2 & E-750sh3	REV: 5	4. ITEM DESCRIPTION: Anchor Installation	5. ITEM LOCATION: R/B#2 see block#16	
6. P.O. OR SPEC NO.: N/A	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE: Construction	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER — IR NO. C1.50-EH62 NO. C-305 rev 8	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED XX YES ( ) NO	14. Discovered During ( )Rec'g XXConst ( )Test	15. Equip Furnished By ( )Client ( )Eng (X)FLD	

16. NONCONFORMING CONDITION:

A) Drawing E-750 sh. 3, Rev. 5, sec."P-P" specifies 3/4" stud anchors with 3-3/4" minimum embedment (Spec. C-305, rev. 8-,table 4.1 indicates minimum embedments of 3-1/4" and 5").Contrary to the above, one (1) anchor has embedment of 3-3/8". Anchors are at 593'-6", 113°, near south end of the Let Down Cooler, see sketch. (These anchors were installed prior to the issuance of SCN 9002, with the requirement that all stud anchors be coded, and thus these anchors are not

(continued page 2)

17. REPORTED BY: Lalugi Cimas DATE: 8/11/79

18. VALIDATED BY: for J.E. Russell/WLB DATE: 8/11/79

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

1063 095

Block 16 continued

coded.)

B) These anchors have four (4) washers per anchor as shims. There is no approval to use stacked washers as shims, thus there is no acceptance criteria for these washers.

(IR# E2.1-129) HOLD FOR ENGINEERING DISPOSITION

Q List 1.102 and 3.005

One (1) Hold Tag Applied

CALCULATION SHEET

DATE

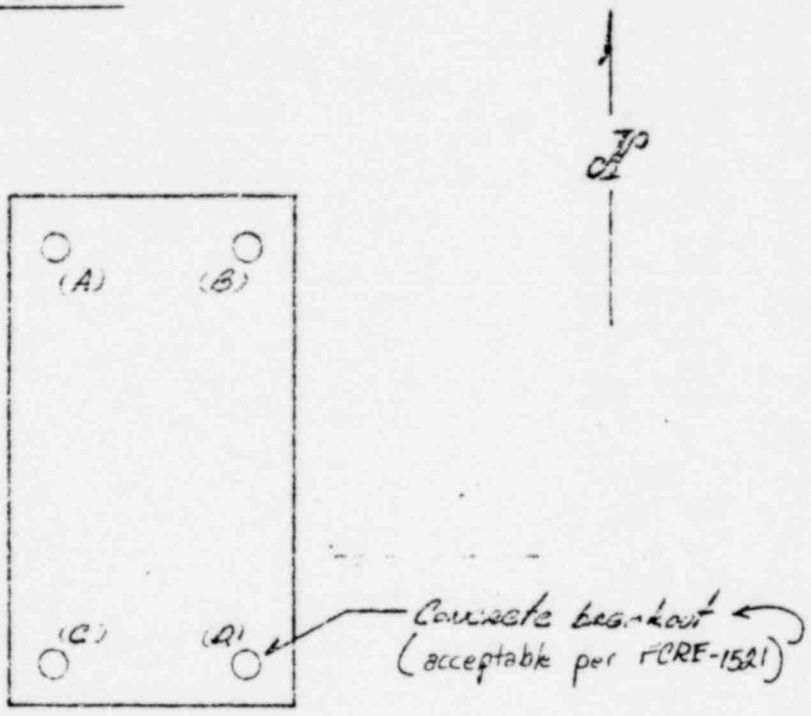
BY DATE CHECKED BY SHEET NO.

PROJECT JOB NO.

SUBJECT CALCULATION NO. FILE NO.

EXPANSION ANCHORS for Support Column

ID-C150-EH-62



A. Torqued to 240 ft/lbs - min embed 5¼", edition 5¼".
B. " " " " " " " "
C. " " " " " " " "
D. " " 270 ft/lbs - min embed 3⅜" " "

Torque Wrench # CAC-2272
Cal. Date - 11-29-77
Exp. date 5-29-78

J. Wayne Stamm QCE
6 April 78

NCR 2435 Page 3 of 3

POOR ORIGINAL

X

NONCONFORMANCE REPORT

S/u. Non Testable Unit.

1. PROJECT NAME	JOB NO.	19. NO. 2436 ~~2435~~	20. PAGE 1 OF 2
MIDLAND	7220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
2	E 643 sh 2	6	Pullbox Support	Aux Bldg Elev 674'-6"

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. 2DJ442 NO E42 REV 41	( ) YES (X) NO	(X) YES ( ) NO	( )Rec'g (X)Const ( )Test	( )Client ( )En. (X)FLD

16. NONCONFORMING CONDITION: E 42 Rev 41 sh 612 gives specifications for a TYPE 612A Pullbox Support. A support of similar configuration has been installed for Pullbox 2DJ442 in the Unit 2 Upper Cable Spreading Room, but no detail exists for the actual installation. Support has been installed as shown on the attached sketch.

E

1 HOLD TAG APPLIED

HOLD FOR ENGINEERING DISPOSITION Q LIST 3.006

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
T Brinston	8-9-79	[signature] Barclay	8-10-79

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

POOR ORIGINAL

1063 098

CALCULATION SHEET

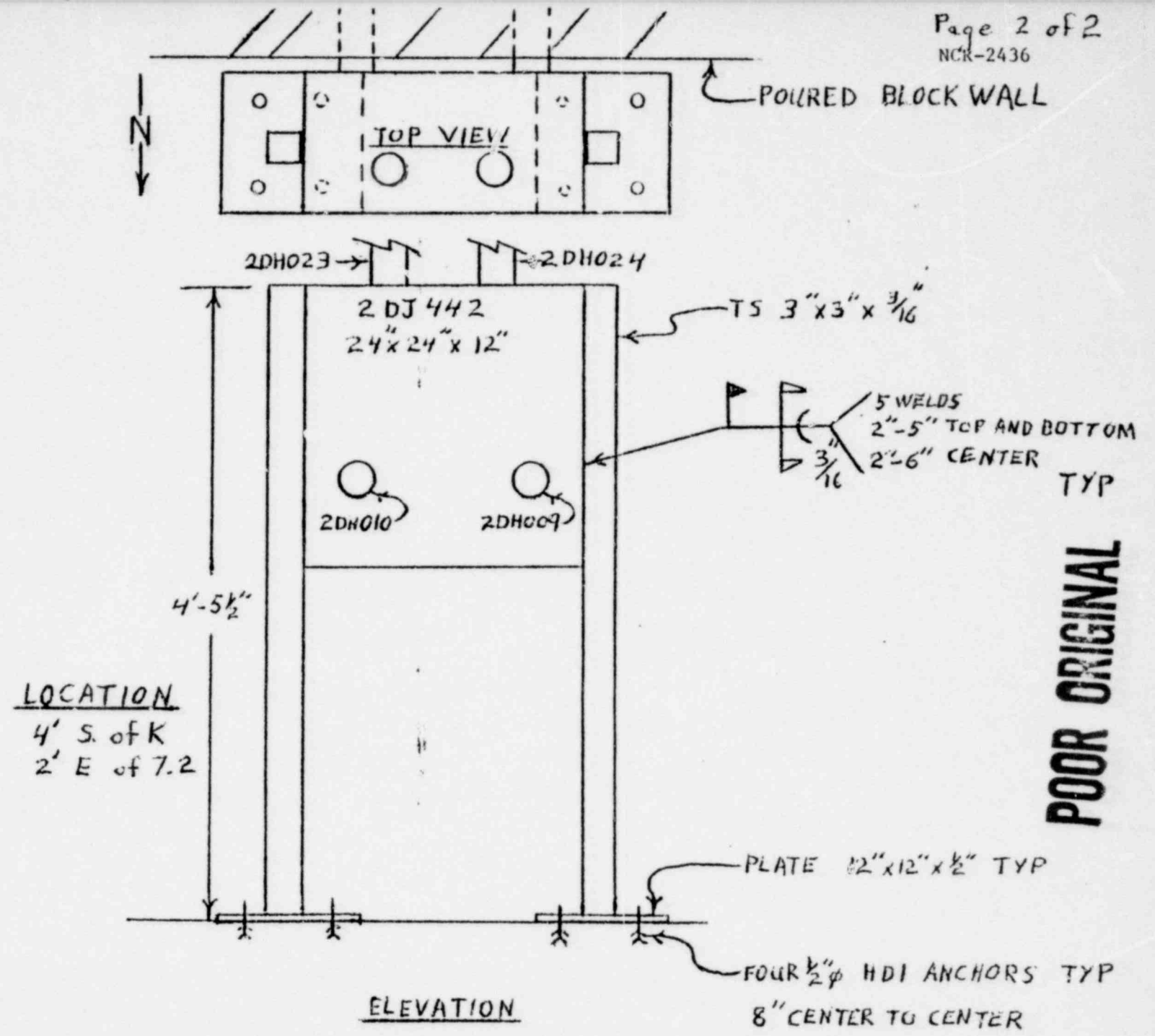
DATE _____ SHEET NO. _____

DESIGN BY _____ DATE _____ CHECKED BY _____ JOB NO. _____

PROJECT _____ C LCULATION NO. _____ FILE NO. _____

SUBJECT _____

BECHTEL



POOR ORIGINAL

1063 099

X

ALAB

NONCONFORMANCE REPORT

S/U N/A

1. PROJECT NAME: MIDLAND	JOB NO.: 7-220			19. NO. 2437	20. PAGE 1 OF 2
2. UNIT(S): N/A	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: CLASS "A" STORAGE, WHSE #1		5. ITEM LOCATION: WHSE #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: ENG.	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER IR NO. N/A NO F-1-28 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 (X)Eng ( )FLD

16. NONCONFORMING CONDITION: F-1-28 Form for Storage requirements for Level "A" Warehouse Environmental Control states: "Humidity shall not exceed 50% relative humidity" Contrary to the above the relative humidity exceeded 50% on the following dates with no disposition by the Mat'l Storage Eng. noted on the applicable F-2 Forms.

"CONDITION IDENTIFIED BY CPCo"

CONT PG 2

17. REPORTED BY: M. Donovan DATE: 8/13/79

18. VALIDATED BY: [illegible] DATE: 8-13-79

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

Block 16 continued

DATE	RELATIVE HUMIDITY	E-R NO.
4-26-79	56%	10776
5-24-79	52%	10910
5-27-79	52%	10910
6-4-79	71%	10939
6-6-79	56%	10963
6-7-79	54%	10963
6-13-79	54%	10995
6-15-79	54%	10995
6-16-79	61%	10995
6-17-79	53%	10995
7-31-79	52%	11269
8-4-79	52%	11269
8-5-79	53%	11269

"Q" number is N/A. 3 hold tags applied to doors to prevent removal of equipment prior to disposition concurrence. Hold for Babcock and Wilcox disposition. Inventory of material in Class "A" storage in fort receiving. Inventory scheduled to begin 8/6/79 by receiving personnel.

POOR ORIGINAL

X-

BECHTEL

NONCONFORMANCE REPORT

S/U Non Testable Unit

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO. 2438	20. PAGE 1 OF 2
2. UNIT(S): 1 & 2	3. DRAWING/PART NO.: E642 sh 2 / E643 sh 2	REV: E/5	4. ITEM DESCRIPTION: Bolts for HDI 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 (M) SPEC ( ) OTHER IR NO E1.0 NO. C305 Rev 8	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (M) NO	13. SKETCH ATTACHED ( ) YES (M) NO	14. Discovered During ( )Rec'g (M)Const ( )Test	15. Equip Furnished By ( )Client ( )Eng (M)FLD	

16. NONCONFORMING CONDITION: C 305 - Rev 8 SCN 7002 section 3.5 states... "Bolts to be used in conjunction with HDI Drop in Anchors shall be ASTM A 307 or approved equal. Contrary to the above, the following pullboxes were installed using 3/8" ϕ HDI anchors and bolts that do not have the ASTM code on the Head, or any other mark indicating these bolts are approved equals to A 307's.

CONTINUED

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
T. Bentley	8-13-79	W. Shipley	8-13-79

21. ROUTING: (M) 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

1063 102

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 2 19NCR NO 2438

CONTINUED FROM PAGE 1 BLOCK 16

	BOX NUMBER	NUMBER of Bolts Installed without Marking
UNIT 1	1DJ475	8 of 8
	1BJ476	8 of 8
	1DJ474	8 of 8
	1BJ477	12 of 12
UNIT 2		
	2DJ803	3 of 8
	2BJ802	8 of 8
	2BJ801	12 of 12
	2BJ800	8 of 8

NOTE: ONE of Eight bolts Twisted off in the Anchor Sleeve when the box was removed to test anchors.

8 TAGS APPLIED
HOLD FOR ENGINEERING DISPOSITION
QLIST 3.006

POOR ORIGINAL

X

Alab

NONCONFORMANCE REPORT

s/u nontestable unit

1. PROJECT NAME: MIDLAND	JOB NO.: 7220				19. NO. 2440	20. PAGE 1 OF 2
2. UNIT(S): 1	3. DRAWING/PART NO.: E 642 sh 2	REV: 6	4. ITEM DESCRIPTION: HDI ANCHORS		5. ITEM LOCATION: Aux Bldg Elev 674'	
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 10347-1, 10347-5 NO 5 SCI 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: C 305 Rev 8 TABLE 3.2 calls out a minimum embedment of 1 5/8" for 3/8" ϕ HDI Anchors. In order to meet this requirement, the 3/8" HDI Anchor has to be set at least 1/16" below the concrete surface. Contrary to the above, the box support anchors listed below protrude above the concrete surface 3/16" making the actual embedment of these anchors 1 3/8" only.

E/C

CONTINUED

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
[signature]	8-13-79	[signature] Barclay	8-14-79

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

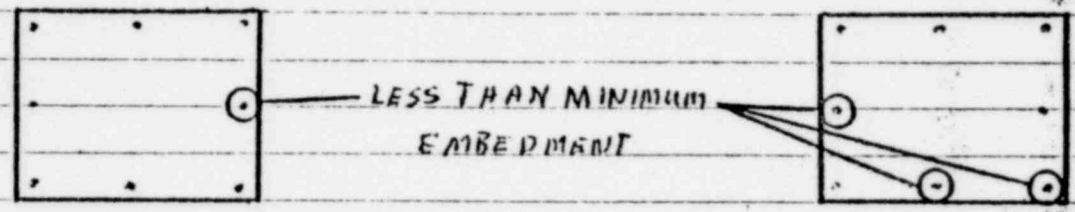
QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

POOR ORIGINAL

Continued from Page 1 Block 16

Facing North at H Line Wall
Elev 674'-6"



1DJ475
2' W of 5.7

1DJ474
2' E of 5.9

2 Tags Applied
Hold for Engineering Disposition
Q List 3.006

POOR ORIGINAL

X

Class

...FORMANCE REPORT START UP CODE: INDETERMINATE

1. PROJECT N... MIDLAND	...NO. 22			19. NO. 2441	20. PAGE 1 OF 3
2. UNIT(S) INDETER	3. RAW...NG. N/A	...ON BLK 16		5. ITEM LOCATION G-11-N QC HOLD POSEYVILLE	
6. P.O. ... REV. 25 REL. 7 REV 17 7220-F-3107	7. SERIAL NO. N/A	8. P... P/N ... SER ...	9. SOURCE SUPPLIER	10. .../SUPPLIER NPS INDUSTRIES INC.	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER	IR NO. R-1,DU-10... NO. SEE BLK 16	ASM... N... ...IZED ...EQ'D ...O	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: WELD ... WAS P... ...ED ON MISCELLANEOUS FABRICATED METAL 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 NPS1-8353/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 Montemuro	8-14-79	M B Barclay	8-15-79

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

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

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

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

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER	DATE
AUTHORIZED INSPECTOR	DATE

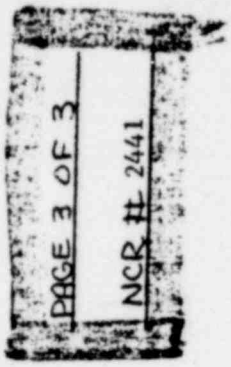
1063 106

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 3 19NCR NO 2441

(CONT'D FROM BLOCK 16)
AN SDDR AND WELD PROCEDURES FROM NPS INDUSTRIES.
REFERENCE: TELECOPY C233A-F-3107-122 (6) PAGE 3 OF 3 OF THIS NCR.
HOLD FOR ENGINEERING DISPOSITION.
"Q" NUMBER IS INDETERMINATE.
4 HOLD TAGS APPLIED.

L. Dudley

TELECOPY



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
~~C7220-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.

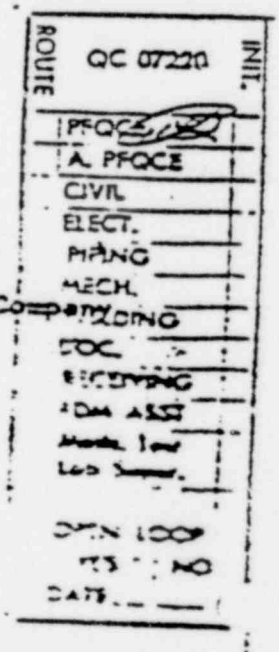
The material will be placed on hold once it arrives on the jobsite until Bechtel has reviewed and approved an SDDR and weld procedures from NPS. The SDDR must address the fact that the welding was done with weld procedures that were not prequalified to the total requirements of Bechtel's drawings and 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. Neugen
Project Superintendent
Bechtel Power Corporation
Agents of Consumers Power Company

JFN/JPB/jss



RECEIVED

JUL 12 1979

QUALITY CONTROL
BECHTEL JOB 7220

1063 103

X

Alaf

S/U OPHI

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 07220			19. NO.: 2442	20. PAGE 1 OF 2
2. UNIT(S): 2	3. DRAWING/PART NO.: N/A	REV	4. ITEM DESCRIPTION: 3/C. 350 MCM (Cable Code B-11)	5. ITEM LOCATION: Installed (Avg 685')	
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: Construction	10. CONTRACTOR/SUPPLIER: Essex	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. 2AB2312A 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 ( ) Eng (X) FLD	

16. NONCONFORMING CONDITION: Cable Pulled For Scheme # 2AB2312A Was Pulled Back 5' @ AJ394 with a Mare's Tail and a Come-A-Long. There Was No Quality Control Witness ON The Pull Back and No Dynamometer Used. Physical Damage Was an Indentation of The Outer Jacket In The Configuration of a Mare's Tail Deep Enough To Show Defined Lines of Forces. (Block 16 Cont.)

E

17. REPORTED BY: James Pearson DATE: 8-14-79

18. VALIDATED BY: T.B. Barclay DATE: 8-14-79

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

1063 109

S/U OPH1

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 2 19NCR NO 2442

(Block 16 Cont.)

Leaving The Integrity of The Conductors and The Outer Jacket Indeterminate.

Q List # 3.003 Two (2) Hold Tags Applied Hold For Engineering Disposition

X

Alat

BECHTEL

NONCONFORMANCE REPORT

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

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO. 2443	20. PAGE 1 OF 2
2. UNIT(S): Common	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: IC-43 thru IC-45 & 2C-43 thru 2C-45 SAFETY RELATED EQUIPMENT RMS.		5. ITEM LOCATION: EL 659'0" Area 3, NORTH OF H LINE
6. P.O. OR SPEC NO.: N/A	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE: ENG.	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER IR NO. N/A NO F-10-204 REV. 1	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( )Rec'g (X)Const ( )Test	15. Equip Furnished By ( )Client (X)Eng ( )FLD	

16. NONCONFORMING CONDITION: F-10-204 FORM requires relative humidity of 60% or less - not to exceed 60% for a total of 4½ days cumulative in a 90 day period. Contrary to the above, the relative humidity exceeded 60% on the following days, documented on the following F-20 forms:

Cont Pg. 2

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
M. Donovan	8/13/79	T.C. Barclay	8-14-79

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

Block 16 continued

F-20 Form	Date of Inspection
3883	4/25/79
3947	5/11/79
4065	6/8/79
E5118	7/13/79
E 5179	7/23/79
E 5179	7/25/79
E 5257	8/10/79

"Q" number is 5.202. No Hold tags applied to the nonconforming items.

Any subsequent inspections revealing the same discrepancy will be noted by the NCR No. on the applicable F-20 Form for the time frame this NCR remains open.

X.

Also

NONCONFORMANCE REPORT

SV 2-BKA

1. PROJECT NAME: MIOLAND	JOB NO. 7220				19. NO. 2444	20. PAGE 1 OF 2
2. UNIT(S): 2	3. DRAWING/PART NO.: JB2-0033	REV: 2	4. ITEM DESCRIPTION: INSTR. ZFT-1305A LINE & BACK FLUSH VALVE AT A28		5. ITEM LOCATION: AUX 568' N OF D/W OF 7.4	
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 (X) SPEC ( ) OTHER IR NO I-110-ZFT-B05A-1 NO J218 REV 8	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Rec'g (X) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FLD		

16. NONCONFORMING CONDITION: SPEC J-218 REV 8 6.1 PARA 1 STATES IN PART: "PRIOR TO INSTALLATION ALL TUBING SHALL BE VISUALLY CHECKED FOR CLEANLINESS". PARA. 2 STATES: "ALL OPENINGS SHALL BE COVERED WITH PROTECTIVE CAPS WHENEVER WORK IS NOT ACTUALLY IN PROGRESS". CONTRARY TO THE ABOVE: FIELD WELDS 5, 6, 7, 17, 18 ON TUBING LINE ZFT-1305A HAVE BEEN INSTALLED AND WELDED WITHOUT VISUAL VERIFICATION OR DOCUMENTATION. BACK FLUSH VALVE AT A28 COORDINATE ON INST. SEE CONT. SH. FOR CONT. OF BKK*

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
[signature]	8-15-79	[signature]	8-16-79

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

1063 113

CONTINUATION OF BLOCK # 16

LINE 2FT-1305A HAS BEEN LEFT UNCAPPED, THEREFORE LEAVING THE CONTAMINATION OF SAID VALVE & LINE INDETERMINATE.

P-LIST # 5.0117 ONE HOLD TAG APPLIED TO 2FT-1305A.

X

Alat

BECHTEL

NONCONFORMANCE REPORT

s/u new testable unit

1. PROJECT NAME: MIDLAND	JOB NO.: 7220				19. NO. 2445	20. PAGE 1 OF 2
2. UNIT: 2	3. DRAWING/PART NO.: E603	REV: 7	4. ITEM DESCRIPTION: HDI ANCHORS		5. ITEM LOCATION: Aux Bldg Elev 646'	
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 2AL-WCC, 2AL-WCC IR NO 2BL-WCC, 2BL-WCC DWG E 39 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)FLD	

16. NONCONFORMING CONDITION:

E/C

E39 REV 7 sh 20 TABLE 1 gives specifications for sizing anchor bolts on TYPE 1 Wireway supports using a 12"x12"x½" baseplate. Contrary to the above, two supports in the unit 2 Process Instrument Room have ⅝"ϕ HDI Anchors instead of the ⅝"ϕ studs which are called out as the minimum size allowable. In addition, one of these supports has used ¾"ϕ HDI anchors on three of four corners. The anchor size is approved (CONTINUED)

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
K Bennett	8-15-79	T Barclay	8-16-79

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

1063 115

CONTINUED FROM Page 1 BLOCK 16

for this support, however, one of these anchors failed from excessive slippage when tension tested. Support Details are as follows:

① Attached Raceways, 2AWW024, 2AWW026
2'-6" W of G.L
4'-6" N of H Line
Plate Size 12"x12"x ½"
4 of 4 anchors are ⅝" ϕ HDI

② Attached Raceways, 2BWW001, 2BWW002
3' W of G.L
5'-6" N of H Line
Plate Size 13"x 13"x ½"
3 of 4 anchors are ¾" ϕ HDI 1 of 3 Failed Tension Test
1 of 4 anchors is ⅝" ϕ HDI

2 Tags Applied
Hold for Engineering Disposition
Q List 3.006

POOR ORIGINAL

X

Alab

NONCONFORMANCE REPORT

5/11. Non testable Unit.

1. PROJECT NAME: Midland	JOB NO.: 07120			19. NO. 2446	20. PAGE 1 OF 4
2. UNIT(S): 1 Alab/2	3. DRAWING/PART NO.: See block #16	REV	4. ITEM DESCRIPTION: Testing of Hilti drop-in anchors	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 (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: The pressure gauge, serial # BPC 1444, which was used in conjunction with a hydraulic testing device, for the testing of drop-in type expansion anchors, was found to be out of calibration. This gauge was used by Quality Control to accept anchor installations as identified below (See p. 4 for the calibration certification which found the gauge out of calibration):

(continued on p. 2)

E

17. REPORTED BY: Ralph Amos — DATE: 8/14/79

18. VALIDATED BY: BCS WBarclay — DATE: 8-16-79

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

1063 117

Block #16 continued

IR No.	Dwg No.	Anchor Size	Qty. Tested	Service
C-1.50-2PT-3234C-1	ESK-2/W/19 J-3152	1/2"	one	Instrument Support
C-1.50-2PT-3234A-1	ESK-2/W/19 J-3152	1/2"	one	Instrument Support
C-1.50-2PT-1942-1	FSK-JC2-0008	1/2"	one	Instrument Support
C-1.50-2PT-1946-1	FSK-JC2-0004	1/2"	two	Instrument Support
C-1.50-2PT-1949-1	FSK-JC2-0003	1/2"	two	Instrument Support
C-1.50-2PT-3218C-1	ESK-2/W/19 J-3152	1/2"	four	Instrument Support
C-1.50-1PT-0391C-	FSK-JB1-0024 sh 2	3/8"	two	tubing Support (A-8)
C-1.50-1PT-0392C-2	FSK-JB1-0024 sh 1	1/2"	two	tubing Support (A-4)

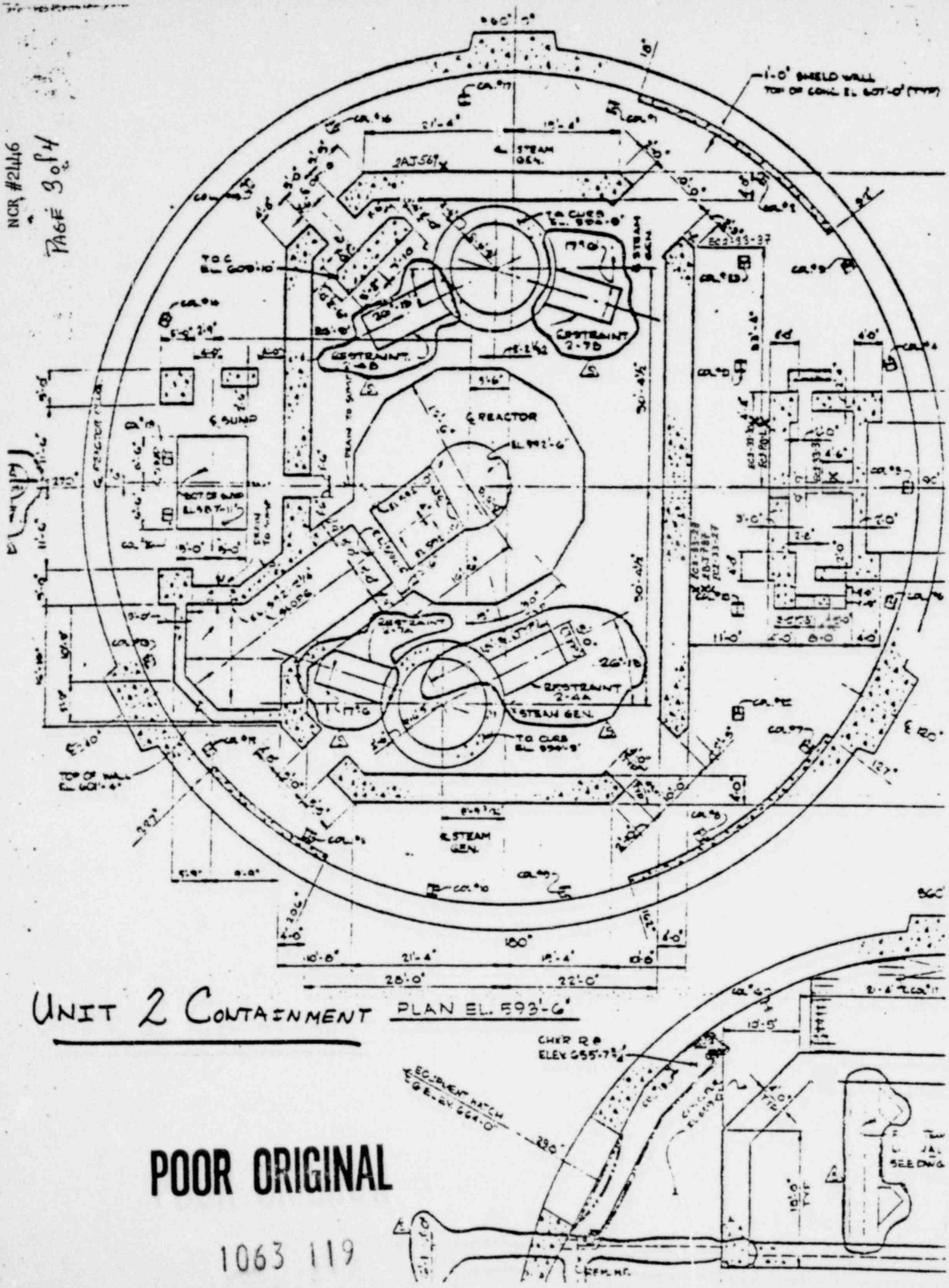
IR#	Location	Anchor Size	#installed	#tested	Support #
C1.50-EH282	Aux, El 685', 7.2-7.8, K-Kc	5/8"	8	2	632-48
C1.50-EH96	R/B2, El. 603', 333°, see p. 3	3/8"	4	1	2AJ569
C1.50-EH88	R/B2, El 617', 30°, see p 3	3/8"	18	1	EC2-33-37
C1.50-EH88	R/B2, El. 614', 75°, see p 3				EC2-33-30
C1.50-EH88	R/B2, El. 605', 75°, see p. 3				EC2-33-PBL
C1.50-EH88	R/B2, El. 600', 115°, see p. 3				EC2-33-28
C1.50-EH88	R/B2, El. 601', 115°, see p. 3				2BJ787
C1.50-EH88	R/B2, El. 606', 115°, see p. 3				EC2-33-27
C1.50-EH89	R/B2, El. 600', 98°, see p. 3	1/2"	1	1	EC2-33-3

HOLD FOR ENGINEERING DISPOSITION
Q List 1.102
Seventeen (17) Hold Tags Applied.

1063 118

NCR #2446

Page 30 of 44



UNIT 2 CONTAINMENT PLAN EL. 593'-6"

POOR ORIGINAL

1063 119

NCR #21446 PAGE 4 of 4

BECHTEL POWER CORPORATION

Calibration Certification

Job 7220 Preparation Date 7-10-

ITEM: Pressure Gauge MANUFACTURER Ashcroft

BECHTEL S/N: BPC 1444 MANUFACTURER S/N: NA

CAL./CERT. AGENCY: BCL MODEL NUMBER: 1279 D

CALIBRATION PROCEDURE USED: FIG 10.20 4 REQUIRED ACCURACY: ± 50 psi

CALIBRATION STANDARD USED: BPC L 5054
BPC L 5055

CALIBRATION STANDARD (X) ~~WAS~~, TRACEABLE TO NATIONAL BUREAU OF STANDARDS FOR ACCURACY VERIFICATION. NOTE: IF CALIBRATION STANDARD IS NOT TRACEABLE TO NBS, STATE IN "COMMENTS" SECTION.

PSI Standard Value	BEFORE C.A.L. Inc.	BEFORE C.A.L. Dec.	AFTER CAL. Inc.	AFTER CAL. Dec.	Other	Remarks
1000	1410	1410	975	975		
2000	2440	2440	2000	2000		
3000	3460	3460	3010	3010		
4000	4460	4460	4015	4015		
5000	—		5000	5000		

ADJUSTMENTS MADE: Yes [X] No [ ]

MAXIMUM ERROR BEFORE CAL. + 460 psi AFTER CAL. - 25 psi

DISTRIBUTED WITH NCR'S REQUIREMENTS FOR ACCEPTANCE: Yes [X] No [ ]

COMMENTS: Range 0 - 5000 psi
Gauge looks as though it had been over-pressured. Glass broke also

CALIBRATOR L. Conklin DATE 7-10-79

POOR ORIGINAL

1063 120

Atab

S/U Non testable unit

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 7220				19. NO. 2447	20. PAGE 1 OF 2
2. UNIT(S): 1	3. DRAWING/PART NO.: E628	REV: 6	4. ITEM DESCRIPTION: Conduit Support		5. ITEM LOCATION: 695'-Aux, 2'W of E-3, 6'N of H	
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. C304-9436 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) FLD		

16. NONCONFORMING CONDITION: Spec C-304, 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 section of PIPING3 has been welded to the flange of a beam with a ¼" fillet, 4" long, 2 sides, transverse (across-the-flange) weld. PIPING3 supports 2 unstenciled Q conduits. Location: 695', 6' north of E, 7' west of E-3, rigid frame area.

E/W

17. REPORTED BY: CA Cameron — DATE: 8-14-79

18. VALIDATED BY: CA Barclay — DATE: 8-16-79

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

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 2 19NCR NO 2447

Block 16 cont.

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

POOR ORIGINAL

0

Alab

NONCONFORMANCE REPORT

s/u NON testable wit

1. PROJECT NAME	JOB NO.			19. NO.	20. PAGE
Midland	7220			2448	1 OF 1

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
2 Aux Bldg	E-623	9	Conduit Support	Aux Bldg El. 645'-0"

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

11. INSPECTION CRITERIA	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
(X) DWG ( ) SPEC ( ) OTHER IR NO. 50-304-81/8W NO. E-42 Rev 41	( ) YES (X) NO	( ) YES (X) NO	( ) Rec'g (X) Const ( ) Test	( ) Client ( ) Eng (X) FLD

E/U

16. NONCONFORMING CONDITION: The E-42 DCN 81 sh 6 note K ii states that for type 14 & 16 supports length of welds to be 1½" min., 2½" max. (where the last weld segment stops short of the edge of the flange, The weld may be extended to the edge provided the length does not exceed 3½"). Contrary to this the field has installed 8 type 14 supports accross the flange of a beam with 4" stitch welds to the edge of the flange. These conditions are located 2' & 10'6" S/EK, an. 19' W/79 "Q" list 3.006 (2) Hold tags applied Hold for Engineering Disposition

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Dale D. Hallenbeck	8-15-79	[illegible] Barclay	8-16-79

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

22. ( ) Field Engineering Dispos... .. ( ) 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

AUTHONIZED INSPECTOR DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

1063 123

-0-

Alab

NONCONFORMANCE REPORT

S/U IGSB

1. PROJECT NAME: MIDLAND	JOB NO.: 7220					19. NO. 2449	20. PAGE 1 OF 1
2. UNIT(S): 1	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: B-25 7/14			5. ITEM LOCATION: AUX BLDG EL-646 SPREADER ROOM
6. P.O. OR ~~SPEC NO.~~: E-26	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE: CONSTRUCTION	10. CONTRACTOR/SUPPLIER: ROCKBESTOS		
11. INSPECTION CRITERIA ( ) DWG (✓) SPEC ( ) OTHER IR NO. IAB4310K NO.		12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (✓) NO	13. SKETCH ATTACHED ( ) YES (✓) NO	14. Discovered During ( )Rec'g (✓)Const ( )Test	15. Equip Furnished By ( )Client (✓)Eng ( )FLD		

16. NONCONFORMING CONDITION:

E

Cable pulled for Scheme #IAB4310K B-25 7/14 has a deficiency in the outer JACKET. Deficiency is a blister 1/8" X 5/8" exposing the insulation of the inner conductors. The Quality of this cable is therefore indeterminate.

2 Hold TAGS Applied (LIST 3.007) Hold for Eng Disp.

17. REPORTED BY: Ken Drew DATE: 8-16-79

18. VALIDATED BY: KM WCS RWBarclay DATE: 8-17-79

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

1063 124

X

bodz

s/u - see pg 2

RE: 8/23/79

NONCONFORMANCE REPORT

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO. 2450	20. PAGE 1 OF 2
2. UNIT(S): 1 & 2	3. DRAWING/PART NO.: SEE BLOCK # 16	REV	4. ITEM DESCRIPTION: FIELD WELDS ON INST. DWGS. PERFORMED BY P-73	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 N/A SER NO. N/A	9. SOURCE: CONSTRUCTION	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. NO G-27 WQ1-1.3		12. ASME AUTHORIZED INSPECTION REQ'D (X) YES ( ) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Rec'g (X) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FLD

15. NONCONFORMING CONDITION: G-27-WQ1-1.3 STATES IN PART: WELDERS &/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 & PRESS. CODE. CONTRARY TO THE ABOVE; SOCKET WELDS WHERE WELDED BY PROCEDURE P8-T-AG REV. 4, BY WELDER # P-73. AT THE TIME WELDS WHERE DONE P-73 WAS CERTIFIED ONLY ON P8-T-B (SEE CONTINUATION SH. FOR CONT BLOCK #16

17. REPORTED BY	DATE	VALIDATED BY	DATE
[signature]	8-16-79	W Barclay	8-17-79

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

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

Field Engineering recommends "use as is" due to the fact that welding procedure P8-T-6 does qualify a welder to make socket and/or fillet welds in accordance with ASME Sec, IX, However, Project specificant 7220-J-218 requires a back purge which is an essential variable of ASME (see IX). Welder P-73 was tested, and passed the test for welding procedure P8-P1-AT-AG which qualifies him to make welds under specification 7220-5-218.

23. PROJECT ENGINEERING DISPOSITION

PB Brooks 8/03/79

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

26. QC ACCEPTANCE

QC ENGINEER	DATE
AUTHORIZED INSPECTOR	DATE

CONTINUATION OF BLOCK # 16.

All welds performed by P-73 on following instrument drawings where done at said time:

	S/U
FSK-JB1-0033	1BKA
FSK-JB1-0035	1BCA
FSK-JB1-0059	1BGA
FSK-JB2-0033	2BKA
FSK-JB2-0034	2BHA -2BCA
FSK-JB2-0030	2BKA
FSK-JB2-0031	2BGC

QP List # 5.0.39 ONE HOLD TAG EACH LINE

Ala.

NONCONFORMANCE REPORT start up code: indeterminate

1. PROJECT NAME: Midland	JOB NO. 7220			19. NO. 2451	20. PAGE 1 OF 1
2. UNIT(S): indeterminate	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: SMLS. C.S. ASME SA-106 Gr. B 133 pcs of 1" pipe and 141 pcs. of ½" pipe sch. 80	5. ITEM LOCATION: Roseyville	
6. P.O. OR ~~SPEC~~ NO.: F 3152 Rel. 3	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N ____ REV ____ SER NO. N/A	9. SOURCE: Supplier	10. ~~CONTRACTOR~~/SUPPLIER: Guyon Alloy	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (M) OTHER IR NO. R-1.00-10375 NO. M-305 Rev. 4	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) FLD	

16. NONCONFORMING CONDITION: PQCI R-1.00 Rev. 8 activity # 4.0 requires inspection for proper Material Identification Bechtel Purchase Order F 3152 requires heat numbers to be Vibro-Etched on each end of each length of pipe. Contrary to the above, on 22 of the 35 sample pcs. of the 1" pipe and 29 of the 35 sample pcs. of the ½" pipe received on AEO-10375 the Vibro-Etched heat numbers are illegible. "Q" number is indeterminate until installation. Hold pending final disposition & Hold tags applied to the pipe.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Michael J Moore	8-15-79	[illegible] Barela	8-16-79

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

1063 127

X

alat

NONCONFORMANCE REPORT

S/A O-EAA

1. PROJECT NAME: Midland	JOB NO. 7220			19. NO. 2453	20. PAGE 1 OF 3
2. UNIT(S): Common	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: Grouted Instrumentation Stands	5. ITEM LOCATION: SWPS El. 634'	
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. C-306 Rev. 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:

Specification 7220-C-306 Rev. 4, Section 2.0 states in part: "Visual inspection of the process of grouting anchor bolts shall be performed to assure correct installation." Contrary to the above, the following instrument stands located in the Service Water Bldg. Elev 634'-6", shown on the attached sketch were grouted without QC witness:

(Continued on Page 2)

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Kathy Gusser	8/17/79	G.F. Larsen/WLB	8/17/79

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

C

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 3 19NCR NO 2453

Block 16 Continued

OPD - IT - 1831	OSS - 0027 - 14
OPI - 1825	OSS - 0027 - 9
OPD - IT - 1830	OSS - 0027 - 13
OPI - 1824	OSS - 0027 - 8
OPD - IT - 1829	OSS - 0027 - 12
OPI - 1823	OSS - 0027 - 7
OPD - IT - 1828	OSS - 0027 - 11
OPI - 1822	OSS - 0027 - 6
OPD - IT - 1827	OSS - 0027 - 10
OPI - 1821	OSS - 0027 - 5

Hold for Engineering Disposition. 10 Hold Tags Applied.
"Q" List # 1.505.

1063 127

NCR #

XY 8/17/74

Page 3 of

OP-15B

OP-15D

OP1-1821
055-0027-8

OP-15E

OPD-1T-1829
055-0027-12

OP1-1823
055-0027-7

OP-15C

OPD-1T-1828
055-0027-11

OP1-1822
055-0027-6

OPD-1T-1827
055-0027-10

OP-15A

OP1-1821
055-0027-5

N

3000

3/3

NCR-2453

POOR ORIGINAL

Service Water Bldg. Elev. 634'-6"

X

Alat

S/U. Non testable Unit

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.			19. NO. 2454	20. PAGE 1 OF 2
MIDLAND	7220				
2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION	
I	E-632	7	EXPANSION ANCHORS	AUX. 685' ELEV.	
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 ( ) OTHER IR NO. NO. C-305	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( )Rec'g (X)Const ( )Test	15. Equip Furnished By ( )Client ( )Eng (X)FLD	

E/C

16. NONCONFORMING CONDITION: C-305 SCN 9005 #415 STATES, "MISLOCATED/ABANDONED EXPANSION ANCHORS SHALL NOT BE CUT OFF AT THE CONCRETE SURFACE. THESE ANCHORS SHALL BE LEFT IN PLACE (EXPOSED) OR COMPLETELY REMOVED.

CONTRARY TO THE ABOVE, TWO ABANDONED 1/2" ϕ ANCHORS HAVE BEEN RECESSED INTO A WALL & GROUTED OVER.

① THE FIRST ANCHOR IS LOCATED ON THE Kc WALL

17. REPORTED BY S.L. Mainthi DATE 8/16/79

18. VALIDATED BY T.E. Russell/MLB DATE 8/20/79

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

1063 131

(CONT. BLOCK #16)

DIRECTLY BELOW AN UNSCHEDULED PULL BOX FOR CONDUITS 1BFB001, 1BFB004 & 1BFB005. (LOC. 5.3-5.9/Kc)

② THE SECOND ANCHOR IS LOCATED ON THE 5.3 WALL AT POINT OF INTERSECTION WITH J LINE. THE ANCHOR IS DIRECTLY ABOVE BOX # 2AJ655.

BOTH GROUTED AREAS HAVE BEEN IDENTIFIED WITH A BLACK MARKER BY Q.C.

Q. LIST #1.202 TWO HOLD TAGS APPLIED

HOLD FOR ENGINEERING DISPOSITION

Alab

NONCONFORMANCE REPORT

s/u nontestable unit

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO. 2455	20. PAGE 1 OF 2
2. UNIT(S): 2	3. DRAWING/PART NO.: E 643 sh 2	REV: 6	4. ITEM DESCRIPTION: HDI 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 (✓) SPEC ( ) OTHER IR NO. 2BFBC05 SPEC NO. CSCS Rev 8 DWG L 3'1 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:

C/E

A TYPE 1A wireway support was selected as part of a random sample for testing 1/2" ϕ HDI anchors. When the support was removed for testing, the following nonconforming conditions were discovered:

1. The minimum allowable anchor size for a TYPE 1A wireway support with 12" x 12" x 1/2" baseplate is a 5/8" ϕ stud. Anchors used were 1/2" ϕ HDI.

CONTINUED

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
K Brinster/dcg.	8-20-79	DCG/JS Russell/WLB	8/20/79

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

1063 133

CONTINUED FROM PAGE 1 BLOCK 16

2. Four of four anchors installed protrude above the concrete surface. Minimum embedment requirements have not been met.
3. One anchor failed due to excessive slippage during tension testing.
4. Holes in the plate were drilled to 5/8" ø to allow installation of the support with these anchors.
5. Washers were being used as shims under two corners of the plate to compensate for uneven concrete.

Support is located on Elev. 674'6" between H and Hk lines and between 6.6 and 7.2 lines. Attached to conduit 2BFB005.

I HOLD TAG APPLIED
HOLD FOR ENGINEERING DISPOSITION
Q LIST 3.006 + 1.202

POOR ORIGINAL

X-

Alab

s/u Nontestable unit

NONCONFORMANCE REPORT

1. PROJECT NAME: MIDLAND	JOB NO.: 7220				19. NO. 2456	20. PAGE 1 OF 2
2. UNIT(S): 1	3. DRAWING/PART NO.: E602	REV: 6	4. ITEM DESCRIPTION: HDI ANCHORS		5. ITEM LOCATION: Aux Bldg Elev 646'	
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.		
11. INSPECTION CRITERIA (X) DWG (X) SPEC ( ) OTHER IR NO. 1EE-2-7(CC)-2 SPEC NO. C-SC2 Rev 3 DWG E39 Rev 7	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED (X) YES ( ) NO	14. Discovered During ( )Rec'g ( )Const (X)Test	15. Equip Furnished By ( )Client ( )Eng (X)FLD		

16. NONCONFORMING CONDITION:

E/C

A special case support from E39 Rev 7 sh 44 was selected as part of a random sample for testing 5/8" ø HDI anchors. When the support was removed for testing, one anchor failed the tension test due to excessive slippage. It was also discovered that another anchor in this group had been cut off flush with the concrete surface and now does not meet minimum embedment requirements. The holes for (CONTINUED)

17. REPORTED BY: [signature] DATE: 8-16-79

18. VALIDATED BY: [signature] DATE: 8/20/79

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

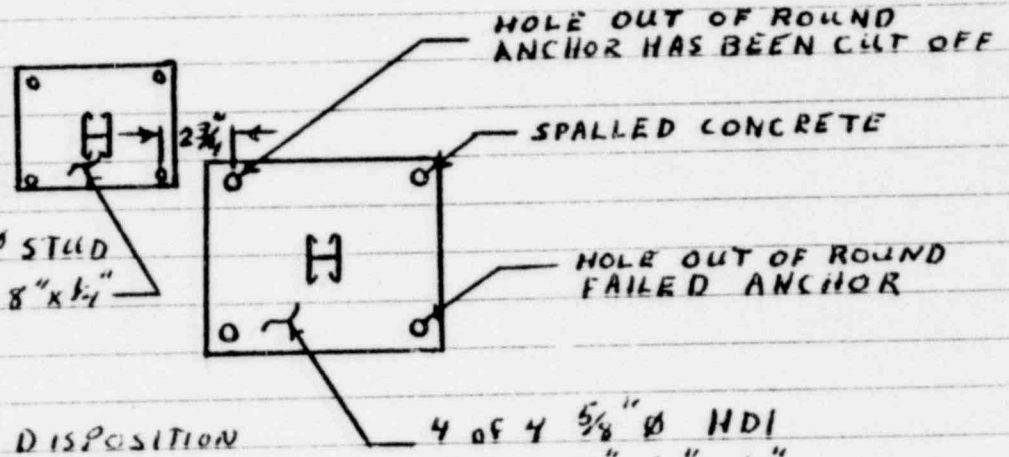
AUTHORIZED INSPECTOR — DATE

POOR ORIGINAL

1063 135

CONTINUED FROM Page 1 Block 16

these two anchors were drilled out of round, and the concrete around a third anchor was spalled. It was further observed that one of these anchors was installed next to a TYPE 2 wireway support such that the center to center spacing between a 3/8" ø stud and the 5/8" ø HDI is only 2 3/4". See sketch below.



LOCATION

SO. SIDE OF G LINE WALL
2'-6" W of 5.9

1 HOLD TAG APPLIED
HOLD FOR ENGINEERING DISPOSITION
Q LIST 3.006

POOR ORIGINAL

1063 136

X

S/U Indeterminate

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
MIDLAND 1&2	7220	2457	1 OF 2

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
(COMM)	N-A	0	4" SEAMLESS STEEL SCH. 10	CAMBO SHOP

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

11. INSPECTION CRITERIA	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG (X) SPEC ( ) OTHER IR NO. N/A NO. M-204 Rev. 10	( ) YES (X) NO	( ) YES (X) NO	( ) Rec'g (X) Const ( ) Test	( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION: SPEC. M204 REV. 10 PARA. 4.1.3(d) STATES; MARKING PAINT OR INK APPLIED TO AUSTENITIC STAINLESS STEEL MATERIAL IN THE FIELD SHALL BE CERTIFIED THAT THE TOTAL HALOGEN AND SULFUR CONTENT DOES NOT EXCEED 200 PPM. CONTRARY TO THIS SPEC. PIPE, HT.# 03981, 4" SCH. 10 IS MARKED WITH YELLOW PAINT, WHICH IS NOT ACCEPTABLE FOR USE ON STAINLESS STEEL PIPE.

17. REPORTED BY Jesse Perez DATE 8-18-79

18. VALIDATED BY E.W. 8-20-79 A.E. Russell/mwb DATE 8/20/79

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

POOR ORIGINAL

1063 137

BECHTEL

NONCONFORMANCE REPORT (CONT'D) 1. PAGE 2 OF 2 14. NCR NO. -457

ONE WELD WAS APPLIED ON THE PIPE AT THE AFFECTED ZONE

10098-2

QC-G3-3

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

POOR ORIGINAL

Alab

S/O NON-TRSTABLE

NONCONFORMANCE REPORT

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO. 2459	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. "C" LINE WALL NEAR 5.1 ELEV. 603'-7"	
6. ~~P.O. OR~~ SPEC NO.: C-231(Q) Rev. 17	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE: CONSTRUCTION	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. NO. C-231(Q)		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-231(Q), APPENDIX E, PART 2.2, STATES IN PART THAT TWO REBAR IN THE SAME DIRECTION, ON THE SAME FACE, MAY BE CUT WITHIN FIVE FEET RADIALLY, PROVIDED THERE IS AT LEAST TEN FEET RADIALLY TO THE NEXT CUT BAR IN THE SAME DIRECTION, ON THE SAME FACE, CONTRARY TO THIS, A VERTICAL REBAR WAS CUT, ON THE ~~NORTH~~ FACE OF C LINE WALL, WHILE CORE DRILLING A 4" DIAMETER PENETRATION, TWO FEET AWAY FROM ANOTHER CUT VERTICAL BAR. (CONT'D)

17. REPORTED BY: Steve Page DATE: 8-20-79

18. VALIDATED BY: A. E. Russell/WLR DATE: 8/21/79

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

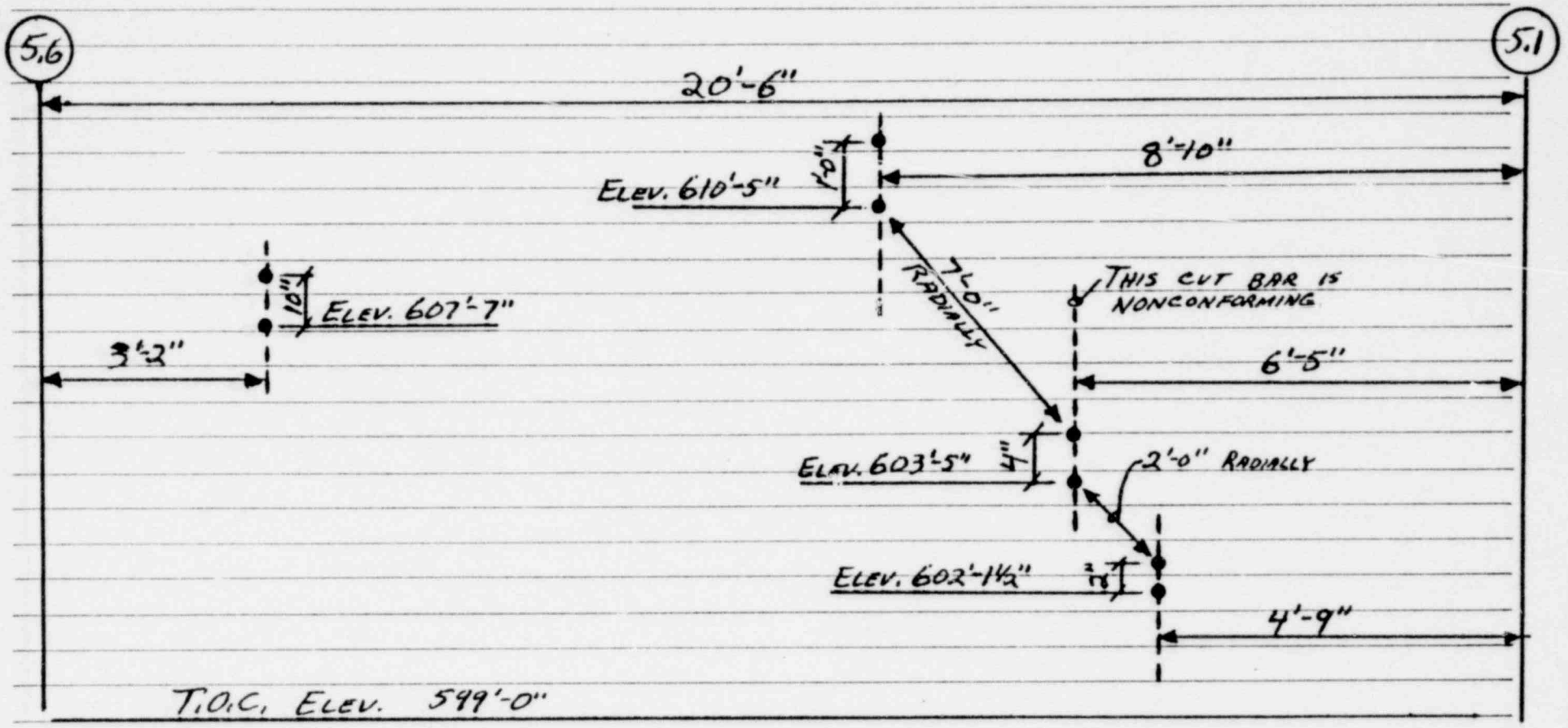
QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

1063 139

NONCONFORMANCE REPORT (CONT'D) 1 PAGE 2 OF 2 14. NCR NO. 59

(BLOCK 16 CONT'D) THERE IS ONLY 7'-0" TO THE NEXT CUT VERTICAL BAR ON THE NORTH FACE. Q LIST #1,203, HOLD FOR RMG. DISPOSITION, 1 HOLD TAG APPLIED.



WALL @ LINE (C) - LOOKING SOUTH

= LOCATION OF CUT REBAR - ALL BARS ARE #8

SKETCH NOT TO SCALE

10098-2

QC-G3-3

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

1063 140

Mat

NONCONFORMANCE REPORT START UP CODE : INDETERMINATE

1. PROJECT NAME: Midland	JOB NO.: 07220			19. NO. 2460	20. PAGE 1 OF 2
2. UNIT(S): INDETER	3. DRAWING/PART NO.: N/A	REV	4. ITEM DESCRIPTION: SOCKET WELD FITTINGS SEE BLK 16	5. ITEM LOCATION: QC HOLD WHSE #1	
6. P.O. [redacted] REV 1 REL 1 REV C 7220-F-3151	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV ____ SER NO. ____	9. SOURCE: SUPPLIER	10. [redacted]/SUPPLIER: CHICAGO TUBE & IRON	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER IR NO. R100-10075 NO. F-3151 rel. 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 ( ) Client ( ) Eng (X) FLD	

16. NONCONFORMING CONDITION: PURCHASE ORDER 7220-F-3151 REV 1 REL. 1 REV. D REQUIRES THE SUPPLIER TO FURNISH MATERIAL IN ACCORDANCE WITH SPECIFICATION 7220-M-305 REV. 4. CONTRARY TO THE ABOVE, THE SUPPLIER SUBMITTED A G-321-D FROM REV. 3 OF M-305 FOR MATERIAL RECEIVED ON MATERIAL RECEIVING REPORT # AEO-10075 (CT&I SHIPPING TICKET NOS. 02404 AND 02533). HOLD FOR (SEE PAGE 2 OF 2)

17. REPORTED BY: Rick G. Montemurro DATE 8/18/79

18. VALIDATED BY: [redacted] T. Russell DATE 8/21/79

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

R

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 2 19NCR NO 2460

(CONT'D FROM BLK. 16)
ENGINEERING DISPOSITION. "Q" NUMBER IS INDETERMINATE. 4 HOLD TAGS APPLIED.

X

Alaf

NONCONFORMANCE REPORT

S/U Non Testable

1. PROJECT NAME: Midland	JOB NO. 7220			19. NO. 2461	20. PAGE 1 OF 3
2. UNIT(S): 1 & 2	3. DRAWING/PART NO.: See attached sheets	REV	4. ITEM DESCRIPTION: Hilti Drop-In Anchors		5. ITEM LOCATION: See attached sheets
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-1.50 NO. C-305	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: Thirty two (32) Hilti Drop-In Anchors were tested per Spec. C-305, Rev. 8, Table 3.2. Nine (9) out of thirty two (32), in the locations and sizes (diameter) shown in the attached table, failed the tension test. The test was performed using ENERPAC Ram Model JSH-123, and pressure gauge No. BPC-1444, Cal. Due Date 10-10-79.

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

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Neil Batmazyan	8-21-79	M. E. Russell/WLB	8/21/79

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

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

23. PROJECT ENGINEERING DISPOSITION

26. QC ACCEPTANCE

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

1063 143

FAILED ANCHORS LOCATION AND SIZE (DIAMETER)

LOCATION	DWG. No.	ANCHOR DIA. (IN)	FAILED AT
Aux. Bldg. Upper Spreader Rm. 1DJ475 center right anchor	E-642 Sh. 2	3/8	1.5 KIPS of 2.0 KIPS
Aux. Bldg. Upper Spreader Rm. 1DJ474 Bottom left anchor	E-642 Sh. 2	3/8	1.4 KIPS of 2.0 KIPS
Containment 2, El. 593'-6" 2BJ637 Bottom right anchor	E-650, Sh. 1	3/8	1.98 KIPS of 2.0 KIPS
Aux. Bldg. El. 646' Process & Inst. Rm. Unit 1 1CJ528	E-602	3/8	1.65 KIPS of 2.0 KIPS
Aux. Bldg. El. 646' Process & Inst. Rm. Unit 1 support 602-38 lower right anchor	E-602	5/8	1.24 KIPS of 4.0 KIPS
Aux Bldg. El. 674' Unit 2, Upper Spreader Rm. support 603-48, lower left hand anchor	E-603	5/8	3.5 KIPS of 4.0 KIPS

LOCATION	DWG. No.	ANCHOR DIA. (IN)	FAILED AT
Aux. Bldg. El. 674' Unit 2 Upper Spreader Rm. support 643-10 Upper right anchor	E-643 Sh. 2	1/2	2.48 KIPS of 2.5 KIPS
Containment 1, El. 626± Support 756-21	E-756	3/4	4.0 KIPS of 6.0 KIPS
Containment 1 El. 626± Support 756-21	E-756	3/4	4.0 KIPS of 6.0 KIPS

Q List 3-006
One HOLD tag applied (to support 756-21)
Hold for Engineering disposition

X

Alab

S/U # Indeterminate

NONCONFORMANCE REPORT

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO. 2462	20. PAGE 1 OF 2
2. UNIT(S): 1&2	3. DRAWING/PART NO.: N/A	REV	4. ITEM DESCRIPTION: MISC. REPLACEMENT PARTS		5. ITEM LOCATION: WHSE #1
6. P.O. ~~OR SPEC NO.~~: E-7-AC	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N ____ REV ____ SER NO. N/A	9. SOURCE: SUPPLIER	10. CONTRACTOR/SUPPLIER: ITE IMPERIAL (GOULD INC)	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER — IR NO. R-1.00-10380 NO. E-7 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:

upon completion of reveiw of documentation packages for E-7. GOULD S.O. 84-56122Y & 84-56122X the following discrepancies were noted. (84-56122-Y). The G-321-D column 8 was not completed by the supplier. Column 9 and Block 22 were not signed by the Bechtel Shop Inspector. (Release Twx was recieved 8/3/79). Block 16 (QUANTITY) STATES 790 should be 803. (continued)

17. REPORTED BY — DATE: G. M. Mc Alaster 8/21/79

18. VALIDATED BY — DATE: J. E. Russell/WLB 8/21/79

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

1063 146

(Block 16 cont.)
The wrong specification Rev's have been Recorded on the Statement of Conformance. S of C. Shows Rev. 5 Should show Rev. 6.

(84-56122-X)
The wrong P.O. and specification Rev's have been recorded on the S. of C. The S. of C. shows The P.O. Rev 8 Should show Rev. 9. The specification Shows Rev. 5 Should show Rev. C. No Painting Certification has been received.

Q number is indeterminate. Hold For Engineering disposition.
* Hold tags applied to the nonconforming Items.

Block 16 (cont.)
A conditional release is granted to allow the installation of the Electrical Equipment on this NCR. Corrections or removal can be accomplished without causing damage or contamination to associated plant equipment or structure.

W. Dillon HSB 8-21-79 J.T. Russell/WHB 8/21/79
PFE Date PFQE Date

R.C. Holtan 8/21/79
PQAE Date

* HOLD TAGS will be supplied per work orders ISSUED per day.

POOR ORIGINAL

BECHTEL MIDL

11328
BF-BC

WU INFOMASTER 1-027217M214 08/02/79
TWX BECHTEL A SFO
025 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-E7-AC

REV #
9

SUPPLIER
GOULD-BROWN BOVERI CORP.

CITY
WEST MINISTER

STATE
MD

P.O. ITEM	ID NUMBER MISC. Q LISTED	P.O. ITEM	ID NUMBER EQUIPMENT A QTY OF 858
73H	73H	86W	86W
72K	72K	86X	86X
80A	80A	86Y	86Y
80D	80D	86FF	86FF
80F	80F	86GG	86GG
80H	80H	86HH	86HH
80J	80J	86LL	86LL
80M	80M	86JJ	86JJ
80N	80N	86LL	86LL
80P	80P		
80Q	80Q		
80W	80W		
85A	85A		
85B	85B		
85C	85C		
86A	86A		
86B	86B		
86C	86C		
86D	86D		
86E	86E		
86F	86F		
86G	86G		
86H	86H		
86I	86I		
86J	86J		
86K	86K		
86L	86L		
86M	86M		
86N	86N		
86P	86P		
86Q	86Q		
86R	86R		
86S	86S		
86U	86U		
86V	86V		

DATE RELEASED FOR SHIPMENT: 7-31-79

WITH THE FOLLOWING EXCEPTIONS: APPROVED EXCEPTION BECHTEL ENGINEERING ACCEPTING SDDR #1151
X SUPPLIER'S STATEMENT OF CONFORMANCE FOLLOWS BY MAIL
DOCUMENTATION PACKAGE WITH SHIPMENT

FRED ZIKOWITZ
8-2-79/1220

1441 EST

BECHTEL MIDL

RECEIVED
AUG 03 1979
QUALITY CONTROL
BECHTEL JOB 7220
SIGNATURE

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

POOR ORIGINAL

X

Slab

NONCONFORMANCE REPORT

S/2 1-CAA

1. PROJECT NAME: MIDLAND	JOB NO.: 7220	19. NO. 2463	20. PAGE 1 OF 2

2. UNIT(S) AFFECTED: SER. NTR.	3. DRAWING/PART NO.: M-618-ESR 1	4. ITEM DESCRIPTION: 30" HOSE-CHECK VALVE (HE-614) S/N 3N6068			5. ITEM LOCATION PER NTR.: Tyler Room E-21
6. P.O. OR SPEC NO.: N/A	7. SERIAL NO.: SEE BACK	8. REPLACEMENT PART: P/N N/A REV N/A SER NO. N/A	9. SOURCE (CONSTRUCTION):	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA: (X) DWG (X) SPEC ( ) OTHER — IDENTIFICATION: ASME B31.1 1967	12. ARE AUTHORIZED CORRECTIONS TO BE MADE? (X) YES ( ) NO	13. SKETCH ATTACHED: (X) YES ( ) NO	14. Drawing(s) Dwg(s) Sketch(es) ATTACHED	15. ITEM IS: (X) REJECTED ( ) ACCEPTED AS IS	

16. NONCONFORMING CONDITION: SPEC M-204 REV 10 S-2 3 PARA 5 STATES IN PART: "CARE SHALL BE TAKEN TO PREVENT DAMAGE TO THE VALVE."

CONTRARY TO THE ABOVE, DURING LIQUID PENETRANT EXAMINATION OF FILLET WELD #42 ON 30" GATE VALVE (HE-614) S/N 3N6068, A LINEAR INDICATION WAS FOUND IN HEAT AFFECTED ZONE OF WELD. THE INDICATION IS APPROX. 1 3/4" LONG / 1/8" EXTENDING INTO HEAT AFFECTED ZONE. INDICATION WAS UNABLE TO BE REMOVED BY CONSERVATIVE BUFFING (MEASURED LEAKING DEPTH OF INDICATION) WITHIN ALLOWABLE (SEE CONT-SH. FOR LOC. OF PART) TO

17. INITIATED: [signature] DATE: 8-22-79

18. VERIFIED: [signature] DATE: 8/22/79

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

20. ( ) Field Engineering Disposition ( ) Field Engineering Recommended Disposition Pending Engineering Evaluation

21. DESCRIPTION/CONCURRENCE

Remark	Date	Initial	Approved

PROJECT QUALITY ENGINEER — DATE

PROJECT ENGINEER — DATE

YARD CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

22. DISPOSITION RESULTS

23. PROJECT ENGINEERING DISPOSITION

VERY POOR ORIGINAL

26. QC ACCEPTANCE

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

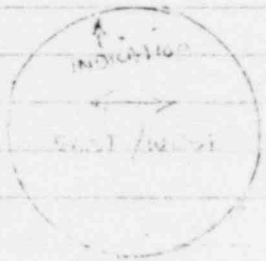
1063 149

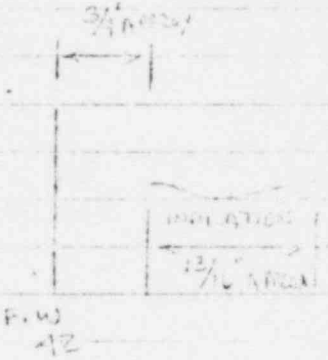
NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 2 19NCR NO 2463

(CONTINUATION OF BLOCK # 16)

INDICATION WAS FOUND ON OUTFLOW SIDE (SEE SKETCH) OF 8" HDL CHECK VALVE (HB 019) IN SMOOTH ON INSIDE DIAMETER OF VALVE

Q NOT # 9.186 ONE CHOLD TAG ATTACHED TO SAID VALVE.





VERY POOR ORIGINAL

X

Also

NONCONFORMANCE REPORT — Non-testable Unit

1. PROJECT NAME	JOB NO.	19. NO. 2464	20. PAGE 1 OF 4
Midland	07220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
2	E-42	41	Seismic Conduit Supports	R/B 42 see block 16

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

11. INSPECTION CRITERIA	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
X DWG ( ) SPEC ( ) OTHER IR NO. see block 16 NO. E-42 rev 41	( ) YES (X) NO	( ) YES (X) NO	( ) Rec'g (X) Const ( ) Test	( ) Client ( ) Eng (X) FLD

16. NONCONFORMING CONDITION: Drawing E-42 sh 335, rev 41, when welding across the flange of a beam for a type 14 conduit support, requires 2" weld on 3" centers. DCN 81 to E-42 allows a tolerance to this detail which states, in part:

"ii.) Length of weld: ½" min., 1½" max. (when the last weld segment stops short of the edge of the flange the weld may be extended to the edge provided the length does not exceed 3½").

iii.) Spacing between weld segments may vary between ½" min. and 1½" max."

Contrary to the above, the following installations exist: (see page 2)

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
[illegible]	8/24/77	[illegible]	8/22/79

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

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

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

VERY POOR ORIGINAL

Block #16 continued.

IR #	Support #	Location	Elev.	Plate Location	weld	Stiff	weld	Stiff	weld	Stiff	weld	Stiff	weld
A) 2ALH013	EC2-33-226	South face of	105'-2"	Top Bolt (T.P.)	1 7/8"	1 1/16"	2"	1 3/16"	3/4	1"	2"	15/16	1 3/8"
2304-P-5W		col #1		Bottom Bolt (B.P.)	2 3/8"	1"	1 3/8"	1 3/8"	3 3/8"	1 1/8"	1 1/2"	1 5/8"	1 3/4"
B) 2AVH002	EC2-33-186	South face of	105'-9"	T.P.	2"	1 5/8"	2 7/8"						
2304-P-5W		col #1		B.P.	1 5/8"	1 3/8"	1 5/8"						
C) 2AVH002	EC2-33-183	South face of	106'-8"	T.P.	1 3/16"	2 1/16"	1 9/16"	5/8"	1 3/4"				
2304-P-5W		col #1		B.P.	1 5/8"	2 1/16"	1 7/8"	1 3/4"	1 1/16"				
D) 2ALH013	EC2-33-207	South face of	117'-10"	T.P.	2"	7/8"	2"	3/4"	5 3/8"	1"	2"	1"	2"
2304-P-5W		col #1		B.P.			ACCEPTABLE						
E) 2AVH002	EC2-33-184	South face of	95'-8"	T.P.	2"	2"	1 3/4"	1 1/2"	2"				
2304-P-5W		col #1		B.P.	1 1/2"	1 1/16"	1 5/8"	1 3/4"	2"				
F) 2ALH013	EC2-33-53	South face of	82'-8"	T.P.	1 1/16"	1"	1 1/4"	7/8"	4 1/2"	1"	1 5/8"		
2304-P-6W		col #1		B.P.	1 5/8"	1 1/4"	1 3/4"	1"	3"	1"	2 3/8"	1"	2"
G) 2AVH002	EC2-33-54	South face of	95'-5"	T.P.	1 1/2"	2 1/16"	1 7/8"	3 1/8"	1 5/8"	7/8"	1 3/8"		
2304-P-6W		col #1		B.P.	1 3/4"	1 5/8"	1 5/8"	1 3/4"	1 3/4"	1 1/4"	1 3/8"		
H) 2ALH013	EC2-33-42	West face of	100'-3"	T.P.	1 3/4"	1 1/2"	2	1 3/16"	3 1/2"	1"	1 9/16"	1 3/8"	1 5/8"
2304-P-5W		col #23		B.P.	2"	1"	2"	1"	3 3/4"	1"	1 3/16"	1 1/8"	1 1/2"
I) 2AVH013	EC2-33-220	West face of	100'-7"	T.P.	1 3/4"	1"	2 1/4"		2 1/16"	1 1/16"	1 3/4"	1 1/8"	2"
2304-P-5W		col #23		B.P.	2	1 3/16"	1 9/16"	1 1/8"	2 1/16"	7/8"	1 1/8"	1 3/16"	1 3/4"

VERY POOR ORIGINAL

Block #16 continued

NCR #	Support #	Location	Elev.	Pass location	Weld	Skip	Weld	Skip	Weld	Skip	Weld	Skip	Weld	Skip	Weld
1) 2MSC06 2304-76WV	22-33-161	West face of col #5.	El. 103'	T. Pass (TP) Bottom Pass (BP)	3/8" 1/2"	1 3/16" 1 1/4"	3" 4 1/8"	1 7/8" 1 11/16"	3 1/4" 1 3/4"	3/8" 1"	2 5/8" 3 1/4"				
2) 2MVA05 2304-76WV	22-33-267	North face of col #9	103'-8"	T.P. B.P.	3 11/16" 1"	1" 5/8"	2 7/8" 2 1/16"	3/4" 1/8"	2 7/8" 2 1/4"	1/16" 7/8"	3 3/4" 3 5/8"				
3) 2MVA03 2304-76WV	22-33-268	North face of col #9	107'-7"	T.P. B.P.	3 3/16" 3 3/16"	1/2" 7/8"	2 1/2" 2 3/4"	5/8" 3/8"	2 1/8" 2 3/8"	3/4" 3/4"	4" 3 1/2"				
4) 2CVA01 2304-76WV	22-33-271 (Bottom flange)	64" E. of col #10 S. of Sec. Sh. 10	100'-8"	Ed. P. (EP) Ed. Pass (WP)	1 1/2 5/16	9/16" 5/16"	1 7/8" 2 1/4"	7/8" 1 1/8"	2 15/16" 1 7/8"	9/16" 1"	3 3/4" 3 5/8"				
5) 2CVA08 2304-76WV	22-33-272 (Bottom flange)	47" N.E. of col #10 7" S. of Sec. Sh. 10.	100'-8"	E.P. W.P.	1 3/4 3 1/8"	9/16" 7/8"	1 7/8" 2 1/8"	1 1/2" 1"	1 7/8" 2 1/8"	1" 7/8"	3 3/8" 3 5/8"				
6) 2CVA07 2DVA007 2304-76WV	22-33-274 (Bottom flange)	1'-1" N. of col #10 1'-5" N. of Liner	100'-8"	Bottom Pass (BP) Cover Pass (CP)	3 1/8 4 1/8	9/16" 7/16"	2 1/8" 2"	1 1/8" 1 13/16"	2 9/16" 2 1/2"	9/16" 7/8"	3 13/16" 3 7/16"				
7) 2DVA08 2304-76WV	22-33-420 (Top flange)	1'-10" E. of col #10 1'-4" N. of Liner	102'	E.P. W.P.	3 3/4" 3 3/8	7/8" 1"	1 1/8" 1 1/4"	1 1/8"	2 7/16" 1 7/8"	3/4" 1"	3 3/4" 3 5/8"				
8) 2DVA04 2BVA03 2CVA03 2304-76WV	22-33-154	North face of col #11	114'	T.P. B.P.	5 1/16" 1/8"	5/8" 3/4"	3 1/16" 1 3/4"	3/4" 7/16"	3 1/4" 1 15/16"	3/4" 1"	4 5/16" 2"	1" 1"	1 7/8" 1 1/8"	3/8" 7/8"	1/2" 5/8"

VERY POOR ORIGINAL

1063 153

NONCONFORMANCE REPORT (CONT'D) 20 PAGE 4 OF 4 19 NCR NO 2464

Block #6 continued

IR#	Support #	Location	Elev.	This Location								
1) 2DVA006	EC1-33-107	South-east face of col. # 14	64'	T.P.	2½"	1⅜"	3½"	1⅛"	3"	1"	2⅝"
2DG016 C304-683W				B.P.	1 9/16"	¾"	3"	1 1/16"	2 1/16"	1 1/4"	3 1/8"
2) 2DG016 C304-683W	EC2-33-110	Southeast face of col. # 14	65'-1"	T.P.	3"	⅞"	3⅞"	1"	3¼"	1 1/16"	3¾"
				B.P.	2⅛"	¾"	3"	1 1/16"	3"	⅞"	3¼"
3) 2DVA005 C304-683W	EC2-33-231	Southwest face of col. # 14	17'	T.P.	3⅛"	1 1/16"	3"	1 1/16"	3⅛"	5/8"	3⅛"
				B.P.	2⅛"	1 1/16"	2⅛"	1⅛"	2 1/16"	13/16"	3"
4) 2CVA020 C304-683W	EC2-33-232	Northwest face of col. # 14	62'	T.P.	3⅛"	1 1/16"	3⅛"	1 1/16"	3⅛"	5/8"	3⅛"
				B.P.	3"	1 1/16"	3"	1⅛"	3 1/16"	11/16"	3"
5) 2DVA015 C304-683W	EC2-33-302 (Bottom flange)	Col. # 17 W. of East St. W.	18'-10"	U.P.	1⅞"	1⅜"	2½"	1⅛"	2⅜"	1"	2¼"
				S.P.	2"	1 7/16"	3"	1⅛"	2⅞"	1"	2"
6) 2CVA023 C304-744W	EC2-33-249 (Top Flange)	4'-10" E. of col. # 17 6'-4" N. of Line W.	64"	E.P.	1¾"	1"	1¾"	1 1/16"	2½"	¾"	3½"
				W.P.	2¼"	¼"	2 1/16"	1"	2¼"	⅞"	3 5/16"

HOLD FOR ENGINEER NCR DIST. C I T L W

Q-list 3.00b

Twenty-three (23) Weld Tags Applied.

VERY POOR ORIGINAL

1063 154

X

Alab

NONCONFORMANCE REPORT S/U Non-testable Item

1. PROJECT NAME: Midland	JOB NO.: 07920				19. NO.: 2305	20. PAGE 1 OF 2
2. UNIT(S): 2	3. DRAWING/PART NO.: E-45D Sht 1	REV: 15	4. ITEM DESCRIPTION: Anchor Installation		5. ITEM LOCATION: 2/B&C Sectional 1/2	
6. P.O. OR SPEC NO.: N/A	7. SERIAL NO.: N/A	8. REPLACEMENT PART: PCN 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 4/6 NO. C-305 Rev 3	12. ASME AUTHORIZED INSPECTION REQ'D: ( ) YES (X) NO	13. SKETCH ATTACHED: ( ) YES (X) NO	14. Discovered During: ( ) Rec'g (X) Const ( ) Test	15. Equip Furnished By: ( ) Const ( ) Eng (X) T.E.C.		

16. NONCONFORMING CONDITION: Specification C-305, rev. 8, table 3.2 specifies minimum embedment of 1-5/8" for 3/8" Hilti drop-in (HDI) anchors. It also specifies the test load as 2.0 kips for 3/8" HDI anchors. Contrary to the above, as part of a random sampling of HDI anchors used on site, the following conditions were found to exist:

(continued page 2)

17. REPORTED BY: [illegible] DATE: 4/20/79 — (A) ALIFIED BY): [illegible] DATE: 5/22/79

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

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

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

remark	reject	repair	use as is

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

VERY POOR ORIGINAL

26. QC ACCEPTANCE

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

Block # 16 continued

A.) A Type 1 conduit support, EC2-53-27, for 2B60115, El. 606', 125° on the outside of the Secondary Shield Wall has the south anchor protruding approx. 1/16" beyond the concrete surface, while the north anchor is flush. As the length of 3/8" HDI anchors is 1 3/16", both anchors fail to meet the minimum embalment. (FR# C1.50-EH88)

B.) A Type 9B box support for 2BJ787, El. 601', 125° on the outside of the Secondary Shield Wall has the middle HDI anchor in the lower strut protruding approx 1/16" beyond the concrete surface, thus this HDI anchor does not have the minimum embedment. (IR# C1.50-EH88)

C.) A Type 9B box support for 2AJ569, El. 603', 335° on the outside of the Secondary Shield Wall has two HDI anchors in the upper unistrut, which both protrude approx. 1/16" beyond the concrete surface, thus both of these HDI anchors fail to meet minimum embedment. (IR# C1.50-EH96)

Held For Engineering Disposition
Title (3) Held Tags Applied
Dist 1.102 & 3.005.

VERY POOR ORIGINAL

X

Alat

NONCONFORMANCE REPORT

S/U Non Testable Unit

1. PROJECT NAME: Midland	JOB NO.: 7220			NO.: 2466	PAGE 1 OF 2
2. UNIT(S): 2 Aux Bldg	3. DRAWING/PART NO.: E-617 sh 2	REV: 11	4. ITEM DESCRIPTION: Conduit Support	5. ITEM LOCATION: Unit 2 Aux Bldg	
6. P.O. OR SPEC NO.: N/A	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE: Constr.	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA: (X) DWG ( ) SPEC ( ) OTHER	IR NO. E-304 Sht 10 NO. E-42 Rev 11 G-27 Rev 10	12. ASME AUTHORIZED INSPECTION REQ'D: ( ) YES (X) NO	13. SKETCH ATTACHED: ( ) YES (X) NO	14. Discovered During: ( ) Insp ( ) Const ( ) Test	15. Equip Furnished By: ( ) Client ( ) Mag Data

16. NONCONFORMING CONDITION: The G-27 Rev 10 GWS (structural) paragraph 4.13.4 states that Fillet welded T-joints are prequalified when the T is skewed to not less than 60° nor more than 135°. Contrary to this the E-42 Rev 11 sh 339A Rev 0 shows a skewed brace limit of 45° max with an insufficient weld detail for a skewed brace on a Type 24A conduit support. The field has installed a type 24A support with a skewed brace of approximately 51°. (Block 16 continued page 2 of 2)

E/W

17. REPORTED BY: Rale O Hollenbeck DATE: 6-22-79

18. VALIDATED BY: W. J. Russell DATE: 8/2/79

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

VERY POOR ORIGINAL

NONCONFORMANCE REPORT (CONT'D) PAGE 2 OF 2 14. NCR NO. 2466

Block 16 Continued

This condition is located approximately 5' south of K line & 10' East of 7.R

"Q" list 3.00 (1) Hold Tag Applied Hold for Engineering disposition

VERY POOR ORIGINAL

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

X 2

Alab

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO. 3467 (2466)	20. PAGE 1 OF 2
Midland	7220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
1&2	C-225	11	Welding across a beam flange	Aux. bldg. el 634'

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	Const.	N/A

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

16. NONCONFORMING CONDITION:

Specification C-304 section 6.2.6 states in part; No welding across the flange of the beam shall be done with out the prior approval of Project Engineering. Contrary to the above, beam 2328Z W27 x 102 el. 632'3"(tos) at C-D and 8.3 line, was welded across the flange app. 14" and 42" from the southerly end for two type 14 electrical conduit supports. The continuous welds were ground

(Block 16 cont. page 2)

17. REPORTED BY _____ DATE 8/21/79

18. VALIDATED BY _____ DATE 8/23/79

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

POOR ORIGINAL

16 (cont.)- out by the field leaving app. a 1/8" deep gauge in four locations across the flange.

Q list 1.201 Hold for Engineering disposition. 2 hold tags applied.

POOR ORIGINAL

X

Alat 2

NONCONFORMANCE REPORT

S/U CODE Indeterminate

1. PROJECT NAME: MIDLAND	JOB NO.: 7220				19. NO. 2468	20. PAGE 1 OF 2
2. UNIT(S): UNDETERMINED	3. DRAWING/PART NO.: 7220-M-123B-1-7	REV: N/A	4. ITEM DESCRIPTION: VALVE MODEL 75D-001 TYPE A TRC SOLENOID VALVE 8eq. 2½ CCB-GB-DLR		5. ITEM LOCATION: ON QC HOLD AT WHSE #2	
6. P.O. OR SPEC NO.: M-123B	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N ____ REV ____ SER NO. N/A	9. SOURCE: SUPPLIER	10. CONTRACTOR/SUPPLIER: TARGET ROCK CORP.		
11. INSPECTION CRITERIA: X DWG X SPEC ( ) OTHER — IR NO. R-100-10775 NO. M-123B 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: PROJECT QUALITY CONTROL INSTRUCTION NO. 7220/ R-100 REV. 8 - ACTIVITY DESCRIPTION 2.1c. states in part "Review the QUALITY VERIFICATION DOCUMENTATION REQUIRED BY FORM G-321-D for AVAILABILITY...". CONTRARY TO THIS FORM G-321D with QVD package on items refrenced above have incorrect page counts in Document Categories 12.0, 13.0, 17.1, 19.0, 22.0. Block 16 CONTINUED ON PAGE 2

17. REPORTED BY: [signature] DATE: 8/22/79

18. VALIDATED BY: [signature] DATE: 8/23/79

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

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POOR ORIGINAL

CONTINUATION OF BLOCK 15

DOCUMENT CATEGORY	DOCUMENT DEFINITIONS	SUPPLIER CONFORMANCE CHECK	QC PAGE COUNT
12.0	WELDING PROCEDURES & QUALIFICATIONS	22	17
13.0	WELD ROD CONTROL PROCEDURES	5	11
17.1	CERTIFIED MATERIAL PROPERTY REPORTS	28	20
19.0	ULTRASONIC EXAMINATION PROCEDURES	0	3
22.0	LIQUID PENETRANT EXAMINATION	72	97

Additionally the valve tag numbers ARE DIFFERENT ON THE MATERIAL Req. AND Bechtel approved vendor DRAWING. The DRAWING CONCURS with the code data name plate on the valve. This confliction leaves the tag number (2½CCB-GB-DLR) IN AN indeterminate state.

TAGS ON the valves showing purchase order AND valve NUMBERS (serial NUMBERS) have AN incorrect P.O. Item Number, tags ON valves read P.O. Item 2 and should read P.O. Item 22.1.

Hold for ENGINEERING Disposition. & QC Hold tags applied to NONCONFORMING items. "Q" number is 4.116

POOR ORIGINAL

X.

Alab

NONCONFORMANCE REPORT

S/U CODE BAB

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO.: 2469	20. PAGE 1 OF 2
2. UNIT(S): 1 & 2	3. DRAWING/PART NO.: 7220-J-256-6 (1)-6	REV: N/A	4. ITEM DESCRIPTION: SOLENOID VALVES / VALVE MODEL: 7e3-G28 P.N.F TACO SV-1679A,B,C,D, 2W-1779 A,B,C,D	5. ITEM LOCATION: WHSE # 2	
6. P.O. OR SPEC NO.: J-256 AC	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N ____ REV ____ SER NO. N/A	9. SOURCE: SUPPLIER	10. CONTRACTOR/SUPPLIER: TARGET ROCK CORP.	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER — IR NO. 2100-10154 NO. 2-662 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: PROJECT QC INSTRUCTION NO. 7220/R-1.0C requires..."Review the quality verification documentation required by Form QA-321-D for availability"....Contrary to this Document Category numbers 22.0, 24.0, 25.0 AND 17.5 ARE NONconforming to page count number AS DELINEATED ON PAGE 2 OF THIS NCR.

PAGE 2 CONTINUES BLOCK 16.

17. REPORTED BY [signature] DATE 8/20/79

18. VALIDATED BY [signature] DATE 8/23/79

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

25. QC ACCEPTANCE

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

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POOR ORIGINAL

BLOCK 16 CONTINUED

DOCUMENT CATEGORY NUMBER	DOCUMENT CATEGORY DEFINITIONS	SUPPLIER CONFORMANCE CHECK	QC PAGE COUNT
17.5	ELECTRICAL PROPERTY REPORTS	24	6
22.0	LIQUID PENETRANT EXAMINATION	72	78
24.0	PRESSURE TEST - HYDRO-AIR-LEAK	24	31
25.0	INSPECTION PROCEDURE	5	40
12.0	WELDING PROCEDURE & QUALIFICATION	52	34

HOLD FOR ENGINEERING DISPOSITION. 'Q' number is 5.023 8 QC Hold TAGS APPLIED TO NONCONFORMING ITEMS.

POOR ORIGINAL

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Alab

NONCONFORMANCE REPORT

S/U Nontestable unit

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 2470	20. PAGE 1 OF 1
2. UNIT(S): Cont #1	3. DRAWING/PART NO.: E-655	REV: 9	4. ITEM DESCRIPTION: Anchors for Conduit Support		5. ITEM LOCATION: 624' 215° OutsideSecShldWall
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: C1500IR304 NCR: C-305Rev 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 ( )Eng (X)FLD	

16. NONCONFORMING CONDITION:

Specification 7220-C-305 Rev. 9, Table 4.1 requires the minimum embedment of 3/8" stud anchors to be 1 5/8". Table 3.1 Figure 1 shows shows embedment is measured in Q decking by disallowing the ribbing in the Q deck. Contrary to the above, two (2) 3/8" stud anchors for a Type 1A conduit support in the Q decking have embedment length of 1 3/8" and 1 1/2". Hold for Engineering Disposition: Q List #1.101 One QC Hold Tag applied.

17. REPORTED BY: [signature] DATE: 8-23-79

18. VALIDATED BY: [signature] DATE: 8/23/79

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

POOR ORIGINAL

1063 165

X..

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S U NO. O-EAA.

NONCONFORMANCE REPORT

1. PROJECT NAME: MIDLAND	JOB NO.: 722C			19. NO. 2471	20. PAGE 1 OF 2
2. UNIT(S): COMMON	3. DRAWING/PART NO.: FSA-310-0040 FSS-310-0040-1	REV: 1/2	4. ITEM DESCRIPTION: EXTERNAL CONTAMINATION OF TUBING	5. ITEM LOCATION: SERVICE WATER	
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 NO. Para 16 J-218 Rev 8		12. ANI AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Rec'g (X) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION: SPEC J-218 REV 8 SUBST G.S STATES THAT ALL STAINLESS STEEL IN Ni-BASE ALLOY MATERIALS MUST BE HANDLED IN SUCH A MANNER THAT IT IS NOT IN CONTACT WITH LEAD, ZINC, COPPER, OR OTHER NONFERROUS LOW MELTING ALLOYS OR ELEMENTS TO PREVENT SURFACE CONTAMINATION. CONTRARY TO THIS, TUBING AT POINTS AT § A1 OF OPT-1826 (Q) DWG FSK-310-0040 AND

17. REPORTED BY: Ann Arbor DATE: 8-20-79

18. VALIDATED BY: [illegible] DATE: 8/23/79

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

POOR ORIGINAL

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 2 19NCR NO 2471

TUBING AT POINTS A7 & A3 OF OPT-1826(G12) DWG. PSK-J10-0041 ARE COATED WITH ZINC PAINT.

IR NO. I-1.10-OPT-1826(G11)-1
I-1.10-OPT-1826(G12)-1

HOLD FOR ENGINEERING DISPOSITION

FOUR QC HOLD APPLIED TO TUBINGS
ONE ON EACH TUBING

@ LIS NO. 5.0110.

POOR ORIGINAL

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BECHTEL

NONCONFORMANCE REPORT

START UP CODE: INDETERMINATE

1. PROJECT NAME	JOB NO.		19. NO. 2472	20. PAGE 1 OF 1
MIDLAND	07220			

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
INDETER.	N/A		8 PCS 7/8"x4" JACK SCREWS FOR 4 PAIRS OF 6" 400# ORIFICE FLANGES	QC HOLD WHSE #1

6. P.O. OR SPEC. NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
REV 0 7220-F-31591	N/A	P/N N/A REV ____ SER NO. ____	SUPPLIER	CHICAGO TUBE & IRON

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 DD-9927 NO. PQCI-7220/R-1.00 REV 8	( ) YES (X) NO	( ) YES (X) NO	(X) Rec'g ( ) Const ( ) Test	( ) Client ( ) Eng (X) FLD

16. NONCONFORMING CONDITION:

PROJECT QUALITY CONTROL INSTRUCTION NUMBER 7220/R-1.00 REV. 8 ACTIVITY NUMBER 3.4(b) REQUIRES RECEIVING INSPECTION FOR OVERALL DIMENSIONS AND SURFACE DEFECTS FOR THE ABOVE LISTED JACK SCREWS. ALL PIECES WERE INSPECTED IN ACCORDANCE WITH QCI AND FOUND TO BE DEFECTIVE. THREADS OF JACK SCREWS ARE SLIVERED AND PITTED. HOLD FOR ENGINEERING DISPOSITION. Q NUMBER IS INDETERMINATE. 1 HOLD TAG APPLIED.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Rick G. Montague	8-23-79	T. E. Russell/WLB	8/24/79

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

1063 168

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NONCONFORMANCE REPORT

START UP CODE : INDETERMINATE

1. PROJECT NAME: MIDLAND	JOB NO.: 07220			19. NO. 2473	20. PAGE 1 OF 1
2. UNIT(S): INDETER	3. DRAWING/PART NO.: N/A	REV	4. ITEM DESCRIPTION: MISC 2" AND UNDER PIPE FITTINGS	5. ITEM LOCATION: QC HOLD WHSE #1	
6. P.O. ~~SPEC NO.~~ rel. 1 rev. 0 7220-F-3151 (rev 1)	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV ____ SER NO. ____	9. SOURCE: SUPPLIER	10. ~~CONTRACTOR~~/SUPPLIER: CAMCO FITTINGS Co.	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER	IR NO. R-100-10213 NO. M-305 REV. 4	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During (X) Rec'g ( ) Const ( ) Test	15. Equip Furnished By ( ) Client ( ) Eng (X) FLD

16. NONCONFORMING CONDITION:

PURCHASE ORDER 7220-F-3151 REV. 1 RELEASE 1 REV. 0 REQUIRES THE SUPPLIER TO FURNISH THE MATERIAL AND QUALITY VERIFICATION DOCUMENTATION IN ACCORDANCE WITH SPECIFICATION 7220-M-305 REV. 4. CONTRARY TO THE ABOVE, THE SUPPLIER SUBMITTED G-321-D FORMS FROM REV 3 OF M-305. MATERIAL IS RECEIVED ON MATERIAL RECEIVING REPORT # AED-10213 (CAMCO P/L 70174). HOLD FOR ENGINEERING DISPOSITION. "Q" NUMBER IS INDETERMINATE. 4 HOLD TAGS APPLIED.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Rick C. Mathews	8-23-79	T. E. Russell	8/24/79

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 ____

1063 169

X

Alab

BECHTEL

NONCONFORMANCE REPORT start up code: indeterminate

1. PROJECT NAME: Midland	JOB NO. 7220			19. NO. 2474 (2476)	20. PAGE 1 OF 2
2. UNIT(S): indeterminate	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: ASME SA-234 WPB SMLS. Butt Weld 5 ea. 4" std. 90° Ell, 5 ea. 4" std. TEE, 9 ea. 12"x6" std. TEE		5. ITEM LOCATION: WHSE #1
6. P.O. OR ~~SPEC~~ NO.: F37108	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N ____ REV ____ SER NO. N/A	9. SOURCE: Supplier	10. ~~CONTRACTOR~~/SUPPLIER: Liberty Equipment	
11. INSPECTION CRITERIA ( ) DWG (M) SPEC (M) OTHER — IR NO. R-1.00-10428 NO. M-215 Rev. 2	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) FLD	

16. NONCONFORMING CONDITION: ASME SA-234 section III class 2 '77 edition Table 1 requires Carbon Steel Grade B forgings to conform to the chemical composition and tensile requirements of ASTM A-181 Grade 2 and A-105. Upon review of the documentation for the forged fittings received on AEC-10428, the following discrepancies were found. @ ASTM A-181 Grade 2 requires a maximum Manganese content of 0.90%. Contrary to this the Manganese content for the 5 ea. 4" std. tees and 9 ea. 12"x6" reducing tees (cont'd on page 2)

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Michael J. Moore	8-23-79	G. E. Russell/WLB	8/24/79

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

PROJ CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

POOR ORIGINAL

1063 170

(block "16 cont'd) was over 0.90% (see attached CMTR). ② ASTM A-105 and A-181 Grade 2 both specify a minimum tensile strength of 70,000 psi. Contrary to this, the tensile strength for the 5 ea. 4" std Ells and 7 of the 9 ea. 12" x 6" reducing tees is less than 70,000 psi (see attached CMTR). "Q" number is indeterminate until installation. Hold pending final disposition. 2 Hold tags applied.

POOR ORIGINAL

F.37108

NCR-2474

FOOT OF S.W. GIBBS ST. PORTLAND, OREGON 97201

tube forgings OF AMERICA INC.

MILL TEST REPORT

5/15/79

SOLD TO LIBERTY EQUIPMENT
620 E. BRUNEAU
KENNEWICK, WA 99336

(SAME AS SOLD TO UNLESS OTHERWISE INDICATED)

SHIP TO BECHTEL POWER CORP.
c/o 3500 EAST MILLER ROAD
MIDLAND, MI

TUBE FORGINGS INVOICE NO	DATE	CUSTOMER'S P.O. NUMBER	GRADE OF MATERIALS
23564	7.23.79	82573 TR	ASME SA 234 WPB SEC. III CLASS 2,'77 EDITION WINTER '77 ADDENDA

TFA CODE	QUAN.	SIZE	SCHEDULE AND TYPE	MILL HEAT NO	TEST PRESS POUNDS	YIELD POINT PSI	TENSILE STRENGTH PSI	PERCENT ELONG %	PERCENT RED OF AREA	ANALYSIS C	MN	P	S	SIL	MO	CR	NI
EE86	5	4	Std. LR 90			49200	69000	64.0		.23	.78	.015	.025	.22			
GG13	7	6	Std. LR 90			48500	70500	40.0		.23	.83	.018	.022	.23			
DD51	3	6	Std. LR 90			49100	70500	43.0		.23	.80	.022	.018	.22			
DD9	1	4	Std. Tee			49100	71800	36.0		.19	.95	.006	.019	.20			
DD10	1	4	Std. Tee			54800	76400	42.0		.20	1.00	.007	.012	.21			
DD11	3	4	Std. Tee			52400	79000	39.0		.23	.92	.008	.025	.18			
AA56	7	12x6	Std. Tee			43000	69400	42.0		.20	.91	.007	.017	.20			
CC63	2	12x6	Std. Tee			48500	76200	40.0		.24	.98	.009	.020	.22			

10 CFR 21 APPLIES
MATERIAL CONFORMS TO NCA 3800

SUBSCRIBED and SWORN TO BEFORE ME

this 23rd day of July 19 79

By Diana W Pawine
NOTARY PUBLIC FOR THE STATE OF OREGON

MY COMMISSION EXPIRES 9.2.79

I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF THE ABOVE REPORT IS TRUE AND CORRECT

BY L.D. Pershey Q. C. Manager
FOR TUBE FORGINGS OF AMERICA, INC.

1063 172

D -

Alab

NONCONFORMANCE REPORT

5/4 Now testable unit

1. PROJECT NAME: Midland	JOB NO.: 7220				19. 2475 NO.	20. PAGE 1 OF 1
2. UNIT(S): 1 Aux Bldg	3. DRAWING/PART NO.: E-616 sh 2	REV: 8	4. ITEM DESCRIPTION: Conduit Support		5. ITEM LOCATION: Unit 1 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 (X) DWG ( ) SPEC ( ) OTHER — IR NO. C-304 Bol w NO. E-42 Rev 41	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		

W

16. NONCONFORMING CONDITION: The E-42 Rev 41 Pcn 81 sh 6 Rev 0 note 7 Ki states that for support types 14 and 16 the leg size of the weld across the flange shall be 1/8 minimum, and 1/4" maximum. Contrary to this the field has installed two type 14 supports with leg lengths of stitch welds which exceed the 1/4" max. These conditions are located on Hk line, 3' and 7' west of 6.6 line

"Q" list 3.006 (2) Hold tags applied Hold for Engineering Disposition

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Dale B. Hallenbeck	8-23-79	DCS for E. Russell/WLB	8/24/79

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

POOR ORIGINAL

1063 173

0

Clark

NONCONFORMANCE REPORT

START-UP #2-BGC

1. PROJECT NAME	JOB NO.	19. NO. 2476	20. PAGE 1 OF 1
MIDLAND	7220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
1 & 2	FSK-DVI-M-604-5	3	SW #52 ON FSK-DVI-M-604-5	EL V-549 AUX BLDG.

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

11. INSPECTION CRITERIA	IR NO.	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG ( ) SPEC (X) OTHER	P1.10-1 NO. EPW-4.000 REV #1	(X) YES ( ) NO	( ) YES (X) NO	( ) Rec'g (X) Const ( ) Test	( ) Client ( ) Eng (X) FLD

16. NONCONFORMING CONDITION: EPW-4.000, REV #1, STATES IN PART: COPY #4 OF THE QCIR W-100B FORM, MUST BE AT THE WELD JOINT PRIOR TO THE F.W.E. ACCEPTING THE FIT-UP & RELEASING THE JOINT FOR WELDING: CONTRARY TO THE ABOVE, SW #52 WAS WELDED COMPLETELY, PRIOR TO THE ATTACHMENT OF COPY #4 OF THE QCIR W100-B, OR FIT-UP ACCEPTANCE BY THE F.W.E. (SW #52 IS ON CONN. #2)
(1) HOLD TAG APPLIED (QA #4.047)

17. REPORTED BY: Joe Cancel DATE: 8/23/79 (8/24 #1)

18. VALIDATED BY: J. Elrod/[illegible] DATE: 8/24/79

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

POOR ORIGINAL

X

SW NO#
IEAD

Alab

BECHTEL

NONCONFORMANCE REPORT

1. PROJECT NAME: MIDLAND	JOB NO. 7220			19. NO. 2477 -1977-	20. PAGE 1 OF 2
2. UNIT(S): 1+2	3. DRAWING/PART NO.: M619-5	REV: 9/F1	4. ITEM DESCRIPTION: 20" 150# RF FLANGE	5. ITEM LOCATION: AUX. Bldg ELEV. 544'-4" E OF C-2 6'-6" S OF 1873A ℄	
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. PI-10-4 NO. M204	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Rec'g (X) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FLD	

16. NONCONFORMING CONDITION: SPEC. M204 REV. 10, PARA. E 3.1 STATES THAT CARE SHALL BE TAKEN IN HANDLING AND INSTALLATION OF PIPING TO PREVENT SURFACE DAMAGE. CONTRARY TO THE ABOVE, THE FLANGE STATED ABOVE, HAS INDENTATIONS RUNNING ACROSS ~~ABRS~~ THE RAISED FACE, which range from light to approx. 1/32" deep and approx. 1¼" long. THE FLANGE AT THIS (SEE PG. 2)

17. REPORTED BY: C. Hoat — DATE: 8-25-79 (8-25-79 4-25-79)

18. VALIDATED BY: T.C. Brelay — DATE: 8-27-79

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

POOR ORIGINAL

1063 175

Block 16 Cont.

TIME HAS BEEN CUT OFF spool No.# OHBC-86-5619-5-2 FOR alignment OF THE bolt holes, AND IS located NEXT TO HEAT EXCHANGER NO. 1E73A.

Hold FOR Eng. disposition 1 Hold TAG Applied. To FLANGE. Q-List # 4.192.

POOR ORIGINAL

0

Dat

S/O CODE: INDETERMINATE

NONCONFORMANCE REPORT

1. PROJECT NAME: MIDLAND	JOB NO.: 7220				19. NO.: 2478	20. PAGE 1 OF 1
2. UNIT(S): 1 & 2	3. DRAWING/PART NO.: N/A	REV	4. ITEM DESCRIPTION: 6"-600# SMALL TONGUE & GROOVE W.N.F.S. FLANGES		5. ITEM LOCATION: WASE #1	
6. P.O. OR SPEC NO.: F 35137	7. SERIAL NO.: —	8. REPLACEMENT PART P/N ____ REV ____ SER NO. N/A	9. SOURCE: SUPPLIER	10. CONTRACTOR/SUPPLIER: CHICAGO TUBE & IRON		
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. R-1.00-10777 NO. M-315 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: PQCI-7220-R1.00 Rev 8 Para 3.2 states: Inspect the material for damage caused by, but not limited to (a) Rough handling or shipping. Contrary to the above all 4 pieces of the 6"-600# Tongue & Groove W.N.F.S Flanges have dents or gouges on the tongue and butt weld preparation areas of the flanges. 7 Hold tags applied to non-conforming items. ID Number is indeterminate. HOLD FOR ENGINEERING Disposition.

17. REPORTED BY: [illegible] DATE: 8/24/79

18. VALIDATED BY: [illegible] Barclay DATE: 8-27-79

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

POOR ORIGINAL

1063 177

X

Alab

SU # 1 - BCA

NONCONFORMANCE REPORT

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO. 2479	20. PAGE 1 OF 2
2. UNIT(S): 1	3. DRAWING/PART NO.: FSK-JBI-0025	REV: 1	4. ITEM DESCRIPTION: INST SUPPORT IPT-1002A ONE - 1/2" HILTI DROP IN ANCHOR	5. ITEM LOCATION: AUX-BLDG. ELE 584' 4' N of G & 4' W of 6.2.	
6. P.O. OR SPEC NO.: N/A	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE: CONSTRUCTION	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER SPEC C-305 REV 9 IR NO. C-1-50-IPT-NO. 1002.A-1	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Rec'g (X) Const ( ) Test	15. Equip Furnished By ( ) Client ( ) Eng (X) FLD	

16. NONCONFORMING CONDITION:

SPEC C-305 REV 9. IN PARAGRAPH 4.11 STATES THAT WHEN AN EXPANSION ANCHOR HOLE IS ABANDONED, THE MINIMUM CLEARANCE TO THE NEXT ANCHOR HOLE SHALL BE TWO DIAMETERS. THE LOADING OF THE EXPANSION ANCHOR SHALL BE AFTER THE ABANDONED HOLE HAS BEEN SATISFACTORILY REPAIRED. CONTRARY TO THIS THE EDGE TO EDGE DISTANCE FOR THE HOLES SHOWN

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: A. Akbar — DATE: 8-25-79

18. VALIDATED BY: [signature] — DATE: 8-27-79

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

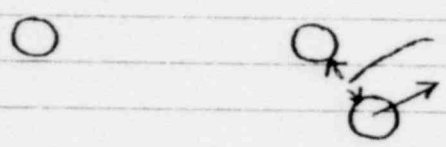
QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

1063 178

POOR ORIGINAL

IN DIAGRAM BELOW OF IFT-1002A (FSK-JBI-0025) IS APPROXIMATELY 3/4" MORE OVER THE INSTRUMENT SUPPORT IFT-1002A WAS PREVIOUSLY INSTALLED, THERE BY CONSTITUING LOADING OF THE ANCHORS.



HOLD FOR ENGINEERING DISPOSITION

ONE Q.C HOLD TAG APPLIED TO INSTRUMENT SUPPORT IFT-1002A

'Q' LIST NO. 5.033

POOR ORIGINAL

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Alab

BECHTEL

NONCONFORMANCE REPORT S/U Nontestable Item

1. PROJECT NAME: Midland	JOB NO.: 07220			19. NO. 2480	20. PAGE 1 OF 1
2. UNIT(S): 2	3. DRAWING/PART NO.: E-750SH1/8 / E-750SA2	REV: 9	4. ITEM DESCRIPTION: Tray Support Installation		5. ITEM LOCATION: P/B #2, 210', El. 609'-7"
6. P.O. OR SPEC NO.: N/A	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N: N/A REV: N/A SER NO.: N/A	9. SOURCE: Construction	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA: X DWG ( ) SPEC ( ) OTHER — IR NO. E2.1-196, NO. E-750 SH2	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	

W/E

16. NONCONFORMING CONDITION: 6"x6" tube steel for 2DVA, shown on E-750 sh 2 sec "E" and "F", has brace for non-Q tray support welded to the 6" tube steel. There is no approval for this attachment. As there is no inspection criteria, this installation is indeterminate.

Hold for Engineering Disposition / One Hold Tag Applied / QList 3.005

17. REPORTED BY: Khaleel Omar DATE: 8/27/79 — VALIDATED BY: [illegible] Barclay DATE: 8-27-79

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

1063 180

Alab

NONCONFORMANCE REPORT

S/U O-EAA, 2-SNC, 2-ABA

1. Project Name: MIDLAN	Job No.: 7220				19. No. 2481	20. Page 1 of 2
2. Unit(s): CONT #2 & SER WTR	3. Drawing/Part No.: FSK J10-0040, FSK JCZ-0006, FSK JCZ-0003	Rev: 1	4. Item Description: ½" - HILTI - DROP-IN ANCHORS		5. Item Location: CONT # 2 & SERVICE WATER	
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. C-305 REV. 9

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

13. SKETCH ATTACHED: ☒ YES ☐ NO

14. Discovered During: ☐ REC'G ☒ CONST ☐ TEST

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

16. Nonconforming Condition:

SPEC. C-305, REV. 9 6.3 STATES IN PART: "AN INSTALLED ANCHOR SHALL BE CONSIDERED ACCEPTABLE IF IT MEETS THE APPLICABLE TESTING CRITERIA OF... TABLE 3.2 OF APPENDIX "C". TABLE 3.2 OF APPEND. C STATES THE TENSION TEST ON ½" HILTI - DROP-IN ANCHORS TO BE 2.5 KIPS.

CONTRARY TO THE ABOVE: 1-½" DROP-IN ON 2PT-1949 (FSK-JCZ-0003) FAILED AT APPROX. ~~1.99~~ 2.3 KIPS, 2-½" DROP-INS ON 2PT-3200A2 (FSK-JCZ-0006) FAILED AT APPROX. 2.1 & 2.2 KIPS, 1-½" DROP-IN ON OPT-1826 (G-1) (FSK-J10-0040) FAILED AT APPROX. 1.99 KIPS (SEE CONT. SH. FOR CONT. OF BLOCK #16

Rev 8-25-79

17. Reported By: M. [illegible] Date: 8-25-79

18. Validated By: [illegible] 8-25-79 Date: [illegible] 8-27-79

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

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

23. Project Engineering Disposition

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

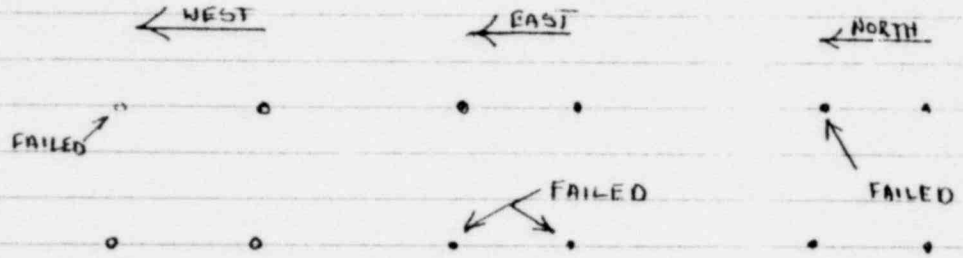
M

POOR ORIGINAL

CONTINUATION OF BLOCK # 16

Anchor Failure mode was slippage

Q LIST # 5.083 ONE HOLD TAG APPLIED TO EACH INSTRUMENT SUPPORT



2PT - 1949 2PT - 3200 AZ OPT 18 6 (G 1)

POOR ORIGINAL

X

Clab

NONCONFORMANCE REPORT START UP SYSTEM - B&W EQUIP.

1. PROJECT NAME	JOB NO.			19. NO.	20. PAGE
MIDLAND	07220			2482	1 OF 2

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
1 & 2	NA		SEE BLOCK 16	POSEYVILLE

6. P.O. ~~OR SPEC NO.~~	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
M-1.1	SEE BLK 16	P/N NA REV ____ SER NO. ____	SUPPLIER	BABCOCK & WILCOX

11. INSPECTION CRITERIA	IR NO. / ~~NO~~	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG ( ) SPEC (X) OTHER	R-200-10515 / ~~R-220-10515~~	( ) YES (X) NO	( ) YES (X) NO	(X) Rec'g ( ) Const ( ) Test	(X) Client ( ) Eng ( ) FLD

16. NONCONFORMING CONDITION: PQCIs R-2.00 & R-2.20 REQUIRE IN PART that DOCUMENTATION BE AVAILABLE AND LEGIBLE. CONTRARY TO THIS, NO DOCUMENTATION WAS RECEIVED FOR THE FOLLOWING ITEMS: One (1) each STUD STORAGE RACK, B&W Spec. CS-3-70, B&W Dwg. 1332163, CONTRACT 620-0013; Ten (10) EACH PART NO. 10-CHAIN; One (1) EACH STUD STORAGE RACK, B & W SPEC.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
R. Valentine	8-24-79	[signature]	8-27-79

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
			R

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

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NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 2 19NCR NO 2482

BLOCK 16 CONTINUED

CS-3-70, B&W DWG. 1332166E3, CONTRACT 620-0012; TEN (10) EACH PART. NO. 18-CHAIN; ONE (1) EACH STUD NUT HANDLING FIXTURE, DRAWING NO. 10164502, CONTRACT NO. 620-0012; AND ONE (1) EACH STUD NUT HANDLING FIXTURE, DRAWING NO. 10164502, CONTRACT NO. 620-0013. HOLD FOR ENGINEERING / B&W DISPOSITIONING. "Q" LIST NO. IS INDETERMINATE. TWO (2) HOLD TAGS APPLIED TO THE CRATES.

X

Alab

NONCONFORMANCE REPORT

S/U : GSA

1. PROJECT NAME: MIDLAND	JOB NO.: 07220				19. NO. 2483	20. PAGE 1 OF 2
2. UNIT(S): 2	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: INSTRUMENT AND SPECIAL PURPOSE CABLE. CABLE CODES IOT, IOS		5. ITEM LOCATION: AUX BLDG. EL 655'	
6. P.O. OR SPEC NO.: E-60	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: Rockbestos Cable Co.		
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. NO. B-20, B-21	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: The quality of one 2/c #16 and four 3/c #16 cables pulled for scheme nos. 2BB2424J, 2BB2424K, 2BB2424L, 2BB2424M, 2BB2424N is indeterminate due to overtensioning of cables when pulled into conduit 2BGB016. One of the five cables pulled into 2BGB016 was overtensioned to the point that the individual conductors snapped inside the outer cable jacket.

E

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
R. L. Gibbons	8-27-79	[illegible] Barkley	8-28-79

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

PROJEC 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

1063 185

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 2 19NCR NO 2483

Block #16 cont.

All five cables in question were pulled by hand without the use of a mechanical tugger or dynamometer. The actual tension applied, therefore, is unknown.

Hold for Engineering Disposition Q List # 3.004

2 Hold Tags Applied

1063 186

X

Alat

NONCONFORMANCE REPORT

5/4 NON testable unit

1. PROJECT NAME: Midland	JOB NO. 7220				19. NO. 2484	20. PAGE 1 OF 2
2. UNIT(S): 2	3. DRAWING/PART NO.: E643 sh 2	REV: 5	4. ITEM DESCRIPTION: Wireway Supports for Conduit		5. ITEM LOCATION: Aux Bldg Elev 649'-6"	
6. P.O. OR SPEC NO.: N/A	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE: CONSTRUCTION	10. CONTRACTOR/SUPPLIER: N/A		
11. INSPECTION CRITERIA: (X) DWG ( ) SPEC ( ) OTHER IR NO. PQCI E1.6 NO. E32, 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 ( )Eng (X)FLD	

E

16. NONCONFORMING CONDITION: E39-Rev 7 sheets 19A, 21, and 32 give specifications for TYPE 6 Wireway Supports. Contrary to the above, two TYPE 6 supports mounted between Tray Columns 64 and 66 in the Unit 2 Upper Cable Spreading Room have been installed with the following nonconforming conditions:
1. Support at Elev. 676'-4½" is 6'-1" long center to center. Table 2 on sh 21 requires a (CONTINUED)

17. REPORTED BY: [illegible] DATE: 8-27-79

18. VALIDATED BY: [illegible] DATE: 8-28-79

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

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

23. PROJECT ENGINEERING DISPOSITION

1065 107

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

continued from Page 1 Block 16

minimum Tube Steel size of 4"x4"x¼". (Interpolation between 6' and 7' spans not allowed) The tube steel installed is 3"x3"x¼". Tube steel has been mounted to the tray columns using detail 18, sheet 174. This detail calls out clip angle sizes required for given TS sizes. The installed clip angles are 1¾"x2¾"x3/16"x4" long, and do not conform to the given detail. Contributory load on support is approx. 181 lbs.

2. Support at Elev 679'-7¼" is 6'-1" long end to end. Table 2 on sh 21 requires a minimum tube steel size of 4"x4"x¼". (Interpolation between 6' and 7' spans not allowed) The support member installed is a P1001A3 welded between the tray columns. Contributory load on support is approx 450 lbs.

2 Hold Tags applied
HOLD for Engineering Disposition
Q list 3.006

POOR ORIGINAL

X

Alab

NONCONFORMANCE REPORT START-UP SYSTEM - B&W EQUIP.

1. PROJECT NAME: MIDLAND			JOB NO.: 0220	19. NO. 2485	20. PAGE 1 OF 4
2. UNIT(S): 1	3. DRAWING/PART NO.: NA	REV	4. ITEM DESCRIPTION: SEE BLOCK 16	5. ITEM LOCATION: CLASS A STORAGE	
6. P.O. ~~OR SPEC NO.~~: M-1.4	7. SERIAL NO.: SEE BLK 16	8. REPLACEMENT PART P/N NA REV SER NO.	9. SOURCE: SUPPLIER	10. CONTRACTOR/SUPPLIER: BABCOCK & WILCOX	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER IR NO. ~~NO~~ R-2.00-10471 R-2.20-10471		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: PQCIs R-2.00 & R-2.20 REQUIRE IN PART that DOCUMENTATION BE AVAILABLE AND LEGIBLE. CONTRARY TO THIS, NO DOCUMENTATION WAS RECEIVED FOR THE EQUIPMENT IDENTIFIED ON PAGES 2, 3, & 4. HOLD FOR ENGINEERING / B&W DISPOSITION. "Q" LIST NO. IS INDETERMINATE. SIXTEEN (16) HOLD TAGS APPLIED TO CRATES.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
R. Valentine	8-25-79	W. Barclay	8-28-79

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

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DIAMOND POWER SPECIALTY COMPANY

PACKING SLIP

Customer BECHTEL POWER CORPORATION Shipped from Lancaster, Ohio on 8-15-79

Destination 3500 EAST MILLER ROAD MIDLAND, MICHIGAN 48646 Our Order No. 501780N

Via R L JERRIES Customer's Order No.

CONSUMERS POWER CO
B&W PO 023037LV
B&W CONT 620-0013

BOX # 39

(1)	704940-1057	S/N 850 CRDM S/N 850 CRDM	SUBASSEMBLY
(1)	704940-1057	S/N 851 CRDM S/N 851 "	"
(1)	704940-1057	S/N 852 CRDM S/N 852 "	"
(1)	704940-1057	S/N 853 CRDM S/N 853 "	"

WITH MOUNTING PARTS WEIGHT 2800#

BOX # 41

(1)	704940-1057	S/N 854 CRDM S/N 854 CRDM	SUBASSEMBLY
(1)	704940-1057	S/N 855 CRDM S/N 855 "	"
(1)	704940-1057	S/N 856 CRDM S/N 856 "	"
(1)	704940-1057	S/N 857 CRDM S/N 857 "	"

WITH MOUNTING PARTS WEIGHT 2800#

BOX # 43

(1)	704940-1057	S/N 858 CRDM S/N 858 CRDM	SUBASSEMBLY
(1)	704940-1057	S/N 859 CRDM S/N 859 "	"
(1)	704940-1057	S/N 860 CRDM S/N 860"	"
(1)	704940-1057	S/N 861 CRDM S/N 861 "	"

WITH MOUNTING PARTS WEIGHT 2800#

BOX # 45

(1)	704940-1057	S/N 950 CRDM S/N 950 CRDM	SUBASSEMBLY
(1)	704940-1057	S/N 951 CRDM S/N 951 "	"
(1)	704940-1057	S/N 952 CRDM S/N 952 "	"
(1)	704940-1057	S/N 953 CRDM S/N 953 "	"

WITH MOUNTING PARTS WEIGHT 2800#

BOX # 47

(1)	704940-1057	S/N 954 CRDM S/N 954 CRDM	SUBASSEMBLY
(1)	704940-1057	S/N 955 CRDM S/N 955 "	"
(1)	704940-1057	S/N 956 CRDM S/N 956 "	"
(1)	704940-1057	S/N 957 CRDM S/N 957 "	"

WITH MOUNTING PARTS WEIGHT 2800#

BOX # 49

(1)	704940-1057	S/N 958 CRDM S/N 958 CRDM	SUBASSEMBLY
(1)	704940-1057	S/N 959 CRDM S/N 959 "	"
(1)	704940-1057	S/N 960CRDM S/N 960 "	"
(1)	704940-1057	S/N 961 CRDM S/N 961 "	"

WITH MOUNTING PARTS WEIGHT 2800#

BOX # 40

(1)	709287-3053	S/N 405 CRDM S/N 850	STATOR WATER JACET ASSY
(1)	709287-3053	S/N 400 CRDM S/N 851 "	" " "
(1)	709287-3053	S/N 422 CRDM S/N 852 "	" " "
(1)	709287-3053	S/N 403 CRDM S/N 853 "	" " "
(1)	709287-3053	S/N 420 CRDM S/N 854 "	" " "
(1)	709287-3053	S/N 408 CRDM S/N 855 "	" " "

WITH MOUNTING PARTS WEIGHT 2000#

Form 569-D

POOR ORIGINAL

NOTICE - The responsibility of seller shall cease and title pass to buyer upon delivery [illegible]

1063 con 190

NCR 2485

DIAMOND POWER SPECIALTY COMPANY

PACKING SLIP

Customer: _____ Shipped from Lancaster, Ohio on _____

Destination _____ Our Order No. _____

Via _____ PAGE 2 _____ Customer's Order No. _____

BOX # 42

(1)	709287-3053	S/N 409 CRDM S/N 856	STATOR WATER JACKET ASSY
(1)	709287-3053	S/N 417 CRDM S/N 857	" " " "
(1)	709287-3053	S/N 411 CRDM S/N 858	" " " "
(1)	709287-3053	S/N 412 CRDM S/N 859	" " " "
(1)	709287-3053	S/N 402 CRDM S/N 860	" " " "
(1)	709287-3053	S/N 418 CRDM S/N 861	" " " "

WITH MOUNTING PARTS

WEIGHT 2000#

BOX # 44

(1)	709287-3053	S/N 415 CRDM S/N 950	STATOR WATER JACKET ASSY
(1)	709287-3053	S/N 426 CRDM S/N 951	" " " "
(1)	709287-3053	S/N 421 CRDM S/N 952	" " " "
(1)	709287-3053	S/N 424 CRDM S/N 953	" " " "
(1)	709287-3053	S/N 425 CRDM S/N 954	" " " "
(1)	709287-3053	S/N 423 CRDM S/N 955	" " " "

WITH MOUNTING PARTS

WEIGHT 2000#

BOX # 46

(1)	709287-3053	S/N 401 CRDM S/N 956	STATOR WATER JACKET ASSY
(1)	709287-3053	S/N 407 CRDM S/N 957	" " " "
(1)	709287-3053	S/N 410 CRDM S/N 958	" " " "
(1)	709287-3053	S/N 414 CRDM S/N 959	" " " "
(1)	709287-3053	S/N 406 CRDM S/N 960	" " " "
(1)	709287-3053	S/N 404 CRDM S/N 961	" " " "

WITH MOUNTING PARTS

WEIGHT 2000#

BOX # 48

(1)	706719-1051	S/N 1306 CRDM S/N 850	LEADSCREW ASSEMBL.
(1)	706719-1051	S/N 1305 CRDM S/N 851	" "
(1)	706719-1051	S/N 1303 CRDM S/N 852	" "
(1)	706719-1051	S/N 1307 CRDM S/N 853	" "
(1)	706719-1051	S/N 1310 CRDM S/N 854	" "
(1)	706719-1051	S/N 1311 CRDM S/N 855	" "
(1)	706719-1051	S/N 1304 CRDM S/N 856	" "
(1)	706719-1051	S/N 1302 CRDM S/N 857	" "

WEIGHT 1600#

BOX # 50

(1)	706719-1051	S/N 1309 CRDM S/N 858	LEADSCREW ASSEMBLY
(1)	706719-1051	S/N 1308 CRDM S/N 859	" "
(1)	706719-1051	S/N 1316 CRDM S/N 860	" "
(1)	706719-1051	S/N 1319 CRDM S/N 861	" "
(1)	706719-1051	S/N 1321 CRDM S/N 950	" "
(1)	706719-1051	S/N 1324 CRDM S/N 951	" "
(1)	706719-1051	S/N 1322 CRDM S/N 952	" "
(1)	706719-1051	S/N 1323 CRDM S/N 953	" "

WEIGHT 1600#

NCP 2485 Pg 3 of 4

CONT'D

Form 389-D

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NOTICE - The responsibility of seller shall cease and title pass to buyer upon delivery

DIAMOND POWER SPECIALTY COMPANY

PACKING SLIP

Customer _____ Shipped from Lancaster, Ohio on _____

Destination _____ Our Order No. _____

Via RACE 3 Customer's Order No. _____

BOX # 52

(1)	706719-1051	S/N 1314 CRDM S/N 954	LEADSCREW ASSEMBLY
(1)	706719-1051	S/N 1315 CRDM S/N 955	" "
(1)	706719-1051	S/N 1317 CRDM S/N 956	" "
(1)	706719-1051	S/N 1313 CRDM S/N 957	" "
(1)	706719-1051	S/N 1318 CRDM S/N 958	" "
(1)	706719-1051	S/N 1320 CRDM S/N 959	" "
(1)	706719-1051	S/N 1331 CRDM S/N 960	" "
(1)	706719-1051	S/N 1265 CRDM S/N 961	" "

WEIGHT 1600#

BOX# 51

(1)	704441-1051	S/N 399 CRDM S/N 850	POSITION INDICATOR ASSY
(1)	704441-1051	S/N 400 CRDM S/N 851	" " "
(1)	704441-1051	S/N 402 CRDM S/N 852	" " "
(1)	704441-1051	S/N 395 CRDM S/N 853	" " "
(1)	704441-1051	S/N 393 CRDM S/N 854	" " "
(1)	704441-1051	S/N 392 CRDM S/N 855	" " "
(1)	704441-1051	S/N 408 CRDM S/N 856	" " "
(1)	704441-1051	S/N 401 CRDM S/N 857	" " "
(1)	704441-1051	S/N 411 CRDM S/N 858	" " "
(1)	704441-1051	S/N 390 CRDM S/N 859	" " "

WITH MOUNTING PARTS

WEIGHT 8250#

BOX# 53

(1)	704441-1051	S/N 406 CRDM S/N 860	POSITION INDICATOR ASSY
(1)	704441-1051	S/N 388 CRDM S/N 861	" " "
(1)	704441-1051	S/N 389 CRDM S/N 950	" " "
(1)	704441-1051	S/N 409 CRDM S/N 951	" " "
(1)	704441-1051	S/N 403 CRDM S/N 952	" " "
(1)	704441-1051	S/N 407 CRDM S/N 953	" " "
(1)	704441-2051	S/N 391 CRDM S/N 954	" " "
(1)	704441-1051	S/N 410 CRDM S/N 955	" " "
(1)	704441-1051	S/N 405 CRDM S/N 956	" " "
(1)	704441-1051	S/N 394 CRDM S/N 957	" " "

WITH MOUNTING PARTS

WEIGHT 8250#

BOX # 54

(1)	704441-1051	S/N 404 CRDM S/N 958	POSITION INDICATOR ASSY
(1)	704441-1051	S/N 396 CRDM S/N 959	" " "
(1)	704441-1051	S/N 397 CRDM S/N 960	" " "
(1)	704441-1051	S/N 398 CRDM S/N 961	" " "

WITH MOUNTING PARTS

WEIGHT 7750#

VENDOR Rec'd
P.O. NO. M1.4 MRI NO. _____
MRR NO. 0471 DATE REC'D. 8/18/79
VIA RL Jefferies TRGT. NO. 85400
CHECKED BY [signature]
FIELD INSPECTION BY _____

TOTAL 32025#

NCP 2485
Pg 4 of 4

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POOR ORIGINAL

Form 569-D

NOTICE - The responsibility of seller shall cease and title pass to buyer upon delivery by seller to transportation [illegible]
No goods may be returned without [illegible]

X

clab

NONCONFORMANCE REPORT

Z-EAD

1. PROJECT NAME: MIDLAND	JOB NO.: 07220				19. NO. 2486	20. PAGE 1 OF 2
2. UNIT(S): 1 & 2	3. DRAWING/PART NO.: M 633 SH. 3	REV: 6/FZ	4. ITEM DESCRIPTION: PIPE SPOOL OHBC-47-S-633-3-6		5. ITEM LOCATION: AUX. BLDG. ELEV. 595'	
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. PI-10-633-3-1 NO. M-204	12. ASME AUTHORIZED INSPECTION REQ'D (X) YES ( ) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Rec'g (X) Const ( ) Test	15. Equip. Furnished By ( ) Client (X) Eng ( ) FLD		

16. NONCONFORMING CONDITION: SPECIFICATION M-204 PARA. 5.2.1 STATES IN PART "CARE SHALL BE TAKEN IN HANDLING & INSTALLATION OF PIPING TO PREVENT SURFACE DAMAGE." CONTRARY TO THIS PIPE SPOOL OHBC-47-S-633-3-6 HAS TWO ARC STRIKES, ONE LOCATED AT APPROX. 7:00 FACING WEST & THE OTHER AT 6:00 FACING WEST. BOTH STRIKES ARE APPROX. 3" WEST OF FW 26. SEE PAGE 2 FOR HOLD TAG APPLIED TO SPOOL. Q No. 4.383

17. REPORTED BY: Keith J. Roberge — DATE: 8/28/79

18. VALIDATED BY: [illegible] 8-24-79 & C.E. Barclay — DATE: 8-29-79

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

P

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BLOCK 16 CONT.

ONE ARC STRIKE IS APPROX 1/4" DIA & 1/16" DEEP
THE OTHER IS APPROX. 2" LONG x 1/8" WIDE x 1/32 DEEP

NOMINAL WALL THICKNESS IS .322

D

Clab

BECHTEL

NONCONFORMANCE REPORT

S/U 2-ABA

1. Project Name: MIDLAND	Job No.: 7220			19. No. 2487	20. Page 1 of 1
2. Unit(s): 2	3. Drawing/Part No.: FSK-JC2-0006	Rev: 1	4. Item Description: FIELD WELDS 5,6,22,23, TUBING CONN. FOR F.W 4	5. Item Location: CONT # 2 659' N SIDE	
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. I-HR-2PT3200A1 & A2-1 NO. J-218 REV. 8	12. ASME AUTHORIZED INSPECTION REQ'D ☒YES ☐NO	13. SKETCH ATTACHED ☐YES ☒NO	14. Discovered During ☐REC'G ☒CONST ☐TEST	15. Equip Furnished By ☐CLIENT ☒ENG ☐FLD	

16. Nonconforming Condition:

J-218, REV 8 6.4 PARA. 1 STATES IN PART: "PRIOR TO INSTALLATION ALL TUBING SHALL BE VISUALLY CHECKED FOR CLEANLINESS". PARA. 2 STATES: 'ALL OPENINGS SHALL BE COVERED WITH PROTECTIVE CAPS WHENEVER WORK IS NOT ACTUALLY IN PROGRESS.' CONTRARY TO THE ABOVE: FIELD WELDS 5, 6, 22, 23 ON TUBING LINES '2PT-3200A1 (F.W's 22 & 23) & 2PT-3200A2 (F.W. 5 & 6) HAVE BEEN INSTALLED AND WELDED WITHOUT VISUAL VERIFICATION AND DOCUMENTATION. 3/4" TUBING AT F.W 4 (2PT-3200A2) HAS BEEN LEFT UNCAPPED. (T.J.O) 8/26/79 QLIST # 5,034 ONE HOLD TAG APPLIED TO EACH TUBING LINE.

17. Reported By: [signature] Date: 8-26-79

18. Validated By: [signature] Date: 8-29-79

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

1063 195

0

alas

NONCONFORMANCE REPORT

S/U CODE INDETERMINATE

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO.: 2488	20. PAGE 1 OF 1
2. UNIT(S): INDETER.	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: P1010, P2008, P-2010, P-2016 VARIOUS UNISTRUT SPRING-NUTS & CLAMPS		5. ITEM LOCATION: QC HOLD WARE #1
6. P.O. OR SPEC NO.: F-3154	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N ____ REV ____ SER NO. N/A	9. SOURCE: SUPPLIER	10. CONTRACTOR/SUPPLIER: UNISTRUT CORP.	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER	IR NO. 8100 10362 NO. F-3154 Rel. 2 Rel. 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: PURCHASE ORDER F-3154 REQUIRES CERTIFICATE OF COMPLIANCE FOR ABOVE REFERENCED ITEMS, CONTRARY TO THIS NO CERTIFICATE OF COMPLIANCE WAS RECEIVED. HOLD FOR ENGINEERING DISPOSITION. "Q" NUMBER IS INDETERMINATE. 3 HOLD TAGS APPLIED TO NONCONFORMING ITEMS.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
[signature]	8/29/79	[signature] T.K. Barclay	8-30-79

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

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

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJ CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

R

26. QC ACCEPTANCE

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

1063 196

X

Alab

W

NONCONFORMANCE REPORT S/U Non-testable Unit

1. PROJECT NAME 07220	JOB NO. Midland			19. NO. 2490	20. PAGE 1 OF 3
2. UNIT(S) 2	3. DRAWING/PART NO. E-651	REV 14	4. ITEM DESCRIPTION Welded Seismic Supports		5. ITEM LOCATION RB2, col #16, El. 634'
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. C304-757W 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:

A type 14 conduit support, for 2AG066 and 2AG071 (Support # EC2-30-84, see sketch), has the following nonconforming conditions:

A.) FIW-1.110, requirement 15, states: "Each welder is responsible for stamping his work, whether it be a partial weld or a completed weld. Stamping will be done with the welder's assigned symbol." Contrary to the above, the type 14 support, EC2-30-84, has no welder's stamp.

(continued on page 2)

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Raleigh Comer	8/28/79	W.K. Barclay	8-30-79

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

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

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

Block #16 continued

B.) Drawing E-42 SH 335 indicates a 2" weld on 3" centers for a type 14 support welded across the flange of a beamor column. DCN 81 to Dwg. E-42 gives a tolerance on these welds, specifically allowing a minimum of ½" skip between welds. Contrary to the above, the type 14 support, EC2-30-84, has 3/8" skip between the upper south-most welds.

HOLD FOR ENGINEERING DISPOSITION
One (1) Hold Tag Applied
Q-List. 3.006

1063 198

BECHTEL

CALCULATION SHEET E

DATE

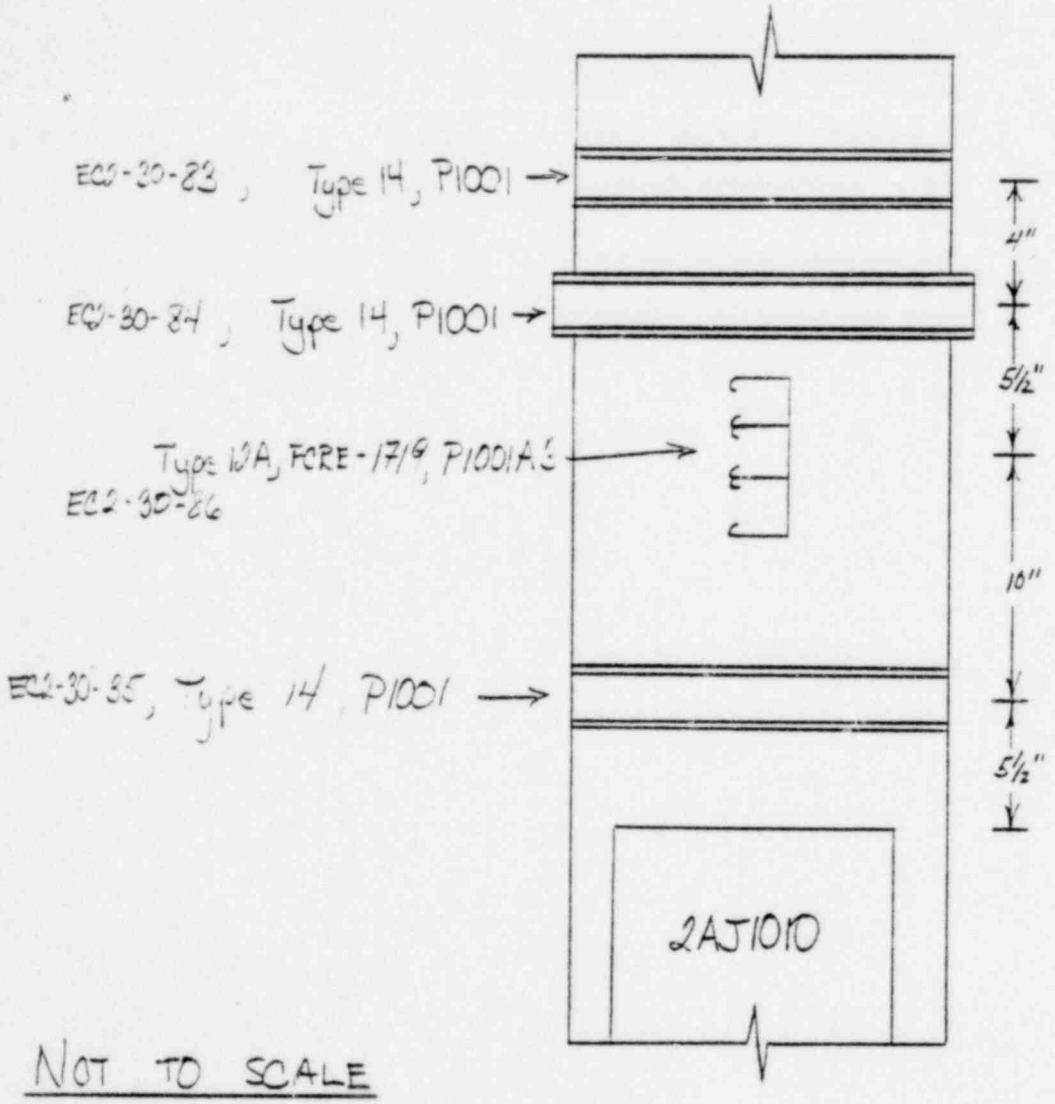
DESIGN BY ____ DATE ____ CHECKED BY ____ SHEET NO. 3 of 3

PROJECT ____ JOB NO. ____

SUBJECT ____ CALCULATION NO. ____ FILE NO. ____

PAGE 3 OF 3

NCR-2490



NOT TO SCALE

Col. #16.

10063 199

POOR ORIGINAL

0

alas

BECHTEL

NONCONFORMANCE REPORT

S/U 2PBB

1. PROJECT NAME: Midland	JOB NO.: 07220			19. NO. 2491 234	20. PAGE 1 OF 1
2. UNIT(S): 1	3. DRAWING/PART NO.: E-37	REV: 28	4. ITEM DESCRIPTION: Scheme Cable # 2BA0601D	5. ITEM LOCATION: Installed (Turb 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. 2BA0601D 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 # B-1161 (Cable # 2BA0601D) Was Pulled w/out QC Verification and Documentation on 7-2-79.

E

No Hold Tags Applied No QA List No Hold For Eng. Disposition

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
James E Anderson	8-29-79	J.D. Barclay	8-30-79

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

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

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJ CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

1063 200

X

Alab

NONCONFORMANCE REPORT

S/U Nontestable Unit

1. PROJECT NAME	JOB NO.	19. NO. 2493	20. PAGE 1 OF 2
Midland	7220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
2	E710	8	Cable Tray Supports	Aux, 584'

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

11. INSPECTION CRITERIA	IR NO.	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
(X) DWG ( ) SPEC ( ) OTHER	C304-6924 NO E703	( ) YES (X) NO	( ) YES (X) NO	( ) Rec'g (X) Const ( ) Test	( ) Client ( ) Eng (X) FLD

16. NONCONFORMANCE DESCRIPTION

E/W

Ref. E703, sect 10, detail 4AA gives weld details for attaching channel to existing embeds. There is to be a plate between the channel and the embed; this plate is to be welded to the embed with (2) ¼" fillet welds. Contrary to the above, several of these plates have been installed that have less than the required ¼" fillet. The portions of these welds that extend beyond the added channel are

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
C A Cameron	8-30-79	D F Barclay	8-31-79

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

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

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

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

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER	DATE
AUTHORIZED INSPECTOR	DATE

POOR ORIGINAL

1063 201

Block 16 cont.

of adequate size. However, the rest of these welds, which are behind the added channel, are undersize. The added channels are located on 5'8-1', 4' North of H, between 6.6 and 16' East of 6.6, on each side of the hallway. (6) Type 9 tray supports span the width of the hall, between the added channel. Two tray runs are installed on these supports.

R-List # 3.005 6 Hold Tags Hold for Engineering Disposition

POOR ORIGINAL

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Alab

BECHTEL

NONCONFORMANCE REPORT

S/U 2 PKB

1. PROJECT NAME: MIDLAND	JOB NO.: 07220			19. NO. 2494	20. PAGE 1 OF 1
2. UNIT(S): II	3. DRAWING/PART NO.: See Scheme No. in Block 16	REV	4. ITEM DESCRIPTION: Cable 2BD2001AC	5. ITEM LOCATION: Aux Bldg Area 3 EL 614	
6. P.O. OR SPEC NO.: N/A	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE: Construction	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA [illegible] IR NO 2BD2001AC-a Notes Page Item 3		12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( )Rec'g (X)Const ( )Test	15. Equip Furnished By ( )Client (X)Eng ( )FLD

16. DESCRIPTION OF NONCONFORMING CONDITION

As per F.P.E. 4.000, Section 6.7 the minimum bend radius shall be six(6) times the cable diameter. The cable pulled for Scheme 2BD2001AC has been installed such that the minimum bend radius was exceeded during pull between conduit # 2BD033 and cabinet # 2D23. The quality of this cable is therefore indeterminate.

Q-list # 3003 Two(2) Hold Tags applied Hold for Engr. Disp.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Neal W. Cousenet	8/30/79	KJ G. Tokarczyk	8-31-79

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

POOR ORIGINAL

1063 203

X

Alab

BECHTEL

NONCONFORMANCE REPORT

S/U NON restable unit

1. PROJECT NAME: Midland	JOB NO.: 7220					19. NO. 2495	20. PAGE 1 OF 73
2. UNIT(S): 2	3. DRAWING/PART NO.: E-715 Rev 2	REV: 2	4. ITEM DESCRIPTION: Seismic Cable Tray Support			5. ITEM LOCATION: See Block 16 Pg. 2	
6. P.O. OR SPEC NO.: N/A	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV N/A		9. SOURCE: Construction	10. CONTRACTOR/SUPPLIER: N/A		
11. INSPECTION CRITERIA (X) DWG ( ) SPEC ( ) OTHER	IR NO. C 304-1085 W NO. E-715, E 714	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

Item (1) Drawing E-715 Rev. 2 calls out a Section A E-714 Tray support which refers to detail A, allowing the option of W1103 or P1001 unistrut. (See page 3) Attachment welds are to be 5/16" fillet with 5/8" returns. Contrary to the above all 12 detail A connections have been installed without end return welds. When using the P1001 option end returns cannot be made.

Cont.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
A. Stevens	8-30-79	[illegible]	8-30-79

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

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

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJ CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

1063 204

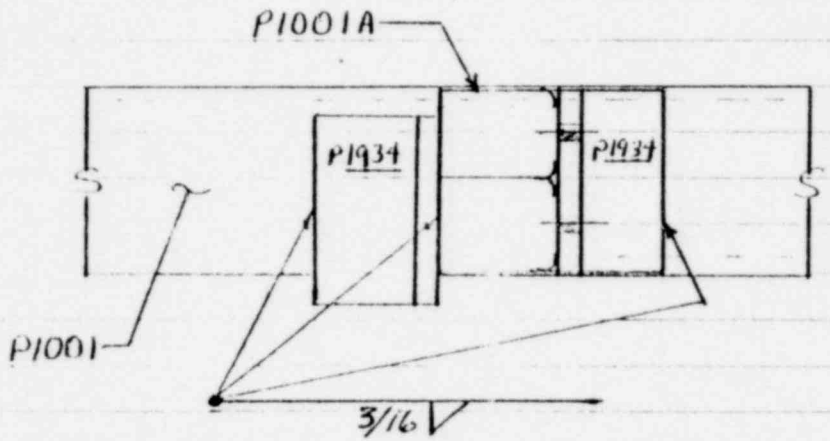
POOR ORIGINAL

Cont. from block 16 page 1

Item (2) Drawing E 714 Rev. 5 Section B calls for a transverse brace at each floor elevation. The brace at EL 623'-0" has not been installed. Other equiptment has been placed in the area leaving no room to attach an acceptable brace.

Location: Aux. Building EL 624'-0" to 599'-0" Col. 7.4 to 7.9 Lines A to B

"Q" List 3.005 — Hold for Engineering disposition - Two Hold Tags applied



AS BUILT NOT to Scale

POOR ORIGINAL

VERY POOR
ORIGINAL

NCR NO. 2495

X

alob

NONCONFORMANCE REPORT

S/U 1-EAD

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO. 2496	20. PAGE 1 OF 2
2. UNIT(S): 1	3. DRAWING/PART NO.: M-619-8	REV: 7/F1	4. ITEM DESCRIPTION: 1 HBC-304-S-619-8-1		5. ITEM LOCATION: ELEV 644-3"N/D-1'E/S.I
6. P.O. OR SPEC NO.: N/A	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N: N/A REV: N/A SER NO.: N/A	9. SOURCE: CONSTRUCTION	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA: ( ) DWG (X) SPEC ( ) OTHER	IR NO.: P-110-5 NO.: M-204 REV 10	12. ASME AUTHORIZED INSPECTION REQ'D: (X) YES ( ) NO	13. SKETCH ATTACHED: ( ) YES (X) NO	14. Discovered During: ( ) Rec'g (X) Const ( ) Test	15. Equip Furnished By: ( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION: SPECIFICATION M-204 REV 10 PARA 5.2.1 STATES IN PART "CARE SHALL BE TAKEN IN HANDLING AND INSTALLATION OF PIPING TO PREVENT SURFACE DAMAGE." CONTRARY TO THE ABOVE, SPOOL 1 HBC-304-S-619-8-1 HAD AN ARC STRIKE WHICH HAS BEEN GROUND OUT RESULTING IN A DEPRESSION .085 IN. DEEP X 1 1/2 IN. LONG X 1 1/2 IN. WIDE. NOMINAL WALL THICKNESS FOR THIS SPOOL IS .280. QA-LIST # 4-192 1 QC HOLD TAG APPLIED TO SPOOL.

17. REPORTED BY: [illegible] DATE: 8-30-79

18. VALIDATED BY: [illegible] DATE: 8-30-79

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

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

21. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJ CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

POOR ORIGINAL

1063 207

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 2 19NCR NO 2496

LOCATION OF DAMAGED AREA MORE SPECIFICALLY IS 12" WEST OF FW # 37 OF SAID SPOOL, DAMAGE IS AT 11:00 LOOKING WEST.

POOR ORIGINAL

X :

Alab

NONCONFORMANCE REPORT

S/O 2-EAD

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO. 2497	20. PAGE 1 OF 2
2. UNIT(S): 2	3. DRAWING/PART NO.: M-619-8	REV: 7/F1	4. ITEM DESCRIPTION: 2"HBC-304-S-619-8-1		5. ITEM LOCATION: ELV. 648-18" E/S.1-15' N/E
6. P.O. OR SPEC NO.: N/A	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N: N/A REV: N/A SER NO.: N/A	9. SOURCE: CONSTRUCTION	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER	IR NO. P-1,10-5 NO. M-204 REV 10	12. ASME AUTHORIZED INSPECTION REQ'D (X) YES ( ) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Rec'g (X) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION: SPECIFICATION M-204 REV 10 PARA 5.2.1 STATES IN PART, "CARE SHALL BE TAKEN IN HANDLING AND INSTALLATION OF PIPING TO PREVENT SURFACE DAMAGE." CONTRARY TO THE ABOVE, SPOOL 2"HBC-304-S-619-8-1 HAD AN ARC STRIKE WHICH HAS BEEN GROUND OUT RESULTING IN A DEPRESSION .047 IN. DEEP X 1½ LONG X 1½ WIDE. NOMINAL WALL THICKNESS FOR THIS SPOOL IS .280 IN. Q-LIST # 4.192 1 QC HOLD TAG APPLIED TO SPOOL.

17. REPORTED BY: B. Earp — DATE: 8-30-79

18. VALIDATED BY: C. Brierley — DATE: 8-30-79

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

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

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJ CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE

QC ENGINEER — DATE

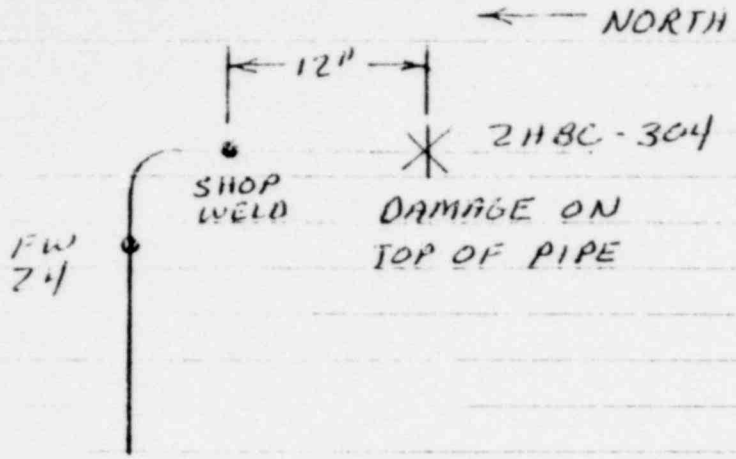
AUTHORIZED INSPECTOR — DATE

f

POOR ORIGINAL

1063 209

LOCATION OF DAMAGED AREA MORE SPECIFICALLY IS SHOWN ON SKETCH BELOW.



POOR ORIGINAL

Alab

S/U - NONTESTABLE UNIT

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO. 7220			19. NO. 2498	20. PAGE 1 OF 4
~~Initial~~ Rev 4 8/31/79	3. DRAWING/PART NO. NA P.H. 8/31/79 ~~(61-6-17) 10-2FCB-22-H14~~	REV NA	4. ITEM DESCRIPTION Wall Hanger	5. ITEM LOCATION Elev 584'6" 95'11 3/8" 94'10" N/E	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE Construction	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER	IR NO. ~~C-310- N/A~~ 8/31/79 NO. C-306 Rev 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 (X)Eng ( )FLD

16. NONCONFORMING CONDITION: Specification 7220-C-306 Rev. 4 Appendix D Section 2.2 states "... two bars may be cut back way, each face, provided the minimum radial distance to the next cut bar on the same face, in the same direction is at least ten feet." Cut rebar in hangers (61-6-17) 10-2FCB-22-H14 exceeds this specification. Looking east at the hangers, from vertical rebar (Continued on #4)

24. DISPOSITION CONCURRENCE			
rework	reject	repair	use as is

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

25. DISPOSITION RESULTS

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Robert J. Hamm	8/30/79	T.C. Barclay	8-31-79

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

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

23. PROJECT ENGINEERING DISPOSITION

26. QC ACCEPTANCE

QC ENGINEER	DATE
AUTHORIZED INSPECTOR	DATE

POOR ORIGINAL

1063 211

Docks #15 continued

have been cut within a 2½' wide area at the front of the dock; and four rebar have been cut towards the rear of the docks, (sketch #1). In addition to the cut rebar, a core was started on the opposite side of the wall, and to has met the the upper right hand side of hanger (611-6-17) 10-2-CB-22-H14, resulting in a complete penetration through the wall. Hold for Eng. Inspection & Lab No. 1.205 Hus hold tags applied

POOR ORIGINAL

0510 (11-74)

CALCULATION SHEET

DESIGN BY

PROJECT

SUBJECT

DATE

DATE CHECKED BY SHEET NO.

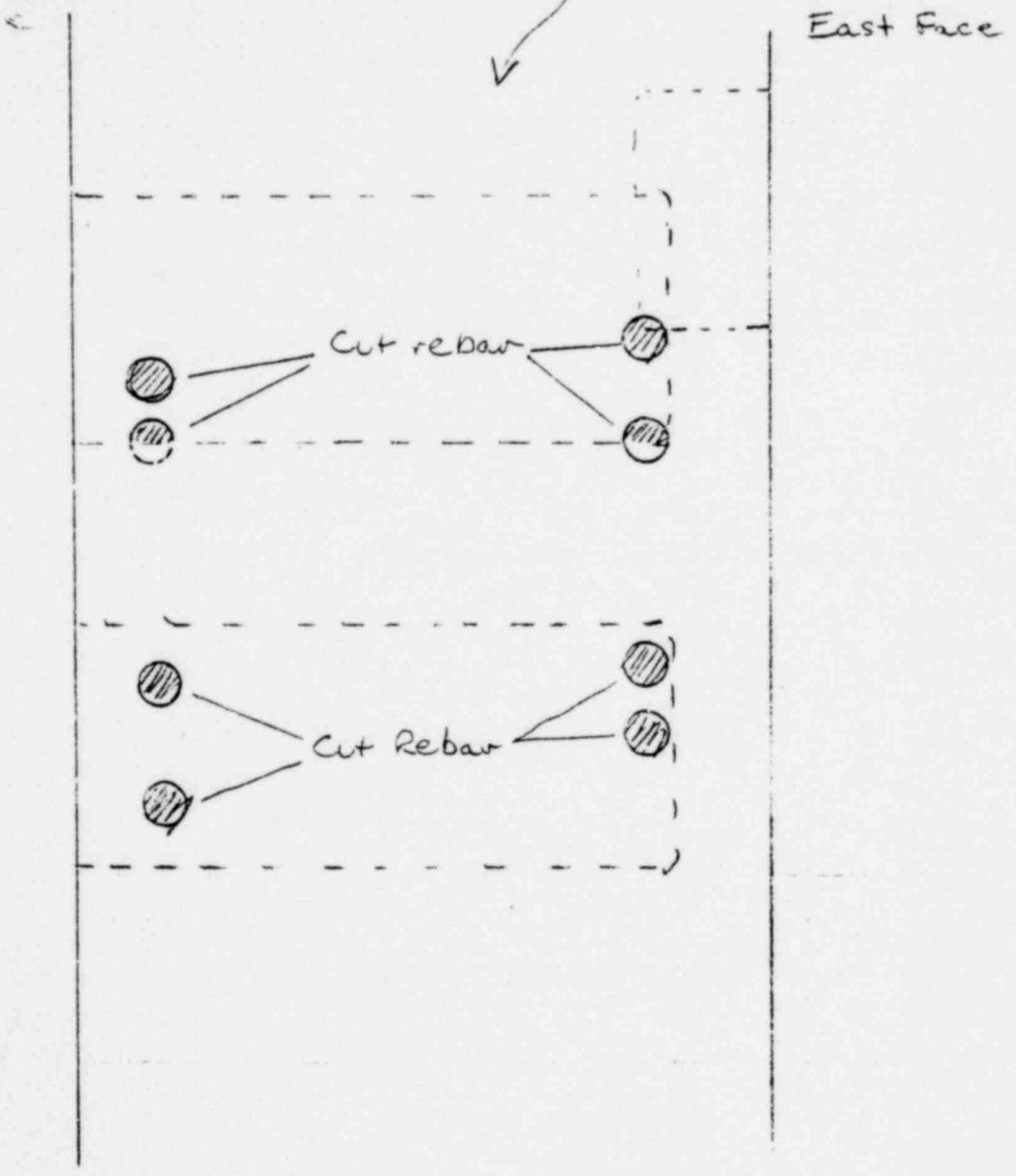
JOB NO.

CALCULATION NO. FILE NO.

#1 NCR #

page 3 of 4

Existing Conc. Wall Not drawn to Scale



Looking down at penetrations

NCR-2498
Pg. 3 of 4

POOR ORIGINAL

1063 213

BECHTEL

CALCULATION SHEET

DATE

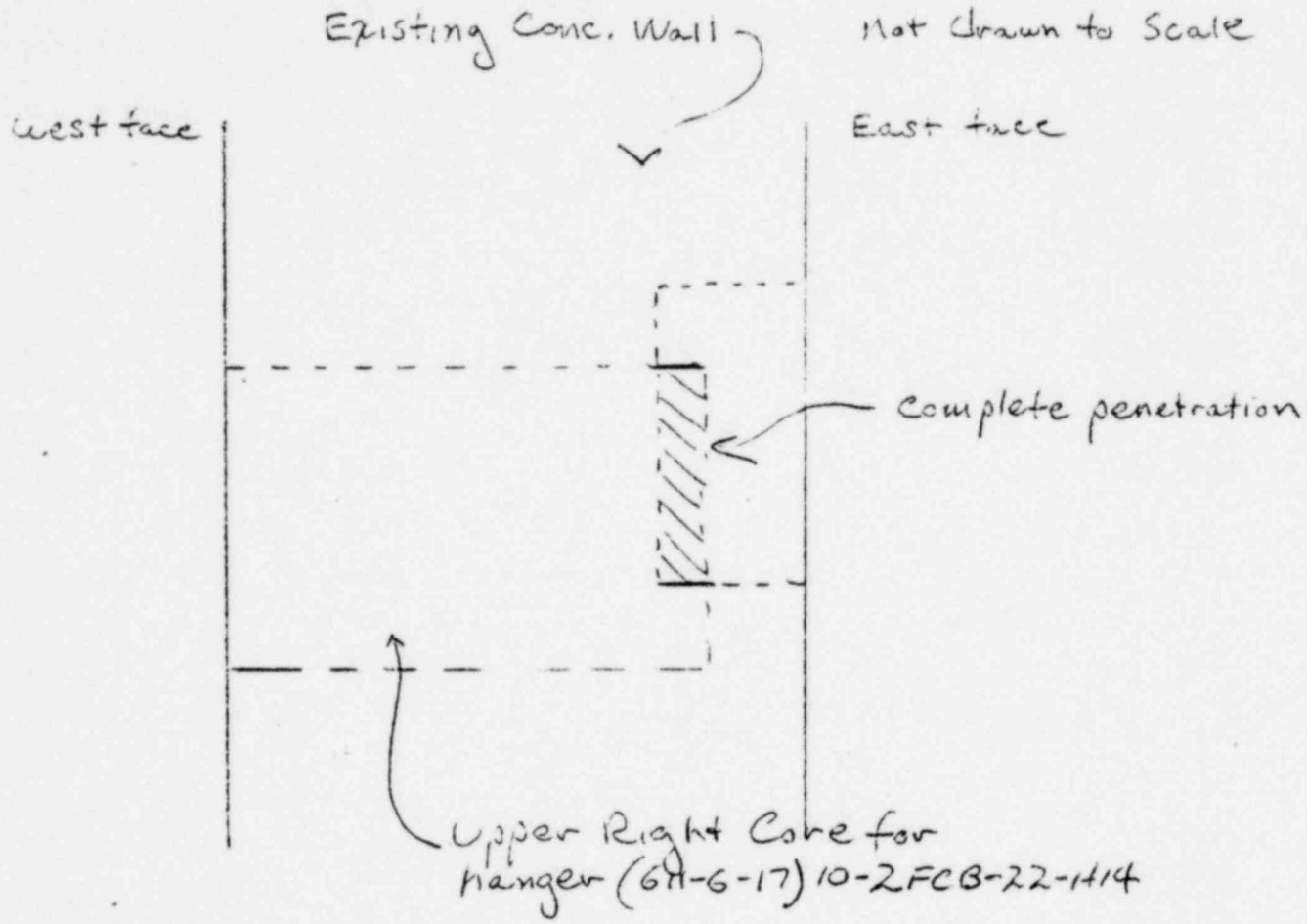
DESIGN BY _____ DATE _____ CHECKED BY _____ SHEET NO. _____

PROJECT _____ JOB NO. _____

SUBJECT _____ CALCULATION NO. _____ FILE NO. _____

Sketch #2 NCR #

Page 4 of 4



Looking down on penetrations

X

alab

BECHTEL

NONCONFORMANCE REPORT S/U Nontestable Unit

1. PROJECT NAME: Midland	JOB NO.: 07220			19. NO. 2499	20. PAGE 1 OF 2
2. UNIT(S): 2	3. DRAWING/PART NO.: E-42	REV: 41	4. ITEM DESCRIPTION: Welding of Seismic Conduit Supports		5. ITEM LOCATION: R/B #2 see block #16
6. P.O. OR SPEC NO.: N/A	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE: Construction	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. C-4-157W NO. C304	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: A.) Specification C-304 rev 6, paragraph 6.3.10 states: "No welding shall be done across the flange of the beam without prior approval of project engineering." Drawing E-42 SH 336, for type 16 supports, calls for an 1/8" fillet weld. Contrary to the above, a type 16 support for 2AG067 has 5/16" fillet welds. Support location is approx. 4' southeast of col. #14, El. 637' on W24x76 (Support # EC2-30-15).

(continued on page 2.)

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Raleigh Cross	8/31/79	J.K. McBarclay	8-31-79

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

1063 215

Block #16 continued

B) Due to welding, the open end of the unistrut, in A above, is spread too wide for proper installation of the conduit clamp. The correct unistrut width is 1 5/8", this unistrut is 1 7/8" at the open end. There is no acceptance criteria for the spreading of unistrut, thus this is indeterminate.

Hold for Engineering Disposition
One (1) Hold Tag Applied
Q list 3.006

0

Alab

SH - Non-Testable

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.			19. NO.	20. PAGE
Midland	07220			2500	1 OF 1

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
1	E-42 SH. 57A	0	1MO-0330A Motor Operated Valve	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	IR NO.	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
(X) DWG ( ) SPEC ( ) OTHER	1AB5514A-2 NO. Block 16	( ) YES (X) NO	( ) YES (X) NO	( ) Rec'g (X) Const ( ) Test	( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION:

E-42 SH. 57A Rev. 0 States The maximum allowable length for 2" flexible conduit is 3'6", Contrary to requirements the flexible conduit connecting 1MO-0330A to rigid conduit 1AJD014 is 4'7" long.

Q-List 3.006 1 Hold tag Applied Hold for Engineering Disposition

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
R.D Pandey	8/31/79	W.T Barclay	8-31-79

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

E

1063 217

X

Bechtel

alat

SU # OEAA

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
MIDLAND	7220	2501	1 OF 2

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
Common	M-162	2	Diesel GEN Service Wtr line Contaminated	Diesel GEN. Bldg

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. NO. M342	( ) YES (X) NO	( ) YES (X) NO	( ) Rec'g (X) Const ( ) Test	( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION: Specification M342 Rev 3 sec 6.0 For class "D" cleanliness level of piping requires that internal surfaces shall be free of particulate contaminants such as sand, packing material etc.. Contrary to this the following Diesel Gen. service water supply & Return lines are packed with sand, quantity indeterminate. Q list No 4-185 (cont on Page 2)

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
E Ubhaway	8-30-79	8-31-79 W Barclay	8-31-79

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

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

23. PROJECT ENGINEER 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

M

POOR ORIGINAL

BECHTEL

NONCONFORMANCE REPORT (CONT'D) PAGE 2 OF 2 14. NCR NO. 2501

Line No.	Location	Dwg	
1) 8" 1HBC-82	(18' E/C For 1G-12)	M-162-1	Rev 2
2) 8" 1HBC-311	(11' W/C For 1G-11)	M-162-1	Rev 2
3) 8" 2HBC-310	(17' E/C For 2G-12)	M-162-1	Rev 2
4) 8" 2HBC-311	(17' E/C For 2G-12)	M-162-1	Rev 2

CONDITION IDENTIFIED BY CPCo

4 hold tags applied (one on each spool)

POOR ORIGINAL

10098-2

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

QC-G3-3

1063 219

X

Clear

NONCONFORMANCE REPORT START UP CODE = INDETERMINATE

1. PROJECT NAME: MIDLAND	JOB NO.: 07220			19. NO. 2502	20. PAGE 1 OF 3
2. UNIT(S): INDETER	3. DRAWING/PART NO.: N/A	REV	4. ITEM DESCRIPTION: SEE BLOCK 16		5. ITEM LOCATION: G-11-N QC Hold Poseyville
6. P.O. [redacted] REV 27 REL 7 REV. 17 7220-F-3107	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV ____ SER NO. ____		9. SOURCE: SUPPLIER	10. [redacted]/SUPPLIER: NPS INDUSTRIES INC.
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER IR NO R-100-10564 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: THE SUPPLIER PERFORMED WELDING ON MISCELLANEOUS FABRICATED METALS FOR RELEASE NUMBER 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 (CONT'D ON PAGE 2)

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Rick Montreuil	8-29-79	Lead C.W. Barclay	8-31-79

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

R

1063 220

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 3 19NCR NO 2502

(CONT'D FROM BLOCK 16)
NPS1-8395/CC REMAINS ON QC HOLD UNTIL BECHTEL HAS REVIEWED AND APPROVED AN SDDR AND WELD PROCEDURES FROM NPS INDUSTRIES.
REFERENCE: TELECOPY C233A-F-3107-122-(6) PAGE 3 OF 3 OF THIS NCR.
HOLD FOR ENGINEERING DISPOSITION
"Q" NUMBER IS INDETERMINATE
4 HOLD TAGS APPLIED

B. Dudley

TELECOPY

PAGE 3 OF 3
NCR

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640

July 10, 1979

NPS Industries, Inc.
2750 South West Moody
Portland, Oregon 9720

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,

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

JFN/JPB/jas

ROUTE QC 07220 INIT.
PROCS
A. PROCS
CIVIL
ELECT.
PIPING
MECH.
CONDITIONING
DOC
TYPING
ADM ASST
YES NO
DATE

POOR ORIGINAL

RECEIVED
JUL 12 1979
QUALITY CONTROL
BECHTEL JOB 7220

SIGNATURE

1063 222

X

dlab

NONCONFORMANCE REPORT

START UP CODE: INDETERMINATE

1. PROJECT NAME: MIDLAND	JOB NO.: 07220			19. NO. 2503	20. PAGE 1 OF 3
2. UNIT(S): INDETER	3. DRAWING/PART NO.: N/A	REV	4. ITEM DESCRIPTION: SEE BLK 16	5. ITEM LOCATION: G-11-N QC HOLD POSEYVILLE	
6. P.O. [redacted] REV 27 REQ. 7 REL. 17 7220-F-3107	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV ____ SER NO. ____	9. SOURCE: SUPPLIER	10. [redacted]/SUPPLIER: NPS INDUSTRIES INC.	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER IR NO R-1-CO-10563 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: THE SUPPLIER PERFORMED WELDING ON MISCELLANEOUS FABRICATED METALS FOR RELEASE NUMBER 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 NPSI-8377/CC REMAINS ON QC HOLD (CONT'D ON PAGE 2.)

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Rick Montrenes	8-29-79	QAC W. Barclay	8-31-79

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

ORIGINAL

26. QC ACCEPTANCE

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

NONCONFORMANCE REPORT (CONT'D) 20PAGE 2 OF 3 19NCR NO 2503

(CONT'D FROM BLOCK 16)
UNTIL BECHTEL HAS REVIEWED AND APPROVED 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

POOR ORIGINAL

B. Dunlay

TELECOPY

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640

July 10, 1979

PAGE 3 OF 3
NCR 2303

NPS Industries, Inc.
2750 South West Moody
Portland, Oregon 9720

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,

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

JFN/JPB/jas

ROUTE | QC 07220 | INIT.
PFOCK
A. PFOCK
CIVIL
ELECT.
PIPING
MECH.
WELDING
QC
ENGINEERING
ADMIN ASST
Mech Insp
Elec Insp.
DOCUMENT CONTROL
YES NO
DATE

POOR ORIGINAL

RECEIVED
JUL 12 1979
QUALITY CONTROL
BECHTEL JOB 7220

1063 225

Alab

8-22-78
ICLB

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 1460	20. PAGE 1 OF 3 2
2. UNIT(S): 1 & 2	3. DRAWING/PART NO.: See Block 16	REV: N/A	4. ITEM DESCRIPTION: Nuclear Service Solenoid Valves	5. ITEM LOCATION: Q.C. Hold, Whse. # 1	
6. P.O. OR SPEC NO.: 7220-J-256-AC Rev. 3	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV ____ SER NO. ____	9. SOURCE: Supplier	10. CONTRACTOR/SUPPLIER: Target Rock Corporation	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER — IR NO. R-1, 00-3503 NO. J-603 Rev. 5	12. ASME AUTHORIZED INSPECTION REQ'D (X) YES ( ) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During (X) Rec'g ( ) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FLD	

16. NONCONFORMING CONDITION: Item 1. Specification 7220-J-603 Rev. 5, Appendix A requires Quality Verification Documentation according to Form G-321-D. Form G-321-D Document Category 15.0 requires Cleaning and Coating Procedures and Verification Reports. Contrary to the above, no Cleaning Verification Report was included in the documentation package for valves 1SV-0150, 2SV-0250, 1SV-0155 and 2SV-0255.

Cont. on Page 2

17. REPORTED BY: Dean A. Delaney DATE: 8/8/78

18. VALIDATED BY: R.B. Barclay DATE: 8/8/78

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

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

1. Field Procurement Supervisor shall obtain the required documentation.

~~2. Field Procurement Supervisor shall arrange for field inspection and repair of the valve at the site at vendor expense. Field engineering inspection of 0SV-0155 has revealed internal damage to electric components. Vendor should be prepared to remove caps from the remaining three valves (see Item 1) for internal inspection as all four valves were shipped in the same container.~~ R.B. Barclay 9-22-78

~~23. PROJECT ENGINEERING DISPOSITION~~

2. Subject Valves to be returned to Vendor For Repair. R.B. Barclay 8/17/78

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
(X)			

PROJECT FIELD ENGINEER — DATE 8-23-78

PROJECT ENGINEER — DATE

PROJ CONSTR QC ENGINEER — DATE 9-23-78

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

Item 1. Documentation Received & Accepted. Dean A Delaney 9/23/78

Per #2 disposition all valves returned to vendor on Bechtel shipping notice: 7220-B109 DE 8/30/78

26. QC ACCEPTANCE: [signature] 8/30/78

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

ORIGINAL POOR

1063 224

Block 16 Continued

Item 2. During receipt inspection of valve 1SV-0155, two of four self locking screws holding the cap to the switch housing assembly were found to be sheared off.

"Q" number is 5.023. Hold pending final disposition. 4 hold tag(s) applied to the nonconforming item(s).

Bechtel Power Corp., agents for Consumers Power Co.

NONCONFORMANCE REPORT (CONT'D) 20. PAGE 3 OF 3 19. NCR NO. 1460

position Concurrence tem			
EWORK	REJECT	REPAIR	USE AS IS
		X	

See page 1 - block #24

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

W. Barclay 8-30-79

PROJECT CONSTR QC ENGINEER DATE

H W Kitch 8/29/79

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

7220-QCF-38 Rev. 0 3-26-79

1063 228

Bechtel Power Corp., agents for Consumers Power Co.

3230 15-68

Bechtel

SHIPPING NOTICE

JOB NO. 7220 SN NO. 7220-

DATE 8/28 19__

CONSIGNED TO Target Rock Corp.

ADDRESS 1966 E. Broadhollow Rd. East Farmingdale, NY 11735

ROUTING Interstate Freightways

SHIP VIA	COLLECT	PREPAID			
AIR EXPRESS			PURCHASE ORDER NO. Freight only EMR #EJ-0239	O S & D NO. NA	ORIGINAL MRR NO. AEO 6611
EXPRESS			MATERIAL ORIGINALLY PURCHASED ON P.O. NO. 7220-J-256AC (Q)	VENDOR Target Rock Corp.	
RAIL FREIGHT			REASON FOR SHIPMENT: Inspection & Repair		
MOTOR FREIGHT		XXX			
PARCEL POST			SHIPMENT AUTHORIZED FOR BECHTEL BY: (Authorized signature on file) B. Reigelsperger-V. Graden/D. Delaney (Q-Listed)		BILL OF LADING ATTACHED
BEARER					

ITEM NO.	QUANTITY	UNIT	COMPLETE DESCRIPTION
1	4	ea.	3/4" Solenoid Valves
			15V-0150 S/N #1
			25V-0250 S/N #2
			15V-0155 S/N #3
			25V-0255 S/N #4
			NCR# 1460

RETURN AUTHORIZED BY: D.K. Vater

AUTHORIZATION NUMBER: CN 6361

COMPANY Target Rock Corp.

CREDIT TERMS: NA

SHIPPER
Bechtel
3500 E. Miller Rd.
Midland, MI 48640

PER D.R. Wooster for
E.E. Lawrence/jw

ACCEPTED FOR SHIPMENT

DATE 19__

CARRIER Insterstate Freightways

PER [signature] 8-30 79

SN NO. 7220-8109

1

3230 (5-68)

Bechtel Power Corp., agents for Consumers Power Co.

1063 229

NONCONFORMANCE REPORT

S/U 1-BBC

8.14.79

1. PROJECT NAME	JOB NO.			19. NO. 1470	20. PAGE 1 OF 2
Midland	7220				
2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION	
Unit 1	QRM 48-1218-02	N/A	Reactor Coolant Pump Motor Flywheel	Motor Building # B	
6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART P/N N/A REV Rev. SER NO.	9. SOURCE	10. CONTRACTOR/SUPPLIER	
M 1.7	1RC-P1B2		Supplier	Babcock & Wilcox	

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-2.20-21 2 NO. QCI R-2.20 Rev. 4	( ) YES (X) NO	( ) YES (X) NO	(X) Rec'g ( ) Const ( ) Test	(X) Client ( ) Eng ( ) FLD

16. NONCONFORMING CONDITION:

QCI R-2.20 Rev. 4 requires ~~requires~~ review of the B & W Data Packages for availability, legibility and traceability in accordance with the requirements of the B & W Quality Requirements Matrix(QRM). Contrary to the above, the Data Package for RC Pump Motor Flywheel for Motor 1RC-P1B2 does not have a signed B & W NPGD certificate of conformance and the QA Data Index indicates that this material has been placed on B & W QA Hold status. "Q" number is 4.017. Hold pending final disposition. 1 hold tag(s) applied to the R.C. Pump Motor.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
John R Shiffer Jr	8-11-78	W B Barclay	8-14-78

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

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

Mr. Walter Lee, B&W technical site representative, will insure that the required documentation and B&W QA release is obtained.

Robert J. Leonard 8/21/78
R. Clark 8/21/78
Concurred W. Lee B&W 8/24/78

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
DCC			

A.R. Corso 8-22-78
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

A.L. Foster 8-23-78
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

CORRECTED DATA PACKAGES RECEIVED AND REVIEWED.

R. Valentine
8-14-79

26. QC ACCEPTANCE

R. Valentine 8-14-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

1063 230

NONCONFORMANCE REPORT

S/H 0 RJA

1. PROJECT NAME	JOB NO.	19. NO. 1614	20. PAGE 1 OF 3
Midland	7220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
Common	Bechtel Dwg J-748	1	Number One Operator's Desk OC01	Warehouse # 1

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
7220-J-201 AC Rev. 9	OC01	P/N N/A REV ____ SER NO. ____	Supplier	Magnetics

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. R-1,00-4074 NO. See Blk. 16	( ) YES (x) NO	(x) YES ( ) NO	(x) Rec'g ( ) Const ( ) Test	( ) Client (x) Eng ( ) FLD

16. NONCONFORMING CONDITION:

I. Specification 7220-J-201 Rev. 4 para. 2.1.2 states in part:

"The Seller shall be responsible for the following work:

a. Design, detail, and layout of the equipment in accordance with this Specification, attachments, and the Buyer's drawings."

Con't on Page 2

17. REPORTED BY John R Shiffler DATE 10-27-78

18. VALIDATED BY for W Barclay DATE 10-30-78

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

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

Project Engineering to resolve. R Hogg 11-1-78

23. PROJECT ENGINEERING DISPOSITION

1.a. The affected drawings will be revised and reissued by March 31, 1979 to resolve the descrepencies

2b. Field to mount the nameplates as shown on the Layout Drawing.

1/31/79 JW/ law

JK 31 JA 79

24. DISPOSITION CONCURRENCE N/A

rework	reject	repair	use as is
			X

John Shiffler 1-31-79 PROJECT FIELD ENGINEER DATE

A Barclay 2-13-79 DATE

M O Rothrock 2-1-79 PROJECT ENGINEER DATE

for W Barclay 2-16-79 PROJ CONSTR QC ENGINEER DATE

SRK NRC 2-13-79

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

AFFECTED DWG J-748 REV. 2 RECVED 7-16-79

ACCEPTABLE

8/23/79

Acceptable A M Schmidt 8/23/79

R

26. QC ACCEPTANCE A M Schmidt 8/23/79 QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

ORIGINAL

1063 231

Block 16 Continued

Contrary to the above, the layout of equipment on the operator's desk Tag # OC01 does not agree with Bechtel Drawing J-748 Rev. 1 (See Attachment "A" for photograph of the panel).

2. Specification 7220-J-201 Rev. 4 para. 9.1.1 states in part "Suitably engraved nameplates, in accordance with attached Nameplate Standard Drawing 7220-E-49 shall be furnished where specified for each instrument, switch, or other device, mounted on the benchboards or other surfaces or within any of the enclosures, and for each control board and desk." Contrary to the above, the nameplates for Panel OC01 were received not attached to the panel. NOTE: G-321-D indicates Authorization from Project Engineering to be shipped in this condition.

"Q" number is 5.031. Hold pending final disposition. 3 hold tag(s) applied to the nonconforming item(s).

Attachment "A"
NCR 1614 page 1 of 3

X

NONCONFORMANCE REPORT

S/U N/A

1. PROJECT NAME	JOB NO.	19 .12	20. PAGE 1 OF 2
Midland	7220		8/8/79

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
Indeter	Material Req. It 72K	7	Four (4) Thermal Mag. Breakers & Remote Operators	WHSE #1

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART NA P/N ____ REV ____ SER NO. ____	9. SOURCE	10. CONTRACTOR/SUPPLIER
7220-E-1Ac Rev 6	N/A		Supplier	I+E - Gould

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. NA M/R NO 7220-E-7 Rev 7	( ) YES (X) NO	( ) YES (X) NO	(X) Rec'g ( ) Const ( ) Test	( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION: Material Requisition 7220-E-7 Rev 7 Item 72K Requires that Four (4) 100 Amp Thermal Magnetic Breakers and Remote operators be supplied. Contrary to the Above Bechtel Shop Inspector 337 Released Four (4) Rotary type Breaker operators

4 Hold Tag(s) Applied to the Non-Conforming Item(s) Q Number is indeterminate Hold Pending Final Disp.

17. REPORTED BY Bradley Stoddard DATE 12/16/78

18. VALIDATED BY C.B. Barclay DATE 12/15/78

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

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

~~Return material to vendor.~~ Return material to vendor. Roy A Pfaff 8/23/79

~~B. Matthews 12-19-78~~

~~Material in QC Hold, Material now required for repair items purchased under E-7, PO Item 72, and left in receiving QC Hold~~ equipment, ~~No Documentation exceptions.~~ Roy A Pfaff 8/8/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
	X		

J. G. Camarata RAB 12/19/78
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

C.B. Barclay 12/21/78
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

MATERIAL RETURNED TO VENDOR ON S/N 7220-8045

S. P. Wa... Mat 8/23/79

~~26. QC ACCEPTANCE~~ S. P. Wa... Mat 8/23/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

R

1063 234

NONCONFORMANCE REPORT (CONT'D)

19. NCR NO 1712

24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS
			✓ per doc.

W. Dunn RSO — 8-9-79
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
	✓		

W. Dunn RSO — 8-22-79
PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

J. J. Kissell QMS — 8/22/79
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

24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJECT CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJECT CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJECT CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJECT CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER — DATE

PROJECT ENGINEER — DATE

PROJECT CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

X-1

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 07220					19. NO. 1750	20. PAGE 1 OF 2
2. UNIT(S): 1&2	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: Battery Chargers			5. ITEM LOCATION: N/A	
6. P.O. OR SPEC NO.: E-11 - 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: Solid State Controls		
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-11.

Q # 3.202. No hold tags applied.

17. REPORTED BY: Robert A Mey DATE: 1-9-79

18. VALIDATED BY: K C Barclay DATE: 1-9-79

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

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

Project engineer to evaluate

B. Matthews

23. PROJECT ENGINEERING DISPOSITION: Use as is:

Open questions on the QTR have been resolved as follows:

Q. IEEE 344 requirements not met.

1. Listing of test equipment and calibration.
2. Approval signature and date.
3. Effect of interposing fixtures and connections.
4. No evidence of compliance to IPCEA S-61-402 para 6.5.

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

PROJECT FIELD ENGINEER: R. Nelson 8-20-79 DATE

PROJECT ENGINEER: [signature] 8/14/79 DATE

PROJ CONSTR QC ENGINEER: John Russell for B 8/21/79 DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE: [signature] 8-27-79

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

1063 236

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. Nelson NSB 1-12-79
PFE Date

T. Barclay 1-12-79
PFQCE Date

for E. Smith 1-12-79
LQAE Date

A. 1-4 Submittal of an addendum attachment to the seismic evaluation of a 300 amp battery charger contains listing of test equipment and calibration, approval signature, and it also explains that the mounting of the subject equipment and method of obtaining test response are such that it has no effect regarding relative position of fixtures and connections. (Reference: Seismic evaluation of a 300 amp battery charger our vendor print no. 7220-E11-18-2 currently status code 1.)

5 Statement submitted by Solidstate Control confirms that the wire used in the subject equipment does meet the requirements of the IPCEA standard S-61-402 (Reference: Solidstate Control's letter to Bechtel dated August 3, 1979.)

K. Bandy. J. Kovach 8/10/79
Resp Eng Date

W. Tenell 8/13/79
EGS Date

R. E. Baltzar 8-14-79
PQE Date

1063 237

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 07220			19. NO. 1752	20. PAGE 1 OF 2
2. UNIT(S): 1&2	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: Preferred AC Power Supplies		5. ITEM LOCATION: N/A
6. P.O. OR SPEC NO.: E-19 - 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: Solid State Controls	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER IR NO. N/A NO. BEBC 2606	12. ASME AUTHORIZED INSPECTION REQ'D ( ) 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: 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-19.

Q # 3.301. No hold tags applied.

17. REPORTED BY: [signature] DATE: 1-9-79

18. VALIDATED BY: [signature] DATE: 1-9-79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

[signature] PROJECT FIELD ENGINEER DATE: 8-6-79

[signature] PROJECT ENGINEER DATE: 1-30-79

[signature] PROJ CONSTR QC ENGINEER DATE: 8-10-79

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

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 question on the QTR has been resolved as follows:

Q. No evidence of conformance to the IPCEA flame resistance test PARA 6.5 of bill of material.

A. Statement submitted by Solidstate Control confirms that the wire used in the subject equipment does meet the requirements of the IPCEA standard S-61-402 (Ref: Solidstate Controls, Inc. letter to BAPC dated 7/17/79).

26. QC ACCEPTANCE

[signature] QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

1063 238

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 KB 1-12-79
PFE Date

K.B Barclay 1-12-79
PFQCE Date

L. Smith 1-12-79
for LQAE Date

KEB 8-8-79 Block 23, continued:

K. Bandy, J. Kovach 1/30/79
Resp. Eng. Date

[illegible] 7/30/79
EGS Date

K. E. Ballegan 7/30/79
PQE Date

SOLIDSTATE CONTROLS, INC.
600 OAKLAND PARK AVENUE • COLUMBUS, OHIO 43214
TELEX 245338 TEL. 263-1886 AREA CODE 614

RECEIVED
JUL 20 1979 A
BECHTEL
A.A. 7220

JULY 17, 1979

BECHTEL ASSOCIATES PROFESSIONAL CORPORATION
P.O. BOX 1000
ANN ARBOR, MI 48106

ATTENTION: MR. R. L. CASTLEBERRY
REFERENCE: CONSUMERS POWER COMPANY
MIDLAND PLANT - JOB 7220
P.O. 7220-E-19-AC
FILE E-19PR
SCI JOBS 7217-18-19 JS
YOUR LETTER DATED 7-13-79

E-19

DEAR SIR:

ACCORDING TO SCI'S INFORMATION, THE SUBJECT EQUIPMENT WAS WIRED WITH BELDEN "HYPALON" WIRE. ACCORDING TO DOCUMENTATION IN OUR FILES, THIS WIRE DOES MEET THE REQUIREMENTS OF THE IPCEA STANDARD S-61-402. I HOPE THIS BRIEF STATEMENT SATISFIES YOUR REQUIREMENTS.

BEST REGARDS,

SOLIDSTATE CONTROLS, INC.

DAVID R. BRATTON
VICE-PRESIDENT, ENGINEERING

DRB:JH

POOR ORIGINAL

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 07220				19. NO. 1754	20. PAGE 1 OF 2
2. UNIT(S): 1&2	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: 600 Volt Power Cable		5. ITEM LOCATION: N/A	
6. P.O. OR SPEC NO.: E-22 - 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: Essex International		
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-22.
Q # 3.002. hold tags applied.

17. REPORTED BY: [signature] DATE: 1-9-79

18. VALIDATED BY: [signature] DATE: 1-9-79

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

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

Project engineer to evaluate

B. Matthews 1-12-79

23. PROJECT ENGINEERING DISPOSITION

Use as is -

Open questions on the qualification test review have been resolved as follows:

Q. 7220-E22-8-2; 7220-E22-9-2; 7220-E22-11-2 and 7220-E22-12-1.

These documents have Bechtel comments made and were marked acceptable.

There is no evidence as to incorporation of these comments.

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

PROJECT FIELD ENGINEER [signature] DATE 1-12-79
PROJECT ENGINEER [signature] DATE 1-12-79
PROJ CONSTR QC ENGINEER DATE
AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE [signature] 3-7-79
QC ENGINEER DATE
AUTHORIZED INSPECTOR DATE

Block 16 Continued.

A conditional release is granted to install the Q Material on this NCE. Corrections or removal can be accomplished without cuasing damage or contamination to the associated plant equipment or structure.

PFE		Date
PFQCE		Date
LQAE		Date

A. Re-review of the vendor prints in question has revealed that the nature of Bechtel comments were inappropriate. Therefore, the status of these vendor prints was changed to code 5. (Ref: Bechtel letter to Essex International dated July 16, 1979.)

Q. Documentation submitted for qualification to IEEE-383 has inconsistencies and is not descriptive.

A. The vendor has performed a re-qualification test to resolve inconsistency. The results have been submitted, reviewed and found acceptable (Ref: V.P. 7220-E22-44-1 currently status code 2).

Resp Eng	J.R. Kovach	7/17/79 Date
EGS		7/17/79 Date
PQE		7/17/79 Date

1-X

Dab

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland			JOB NO.: 07220			19. NO. 1756	20. PAGE 1 OF 3
2. UNIT(S): 1&2	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: 480 Volt Distribution Panels			5. ITEM LOCATION: N/A	
6. P.O. OR SPEC NO.: E-45 - 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: Square D Company		
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-45.

Q # 3.108. No hold tags applied.

17. REPORTED BY: [signature] DATE: 1-9-79

18. VALIDATED BY: [signature] DATE: 1-9-79

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

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

Project engineer to evaluate

B. Matthews 1-12-79

23. PROJECT ENGINEERING DISPOSITION: Use as is -

Open questions on the qualification test review have been resolved as follows:

1) Specification E45, Paragraphs 6.2.6 and 6.2.7 indicate Al-Cu terminals are acceptable. Is this true in reactor building?

A. Aluminum may be used in the reactor building, however it is a controlled metal and its use must be limited and recorded. Additionally, the terminals in question located in the reactor building panels are non-Q-listed items.

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

[signature] PROJECT FIELD ENGINEER 8-24-79 DATE

[signature] PROJECT ENGINEER 8-27-79 DATE

[signature] PROJ CONSTR QC ENGINEER 8-28-79 DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE [signature] 5-2-79

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

1063 243

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. Dillon ASB	1-12-79
PFE	Date
W Barclay	1-12-79
PFQCE	Date
for E Jones	1-12-79
LQAE	Date

Block 23 Continued.

2) VP E45-22-1, Paragraph 3.2.3 states that TRS plots use 5% damping. Actual plots show 1% damping used.

3) Test report does not contain dated and signed certification page.

4) What test fixtures will be evaluated for effect on test item. The test fixture used by Wylie appears to be reasonably large. Why is it considered as a part of data analysis? Where is this stated in the test report?

5) IEEE Std 344, Paragraph 6.1.2 requires that the location of accelerometers be included in the report.

A. (2 through 5) Resubmitted vendor document reflects 1% damping and contains signed and dated certification page, location of accelerometers, and effect of test fixtures. (Ref: Seismic qualification for 480 V ac I-line panelboards, Bechtel VP 7220-E45-22-4, Pages 2 and 12, currently status Code 1.)

6) VP-7220-E45-22-1: Last paragraph of Section 3.2.1 appears to be contradictory.

A. This is not contradictory. The first paragraph is referring to 120 V panels, while the last paragraph refers to the mounting procedure for the 480 V I-line panelboard.

7) Where is the equal test result for 120 V ac and 125 V dc panels?

A. Seismic qualification test results are submitted by the vendor in a separate package (Ref: 125 V dc I-line panelboards, Bechtel VP 7220-E45-53, currently status Code 1; 120 V ac QMB panelboards, Bechtel VP 7220-E-45-54, currently status Code 1; 120 V ac NQOB panelboards, Bechtel VP 7220-E45-55, currently status Code 1)

Block 23 Continued.

8) No evidence of compliance with IPCEA S-61-402

A. There is no internal wire in 480 V ac panels. Therefore, IPCEA S-61-402 is not applicable.

9) Specification E-45, Paragraphs 5.2.1 and 5.2.2 say the same thing. Is this correct?

A Yes, this is correct. Paragraph 5.2.1 is for units which are not located in the reactor building while Paragraph 5.2.2 is for units which are located in the reactor building.

10) Specification E-45, Appendix A lists environmental conditions for equipment. Do we need certification of aging to radiation?

A. Specification E-45 has been revised to reflect the radiation requirement. (Ref: Specification E-45, Rev 4)

Resp Eng — Date 8/15/79

~~Resp Eng~~ EGS — Date 8/15/79

~~Resp Eng~~ ~~UE&C~~ PGE — Date 8/20/79

1063 245

S/U - Non-Testable Unit

Corrected Copy

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
Midland	7220	1030	1 of 2

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
Common	N/A	N/A	Concrete Curing	TF(635.0)G

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. C-1.40-738 NO C-231 Rev.16	( ) YES (X) NO	(X) YES ( ) NO	( )Rec'g (X)Const ( )Test	( )Client ( )Eng (X)FLD

16. NONCONFORMING CONDITION: Spec. C-231 Rev.16 Section 13.2.4.2 states in part that...

" Concrete curing surface temperatures shall be maintained at 50°F, however an occasional temperature drop to 40°F may be allowed; not to exceed 12 hours total. Contrary to the above, a temperature of 30°F was found on 1/17/79 @ 1945 hours & remained nonconforming until 2355 hours on 1/17/79 when a 54°F temperature was recorded. Total hours of indeterminate temperatures was 14 hours. See attached Curing Report, Discrepancy Report, Recording Thermometer Graph & Sketch.

17. REPORTED BY: [signature] DATE: 1/19/79

18. VALIDATED BY: W. I. Barclay for RK DATE: 1/19/79

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

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

Disposition requested by 3/12/79

"Use As Is" based on the concrete curing report as recorded per QC, C-2c (4000 psi at 28 da/s) concrete placed at the tank form valve pit #1 roof slab (pour. No ~~XK~~ TF(635)G) was cured with a concrete surface temperature of 30°F at 1945 hours during (con't on sh. 2)

23. PROJECT ENGINEERING DISPOSITION A) For the concrete that was noted as being exposed to temperatures of 43°F for approximately 24 hours and for 46°F for approximately / hours (in lieu of the minimum of 50°F) there will tend to be an insignificant effect upon the long term concrete characteristics. B) For the concrete that was exposed to freezing temperatures (30°F), the following observations are made: 1. The concrete was not exposed to freezing temperatures until the fifth day of cure. 2. Visual inspection of the area subjected to freezing temperatures indicated no apparent surface damage. 3. The Swiss Hammer Test results on the effected area

(Cont. on page3)

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

PROJECT FIELD ENGINEER [signature] DATE 2-22-79

PROJECT ENGINEER [signature] DATE 2-22-79

PROJ CONSTR QC ENGINEER [signature] DATE 2-23-79

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE [signature] DATE 8/7/79

QC ENGINEER

AUTHORIZED INSPECTOR DATE

1063 246

Continued from Block 16 - Also See Pg. #3 4/4/79

"Q" List No. 1.003, Hold for Engineering Disposition, 1 Hold Tag Applied.

Corrected Copy

Block 22 Continued from sheet 1.
the fifth day of concrete curing, resulting in approximately 14 hours of indeterminate curing. Reference to the attached recording thermometer graph indicates two additional periods of time during which the subject concrete received nonconforming curing totaling approximately 31 hours. Notes: 1) The recording thermometer graph as attached should be considered invalid based on the facts that a) the temperatures as recorded do not coincide with Q.C.'s twice daily recorded temperatures on the concrete curing report, which represent the worst possible curing temperatures of a subject cure, and b) the recording thermometer was malfunctioning initially, 2) The 30°F concrete surface temperature as reported per Q.C.'s concrete curing report represents the curing of concrete at a localized area as shown on the attached sketch page 8 of 8, the remainder of the slab received acceptable curing, 3) Inspection of the concrete surfaces contained within this slab revealed no ~~xixxx~~ visual surface damage, 4) The curing period for the pour was extended ~~xx~~ an additional day to provide seven days of acceptable curing as reported per the concrete curing report, 5) The Swiss ~~XXXX~~ Hammer tests results as tested with hammer no. 5940 at 1300 hours on 1/22/79 per ASTM C-805-75T had the below listed results for testing areas in a dry condition with a broom finish as located on the attached sketch, page 8 of 8,

Test Area	Rebound Values	Average Rebound Value
A	22, 23, 22, 24, 22, 22, 23, 24, 23, 29	23.4
B	24, 29, 24, 23, 24, 22, 22, 27, 23, 23	24.1
~~K~~	~~26, 24, 28, 23, 24, 25, 23, 26, 24~~	
C	26, 24, 28, 28, 23, 24, 25, 23, 26, 24	25.1
D	23, 26, 24, 21, 28, 22, 26, 22, 23, 24	23.9

6) Concrete placed at this pour had a representative average compressure strength of 4090 psi at seven days of age for batch plant ~~xxxxx~~ cast ~~xy~~ cylinders.

2/12/79

2/12/79

CONTINUED FROM BLOCK 16 -

FURTHER INVESTIGATION OF RECORDING THERMOMETER GRAPH SHOWS THAT CONCRETE CURING TEMPERATURES FELL BELOW 50°F AT APPROXIMATELY 1500HRS ON 1/14/79 & REMAINED THAT WAY UNTIL 1500 HRS ON 1/15/79; AGAIN TEMPERATURES FELL BELOW 50°F FROM ~~1200HRS~~ 1100 HRS 4/11/79 → ~~0000~~ 1800 HRS 4/11/79 ON 1/16/79, FOR A TOTAL OF ~~36~~ 31 HRS 4/11/79 OF INDETERMINATE TEMPERATURES PER RECORDING THERMOMETER No. BPC 554 DUE FOR CALIBRATION ON 12/6/79. CUMULATIVE HOURS OF INDETERMINATE TEMPERATURES WAS 44 HRS. NOTE: DUE TO INCONSISTENCY OF RECORDING THERMOMETER GRAPH FOR FIRST 24 HRS OF CURE, THE THERMOMETER WAS SENT BACK TO THE LAB FOR RE-CALIBRATION.

2/1/79 4/11/79

Corrected Copy

Block 23 Continued;

revealed no apparent discrepancies when compared to other areas of the concrete pour that were satisfactorily 4/11/79 cured. 4. The ~~XXX~~ average 7 day compressive strength test results were 4090 psi; exceeding the specified design strength of 4000 psi @ 28 days. 5. The cure was extended an additional day.

Based on the above, Project Engineering recommends that the subject pour be "used as is".

R Schulman
2/22/79
(REM C-2070)

CONCRETE CURING REPORT

Project 7220

TF(635°) g

13 QC Acceptance ____ Date ____ Control No. ____ File No. ____

Page ____ of ____

2 Placement Location & Elevation: TANK FARM – TANK # 1T-60 VALVE P.T #1 ROOF SLAB – EL 635'-0"

3 Cure Started: Time 17:00 Date 1/12/79

4 QCIR No. C-1,140 738

DAILY CURE RECORD

	5 Time	6 Weather	7 Thermometer/ Cal Due Date	8 Ambient Temperature	9 Surface Temperature	10 QCE Initial/Date	11 D.R. YES	11 D.R. NO
	22:45	Cloudy	2345 6/22/79	74°	60°	SG 1/12/79		X
1	0727	SNOW	2512 6/13/79	85°	76°	CP 1/13/79		X
	22:30	SNOW	2345 6/22/79	80°	72°	SG 1/13/79		X
2	11:40	CLEAR	2458 3/8/79	72°	68°	RV 1/14/79		X
	20:48	CLEAR	2458 3/8/79	75°	68°	RV 1/14/79		X
3	0733	CLOUDY	2512 6/13/79	65°	52°	CP 1/15/79		X
	21:50	SNOW	2345 6/22/79	78°	52°	SG 1/15/79		X
4	0800	Cloudy	2512 6/13/79	94°	65°	CP 1/16/79		X
	21:42	Cloudy	2345 6/22/79	86°	60°	SG 1/16/79		X
5	0948	SNOW	2512 6/13/79	114°	74°	CP 1/17/79		X
PM	19:45	SNOW	2345 6/22/79	64°	30°	SG 1/17/79	X	
	23:55	Clear	2345 6/22/79	94°	54°	SG 1/17/79		X
6	0727	CLEAR	2512 6/13/79	88°	57°	CP 1/18/79		X
	21:04	Clear	2345 6/22/79	82°	62°	SG 1/18/79		X
* 7	1022	Cloudy	2512 6/13/79	69°	64°	CP 1/19/79		X
	21:54	SNOW	2345 6/22/79	62°	54°	SG 1/19/79		X
	8:20	Cloudy	2281 6-22-79	85°	75°	BBO 1-20-79		X

12 Cure Extended

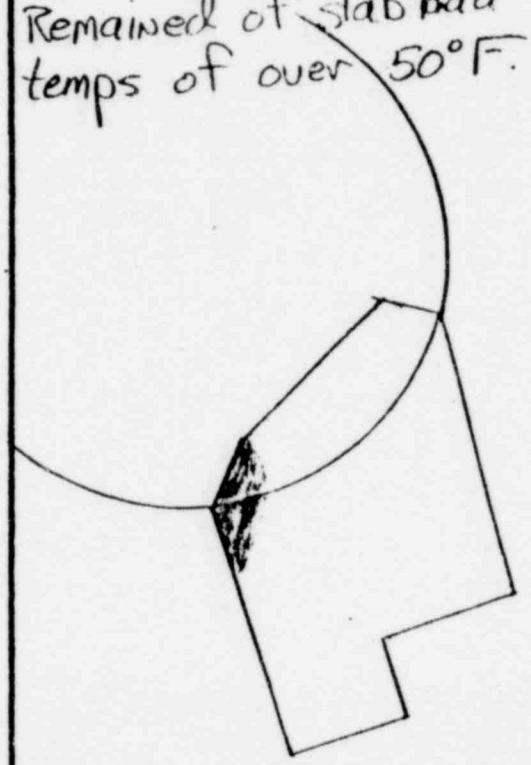
1 Day	X
2 Days	
3 Days	

* CURE EXTENDED 1 Day DUE to LOW Temps. CP 1/19/79

POOR ORIGINAL

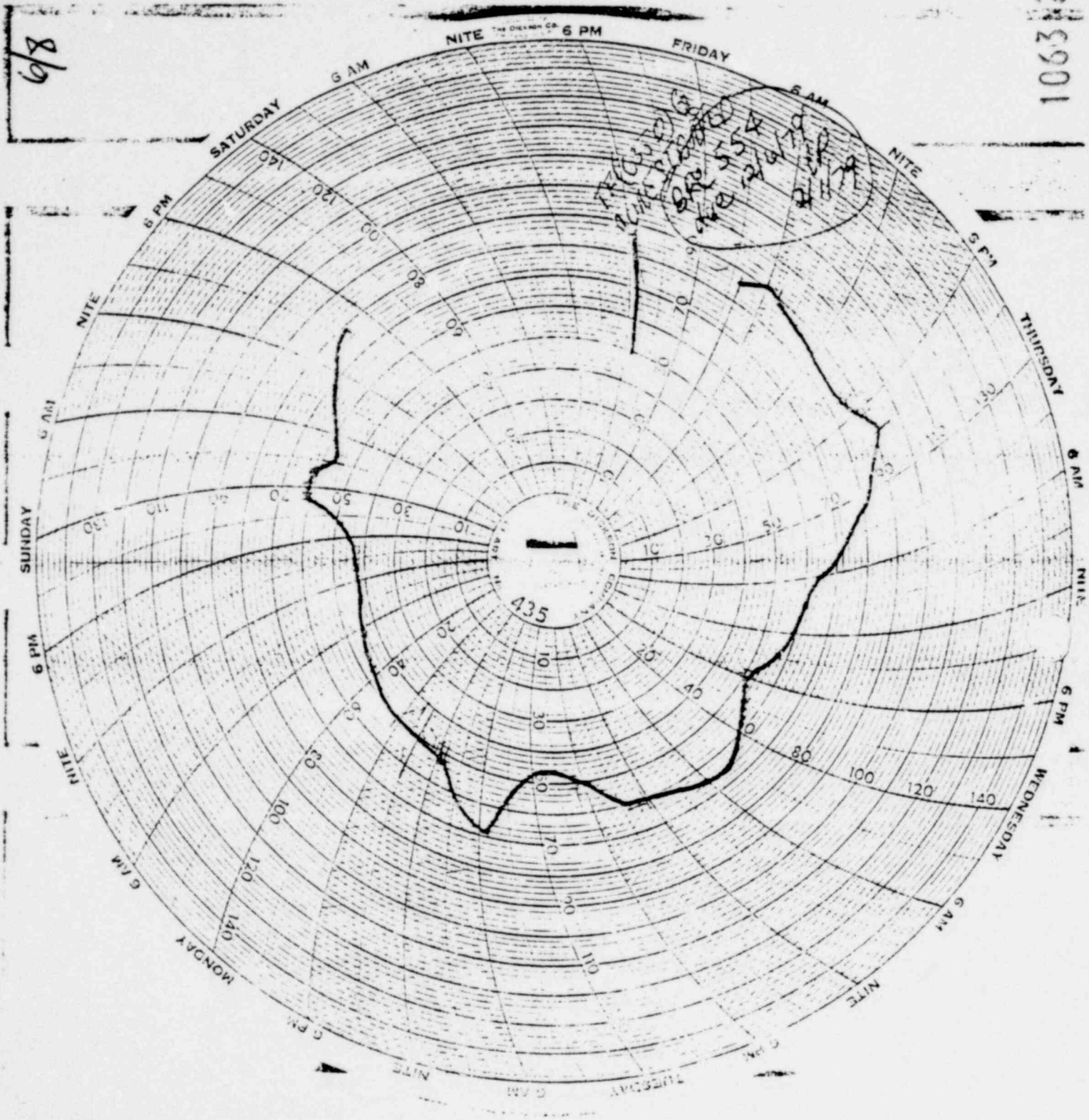
DISCREPANCY REPORT

(10) DISCREPANCY REPORT LOG NO. C-172
(2) QCIR NO. C-140-738
(1) PAGE NO. ~~4~~ 5 OF ~~8~~ 8 NCR#1830

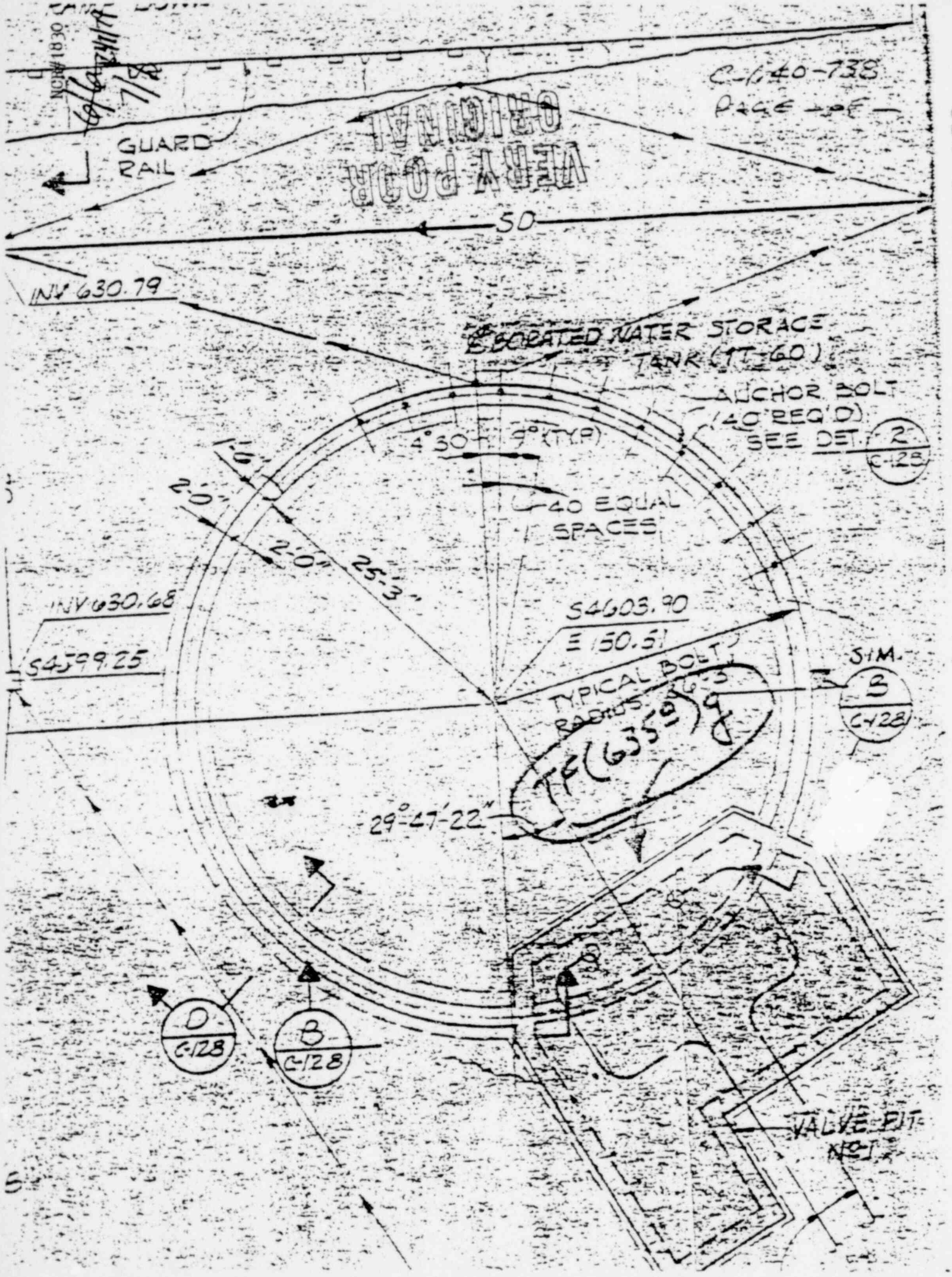
(3) ACT NO.	(4) AREA/ LOCATION	(5) ITEM/ DISCREPANCY	(6) QCE INT/DATE	(7) LEAD QCE INT/DATE	(8) REWORK DESCRIPTION	(9) QCE ACCEPT. INT/DATE
2.1b	Tank Farm Roof Slab Valve Pit #1 IT-60 El. 1,635'	Frozen burlap and a surface temperature of 30°F were noted at one spot on the referenced slab. See sketch for location. Remained of slab had temps of over 50°F. 	SG 1/17/79	1/17/79	2/1/79	

FORM QC-DR-1
Rev 3

POOR ORIGINAL



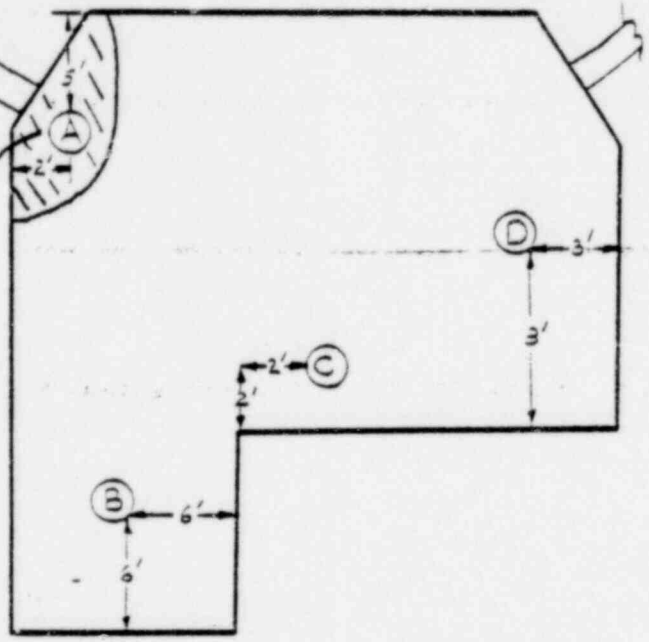
POOR ORIGINAL


C-1140-738
PAGE 4 OF
GUARD RAIL
ORIGINAL
NEW POUR
50
INV 630.79
ELEVATED WATER STORAGE TANK (TT-60)
ANCHOR BOLT (40 REQ'D) SEE DET. 2 C-128
4°30'
9° (TYP)
40 EQUAL SPACES
2'-0"
2'-0"
25'-3"
INV 630.68
S4599.25
S4603.90
E150.51
TYPICAL BOLT
RADIUS
SIM.
B C-128
29°-27'-22"
D C-128
B C-128
VALVE PIT
NO.

#1850
8 of 8
dwg
2/6/17

TANK FARM VALVE PIT 1 ROOF SLAB

AREA WHERE 30°F TEMPERATURE WAS RECORDED DURING CURING PERIOD.



POUR NO. TF(635)G

Ala

Start Up Code-Indeterminate

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 1882	20. PAGE 1 OF 2
2. UNIT(S): 1 & 2	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: Starter Hema, Controller Type Magnetic Breakers		5. ITEM LOCATION: Whse. # 1
6. P.O. OR SPEC NO.: 7220-E-7-AC	7. SERIAL NO.: See Blk. 16	8. REPLACEMENT PART P/N N/A REV SER NO.	9. SOURCE: Supplier	10. CONTRACTOR/SUPPLIER: Gould Inc.	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER	IR NO. R-1, 00-8760 NO. E-7 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:

Specification 7220-E-7 Rev. 3 Section 10.0 states: The method of preparation for shipment shall adequately protect the control centers and all accessories against injury caused by corrosion, dampness, breakage, or vibration that might be encountered during transportation and handling. Contrary to the above, Items 12-Tag 730 No. 2 of 2 and Item 20-Tag 730-3 No. 4 of 13 have missing or broken locks.

Continued on Page 2

17. REPORTED BY: [signature] DATE: 2-15-79

18. VALIDATED BY: [signature] DATE: 2/15/79

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

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

~~XXXX

Continue Block 16

Items 21 Tag 73 0-4 No. 5 of 7 and Item 22 Tag 73-0-5 No. 26 of 26 have broken plastic disc which surrounds the control switch. Item 19 Tag 730-2 No. 8 of 8 has both lock and disc broken.

"Q" number is 3.104. Hold pending final disposition. 5 hold tag(s) applied to the nonconforming item(s).

POOR ORIGINAL

Start Up Code: Non-Testable Unit

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO. 7220			19. NO. 1995	20. PAGE 1 OF 2
2. UNIT(S): Indeterminate	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: 100 Pcs. of 5/8" x 6" Hilti Kwik Bolts	5. ITEM LOCATION: Whse. # 1, Q.C. Hold	
6. P.O. ~~SUBCONTRACT~~ NO.: 7220-F-31737 Rev. 0	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 ( ) SPEC (x) OTHER IR NO. R-1.00-9131 NO. F-31737 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: Bechtel purchase order # F-31737 Rev. 0 requires "All Kwik Bolt Stud Anchors shall be stamped in accordance with the manufacturers length identification system." Contrary to the above, 100 pcs. of the Hilti Kwik bolts received on Hilti order # 095613 were not stamped for length identification. "Q" number is indeterminate until installation. Hold pending final disposition. 2 hold tag(s) applied to nonconforming items.

17. REPORTED BY: Michael J. Moore DATE: 3-22-79

18. VALIDATED BY: for W K Barclay QER DATE: 3-23-79

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

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

~~XXXXXXX~~ Return to vendor for proper length identification marking.

S. Harvey 3-29-79
F. Chmiel 3/27/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
	X		

PROJECT FIELD ENGINEER DATE 3/29/79

PROJECT ENGINEER DATE

PROJ CONSTR QC ENGINEER DATE 4-4-79

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS: Material rejected and returned to vendor on Shipping Notice # 6743

M Moore 8-21-79

26. ACCEPTANCE: Michael J. Moore 8-21-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

1063 256

SHIPPING NOTICE

JOB NO. 7220 SN NO. 72

DATE April 6

CONSIGNED TO McCulloch Industries

ADDRESS 1800 Freeway Blvd, Minneapolis, Minn. 55430

ROUTING UPS

COLLECT PREPAID

SHIP VIA				PURCHASE ORDER NO.	O S & D NO.	ORIGINAL MRR NO.
	AIR EXPRESS			F-31737 Q	NA	AE0-9131
	EXPRESS			MATERIAL ORIGINALLY PURCHASED ON P.O. NO.	VENDOR	
	RAIL FREIGHT			F-31737 Q	Hilti Fastening Systems	
	MOTOR FREIGHT			REASON FOR SHIPMENT:		
	PARCEL POST UPS	XXX		Do not meet marking requirements		
	BEARER			SHIPMENT AUTHORIZED FOR BECHTEL BY: Deb Hickerson Michael J. Moore (Q-List) Deb Hickerson/M. J. Moore		BILL OF LADING ATTACHED

ITEM NO.	QUANTITY	UNIT	COMPLETE DESCRIPTION
1.	100	pcs.	5/8" x 6" Hilti Kwik Bolts
			P.O. 10869-40
			NCR 1995

RETURN AUTHORIZED BY:

AUTHORIZATION NUMBER:

COMPANY

CREDIT TERMS:

SHIPPER
Bechtel
3500 E. Miller Rd.
Midland, MI. 48640

ADDRESS

PER Dean Lawson
P.J. Alverson

ACCEPTED FOR SHIPMENT

DATE 19

CARRIER UPS

PER

SN NO. 7220-6743

1

3230 (5-68)

Bechtel Power Corp., agents for Consumers Power Co.

pkc

1063 257

NONCONFORMANCE REPORT

1. PROJECT NAME: MIDLAND	JOB NO.: 07220			19. NO.: 2003	20. PAGE: 1 OF 2
2. UNIT(S): I	3. DRAWING/PART NO.: N/A	REV	4. ITEM DESCRIPTION: Class I E Cable		5. ITEM LOCATION: Aux.Bldg. Area 3 El.614'
6. P.O. OR SPEC NO.: N/A	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N: N/A REV: N/A SER NO.: N/A	9. SOURCE: Construction	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO: E-4.0 NCR NO: FPE 4.000 (6.7)	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: As per FPE 4.000, Section 6.7 the minimum bend radius shall be six (6) times the cable diameter. Cable number 1AB5529B ~~has been~~ has been installed such that the minimum bend radius has been exceeded, as the cable enters conduit 1AJB003 from cable tray section 1AJB08. The quality of this cable is therefore, indeterminate.

Q-List # 3.003 One (1) Hold Tag Applied Hold For Engineering Disposition

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
R. L. Gibbons	3-23-79	T.B. Barclay	3-26-79

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

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

Installed condition had been corrected to meet requirements of minimum bend radius prior to placing of NCR hold tag. "Use As Is"

W.B. Rogers 5/8/79

23. PROJECT ENGINEERING DISPOSITION: Project engineering has reviewed this NCR. After the batteries have been charged, remove and re-pull subject cable (1AB5529B).

J.L.L. 5/11/79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

R. Miller AEA 5-16-79
PROJECT FIELD ENGINEER DATE

K.R. Bagwell RLC 5-14-79
PROJECT ENGINEER DATE

T.B. Barclay 5-21-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS: Concur With Project Eng. Dispo. Cable #1AB5529B has been Removed and Re-Pulled.
James H. Henderson 8-27-79

26. QC ACCEPTANCE
James H. Henderson 8-27-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

BECHTEL

NONCONFORMANCE REPORT (CONT'D) 1. PAGE 2 OF 2 14. NCR NO 2003

Block 16 Con't.

A conditional release has been granted to allow termination of subject cable and charging of batteries. Corrections or removal can be accomplished without causing damage or contamination to associated plant equipment or structure.

C. Nuss 4/18	4-5-79	W. L. Bouboyiss	4/5/79
PFE	DATE	PFQCE	DATE
L Smith for L.A.D.	4-5-79		
PQAE	DATE		

10098-2

QC-G3-3

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

1063 259

MIDLAND PROJECT

RESIDENT ENGINEER MEMORANDUM

RE- E-1634

DATE 5/14/79

SUBJECT: BEND RADIUS MINIMUM EXCEEDED (CABLE 1ABS529 B)

REF: NCR 2003

AAO COORDINATION: Date 5/14/79 /Time 8:00 /AAO Contact T. SUPPLEE

PROJECT ENGINEERING STATES REMOVE & REPULL CABLE AFTER CHARGING THE BATTERIES.

RESIDENT ENGINEER J. Lak 5/19/79

AAO Review: Group Supervisor _____

Date: _____

X -

NONCONFORMANCE REPORT

1-EAC

1. PROJECT NAME: MIDLAND	JOB NO.: 07220			19. NO. 2010	20. PAGE 1 OF 2
2. UNIT(S): 1	3. DRAWING/PART NO.: M 619 SH. 14	REV: 6/F2	4. ITEM DESCRIPTION: PIPE SPOOL IHBC-109-S-619-14-2		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. PI.10-G/9-14-1 NO. 02-207	12. ASME AUTHORIZED INSPECTION REQ'D (X) YES ( ) NO	13. SKETCH ATTACHED (X) YES ( ) NO	14. Discovered During ( ) Rec'g (X) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FLD	

16. NONCONFORMING CONDITION: SPECIFICATION M-204 PARAGRAPH 5.2.1 STATES IN PART "CARE SHALL BE TAKEN IN HANDLING & INSTALLATION OF PIPING TO PREVENT SURFACE DAMAGE." CONTRARY TO THIS PIPE SPOOL IHBC-109-S-619-14-2 HAS AN ARC STRIKE APPROX. 13" FROM THE 45° ELL. (SEE PAGE 2).

HOLD TAG APPLIED TO Spool Q No. 4192 4.24.79

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Keith J. Roberge	3-27-79	4.29.79 T.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

Rework in accordance with project spec. 7220-G-27Q- procedure spec. IRP-1 Rev. 0 Inspection And Repair of Surface Defects. K.B. Bailey 4/5/79

23. PROJECT ENGINEERING DISPOSITION

ORIGINAL

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
		STP	

J. Gilmartin KRB 4/5/79
PROJECT FIELD ENGINEER DATE

4.10.79 T.B. Barclay 4-11-79
PROJECT ENGINEER DATE

PROJ CONSTR QC ENGINEER DATE

W.D. Kahler 4-11-79
AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Damaged Area Repaired Satisfactorily See PT Report # 7721, in accordance with ED-1 Rev 0.
N.R. Smith 8-9-79

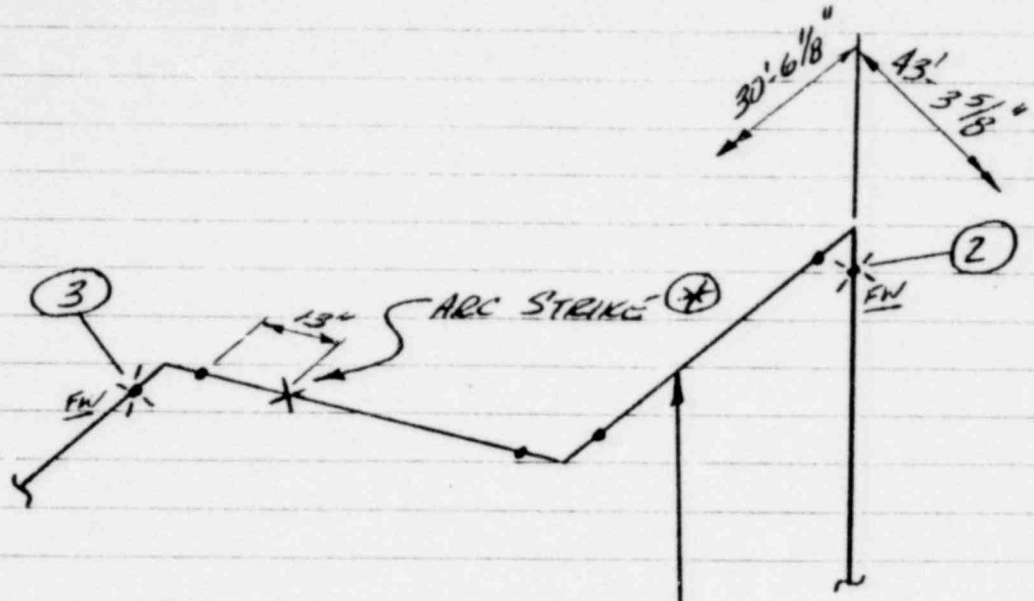
26. QC ACCEPTANCE N.R. Smith 8-9-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR Patrick Legrand DATE 8-9-79

P

1063 261

BLOCK 16 CONT'D.



POOR ORIGINAL

(*) ARC STRIKE CONSISTS OF SEVERAL SMALL SPOTS AND ONE STRIKE APPROX. 1" LONG, ALL STRIKES ARE IN AN AREA OF APPROX. 3" DIAMETER.

FORM 112 (4/78)

X

S/U 2EAC

NONCONFORMANCE REPORT

1. Project Name: MIDLAND	Job No.: C1115			19. No. 2013	20. Page 1 of 2
2. Unit(s): COMT 2	3. Drawing/Part No.: 2-619-3-2 SH3 REV 2	Rev: 2	4. Item Description: LARGE BORE PIPE HANGER	5. Item Location: CONT 2 EL 635	
6. P.O. Or Spec No.: N/A	7. Serial No.: 10"-HBC-103-H2	8. Replacement Part P/N ____ REV ____ SER NO. ____	9. Source: ENG/CONST	10. Contractor/Supplier	
11. Inspection Criteria: ☐ DWG ☒ SPEC ☐ OTHER IR NO. PSE-619-3-1 Rev 1 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: ☐ LIEN ☐ ENG ☐ FLD	

16. Nonconforming Condition:

PARA 5.1.1 OF M326 REV 3 STATES IN PART, "TO THE GREATEST EXTENT POSSIBLE, PIPE SUPPORTS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH PIPE SUPPORT DESIGN DRWGS." SKETCH 2-619-3-2 REV 2 SH 3 EL 635'0" ITEM 5 (ANGLES) TO BE WELDED TO EXISTING W18X50 BEAM WEB. CONTRARY TO THIS, ITEM 5's ARE WELDED TO DECKING SUPPORT ANGLES AS SHOWN IN SKETCH. ALSO ITEM 2 HAS BEEN BURNED TO ACCEPT ITEM 3 ADJACENT CLOSE DIMENSION. AREA IS APPROX 3" LONG EACH SIDE. 4 NOIS 4/79 - ONE HOLD TAG ATTACHED

17. Reported By: [signature] Date: 3-29-79

18. Validated By: [signature] Date: 3-29-79

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

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

Hanger sketch has been revised to reflect item#5 welded to decking support angles. Added stiffener plates to item#2 to strengthen heat warped area per Rev.sub 3/F2 of sketch# 2-619-3-2. Please note item#5 shown on pg.2 of this NCR is actually item#1.

Ron Dunbar 4/3/79
D. Shott 4/3/79

23. Project Engineering Disposition

Project engineering does not agree with the field engineering disposition. The existing 5" x 3" x 1/4" decking support angles are to be trimmed to clear item #2 (W6 x 12 beam) and items #1 (3"x3"x1/8" x 4-1/4" long angle clips). Hanger is to be installed as per ITT Grinnel sketch # 2-619-3-2, Sub. 3 with a new item #2 welded all around to the embed with 1/4" fillet weld. (Per telecon with R. Tomlin of project engineering, 5/11/79.) RE Shuford 5-11-79

24. Disposition Concurrence

REWORK	REJECT	REPAIR	USE AS IS
X			

[signature] PROJECT FIELD ENGINEER 7-19-79 DATE

R Schulman/RLC PROJECT ENGINEER 5-11-79 DATE

[signature] PROJECT CONSTR QC ENGINEER 7-20-79 DATE

AUTHORIZED INSPECTOR DATE

25. Disposition Results

HANGER 2-619-3-2 HAS BEEN REWORKED SATISFACTORY IN ACCORDANCE WITH Block 23.

C R Tugate 8-2-79

26. QC Acceptance

C R Tugate QC ENGINEER 8-2-79 DATE

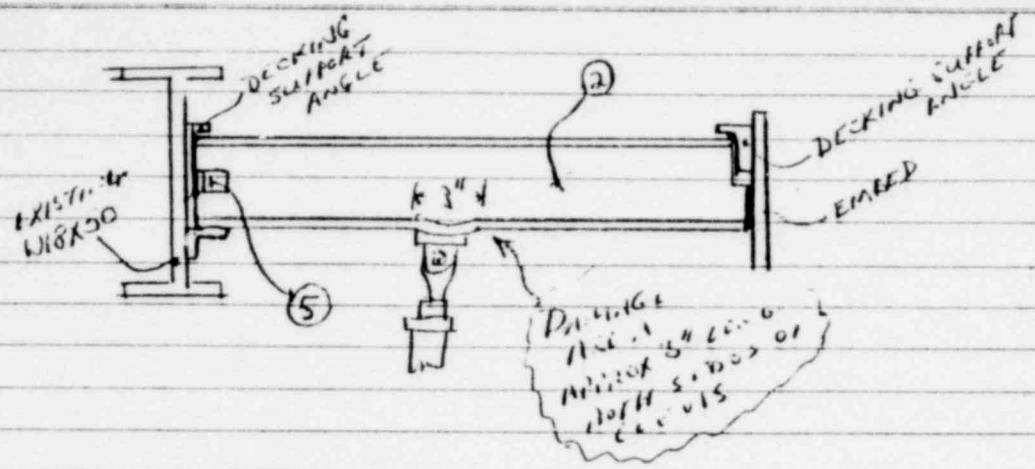
AUTHORIZED INSPECTOR DATE

ORIGINAL

1063 263

BECHTEL

NONCONFORMANCE REPORT (CONT'D) PAGE 2 OF 2 14. NCR NO. 2013



POOR ORIGINAL

10098-2

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

QC-G3-3

MIDLAND PROJECT

RESIDENT ENGINEER MEMORANDUM

RE- M-652

DATE 5-14-79

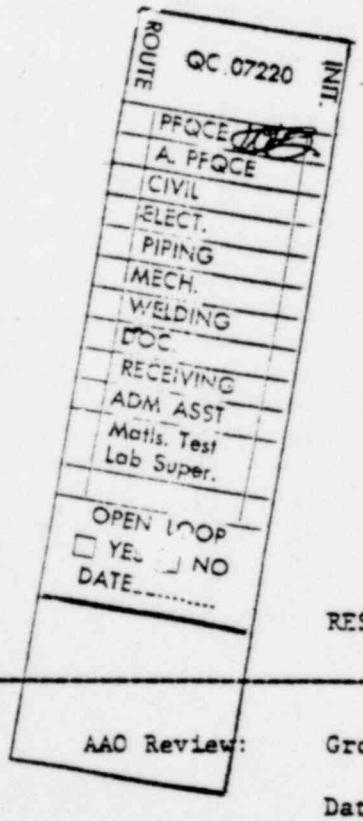
SUBJECT: Large Bore Pipe Hanger

REF: Dwg. 2-619-3-2 Sub 3F1, Serial No. 10"-2HBC-103-H2

AAO COORDINATION: Date 5/14/79 /Time ------ /AAO Contact R. Tomlin

See blocks 23 and 24 of the attached NCR # 2013.

Project engineering disposition: See NCR #2013 attached.



RECEIVED

MAY 14 1979

QUALITY CONTROL
BECHTEL JOB 7220

SIGNATURE

RESIDENT ENGINEER F. Kramm
KLM

AAO Review: Group Supervisor

Date:

X

NONCONFORMANCE REPORT S/U ITKA

1. PROJECT NAME	JOB NO.			19. NO. 2040	20. PAGE 1 OF 2
Midland	07220				
2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION	
I	N/A	13	1D01 Batteries	EL.-614' Aux Bldg.	
6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE	10. CONTRACTOR/SUPPLIER	
N/A	N/A		Construction	N/A	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. E-6.7.1-01 NO. E-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 ( )Client (X)Eng ( )FLD	

16. NONCONFORMING CONDITION: During the day shift termination activities, in Battery Room 1D01, the north rack was shorted out during lug crimping process. The point of contact was on a lug on the east end battery. The short partially melted the lug and spattered the metal on the plastic cover. This resulted in a few minor burn spots on the battery cover top. Night shift, without notifing Quality Control, cleaned the batteries and re-terminated the jumpers. The result of cleaning and termination caused cracks in the top of the (Continued Pg. Two)

17. REPORTED BY Louis D. Wilson (1st Shift) DATE 4/5/79

18. VALIDATED BY DCJ W. J. Barclay for DATE 4/5/79

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

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

Battery in question will be removed and replaced with a new one.

L. Ferguson 4/11/79.

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
X			

C. Miller RVG 4-11-79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

DCJ Barclay 4-23-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS
Damaged Battery has been removed and Replaced by a new one.
W. L. Brown 8/2/79

26. QC ACCEPTANCE
W. M. LaBrosse 8/2/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

1063 266

Block 16 (Continued from page one)

battery near and around the terminal post also scar marks and evidence of paint were on the battery cover. This renders the quality of this cell indeterminate.

Q-List # 3.201 One (1) Hold Tag Applied Hold For Engineering Disposition

X

BECHTEL

NONCONFORMANCE REPORT

Sh 1 EAC

1. Project Name: MIDLAND	Job No.: 07220			19. No. 2047	20. Page 1 of 2
2. Unit(s): CONT 1	3. Drawing/Part No.: 1-619-13-1 SUB 2	Rev: 1	4. Item Description: HANGER # 10"-1HBC-103-H9	5. Item Location: CONT 1 EL 607'6"	
6. P.O. Or Spec No.: N/A	7. Serial No.: N/A	8. Replacement Part P/N N/A REV ___ SER NO. ___	9. Status: CONST	10. Contractor/Supplier: N/A	
11. Inspection Criteria: [X] DWG [X] SPEC [ ] OTHER IR NO. P210-6A-13-3 NO. M326 Rev 3	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:

(1) M326 REV 3 PARA 5.1.1 STATES IN PART, "TO THE GREATEST EXTENT POSSIBLE, PIPE SUPPORTS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH PIPE SUPPORT DESIGN DRWGS." CONTRARY TO THIS AS BUILT CONFIGURATION IS PER ATTACHED SKETCH. (2) M326 REV 3 PARA 3.1 STATES; "ALL MATERIALS SHALL MEET THE REQUIREMENTS OF SPEC M209. M209 REV 7 PARA 10.2 STATES; "THE SELLER SHALL CERTIFY THAT ALL MATERIALS USED IN THE FABRICATION OF HANGERS AND SUPPORTS ARE AS SPECIFIED." CONTINUED PAGE 2

17. Reported By: [signature] Date: 4-8-79

18. Validated By: [signature] Date: 4-9-79

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

22. [X] Field Engineering Disposition [ ] FIELD ENGINEERING RECOMMENDS DISPOSITION TO PROJECT ENGINEERING

1. Drawing revised per DR1 transmittal H-301 which reflects the present configuration of the hgr. (work print was revised & approved on 3/23/79, but did not get transmitted until 4/23/79).
2. Re-work hgr. using Q material.

D. Shaw 6/25/79

Q

23. Project Engineering Disposition

24. Disposition Concurrence

REWORK	REJECT	REPAIR	USE AS IS
X			

[signature] 6/26/79
PROJECT FIELD ENGINEER DATE

[signature] 6-29-79
PROJECT ENGINEER DATE

[signature]
PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. Disposition Results

Hanger reworked in accordance with block 22 disposition. Material is satisfactory

W R. Smith 8-8-79

26. QC Acceptance

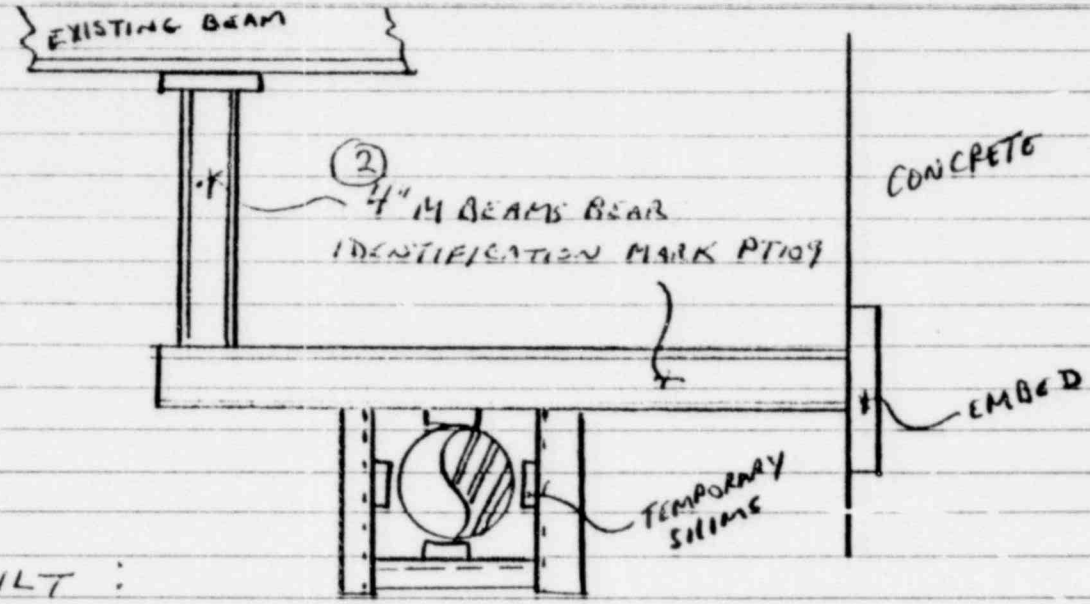
[signature] 8-9-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

1063 268

NONCONFORMANCE REPORT (CONT'D) 1 PAGE 2 OF 2 14. NCR NO. 2047



(1) AS BUILT : CONFIGURATION

BLOCK 16 CONTINUED : CONTRARY TO THIS, ITEMS IDENTIFIED IN ABOVE SKETCH ARE IDENTIFIED WITH # PT109. THIS NUMBER CANNOT BE TRACED TO A CERTIFICATE OF COMPLIANCE. QUEST # 4-171 - 1 HOLD TAG APPLIED

POOR ORIGINAL

10098-2

QC-G3-3

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

X

BECHTEL

s/u IBCA

NONCONFORMANCE REPORT

1. Project Name: MIDLAND	Job No.: 07220			19. No. 2048	20. Page 1 of 2
2. Unit(s): CONT 1	3. Drawing/Part No.: 1-610-1-3 SH 3 FI	Rev: 2	4. Item Description: HANGER 10" ICCA-25-H3	5. Item Location: CONT EL 607'6"	
6. P.O. Or Spec No.: N/A	7. Serial No.: N/A	8. Replacement Part P/N N/A REV N/A SER NO. N/A	9. Source: CONST.	10. Contractor/Supplier: N/A	
11. Inspection Criteria ☑ DWG ☑ SPEC ☐ OTHER IR NO P2-610-1-2 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 PARA 5.1.1 STATES IN PART," TO THE GREATEST EXTENT POSSIBLE, PIPE SUPPORTS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE PIPE SUPPORT DESIGN DRWGS CONTRARY TO THIS: ① SKETCH SHOWS 11.34 OFF SET. THERE IS NO OFFSET. ② DIMENSIONS OF ITEM 2 PLATE DETAILS ARE NOT PER SKETCH ③ SKETCH GIVES LENGTH OF ITEM 4 AS 2'-4". ITEM 4 IS 2'-6" LONG. ④ SKETCH SHOWS C/L OF HANGER TO BE 1' SOUTH OF CORNER OF CONCRETE AND C/L OF U-BOLT TO BE 7-1/2" SOUTH OF CORNER. C/L OF HANGER AND U-BOLT IS 1'-4" S OF CORNER. Q# IS 4102

17. Reported By	Date	18. Validated By	Date
D. Lamb	4-7-79	R. Stanley	4-9-79

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

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

"USE AS IS" The present installation will meet the support requirements of the piping system. D.B. D. Shutt 7/24/79

23. Project Engineering Disposition

THE PRESENT INSTALLATION REDUCES THE TORSIONAL MOMENT ON SUPPORT COMPONENTS AND MEETS THE SUPPORT REQUIREMENTS OF THE PIPING SYSTEM. HANGER DETAIL DRAWING AND LOCATION PLAN TO BE REVISED AS INSTALLED. M. Botros 8/2/79

"USE AS IS" M. Botros 8/2/79

24. Disposition Concurrence

REWORK	REJECT	REPAIR	USE AS IS
			X

PROJECT FIELD ENGINEER — DATE 8/6/79

PROJECT ENGINEER — DATE 8/2/79

PROJECT CONSTR QC ENGINEER — DATE 8-10-79

AUTHORIZED INSPECTOR — DATE

25. Disposition Results

Use as is; Hanger drawing revised to reflect as built condition. Transmittal H 190

N. Scott Smith 8-29-79

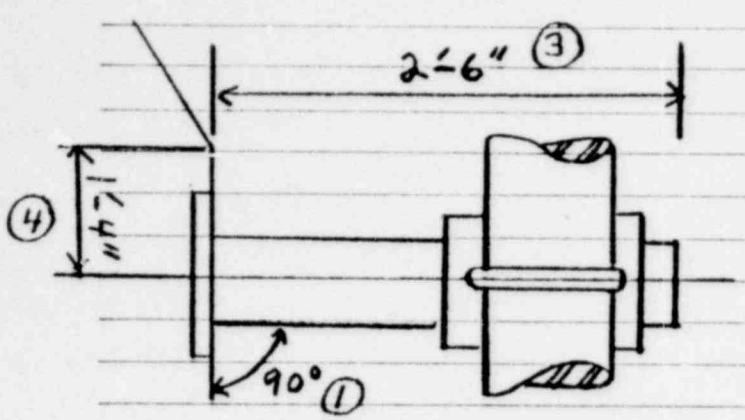
26. QC Acceptance

N. Scott Smith — QC ENGINEER — DATE 8-29-79

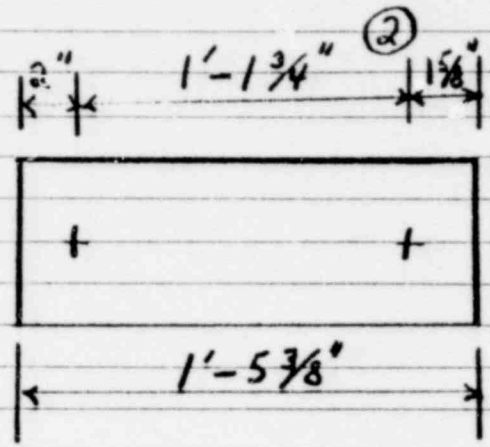
AUTHORIZED INSPECTOR — DATE

POOR ORIGINAL

1063 270



AS BUILT CONDITION



AS BUILT CONDITION.

BLOCK 16 CONTINUED: / HOLD TAG APPLIED

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

1063 27

NONCONFORMANCE REPORT

S/U - Non-testable Unit

1. Project Name	Job No.			19. No.	20. Page
Midland Units 1 & 2	7220			2051	1 of 3

2. Unit(s)	3. Drawing/Part No.	Rev	4. Item Description	5. Item Location
Aux	E-721Q	4	Seismic Tray Support	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	Const.	N/A

11. Inspection Criteria	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
☒ DWG ☐ SPEC ☐ OTHER IR NO. C-304-709W NO. E-721	☐ YES ☒ NO	☒ YES ☐ NO	☐ ASC:G ☒ CONST ☐ TEST	☐ CLIENT ☐ ENG ☒ FLD

16. Nonconforming Condition: Item #1: Channel iron splice 2' west of 7.2, 2' south of G, Elevation 642'. Drawing E-721 Q section A refers to dwg E-716 Q forthis splice, when required. The splice, installed does not conform to DWG E-716 Q section B, detail 1. This condition was reported on DR# W-124 on May 5, 1978.

24. Disposition Concurrence

REWORK	REJECT	REPAIR	USE AS IS
			X

G. Horn AE 7-29-79
PROJECT FIELD ENGINEER DATE

S R Bowman/RLC 7-24-79
PROJECT ENGINEER DATE

A Barclay 8-1-79
PROJECT CONSTR QC ENGINEER DATE

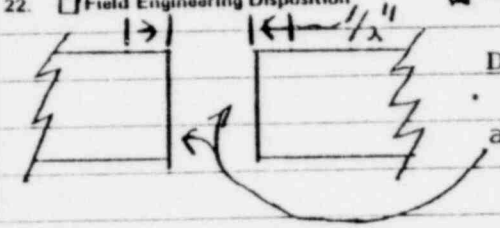
AUTHORIZED INSPECTOR DATE

17. Reported By L. A. Harrison Date 4/6/79

18. Validated By A. Barclay Date 4-11-79

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

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



Disposition as below.

add 1/4" fillet welds to both sides of channel

SEE SHEET ~~TWO~~ (3).

25. Disposition Results

ITEMS 1 & 2 ARE ACCEPTED "AS IS", ITEM 3 HAS BEEN REINSPECTED AND MEETS THE MINIMUM 3/16" WELD REQUIREMENT. ALL ITEMS ARE DOCUMENTED ON QCIR# C304-709W.

L. A. Harrison
8-7-79

23. Project Engineering Disposition Project Engineering has reviewed the above non-conformances and has determined the following:

Item #1: The capacity of the connection of the C5 members to the wall embedment is equivalent to the original design and is acceptable; therefore "use as is".

Item #2: The amount (and weight) of cable tray supported by the subject connection is sufficiently small so that welding only on one side of the tray side rail is sufficient; therefore, "use as is." Continued pg. 2

26. QC Accepted L. A. Harrison 8-7-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

BECHTEL

NONCONFORMANCE REPORT (CONT'D) PAGE 2 OF 3 NCR NO. 2051

Item # 2: Attachment of tray to support 15' west of 7.2, 2' south of G, elevation 640' the tray section shown on DWG E-721 Q, sections 2AKA08 and 2AJB08, are welded only on one side of the rung. Detail 4C on E-703 shows the tray welded to the unistrut on both sides of the rung. This condition was reported on DR # W-152 on July 6, 1978.

Item # 3: Attachment of longititudinal brace to beam 10' north of G and 18' north of G, elevation 643' E-42-sheet 111 detail 1F alternate 2 was used to attach these two braces to the beam. This detail calls for a 5/16" fillet weld. The size of the angle iron and beam makes a 5/16" weld impossible to achieve. The weld also does not conform to AISC specification, section 5 paragraph 1.17.6, which gives a larger weld size than that specified on the drawing. This condition was reported on DR# W-142 on June 6, 1978.

Hold for Engineering Disposition "Q" Number 3.005. 5 hold tags applied.

Block 23. PROJECT ENGINEERING DISPOSITION CONTINUED: Item #3: By Project Engineering inspection, a minimum of 3/16" fillet welds have been used in lieu of the specified 5/16". Project Engineering has evaluated the loading and as-built configuration for this case and finds the 3/16" welds are acceptable and therefore recommends to "use as is", provided the 3/16" weld size is verified. AISC Section 5 paragraph 1.17.6 only specifies the maximum allowable weld size. Welds may be smaller, provided the strength is adequate for the intended loads. The intent of the note on sheet 111 of drawing E-42 is to allow conformance to AISC Section 1.17.6 which limits the maximum size of a weld which can be made on the edge of material. (The East-West location of these connections is approximately 8' east of column line 7.4.)

H.C. Cunningham for 7-23-74

P. Corbett

No drawing revision is required for the above items.

10098-2

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

QC-G3-3

1063 273

continuation of box 22;

Item #2: These are welded on the outside of the tray.
It is imposable to weld oppisite side. "USE AS IS".

Item #3: "USE AS IS".Detail if allows clips greater than ~~XXXX~~ 5 1/2" inches long.
A (6)inch clip was used causing need for undersizing weld.

W. B. Thayer 6/14/79

Start Up Code: Indeterminate

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 7220					19. NO. 2058	20. PAGE 1 OF 1
2. UNIT(S): Common	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: Auxiliary Sub Base Assembly			5. ITEM LOCATION: Whse. # 2	
6. P.O. ORDER NO.: 7220-M-18	7. SERIAL NO.: 02-717-02-NY	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE: Supplier	10. CONTRACTOR/SUPPLIER: Delaval Turbine		
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. R-1,00-9176 NO. M-18 Rev. 4		12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During (X) Rec'g ( ) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FLD		

16. NONCONFORMING CONDITION: Specification 7220-M-18AC requires Quality Verification Documentation as outlined on G-321-D. Contrary to this, Quality Verification Documentation was not received. Hold pending final disposition. "Q" number is indeterminate. 1 hold tag applied to the nonconforming item.

17. REPORTED BY: [signature] DATE: 4/11/79

18. VALIDATED BY: [signature] DATE: 4-12-79

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

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

Procurement Supervisor to obtain documentation.

D. Shaw 4/26/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
DOC			

PROJECT FIELD ENGINEER [signature] DATE 4/26/79

PROJECT ENGINEER DATE

PROJ CONSTR QC ENGINEER [signature] DATE 5-3-79

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Documentation Received AND reviewed, found acceptable 8/21/79 JG

26. QC ACCEPTANCE [signature] 8/21/79

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

1063 275

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO. 7220			19. NO. 2060	20. PAGE 1 OF 2 3
2. UNIT(S): Indeter-minate	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: Instrument and Special Purpose Cable		5. ITEM LOCATION: Foseyville
6. P.O. ~~OR SPEC NO.~~: 7220-E-60	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV 9380 SER NO.	9. SOURCE: Supplier	10. ~~CONTRACTOR~~/SUPPLIER: Rockbestos	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER — IR NO. R-1.00-9394 NO. E-60 Rev. 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 ( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION:

Specification E-60 requires complete Quality Verification Documentation. Contrary to the above, P.O. item S05 on MRR-9380 has incorrect quanity of cable in block 16 of G-321-D, Reel # B3780 was not received, but is included in Quality Verification Documentation for P.O. item S05. P.O. Item S09 on MRR-9380 has an incorrect quanity listed in block 16 of G-321-D, Reel # B-3896 was received, but not included in Quality Verification Documentation.

Continued on Page 2

17. REPORTED BY: D. A. Estes DATE 4/10/79

18. VALIDATED BY: [illegible] 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

Receiving supervisor to ensure required corrections to documentation packages are made. Cables may be used as is while corrections are being made.

W. W. Hagen 7/5/79

23. PROJECT ENGINEERING DISPOSITION: Project engineering concurs with the Field Engineering disposition. Cable may be used as is while corrections to documentation packages are being made.

P. Corbett 7/3/79

23. PROJECT ENGINEERING DISPOSITION: Per Rockbestos request dated 7/25/79, reel #B3896 must be returned to the supplier. P. Corbett 8/10/79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

PROJECT FIELD ENGINEER: [illegible] DATE 7-3-79

PROJECT ENGINEER: R. Schulman DATE 7/3/79

PROJ CONSTR QC ENGINEER: [illegible] DATE 7-3-79

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Documentation Received for Item S05 DE 7/17/79

REEL # B-3896, returned to Vendor on Shipper # 7220-772 DE 8/17/79

Documentation received for Item I07 & I08 and found acceptable DE 8/21/79

Documentation received for Item S09, I09 and found acceptable DE 8/22/79

26. QC ACCEPTANCE: [illegible] 8/22/79

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

Block 16 Continued

No documentation was received on MRR-9394, Purchase Order Items I-08, I-09, I-07.

Below is a list of specific reels contained in each Purchase Order Item Number in question:

Item S05 MRR-9380 Reel #'s B3947, B3157, B3158, B3115, B3114, B3899, B3895

Item S09 MRR-9380 Reel #'s B3959, B3165, B3164, B3166, B3113, B3896, B3961, B3960

Item I-07 MRR-9394 Reel #'s G7509

Item I-08 MRR-9394 Reel #'s G7548

Item I-09 MRR-9394 Reel #'s G7511, G7506, G7503, G7513, G7512

Hold pending final disposition. "Q" number is indeterminate. 23 hold tag(s) applied to nonconforming item(s).

BLOCK 16 CONT:

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

T.B. Barclay 1-12-79
PFQCE DATE

C.J. Boor 1-12-79
PFE DATE

V.A. Dunlap 1-12-79
PQAE DATE

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NONCONFORMANCE REPORT (CONT'D)

20. PAGE 3 OF 3

19. NCR NO 2060

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
DOC #B3896			

PROJECT FIELD ENGINEER — DATE 8-14-79

PROJECT ENGINEER — DATE 8-19-79

PROJECT CONSTR QC ENGINEER — DATE 8-17-79

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

1063 278

X

SG 1ABA

NONCONFORMANCE REPORT

1. Project Name	Job No.			19. No. 2074	20. Page 1 of 13
MIDLAND	07220				
2. Unit(s)	3. Drawing/Part No.	Rev	4. Item Description	5. Item Location	
CONT 1	1-633-1-22 SUB 2	1	HANGER # 6" IERB-13-H16	CONT 1 SE 654	
6. P.O. Or Spec No.	7. Serial No.	8. Replacement Part P/N N/A REV N/A SER NO N/A	9. Source	10. Contractor/Supplier	
N/A	N/A		CONSTRUCTION	N/A	

11. Inspection Criteria: ☒ DWG ☒ SPEC ☐ OTHER — IR NO P110-633-1-9 — 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:

(1) M326 Rev 3 states in Par in Para 3.1, "All materials shall meet the requirements of Spec M209. M209 Rev 7 Para 10.2 states, the seller shall certify that all materials used in the fabrication of hangers and supports are as specified: Contrary to this, Item 3 (channels) are identified as 1 HBD 446. This is new & material. All other items are indeterminate except item 4 (spring cannister) which is traceable to a certificate of compliance. Continued on Page 2

17. Reported By: C.R. Smith — Date: 4-14-79

18. Validated By: T.E. Barclay — Date: 4-16-79

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

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

2) Dwg. was revised on transmittal H-268 which changed it to its present configuration. 1) Rework hanger using Q material.

D. Shaw 6/25/79

23. Project Engineering Disposition

ORIGINAL

24. Disposition Concurrence

REWORK	REJECT	REPAIR	USE AS IS
☒	☐	☐	☐

J.J. Schmaltz for 6/26/79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

T.E. Barclay 6-29-79
PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. Disposition Results

During rework of Hanger in accordance with block 22 disposition, Hanger was in process being removed, Item 3 AT Number was found and traceable, Material is Satisfactory. M.M. 20852

~~W.R. Smith~~ C.R. Smith 8-8-79 8-8-79

The hanger has been Reworked in accordance (SEE Continuation Sheet) Pg. 3

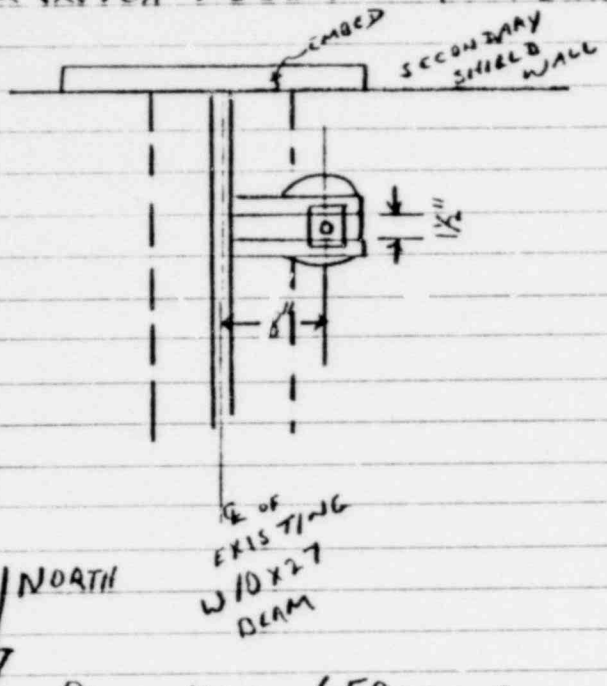
28. QC Acceptance

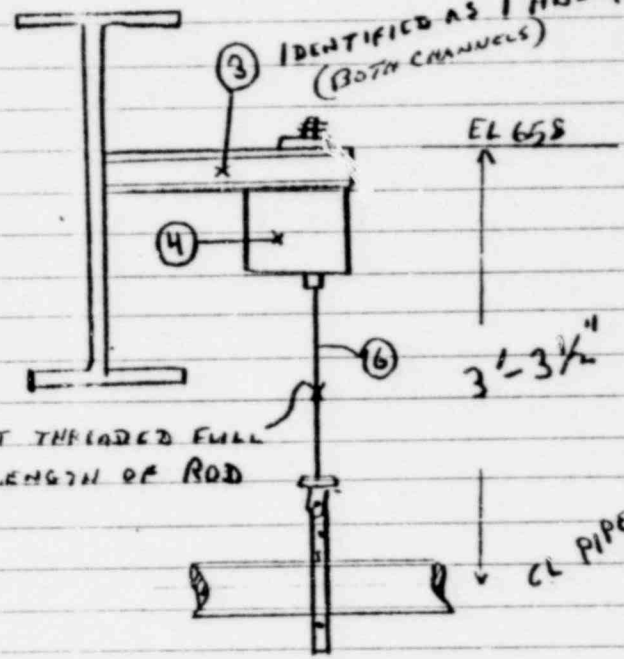
QC ENGINEER 6-24-79 DATE

AUTHORIZED INSPECTOR DATE

1033 279

BLOCK 16 CONTINUED: (1) M326 REV 3 PARA 5.1.1 STATES IN PART, "TO THE GREATEST EXTENT POSSIBLE, PIPE SUPPORTS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH PIPE SUPPORT DESIGN DRAWINGS." CONTRARY TO THIS, AS BUILT CONDITION IS NOT PER SKETCH 1-633-1-22 REV 1 SHT 2. Q NUMBER IS 4311. I HOLD TAC APPLIED





PLAN VIEW EL 658 - AS BUILT CONFIGURATION VIEW LOOKING SOUTH

SKETCH SHOWS HANGER ATTACHED TO EMBED PLATE NORTH FACE OF SECONDARY SHIELD WALL

POOR ORIGINAL

NONCONFORMANCE REPORT (CONT'D) 20PAGE 3 OF 3 19NCR NO 2674

Block 25 (Disposition Results):
with Transmittal #-268. All the hanger parts are "Q" material.

C.L. Fugate 8-24-79

POOR ORIGINAL

X.

P

S/U 2EAC

NONCONFORMANCE REPORT

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO.: 2080	20. PAGE 1 OF 2
2. UNIT(S): II	3. DRAWING/PART NO.: 2-619-2-15 SUB 3F2	REV: 2	4. ITEM DESCRIPTION: HNGR 10"-2HBC-110-H15	5. ITEM LOCATION: CONT. II EL. 631'0"	
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: WOSTR	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER	IR NO. P-2,10-612-2-7 NO. M-326 Rev 3	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( )Rec'g (X)Const ( )Test	15. Equip Furnished By ( )Client (X)Eng ( )FLD

16. NONCONFORMING CONDITION:

SPEC 7220-M-326 REV. 3 PARA. 5.1.1 STATES IN PART ... TO THE GREATEST EXTENT POSSIBLE, PIPE SUPPORTS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE PIPE SUPPORT DESIGN DWG.... PARA. 5.3.1 STATES IN PART " THE FOLLOWING DEVIATIONS IN THE HORIZONTAL DIRECTIONS ARE ... CONT'D ON PAGE 2 OF

17. REPORTED BY: [signature] DATE: 4-16-79

18. VALIDATED BY: N/A 4.17 [signature] DATE: 4-17-79

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

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

This off set does not significantly affect the load carrying capability of the lug. Field recommends "USE AS IS".

D. Short 6-18-79

23. PROJECT ENGINEERING DISPOSITION

THE OFF SET OF BOTTOM LUG AS SHOWN ON PAGE 2 OF 2 OF THIS NCR WILL HAVE AN INSIGNIFICANT EFFECT. THE STRESSES IN THE LUG AND WELD ARE WELL BELOW ALLOWABLE STRESSES. HOWEVER, THE HANGER SKETCH NO. 2-619-2-15 WILL BE REVISED TO SHOW SUCH AN OFF SET, " USE AS IS".

Monir Bottes 6/28/79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

[signature] PROJECT FIELD ENGINEER DATE 7/2/79

[signature] PROJECT ENGINEER DATE 6/29/79

6.29 [signature] PROJ CONSTR QC ENGINEER DATE 7-6-79

AUTHORIZED INSPECTOR DATE

25 DISPOSITION RESULTS

SKETCH 2-619-2-15 REV 2 SUB 3F3 INDICATES LOCATION OF LUGS TO BE 89.9° ± 10°

[signature] 6.15.79

[signature] 8-13-79

26. QC ACCEPTANCE [signature] 8.14.79

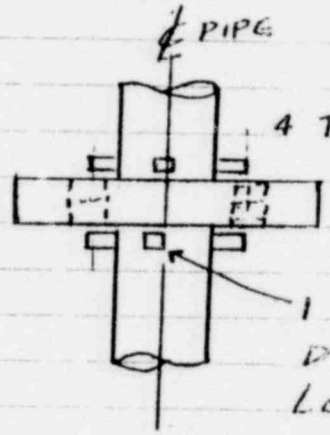
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

Block 16 CONT'D

PERMITTED FOR PIPE ATTACHMENTS WHEN NO GENERAL OR SPECIFIC TOLERANCES OR DEVIATIONS ARE INDICATED OR REFERRED TO ON THE COMPONENT PIPE SUPPORT DWGS ASSOCIATED WITH THE PIPE ATTACHMENT - - - ANGLES ± 2° MAX. - - - CONTRARY TO SPEC M-326, HANGER 10"-2HBC-110-H15 HAS WELDED LUG ATTACHMENT IMPROPERLY INSTALLED PER SKETCH. SEE BELOW



ELEVATION

POOR ORIGINAL

1 Hold Tag Applied
Q-L ST # 4-211

Start Up System: B & W Equipment

NONCONFORMANCE REPORT

2084

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. ~~2083~~	20. PAGE 1 OF ~~2~~ 3
2. UNIT(S): 1	3. DRAWING/PART NO.: QRM-48-1239-02	REV: N/A	4. ITEM DESCRIPTION: Fuel Transfer System		5. ITEM LOCATION: Warehouse # 1
6. P.O. OR SPEC NO.: M-1.29	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. R-2.20-32 NO. M-1.29		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:

Quality Control Instruction R-~~2.00~~ 2.20 dtd 4.18.79, Activity Task 2.0 states in part, B & W Quality Requirements Matrix will identify the documentation required in the QA Data Package. Contrary to this requirement, the B & W QRM 48-1239-02 indicates a Certificate of Conformance is required for the painting of the Fuel Transfer System Assy. This document is not contained in the Data Package. Hold for disposition. "Q" list number is indeterminate. 1 hold tag applied.

17. REPORTED BY: R. Valentine DATE: 4.18.79

18. VALIDATED BY: W.S. Barkhuff DATE: 4/19/79

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 documentation.

D. Shot 5/2/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
DOC			

J.J. Gilmartin SQB 5/7/79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

(VA) [illegible] 5-10-79
PROJ CONSTR [illegible] ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Required documentation received.

R. Valentine
8.3.79

26. QC ACCEPTANCE

R. Valentine 8.3.79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

1063 284

Stearns-Roger
INCORPORATED

ENGINEERING • CONSTRUCTION

February 10, 1978

Babcock & Wilcox Company
P. O. Box 1260
Lynchburg, Virginia 24505

Attn: Mr. C. W. Arthur, Jr.

Subject: NSS-13
B-37890
Midland II Fuel Transfer System

Gentlemen:

This is to certify that the Fuel Transfer System Control Consoles have been prime painted in accordance with SR-PP-551, which has been approved by B & W as meeting the requirements of B & W Specification 08-1072000003-04, Paragraph 10.1.2.

Very truly yours,

STEARNS-ROGER INCORPORATED

G. C. Pratt
Q. A. Manager
Manufacturing Division

GCP:lk

POOR ORIGINAL

1063 285

NCR 2084 Roy 82
KEB 5-11-79

-X-

Corrected Copy

NONCONFORMANCE REPORT

S/U Non Testable Unit

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
Midland	07220	2096	1 OF 2

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
I & II	E-536	19	Pull Boxes NEMA Type 1A	Aux. Bldg. Elev. 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	IR NO.	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
(X) DWG ( ) SPEC ( ) OTHER	See Below NOe E-42 & E-46	( ) YES (X) NO	( ) YES (X) NO	( )Rec'g (X)Const ( )Test	( )Client ( )Eng (X)FLD

16. NONCONFORMING CONDITION: The following Pull Boxes are installed as NEMA Type 1A as per E-46, Revision 23, and E-42, Revision 39, sheet 13. These boxes are listed on the QTS as complete and at the present time each box had four (4) holes 1/8" in diameter in them not being used and they are not repaired as per E-42 DCN 63 page 2, "Pull boxes that have knock-outs removed or extra holes placed in them are to be repaired per industry standards with parts per manufacturers catalogs, applicable to the NEMA classification of the box or metal plate seat that assures (con't pg two)

Installed per E-46 Rev 23 with DCN 5-7-79 Having per E-42 Rev 39 DCN 5-7-79

17. REPORTED BY [signature] DATE 4-23-79

18. VALIDATED BY [signature] DATE 5-24-79 5/18/79

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

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

Knockouts and/or holes to be repaired per E-42.

[signature] 5/14/79

23. PROJECT ENGINEERING DISPOSITION Project engineering concurs with the field disposition to repair knockouts and/or holes per E-42.

[signature] 5/17/79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
X			

[signature] 5-19-79
PROJECT FIELD ENGINEER DATE

[signature] 5-17-79
PROJECT ENGINEER DATE

[signature] 5-21-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Box BJ10L Repaired CAC 7/2/79
All boxes repaired with Raco knock out plugs
All Hold Tags Removed
QC Squires 8-18-79

26. QC ACCEPTANCE [signature] 8-18-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

1063 286

Block 16 Continued (from page one)

a conformance to the NEMA rating." These boxes are located on elevation ~~584'~~ 589' between lines 5.6 and 7.8 and on H Line Wall, the boxes are as follows;

	1BJ101	1BJ102	1BJ103	1BJ104	1EJ105	1EJ106
~~1bJ~~	1AJ107	1AJ108	1AJ110	1AJ111	2AJ301	2AJ302
	1EJ113	2EJ306	2AJ304	2AJ305	2EJ308	

Q-List Number 3.006 ~~Seventeen~~ (16) clamps Hold Tags Applied Hold For Engineering Disposition

Corrected Copy

MIDLAND PROJECT

RESIDENT ENGINEER MEMORANDUM

RE- E-1653

DATE 5/18/79

SUBJECT: PULL BOX NEMA TYPE 1A REPAIR

REF: NCR 2096

AAO COORDINATION: Date 5/17/79 /Time 2:00 /AAO Contact T. SUPPLEE

PROJECT ENGINEERING HAS DISPOSITIONED TO REPAIR KNOCKOUTS AND/OR HOLES, IN THE REFERENCED PULL BOXES, PER E-42.

RESIDENT ENGINEER J. Lake 5/18/79

AAO Review: Group Supervisor _____

Date: _____

Start Up Code: Indeterminate

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO. 2115	20. PAGE 1 OF 2
Midland	7220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
Indeter-minate	N/A	N/A	Bolts, Nuts, Washers and Recessed Pins w/nuts	Q.C. Hold, Whse. #2

6. P.O. ~~DESPEC~~ NO.	7. SERIAL NO.	8. REPLACEMENT PART P/N N/A REV SER NO.	9. SOURCE	10. CONTRACTOR/SUPPLIER
7220-F-3136 Rev. 5	N/A		Supplier	Chicago Bridge and Iron Company

11. INSPECTION CRITERIA	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG (X) SPEC ( ) OTHER IP NO. R-1.00-9330 NO. C-233 Rev.14	( ) YES (X) NO	( ) YES (X) NO	(X) Rec'g ( ) Const ( ) Test	( ) Client ( ) Eng (X) FLD

16. NONCONFORMING CONDITION:

Purchase Order 7220-F-3136 Rev. 5 requires material to be in accordance with Specification 7220-C-233 Rev. 14. Specification C-233, Para. 5.10.5, states in part: "Handling, shipping and storage shall be in a manner that shall avoid damage to the material." Contrary to the above, the following list of material was received partially or entirely rust covered:

Continued on Page 2

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Rick G Montrem	4-25-79	K Barclay	4-26-79

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

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

Rework: rust to be removed by power brush on all items. ~~except the 2-1/4" and 4" pins. Rust to be removed from the pins using erokus cloth and oil.~~

S. Harvey 8/24/79

S. Harvey 5-24-79

Paul Bogues 5/24/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
X			X

PROJECT FIELD ENGINEER — DATE 5/24/79

PROJECT ENGINEER — DATE 5-25-79

PROJ CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

Rework Completed as required.

R Valentini 8-30-79

26. QC ACCEPTANCE R. Valentini 8-30-79

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

ORIGINAL

Lic. Continuation sheet

1063 289

Block 16 Continued

Material Description	Quantity	CB & I Mark Number
5/8" x 1 3/4" Bolt	4	BS-708 L-13
5/8" x 1 3/4" Bolt	4	BS-707 L-13
1" x 4" Bolt	48	BS-407 L-6
7/8" x 3" Bolt	36	BS-417 L-16
7/8" x 3" Bolt	36	BS-532 L-15
5/8" - 11 Nut	4	BS-708 L-14
5/8" - 11 Nut	4	BS-707 L-14
7/8" - 9 Nut	36	BS-417 L-18
7/8" - 9 Nut	36	BS-532 L-18
5/8" Washer	4	BS-708 L-15
5/8" Washer	4	BS-707 L-15
7/8" Washer	36	BS-417 L-17
7/8" Washer	36	BS-532 L-17
4" Pin w/nut	2	BS-415 L-10
4" Pin w/nut	2	BS-534 L-10
2 1/4" Pin w/nut	2	BS-549 L-18

Hold for engineering disposition. "Q" number is indeterminate. 7 hold tag(s) applied to the nonconforming material.

NONCONFORMANCE REPORT (CONT'D) 20. PAGE 3 OF 3 19. NCR NO. 2115

24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS
X			

8-24-79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

8-29-79
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

24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

X-

OEAA 2PKD
S/L 1SAB 2PPB
2PPA

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.			19. NO. 2151	20. PAGE 1 OF 1
Midland	07220				
2. UNIT(S) I & II	3. DRAWING/PART NO. E-37	REV 26	4. ITEM DESCRIPTION Cable Essex	5. ITEM LOCATION Posey Rd. Lay Dn./Combo	
6. P.O. OR SPEC NO. E-22Q	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE Vendor	10. CONTRACTOR/SUPPLIER Essex	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. N/A NO. E-22	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( )Rec'g (X)Const ( )Test	15. Equip Furnished By ( )Client (X)Eng ( )FLD	

16. NONCONFORMING CONDITION:

Specification E-22, paragraph 6.3.2, states in part; "Conductors shall have a covering of colored components with tracers", contrary to this requirement 2C/#6 Essex Cable has no identification marker ~~on each~~ conductors. The reels are: Cable Code B-30 601, ~~602~~, 604, ~~605~~, ~~606~~.

E

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

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
D L Clayton	5/3/79	DCL Barclay	5-3-79

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

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

Field to ring out and identify using color coded tape.

D L Clayton 6/11/79

23. PROJECT ENGINEERING DISPOSITION Project engineering concurs with field disposition to ring out and identify using color coded tape.

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
		X	

PROJECT FIELD ENGINEER R Schulmeyer/RLA DATE 6/21/79
PROJECT ENGINEER DCL Barclay DATE 7-6-79
PROJ CONSTR QC ENGINEER DATE
AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Concur with Field Eng. and Project Eng. Disposition.
James H Kinderman 8-27-79

26. QC ACCEPTANCE James H Kinderman 8-27-79
QC ENGINEER DATE
AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

MIDLAND PROJECT

RESIDENT ENGINEER MEMORANDUM

RE- E-1715

DATE 6/21/79

SUBJECT: CABLE

REF: NCR 2151

AAO COORDINATION: DATE 6/21/79 /Time 2:00 /AAO Contact T. KOVACH

FIELD ENGINEERING TO RING OUT CONDUCTORS & IDENTIFY USING COLORED TAPE.

RESIDENT ENGINEER J. Lahr 6/21/79

AAC Review: Group Supervisor_____

Date:_____

NONCONFORMANCE REPORT

S/U - Non-Testable Unit

1. PROJECT NAME: Midland	JOB NO. 7220			19. NO. 2172	20. PAGE 1 OF 1
2. UNIT(S): Indeterminate	3. DRAWING/PART NO.: 6-3/4 AW2-SS	REV: N/A	4. ITEM DESCRIPTION: 12 EA. Socket Weld Adapters 6-3/4 AW2-SS		5. ITEM LOCATION: Warehouse # 1
6. P.O. 7220-F-27952 Rev. 2	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N ____ REV ____ SER NO. N/A	9. SOURCE: Supplier	10. CONTRACTOR/SUPPLIER: Forberg Scientific	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC (X) OTHER IR NO. R-1.00-4373 NO. J-710 Rev. 2	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During (X)Rec'g ( )Const ( )Test	15. Equip Furnished By ( )Client ( )Eng (X)FLD	

16. NONCONFORMING CONDITION:

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

17. REPORTED BY: Michael J. Moore DATE: 5-9-79

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

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

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

Procurament to obtain propar Documantation.

R. Gruber 7-9-79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
RE			

PROJECT FIELD ENGINEER DATE 7/9/79

PROJECT ENGINEER DATE

PROJ CONSTR QC ENGINEER W Barclay DATE 7-10-79

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Documentation received and reviewed MJM 9-22-79

26. QC CERTIFICATION: Michael J. Moore 9-22-79

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

1063 294

X

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

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

dlab

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO. 07220					19. NO. 2183	20. PAGE 1 OF 2
2. UNIT(S): I & II	3. DRAWING/PART NO.: ~~B-52 B-533~~ E-532	REV: 13	4. ITEM DESCRIPTION: Motor Control Centers 1B56,1B24 2B24, 2B56, 2B23, 2B55, 1B55, 1B23			5. ITEM LOCATION: Aux. Building Elv. 614'	
6. P.O. OR SPEC NO.: 7220 E7 Rev16	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE: Engineering ~~Construction~~	10. CONTRACTOR/SUPPLIER: N/A		
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. See Block 16 NO. E-7 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		

E

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

17. REPORTED BY: A. M. Lebovich DATE: 5/14/79

18. VALIDATED BY: D. W. Barclay DATE: 5-14-79

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

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

USE AS IS

Systems installed per design drawings. Project Engineering to develop maintenance procedure to adapt to present construction.

W. B. Hagen 5/18/79
QA

23. PROJECT ENGINEERING DISPOSITION: Use as is. Inspection and maintenance access is possible on the following basis:

a) A design change has been issued to raise the tray blocking access to the top compartments. The main bus is now accessable for inspection from the top.

b) Inspection of the vertical busses, bus braces etc. can be accommodated from the front by removing the controller units, shelves, and bus barrier.

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

W. Miller 8-24-79
PROJECT FIELD ENGINEER DATE

LHC [illegible] 8-24-79
PROJECT ENGINEER DATE

D. W. Barclay 8-24-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS
"USE AS IS" Disposition
A.M. Lebovich 8/31/79

26. QC ACCEPTANCE
A. M. Lebovich 8/31/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

1063 295

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

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

Block 16 continued: All motor control centers mentioned in this NCR are conditionally ~~mentioned~~ released for cable pulling and termination, corrections or removal can be accomplished without causing damage or contamination to associated plant equipment or structure.

PFE 5/18/79

RCA WADeutsch 5-18-79
PFQCE

QC [illegible] 5-18-79
PQAE

Block 23 continued:

[signature] 8-22-79
Resp Eng Date

[signature] 8/22/79
EGS Date

N/A
PQA Date

Start Up Code: [redacted]
Indeterminate

NONCONFORMANCE REPORT

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

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

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

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

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

1 hold tag applied to nonconforming item.

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

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

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

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

Procurment supervisor to obtain required documentation.
Cable may be used as is while documentation is being obtained.

P.W. Solomon
5/29/79

23. PROJECT ENGINEERING DISPOSITION The lack of documentation occurs because the supplier attaches one complete document package to only one reel for each size and type. All the reels are not necessarily shipped together. Consequently the reels of the same size and type not shipped with the reel accompanying the document package will not have documentation with them. Q.C. receiving will monitor the shipments until all reels released have been accounted for. Use-as-is.

[signature] 6/1/79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

[signature] 6/19/79
PROJECT FIELD ENGINEER DATE

S.R. Basmaji/RC 6-1-79
PROJECT ENGINEER DATE

[signature] 6-21-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Item Cable Code I-18 Reel # 4943 Returned to vendor on shipper # 7220-7722 DE 8/17/79

26. QC ACCEPTANCE [signature] 8/17/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

1063 297

23. PROJECT ENGINEERING DISPOSITION:

Per Rockbestos request dated 7/25/79, reel # B4943 must be returned to the supplier. P. Corbett 8/10/79

NONCONFORMANCE REPORT (CONT'D) 20. PAGE 3 OF 3 19. NCR NO. 2202

24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS
DOC	B4943		

PROJECT FIELD ENGINEER — DATE 8-14-79

PROJECT ENGINEER — DATE 9-10-79

PROJECT CONSTR QC ENGINEER — DATE 8-17-79

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

MIDLAND PROJECT

RESIDENT ENGINEER MEMORANDUM

RE- E-1678

DATE 6/4/79

SUBJECT: INSTRU + SPEC. PURPOSE CABLE

REF: NCR 2202

AAO COORDINATION: Date 6/1/79 /Time 9:00 /AAO Contact J. KOVACH

THE DOCUMENTATION IS BEING MONITORED BY Q.C. TO ENSURE ALL REELS ARE ACCOUNTED FOR. USE AS IS.

RESIDENT ENGINEER J. Lah 6/4/79

AAO Review: Group Supervisor _____

Date: _____

MIDLAND PROJECT

RESIDENT ENGINEER MEMORANDUM

RE- E-1831

DATE 8/10/79

SUBJECT: CABLE DOCUMENTATION

REF: NCR 2202

AAO COORDINATION: Date 8/10/79 /Time 9:00 /AAO Contact J. KOVACH

PER ROCKBESTOS REQUEST DATED 7/25/79 REEL # B4943 MUST BE RETURNED TO THE SUPPLIER.

RESIDENT ENGINEER P. Orbett

8/10/79

AAO Review: Group Supervisor _____

Date: _____

0

5/4 2-EAC

NONCONFORMANCE REPORT

1. PROJECT NAME: MIDLAND	JOB NO.: 7220				19. NO. 2216	20. PAGE 1 OF 1
2. UNIT(S): CONT #2	3. DRAWING/PART NO.: 2-619-2-8, REV 1, SH 2/4	REV: 1	4. ITEM DESCRIPTION: HANGER 10"-2HBC-110-H8		5. ITEM LOCATION: CONT #2 ELEV 607'	
6. P.O. OR SPEC NO.: N/A	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE: CONSTRUCTION	10. CONTRACTOR/SUPPLIER: N/A		
11. INSPECTION CRITERIA: [X] DWG [X] SPEC [ ] OTHER — IR NO. NO M326 REV 3	12. ASME AUTHORIZED INSPECTION REQ'D: [ ] YES [X] NO	13. SKETCH ATTACHED: [ ] YES [X] NO	14. Discovered During: [ ] Rec'g [X] Const [ ] Test	15. Equip Furnished By: [ ] Client [X] Eng [ ] FLD		

16. NONCONFORMING CONDITION: SPEC M326, REV 3, STATES IN PART; "TO THE GREATEST EXTENT POSSIBLE, PIPE SUPPORTS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH PIPE SUPPORT DESIGN DRAWINGS." CONTRARY TO THE ABOVE, PRIOR TO RECEIVING A REDLINE, THE STANCHIONS WELDED TO SPOOL 2HBC-110-6Q-2-11 ARE AS BUILT WITH A PARTIAL PENNATRATION WELD, WHERE AS THE SKETCH CALLS FOR A FULL PENNATRATION WELD QC# 4,191 2 Q.C. HOLD TAGS APPLIED ON STANCHIONS

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

18. VALIDATED BY: [signature] DATE: 5-24-79

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

22. DRJ 6-29-79 [X] Field Engineering Disposition [X] Field Engineering Recommended Disposition to Project Engineering

~~Rework~~: USE AS-IS: DRJ 6-29-79

Transmittal LH-344 on 5/3/79 originally called for a full penatration weld. Field began work on the stanchions on 5/22/79 and it was determined (after some welding had been done) they were not getting full penetration. Field informed resident engineer of problem and asked for a partial penetration weld which was sanctioned on transmittal LH-423. This meets requirements of ASME Sec. III, Article NB 4433.

23. PROJECT ENGINEERING DISPOSITION

PROJECT ENGINEERING CONCURS WITH THE FIELD ENGINEERING DISPOSITION, SINCE PARTIAL PENETRATION WELD MEETS THE REQUIREMENTS OF ASME SEC-III, SUBSECTION ND, ARTICLE 4433. HANGER DETAIL DRAWING TO BE REVISED IN ACCORDANCE WITH APPROVED WORK PRINT DATED 5/23/79, HENCE "USE AS IS" D. Shot 6/25/79 D. Shot 6/29/79 M. Bothes 8/2/79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

PROJ. FIELD ENGINEER [signature] DATE 6/26/79

PROJECT ENGINEER [signature] DATE 8/2/79

PROJ CONSTR QC ENGINEER [signature] DATE 8-10-79

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

DRAWING INDICATES AS BUILT CONDITION.

[signature] 6/29/79

POOR ORIGINAL

26. QC ACCEPTANCE [signature] 8-14-79

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

1063 302

Start Up System: Indeterminate

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO.: 2219	20. PAGE 1 OF 1
2. UNIT(S): Indeter-minate	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: 20-1" 3000 # Threaded FSS Caps	5. ITEM LOCATION: Warehouse # 1	
6. SPEC NO.: M-305 Rev. 4	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV ____ SER NO. ____	9. SOURCE: Supplier	10. SUPPLIER: McJunkin Corporation	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER	IR NO. B-1,00-9622 NO. M-305 Rev. 4	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During (X) Rec'g ( ) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION:

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

17. REPORTED BY: R. Valentini — DATE: 5-25-79

18. VALIDATED BY: J.B. Barclay — DATE: 5-25-79

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 CORRECTED DOCUMENTATION

Skip Schmidt 8/7/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
DOS			

PROJECT FIELD ENGINEER: G.S. Moore — DATE: 8-7-79

PROJECT ENGINEER — DATE

PROJ CONSTR QC ENGINEER: J.B. Barclay — DATE: 8-7-79

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

DOCUMENTATION RECEIVED AND REVIEWED 8-7-79 RMJM

POOR ORIGINAL

26. QC ACCEPTANCE: G.S. Moore — DATE: 8-7-79

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

1063 303

S/U 2-EAD

NONCONFORMANCE REPORT

1. Project Name: MIDLAND — Job No.: 7220 — 19. No. 2226 — 20. Page 1 of 2

2. Unit(s): II — 3. Drawing/Part No. GRINNELL DLG: 2-619-4-18 SUB 4 FZ. — Rev: 3 — 4. Item Description: HNGR 10"-2HBC-95-H7 — 5. Item Location: EL. 623'-3" UNIT II AUX BLDG

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

11. Inspection Criteria: ☐ DWG ☒ SPEC ☐ OTHER — IR NO. P-210-619-4-1 — NO. M-326 REV. 3 — 12. ASME AUTHORIZED INSPECTION REQ'D: ☐ YES ☒ NO — 13. SKETCH ATTACHED: ☐ YES ☒ NO — 14. Discovered During: ☐ REC'G ☒ CONST ☐ TEST — 15. Equip Furnished By: ☐ CLIENT ☐ ENG ☒ FLD

16. Nonconforming Condition:

SPEC M-326 PARA. 3.2 STATES IN PART "IF THE ORIGINAL IDENTIFICATION MARKINGS ARE CUT OFF OR THE MATL IS DIVIDED, THE MARKS SHALL BE ACCURATELY TRANSFERRED TO THE PARTS OR A CODED MARKING SHALL BE USED TO ASSURE IDENTIFICATION OF EACH PIECE OF MATL..." CONTRARY TO SPEC, 2 PCS (ITM 5 PER SKETCH) OF... CONT'D PAGE 2

17. Reported By: [signature] — Date: 5-22-79

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

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

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

Grinnell hanger sketch 619-4-18 will be reworked to replace both item 2 pieces with Q-listed 2"x2"x1/4 structural tubing.

D. Shaw 6-18-79

23. Project Engineering Disposition

24. Disposition Concurrence

REWORK	REJECT	REPAIR	USE AS IS
X			

[signature] PROJECT FIELD ENGINEER — DATE 6/18/79

PROJECT ENGINEER — DATE

[signature] PROJECT CONSTR QC ENGINEER — DATE 6-21-79

AUTHORIZED INSPECTOR — DATE

25. Disposition Results

2"x2"x1/4" T.S. HT. # W30414 INSTALLED. "Q" STAMP APPLIED. (2 PCS) [signature] 8-23-79

HANGER SATISFACTORY [signature] 8-23-79

26. QC Acceptance

[signature] QC ENGINEER — DATE 8-24-79

AUTHORIZED INSPECTOR — DATE

POOR ORIGINAL

1033 304

BLOCK 16 CONT'D

... 2"x2"x¼" STRUCTURAL TUBING MARKED HT# 794209 BY FIELD HAS BEEN INSTALLED. REVIEW OF FIELD PURCHASE ORDERS AND DOCUMENTATION REC'D INDICATES NO 2"x2"x¼" T.S. WITH THIS HT# 794209 HAS BEEN REC'D BY FIELD.

"Q" Nº 4.191

POOR ORIGINAL

D

E

S/U OEAA

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO. 2231	20. PAGE 1 OF 1
Midland	07220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
I & II	E-599	5	Service Water - Pumps OP-75A,75C, & 75E	S. vice Water - Bldg.

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
FPE 2.000 Rev. 3	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. E-6.0,168,169 NO.170 FPE 2.000 Rev. 3	( ) YES (X) NO	( ) YES (X) NO	( )Rec'g ( )Const XX Test	( )Client XX Eng ( )FLD

16. NONCONFORMING CONDITION:

Polarization values dated 5/14/79, for the Motors on service water pumps are as ~~follows~~ Amd 6/5/79 follows; Pump"OP-75A(1.4)", Pump"OP-75C(1.4)", Pump"OP-75E(1.428)". To conform to FPE 2000, Revision 3, Page 5, Table I, "Polarization index should be 2.0 or greater (Motors 25HP or greater)". These motors are 1 K.I.P.

Q-List 3.001 Three (3) Hold Tags Applied Hold for Engineering Disposition.

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
A.W. Labowicz	June 5, 1979	D.L. Clayton	6-5-79

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

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

RE-MEGGER MOTORS WITH BIDDLE SERIES I MEGGER TO OBTAIN MEGGER READINGS ABOVE 50KMΩ

D.L. Clayton 6-14-79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

W. Miller 6-14-79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

D.L. Barclay 6-19-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Motors have been Re Megged Acceptable readings have been obtained.

A.W. Labowicz 8/17/79

POOR ORIGINAL

26. QC ACCEPTANCE

A.W. Labowicz 8/17/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

1063 306

Start Up Code: Indeterminate

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO. 7220				19. NO. 2245	20. PAGE 1 OF 2
2. UNIT(S): 1 & 2	3. DRAWING/PART NO.: 7220-M-131-17-1	REV: N/A	4. ITEM DESCRIPTION: 19 Ea. 1" MCC-Dia Valves		5. ITEM LOCATION: Warehouse # 1	
6. P.O. OR SPEC NO.: 7220-M-131-AC Rev. 2	7. SERIAL NO.: 51146-4-1 Thru 51146-4-19	8. REPLACEMENT PART P/N N/A REV SER NO.	9. SOURCE: Supplier	10. CONTRACTOR/SUPPLIER: ITT Grinnell		
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER — IR NO. R-1.00-9627 NO. M-131 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:

Specification 7220-M-131 Rev. 2 requires Quality Verification Documentation as summarized on Form G-321-D. Contrary to the above, the following discrepancies for the Quality Verification Documentation Package have been found.

1. No traceability on studs and heavy hex nuts.

2. Category 15.0 (cleaning and coating) states 3 pages furnished when in fact only 1 was received. Category 17.1 (CMTR) states 13 pages furnished when in fact 14 pgs. received.

Continued on Page 2

17. REPORTED BY: E. H. Wharton DATE: 6-7-79

18. VALIDATED BY: J. E. Russell DATE: 6/7/79

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

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

Procurement Supervisor to obtain correct additional documentation.

[signature] 6/22/79

D. Shaw 6/25/79

23. PROJECT ENGINEERING DISPOSITION

POOR ORIGINAL

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
D&C			

[signature] 6/26/79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

[signature] 7-2-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Corrected documentation received, reviewed & accepted.

E. H. Wharton 8/23/79

26. QC ACCEPTANCE [signature] 8/24/79.
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

Block 16 Continued

Category 24.0 (Pressure Test) states 3 pages furnished when in fact only 1 was received.

"Q" numbers are 4.095. Hold pending final disposition. 1 hold tag applied to the nonconforming item(s).

X

BECHTEL

NONCONFORMANCE REPORT

S/U NONTESTABLE UNIT

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
MIDLAND	7220	2249	1 OF 2

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
UNIT 2	DWG. C-655 DETAIL "K"	7	EXPANSION ANCHORS	CONT. 2 ELV. 659±

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	

11. INSPECTION CRITERIA	IR NO.	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG ( ) SPEC (X) OTHER	NCR-1994 PSP G-3.2	( ) YES (X) NO	( ) YES (X) NO	( )Rec'g (X)Const ( )Test	( )Client ( )Eng (X)FLD

16. NONCONFORMING CONDITION: P.S.P. G-3.2 REV. 4, SECTION 3.4, GIVES CRITERIA THAT MUST BE MET PRIOR TO FURTHER WORK OR INSTALLATION BEING PERFORMED ON NONCONFORMING ITEMS. CONTRARY TO THE CRITERIA OF SECTION 3.4, A STRUCTURAL BEAM #333B2 WAS SET OVER THE EXPANSION ANCHORS AND NO CONDITIONAL RELEASED WAS OBTAINED ON NCR 1994 (WRITTEN AGAINST MISLOCATED & IMPROPER EMBEDMENT OF THE EXPANSION

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
Edwin Dutton	6/11/79	A.E. Powell	6/11/79

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

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

This is not a NCR condition the referenced beam #333B2 was set over the expansion anchors so as to store it in place and to avoid a tripping hazzard. However, there was no additional work done to the expansion anchors themselves. Some of the nuts were installed so as to keep the beam in place, the nuts were not torqued. C.H. Bette 6/12/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE N/A

rework	reject	repair	use as is

J.J. Gilmartin for AVB 6/19/79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

H. [illegible] 6-22-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE [illegible] 8/8/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

1063 309

BLOCK 16 CONTINUED — UCR#A249

ANCHORS).
HOLD FOR ENG. DISPOSITION, "Q" LISTED 1.102, 1 HOLD TAG APPLIED.

D

5/U 2-EAC

NONCONFORMANCE REPORT

1. PROJECT NAME: MIDLAND | JOB NO. 7220 | 19. NO. 2250 | 20. PAGE 1 OF 1

2. UNIT(S): TWO | 3. DRAWING/PART NO.: M619-17 | REV. 3/F2 | 4. ITEM DESCRIPTION: PIPE SPOOL 2HBC-109-619-17-1 | 5. ITEM LOCATION: CONT #2, ELEV 687'

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

11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER | IR NO. P-1.10-1 NO. M204, REV 10 | 12. ASME AUTHORIZED INSPECTION REQ'D (X) YES ( ) NO | 13. SKETCH ATTACHED ( ) YES (X) NO | 14. Discovered During ( ) Rec'g (X) Const ( ) Test | 15. Equip Furnished By ( ) Client ( ) Eng (X) FLD

16. NONCONFORMING CONDITION: SPEC 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, PIPE SPOOL 2HBC-109-619-17-1 HAS A GOUGE APPROX. 1" LONG, 1/8" WIDE, .125 DEEP, EQUAL DISTANCE BETWEEN FLG 4 AND 5. MINIMUM WALL THICKNESS IS .245 AND NOMINAL WALL IS .280, THEREFORE THIS GOUGE IS BELOW MINIMUM WALL THICKNESS QA# 4.192 1 QC HOLD TAG APPLIED TO SPOOL

17. REPORTED BY: [signature] DATE: 6-7-79

18. VALIDATED BY: 6-8-79 J.E. Russell DATE: 6/11/79

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

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

This is a nonconformance condition, repair in accordance with ED-1.

K. Baker 6/11/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair STD	use as is

J.J. Schmitt JJS 6/20/79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE
K. Baker 6-21-79
PROJECT QA/QC ENGINEER DATE
H.W. Kelton 6/26/79
AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Repair was made in accordance with ED-1 and it's Satisfactory
Jim Hamler 8-29-79

26. QC ACCEPTANCE: Jim Hamler 8-29-79
QC ENGINEER DATE
H.W. Kelton 8/29/79
AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

1063 311

Start Up Code: Indeterminate

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
Midland	7220	2258	1 OF 2

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
1 & 2	N/A	N/A	21 - HVAC Isolation Valves	Warehouse # 2

6. P.O.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER
7220-M-154-AC Rev. 3	N/A	P/N N/A REV ____ SER NO. ____	Supplier	Pacific Air Products

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-1.00-9718 NO M-154 Rev. 5	( ) YES (X) NO	( ) YES (X) NO	(X) Rec'g ( ) Const ( ) Test	( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION:

(1.) Specification M-154 Rev. 5 states: Section 10.0, Documentation: The Seller shall submit the following drawings, data, procedures, and instructions in accordance with Appendix B, Form G-321-D. Suppliers entry instructions Number 16 states, enter the number of units covered by the Quality Verification Documents being submitted. For each requisition Item No. being released provide a separate copy of this completed form and the supporting Quality Verification Documents.

Cont. on Page 2

17. REPORTED BY [signature] DATE 6-12-79

18. VALIDATED BY [signature] DATE 6/12/79

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

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

1, 2 & 3) Procurement supervisor to obtain corrected documentation.

[signature] 6/28/79
D. Short 6/28/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
X			

[signature] PROJECT FIELD ENGINEER DATE 6/28/79

PROJECT ENGINEER DATE

[signature] PROJ CONSTR QC ENGINEER DATE 7-3-79

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

ITEM 1, 2, 3. Corrected documentation recieved. Reviewed & accepted.

[signature]
8-13-79

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

AUTHORIZED INSPECTOR DATE

1063 312

Block 16 Continued

Number 20, states: Enter identification number(s) traceable to the unit(s) being released. Contrary to the above, 7 Items were received in one (1) documentation package, and no Item number referenced.

(2.) Page count on 9 category differ from actually received.

(3.) QAI 7220-R-1.00 Activity 2.1.b states: Review the completed Form G-321-D for availability, legibility and traceability. Contrary to the above, 17 pages are not legibile, and 30 pages are not traceable. (Note: This documentation package, second copy, has been returned to the vendor by SQR's)

"Q" number is indeterminate. Hold pending engineering disposition. 21 hold tag(s) applied to nonconforming item(s).

S/U Indeterminate

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO. 7220			19. NO. 2259	20. PAGE 1 OF 2
2. UNIT(S): 1 & 2	3. DRAWING/PART NO.: G.E. 0269B0131P004	REV: N/A	4. ITEM DESCRIPTION: Resistors, 1200 OHM		5. ITEM LOCATION: Warehouse # 1
6. P.O.: 7220-F-33741	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV ____ SER NO. ____	9. SOURCE: Supplier	10. CONTRACTOR/SUPPLIER: Graybar Electric	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER — IR NO. R-1.00-9721 NO. Q-33 Rev. 3	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During (X) Rec'g ( ) Const ( ) Test	15. Equip Furnished By ( ) Client ( ) Eng (X) FLD	

16. NONCONFORMING CONDITION:

QCIR-R-1.00 Rev. 7 Paragraph 4,1 states: Inspect the material or equipment marking, nameplates, and tags to verify conformance with the specified requirements in the M/R, P.O. and attached drawings and specifications for (a.) material marking. Contrary to the above, 20 resistors received on AEO-9721 does not have any traceability to the P.O., packing slip or markings on the material. "Q" number is indeterminate. Hold pending final disposition. 1 hold tag(s) applied to the nonconforming item(s).

17. REPORTED BY: [signature] DATE: 6-12-79

18. VALIDATED BY: J. T. Russell DATE: 6/12/79

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

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

WRONG MATERIAL (CANT BE IDENTIFIED) RETURN TO VENDOR [signature] 7-30-79
B. Matthews 7-30-79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

[signature] 7-30-79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

[signature] 7-30-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

MATERIAL RETURNED TO VENDOR ON SHIPPING NOTICE 7220-7495 (ATTACHED)
Dean A Delaney 8/4/79

26. QC ACCEPTANCE
Dean A Delaney 8/4/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

1063 314

Bechtel

SHIPPING NOTICE

JOB NO. 7220 SN NO. 7220-7495

DATE July 30 19 79

CONSIGNED TO Graybar Electric

ADDRESS 2424 Kansas Ave., Flint, MI 48503 ATTENTION: CHRIS CHRISTOFFERSON

ROUTING UPS

COLLECT PREPAID

SHIP VIA			
	AIR EXPRESS		
	EXPRESS		
	RAIL FREIGHT		
	MOTOR FREIGHT		
	PARCEL POST UPS	XX	
	BEARER		

PURCHASE ORDER NO.	O S & D NO.	ORIGINAL MRR NO.
7220-F-33741 Q	NA	9721

MATERIAL ORIGINALLY PURCHASED ON P.O. NO.	VENDOR
Same as above	Graybar Electric

REASON FOR SHIPMENT:

Material cannot be certified, return for cre.

SHIPMENT AUTHORIZED FOR BECHTEL BY: R. Gussman/Dean Delaney (Q-listed)

BILL OF LADING ATTACHED: NA

ITEM NO.	QUANTITY	UNIT	COMPLETE DESCRIPTION
1	20	ea.	1200 OHM G.E. Resistors
			NCR - #2259

FOR ORIGINAL

RETURN AUTHORIZED BY: Chris Christoferson

AUTHORIZATION NUMBER: 716Y33741Q

COMPANY Graybar Electric

CREDIT TERMS: Full Credit

SHIPPER

Bechtel

ADDRESS 3500 E. Miller Rd.

Midland, MI 48640

D.R. Wooster for

E.E. Lawrence/ jb

ACCEPTED FOR SHIPMENT

DATE JULY 31 1979

CARRIER UPS

PER K. Wolfe

SN NO. 7220-7495

3230 (5-68)

Bechtel Power Corp., agents for Consumers Power Co.

1063 315

Start Up Code: Indeterminate alap

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO. 7220				19. NO 2261	20. PAGE 1 OF 1
2. UNIT(S): Indeter-minate	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: 550 each 7/8" ϕ x 6" Anchors		5. ITEM LOCATION: Warehouse # 1	
6. ~~PO OR~~ SPEC NO.: C-305 Rev. 7	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV ____ SER NO. ____	9. SOURCE: Supplier	10. CONTRACTOR/SUPPLIER: McCall's Tool		
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. R-1,00-9672 NO. C-305 Rev. 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. Employer Identified ( ) Client (X) Eng ( ) FLD		

16. NONCONFORMING CONDITION:

Specification C-305 requires in part that material be traceable to the Form G-321-D and Certificate of Compliance. Contrary to this, the items in Block 4 were delivered to the jobsite without traceability. 1 hold tag applied. Hold pending disposition. "Q" list number is indeterminate.

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

Procurement supervisor to obtain proper Documentation. J Betts 6/22/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework | reject | repair | use as is

Doc

QC ENGINEER J G Gilmore for Chitty DATE

PROJECT ENGINEER DATE

FIELD CONSTR. ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

R Valentine 6-20-79

26. QC ACCEPTANCE [illegible] 6-20-79

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

1063 316

6

NONCONFORMANCE REPORT

5/4 # 1-PBA 1-PBB 2-PBA 2-PBB

1. PROJECT NAME: MIDLAND — JOB NO.: 07220 — 19. NO. 2264 — 20. PAGE 1 OF 1

2. UNIT(S): 1 & 2 — 3. DRAWING/PART NO.: N/A — REV: — 4. ITEM DESCRIPTION: 4160 Switchgear — 5. ITEM LOCATION: 614 AUX. BLDG.

6. P.O. OR SPEC NO.: E-205 Rev. 8 — 7. SERIAL NO.: See Blk. 16 — 8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A — 9. SOURCE: Const. — 10. CONTRACTOR/SUPPLIER: ITE

11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER — IR NO See Blk. 16 — NCR NO E-205 Rev. 8 — 12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO — 13. SKETCH ATTACHED ( ) YES (X) NO — 14. Discovered During ( ) Rec'g (X) Cons[illegible] — 15. Equip Furnished By ( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION:

IN 4160 Switchgear 2A05-E6.0-5, 2A06-E6.0-6, 1A05-E6.0-7, 1A06-E6.0-8, Rodents have chewed and bared wiring to CTs AND control switches. The quality of the wiring within the switchgear cubicles is thus indeterminate.

Q list 3.101 — Hold For Engineering Disposition — 4 Hold Tags

17. REPORTED BY: George Young — DATE: 6-14-79

18. VALIDATED BY: [illegible] J E Russell for GE — DATE: 6/14/79

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

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

INSPECT, procure wire, replace wire as required.

George P. Pfaff 6/14/79

23. PROJECT ENGINEERING DISPOSITION

POOR ORIGINAL

24. DISPOSITION CONCURRENCE

return	reject	repair	use as is
✓			

PROJECT FIELD ENGINEER — DATE 6-25-79

PROJECT ENGINEER — DATE

PROJ CONSTR QC ENGINEER — DATE 6-25-79

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

George Young 8-15-79

1A05 Switchgear wiring complete

2A05, 1A06, 2A06 Switchgear wiring complete

George Young 8-17-79

George Young 8-17-79

26. QC ACCEPTANCE

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

1063 317

X

S/U OEMA

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 2269	20. PAGE 1 OF 2
2. UNIT(S): 1	3. DRAWING/PART NO.: 11-1679	REV: 5	4. ITEM DESCRIPTION: Service Water Piping 26"CMC-54	5. ITEM LOCATION: Yard S. of Diesel Gen. 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: Contractor	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA: ( ) DWG (X) SPEC ( ) OTHER IR NO. NCR 2268 Rev 0	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 ( )Fab	

16. NONCONFORMING CONDITION:

Minimum wall thickness is 87½% of nominal per Spec. 11-201 para. 5.2.6.a. Rail sample drill bit section center line 26" MSC-54 below spool at coordinates S 5133, E 172. The wall thickness of the pipe is indeterminate at this point. A 3" PVC pipe was inserted in the hole to open the location. Clay is cause of this problem. Same type change for the 26" structure previously taken above.

17. REPORTED BY: Ken Murphy DATE: 6-14-79

18. VALIDATED BY: K.B. 6.15.79 S. L. Russell DATE: 6/15/79

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

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

After removal of soil change from the above the service water line is to be exposed at the point in question. A visual examination is to be made, and any damage is to be repaired in accordance with Repair Procedure EI-1 Rev 0. Pipe coating is to be inspected before backfilling.

23. PROJECT ENGINEERING DISPOSITION: D Shaw 6-15-79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
		X	

PROJECT FIELD ENGINEER: [signature] DATE: 6-15-79

PROJECT ENGINEER: S. L. Russell DATE: 6/15/79

PROJ CONSTR QC ENGINEER: [signature] DATE: 6-18-79

AUTHORIZED INSPECTOR: [signature] DATE: 6-18-79

25. DISPOSITION RESULTS: The subject line was reworked satisfactorily in accordance with the block 22 disposition. Min. wall thickness was not violated. See attached UDE Report # 2842.

C.E. Fugate 8-28-79

26. QC ACCEPTANCE: [signature] DATE: 8-28-79

QC ENGINEER: [signature] DATE: 8-29-79

AUTHORIZED INSPECTOR: [signature] DATE: 8-29-79

POOR ORIGINAL

1063 318

Block 16 continued

G List # 4185
No Hard Rejs Applied

POOR ORIGINAL

X-RAY ENGINEERING COMPANY

ULTRASONIC THICKNESS MEASUREMENT

TEST REPORT #7842

Fabricator N/a Date 8-28-79

Location MIDLAND NUCLEAR PWR. PROJ. Insp. No. M167Q

Customer BECHTEL PWR. CORP. Part Name OHBC-54 SERVICE WATER

Equipment BRANSON KRAUTKRAMER CL204 Procedure No. IPUT-453-23-03B Material C/S

Calibration Range 0 " to 1/2 " Transducer (size & Freq.) 10mHz 1/4"

Serial or Weld Number	Acceptable Minimum & Maximum Thickness (Designated by Cust)	Thickness Recorded	Disposition		Re
			Accept	Reject	
COUPLE AREA REF. NCR 2269	.375" NOMINAL	.386"	✓		NONE
		.391"	✓		NONE
		.413"	✓		NONE

POOR ORIGINAL

Operator C W Stapleton LII Date 8-28-79

Customer Inspector E R [illegible] LII Date 8-28-79

1063 320

NONCONFORMANCE REPORT

S/U CODE INDETERM

1. PROJECT NAME: MIDLAND	JOB NO. 7220			19. NO. 2287	20. PAGE 1 OF 2
2. UNIT(S) INDETERM.	3. DRAWING/~~PART NO.~~ VENDOR M-127A-24-1	REV 1	4. ITEM DESCRIPTION: CHECK VALVE 1"-CBC-CK		5. ITEM LOCATION: QC HOLD W/USE #1
6. P.O. ~~OR SPEC NO.~~ M-127A	7. SERIAL NO. UN21-7	8. REPLACEMENT PART P/N ____ REV ____ SER NO. N/A	9. SOURCE: SUPPLIER	10. ~~CONTRACTOR~~/SUPPLIER: KEROTEST MANUFACTURING CORP	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER — IR NO. R1-00-979 NO. M-127A REV. 5	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED (X) YES ( ) NO	14. Discovered During (X) Rec'g ( ) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FLD	

16. NONCONFORMING CONDITION: SPECIFICATION M-127A STATES IN PART..."VALVES SHALL BE BOXED, CRATED OR SECURED TO SKIDS AND PROTECTED AGAINST DAMAGE DURING SHIPMENT, STORAGE AND HANDLING"... UPON RECEIPT INSPECTION FOR DAMAGE IT IS NOTED THAT BETWEEN THE COVER AND BODY OF CHECK VALVE 1"-CBC-CK S/N UN21-7, THE EDGES HAVE BEEN FORCED TOGETHER AND SURROUNDING PAINT IS CHIPPING AWAY. DAMAGE SHOWN ON ATTACHED SKETCH. CONT. PAGE 2...

17. REPORTED BY [signature] DATE 6/19/79

18. VALIDATED BY [signature] DATE 6-21-79

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

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

Damage does not affect pressure bountry or maintainability of valvetouch up chipped paint per project engineering recommendations

[signature] 8-9-79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE N/A

rework	reject	repair	use as is

[signature] 8/10/79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

[signature] 8-11-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

26. ~~QC ACCEPTANCE~~ [signature] 8/27/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

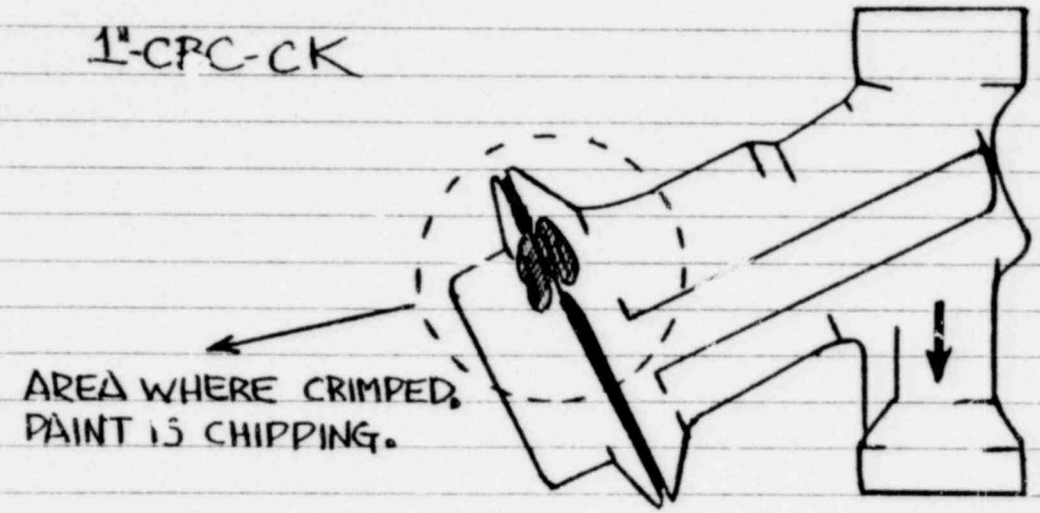
1063 321

BLOCK 16 CONT.

HOLD FOR ENGINEERING DISPOSITION. "Q" NUMBER IS ~~4.382~~ INDETERMINATE DE 6/6/74
ONE QC HOLD TAG APPLIED TO NONCONFORMING ITEM.

P.O. ITEM 29.1

1"-CPC-CK



X

NONCONFORMANCE REPORT

S/U Nontestable Unit

1. PROJECT NAME: MIDLAND	JOB NO.: 07220			19. NO. 2293	20. PAGE 1 OF 1
2. UNIT(S): 11	3. DRAWING/PART NO.: E599-1	REV: 5	4. ITEM DESCRIPTION: SUPPORTS FOR CONDUIT 2ASA014		5. ITEM LOCATION: Service Water Struct
6. P.O. OR SPEC NO.: N/A	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE: Construction	10. CONTRACTOR/SUPPLIER: N/A	

11. INSPECTION CRITERIA: [X] DWG [X] SPEC [ ] OTHER — IR NO. C-305 NO FSK EX-116

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:

Support E42 sheet 314 specifies that Anchors for a type 11-4a shall be 3/4" but does not give a min. Embedment. C305 rev. B (Table 4.1) list Two Min. Embedments Depths, 3 1/4" and 5", Note 4 on this table states "When Embedment is not specified, use greater one." — CONTRARY to this, Supports 116/442, 116/424, 116/425, 116/426, 116/427, 116/428, 116/429, 116/431, 116/432, 116/433, 116/434, which Supports Cond 2ASA014 plus other Conduits were installed using 3 1/4" as a min. Embedment. - QList #3.006 - (11) Hold Tags Applied "Hold for Engr Disposition"

E

17. REPORTED BY: C R Bauchspiess — DATE: 6/12/79

18. VALIDATED BY: [signature] — DATE: 6-22-79

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

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

(SHT 314A DCN 80)

Su ject Installation is acceptable in accordance with DCN 80, Dwg. E-42 sheet 314A.

W.B. Hayes 7/18/79

23. PROJECT ENGINEERING DISPOSITION: DCN#80 to E-42 states that 3 1/4" is the minimum embedment for 3/4" anchors. Use as is. [signature] dated

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

[signature] PROJECT FIELD ENGINEER — DATE 7-20-79

[signature] PROJECT ENGINEER — DATE 7-19-79

[signature] PROJ CONSTR QC ENGINEER — DATE 7-31-79

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

ORIGINAL

26. QC ACCEPTANCE: C R Bauchspiess — QC ENGINEER — DATE 8-2-79

AUTHORIZED INSPECTOR — DATE

1063 723

MIDLAND PROJECT

RESIDENT ENGINEER MEMORANDUM

RE- E-1803

DATE 7/19/79

SUBJECT: ANCHOR EMBEDMENTS

REF: NCR 2293

AAO COORDINATION: Date 7/19/79 /Time 1:00 /AAO Contact R. WILLISON
J. ALEXANDER

DCN #80 TO E-42 STATES THAT 3/4" IS THE MINIMUM EMBEDMENT FOR 3/4" ANCHORS.

POOR ORIGINAL

RESIDENT ENGINEER [signature]
7/19/79

AAO Review: Group Supervisor _____

Date: _____

NONCONFORMANCE REPORT

S/U #'s — CEE-9 / JEE-9 / 2EE-7

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 2300	20. PAGE 1 OF 1
2. UNIT(S): 1 & 2	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: CP-73 and 1&2P-73A&B Component Cool. Wtr. Pump Motors	5. ITEM LOCATION: Aux. Bldg. 587'+588' Elec.	
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: Field Engineering	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER IR NO. N/A NO. F-10-19		12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Insp'g (X) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION:

F-10-19 REQUIRES SPECIAL PROVISIONS AFTER PLACEMENT, 7-day, and 90-day INSPECTIONS FOR the Component Cooling Water pump motors. CONTRARY TO THE ABOVE, THE COMPONENT COOLING WATER PUMP MOTORS WERE RELEASED TO THE FIELD FOR INSTALLATION ON 3-29-79, AND NO MAINTENANCE INSPECTIONS HAVE BEEN PERFORMED.

M

D-Listed # 4.163 & 4.173 — 5 Hold Tags applied to motors

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
K. Fugate	6-22-79	[illegible]	6.22.79

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

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

USE AS IS

F-10-19 has been superceded by F-10--228 and is being utilized to perform maintenance inspections. George P. Fall 7/24/79

F 20-228 was completed on July 25, 1979. An inspection revealed no detrimental effects to the equipment. [illegible] 7/31/79

23. PROJECT ENGINEERING DISPOSITION

PROJECT ENGINEERING CONCURS WITH THE FIELD RECOMMENDATION TO "USE AS IS" BASED ON SATISFACTORY INSPECTION OF THE EQUIPMENT (PER T. BALLARD OF PROJECT ENGINEERING). 8/9/79 T. Kramm 8/10/79

24. DISPOSITION CONCURRENCE

remark	reject	repair	use as is
			X

T. Vehec 8-7-79 8/16/79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

R. E. Ravell for 8/15/79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25 DISPOSITION RESULTS

INSPECTION PERFORMED AS REQUIRED BY DISPOSITION DOCUMENTED ON F-10-228, F-20-E5188.

M. Donovan 8/28/79

26. QC ACCEPTANCE M. Donovan 8/28/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

1063 325

NONCONFORMANCE REPORT

S/U Sys. 1-PHA

1. PROJECT NAME: Midland	JOB NO.: 07220			19. NO. 2305	20. PAGE 1 OF 2
2. UNIT(S): 1	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: 3/C 350MCM, Cable Code: B11		5. ITEM LOCATION: 614' el. Installed 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: Constitution	10. CONTRACTOR/SUPPLIER: Essex Wire & Cable Co.	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC ( ) OTHER IR NO: 1AB1702A NO: 1AB1702B	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: Scheme Cable #1AB1702A HAS SPLITS of Varying Depth & Length In The Inner Jacketing Which Encloses the Inner Insulation, as Follows; Red Conductor 1 split 1¼" long - Approx ½ way thru jacket. White Conductor 1 split 2" long - 1 split 1½" long, both Thru to Insulation. Location: 1B17.

(Block 16 Cont.)

17. REPORTED BY: James E. VanDeusen DATE: 6-25-79

18. VALIDATED BY: T.O. Barclay DATE: 6-25-79

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

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

Cables 1AB1702 A&B were being terminated on Sat. june 23. These cables were required to be completed durring the power outage. Q.C. was notified of the discrepency and was shown the problem areas. An FCN was ~~XXXX~~ written to provide direction for the field to repair. The repair was made per the manufacturers repair procedure E22-43-1. ~~XXPROJECTENGINEERINGDISPOSITION~~ The cable is acceptable for use as repaired. Personell have been notified of procedures.

W.D. Hagen 7/3/79

23. PRJECT ENGINEERING DISPOSITION.

Project engineering has reviewed the extent of damage to the referenced cables and the repair of them as implemented by FCN E-825. The repair of the cables is in accordance with manufacturers procedure E22-43-1 and therefore they are acceptable to use as repaired. P. Corbett 7/9/79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
		✓	X

L. Miller AEB 7-10-79
PROJECT FIELD ENGINEER DATE

J.J. Basuino/RLC 7-9-79
PROJECT ENGINEER DATE

T.O. Barclay 7-11-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Cables were Repaired per E22-43-1 on 6-25-79

Initial error 8-27-79
8-27-79

James E. VanDeusen 8-27-79

26. QC ACCEPTANCE James E. VanDeusen 8-27-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

1063 326

(Block 16 Cont.)

Scheme Cable # 1AB1702B Has Splits of Varying Depth & Length In The Individual Conductor Jacketing; Described as Follows: Red Conductor: 1 split 1 3/4" long - Thru To Insulation. Black Conductor: 2 Splits 1" Long approx. 1/2 way Thru Jacketing. Location: 1B17

Scheme Cable # 1AB1702B Has 1 split 3/4" long, approx. 1/2 way Thru Individual Conductor Jacketing on White Conductor. Location: 1B23

All Splits are approximately Parallel with The Conductor, None Penetrating Into Insulation.

SF/PSP G-3.2 Rev. 4 paragraph 3.2.6.B (2) Requires that an NCR be Used to Control "'Repair' actions for deficiencies discovered by Inspection during in-process construction...".

Contrary to This, Cable was Repaired per FCN E-825.

Q-List # 3.003 Three (3) Hold Tags Applied Hold for Eng. Disposition

1063 327

S/U # 2PRA

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 07220			19. NO. 2316 (~~2315~~)	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-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. Equip Furnished By ( ) Client (X) Eng ( ) FLD	

E

16. NONCONFORMING CONDITION: Contrary to the instructions in IOM BESC-2624, which requires 3/8" Expansion anchors with 5" embed, Bnel 2BP03 was installed using E Length added 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 (X) Field Engineering Recommended Disposition to Project Engineering

"USE AS IS"

W.B. Hager 7/18/79

23. PROJECT ENGINEERING DISPOSITION: Project Engineering has evaluated the noted non-conforming condition and concludes the following: The anchor bolts in question were upgraded from 3/8" Ø to 1/2" Ø and installed per Specification C-305. Two of the eight anchors were installed short of the required 2-1/4" embedment of 1/2" Ø anchors. These anchors had embedments of 2-1/16" and 2-1/8". Based on the increased capacity of the upgraded anchors and the limited affect of 2 of 8 anchors not meeting Specification C-305 embedment requirements, Project Engineering recommends to "use as is". (No drawing change required) J Abfander 7-26-79

P. Corbett RS 7-31-79

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

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

J.R. Basuniki/RLC 7-31-79
PROJECT ENGINEER DATE

[signature] 8-6-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Disposition is accurate and concurred with

[signature] 8/7/79

26. QC ACCEPTANCE [signature] 8/7/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

1063 723

X

BECHTEL

NONCONFORMANCE REPORT

S/U - B & W Equipment

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO. 2321	20. PAGE 1 OF ~~2~~ 5 KEB 8-6-79
2. UNIT(S): 1 & 2	3. ~~DRAWING~~/PART NO.: 650683	REV: N/A	4. ITEM DESCRIPTION: 70 EA. TAB WASHERS BYRON JACKSON ORDER # 793-S-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. R2.00-9910 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

VALIDATED BY: D.B. Barclay DATE: 7-2-79

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

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

See attached B & W letter dated 8-3-79.

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

PROJECT FIELD ENGINEER: DOC Gleason DATE: 8/6/79

PROJECT ENGINEER: D.B. Barclay DATE: 8-8-79

PROJ CONSTR QC ENGINEER ____ DATE ____

AUTHORIZED INSPECTOR ____ DATE ____

25. DISPOSITION RESULTS

REQUIRED DOCUMENTATION RECEIVED AND REVIEWED.

R. Valentine 8.18.79

26. QC ACCEPTANCE: R. Valentine 8.18.79

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

1063 329

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

for PQAE 7/2/79 Date

Babcock & Wilcox

B&W Construction Company

Copley, Ohio 44321
Telephone: (216) 666-8841

August 3, 1979

Bechtel Power Corporation
P. O. Box 2167
Midland, Michigan 48640

SUBJECT: Bechtel NCR #2321

Attention: W. L. Barclay

Dear Mr. Barclay:

This is in answer to your letter, FQCL #304, dated July 6, 1979 concerning the subject, NCR Documentation.

My records indicate the required documentation arrived July 20, 1979, and copies are attached for your use.

If you have questions, please call me on extension 576.

Very truly yours,

H. A. Guetling,
Site Consultant

HAG/dbc
Attachments

cc: V. N. Asgaonkar, w/a
File, w/a

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	

NCR 2321 Page 3 of 5

RECEIVED
AUG 06 1979
QUALITY CONTROL
BECHTEL JOB 7220
SIGNATURE

1063 331

DATE 19 July 1979

CUSTOMER: Baker & Wilcox

CUSTOMER'S ORDER NO.: N/A

BYRON JACKSON REFERENCE NO.: 793-5-3630

THIS IS TO CERTIFY THAT ALL PARTS ON THIS ORDER WERE MANUFACTURED AND TESTED TO THE SPECIFICATIONS AND DRAWINGS SPECIFIED BY YOUR PURCHASE ORDER.

ITEM	REF. NO.	QTY.	DESCRIPTION	DWG. NO.
1	N/A	70	Tot Units	650083

Carol McGrew
Quality Coordinator

VERY POOR ORIGINAL

TO:
THE BABCOCK & WILCOX CO.
POWER GENERATING DIVISION
P.O. BOX 1260
LYNCHBURG, VIRGINIA 24505
ATTN: L. J. Mack

FROM:
BYRON JACKSON PUMP DIVISION
BORG-WARNER CORPORATION
P.O. BOX 2017, TERMINAL ANNEX
LOS ANGELES, CALIF. 90051

JOB: 4FN-0011
PROJECT: MIDLAND I & II
CUSTOMER: B&W
CUSTOMER ORDER NO.: 020630/53LW

COMPONENT:
S.J. P.O. NO.:

TYPE OF DATA:
- ☐ DRAWINGS
- ☐ STRESS ANALYSIS
- ☐ MANUALS
- ☐ MATERIAL SPECS.
- ☐ TEST REPORT
- ☐ DESIGN REPORT
- ☐ TEST DATA
- ☐ TEST CURVES
- ☐ OTHER

DOCUMENTATION TYPE:
P — PRINTS
R — SEPIA REPRO.
V — VELLUM REPRO.
M — MYLAR
O — OTHER

SEQUENCE CODE:
A — For Approval
C — For Certification
I — For Information
R — Resubmittal

APPROVAL STATUS CODE:
A — Appvl Desc. Action
W — Approved W/Comment
D — Disapproved
V — Approved
C — Completed
T — Cancelled

ITEM NO.	QTY./TYPE	IDENTITY NO.	REV.	DESCRIPTION TITLE
1	1/C	792-3630	—	I CERTIFICATION

REMARKS:

DISTRIBUTION:
QA
FILE

REPLY REQUESTED BY:
ORIGINATOR: [signature]
DATE: 18 July 79

NCR 2321 Page 5 of 5

JUL 20 '79 PM 1063 333

VERY POOR ORIGINAL

BECHTEL MIDL

B&W PGG LYN
MAY 31, 1979

MR. W.J. LEE
B&W CONSTRUCTION COMPANY
MIDLAND, MICHIGAN

RELEASE FOR INSTALLATION OF RC PUMP INTERNALS NSS-12/13, 12E42

GLD #422
NPGD QA ENGINEERING HAS ISSUED THE FOLLOWING STATEMENT ON THE CONSUMERS RC PUMP INTERNALS:

"THE RC PUMP INTERNALS WERE SHIPPED IN AN NPGD QA HOLD STATUS BECAUSE AT THE TIME OF SHIPMENT, THE INDEPENDENT REVIEW OF THE PUMP STRESS REPORT WAS NOT COMPLETE. THIS REVIEW HAS NOW BEEN COMPLETED. HOWEVER, BECAUSE OF UNRESOLVED DISCREPANCIES FOUND DURING THE NPGD QA RE-REVIEW OF THE RC PUMP INTERNALS QA DATA PACKAGES, THIS HOLD CANNOT YET BE RELEASED. NONE OF THE DISCREPANCIES FOUND IN THE RC PUMP INTERNALS QA DATA PACKAGES HAVE ANY IMPACT ON THE QUALITY OF THE RC PUMP INTERNALS. CONSEQUESTLY, AS FAR AS NPGD QA IS CONCERNED, THE RC PUMP INTERNALS CAN BE INSTALLED PENDING RESOLUTION OF THE QA DATA PACKAGE DISCREPANCIES. IT IS EXPECTED THAT THESE DISCREPANCIES WILL BE RESOLVED AND THE PACKAGES UPGRADED BY JULY 31, 1979."

G.L. DUPRIEST, PROJ. MGMT., BABCOCK & WILCOX COMPANY,
LYNCHBURG, VIRGINIA

(BECHTEL MIDL

POOR
ORIGINAL

W.J. LEE

JUN 20 1979

B & W

BECHTEL MIDL

B&W PGG LYN
JUNE 20, 1979

WALT LEE
B&W CONSTRUCTION CO.
MIDLAND, MICHIGAN

MOLYKOTE G. LUBRICANT

GLD #424
BE ADVISED OF THE FOLLOWING:
WE HAVE RECEIVED A TWX FROM BYRON JACKSON DATED 6/19/79 ADVISING B&W THAT THE USE OF MOLYKOTE "G" LUBRICANT AS AN ALTERNATE TO MOLYKOTE 505 IS ACCEPTABLE FOR USE ON EXTERNAL PUMP FASTENERS.

B-J HAS ALSO ADVISED THAT THE NEXT INSTRUCTIO MANUAL REVISION WILL CONTAIN THIS ALTERNATE LUBRI CANT.

ADDITIONALLY, FOR THE TAB WASHERS SHIPPED TO SITE ON B-J ORDER 793-S-3630, B-J WILL BE FORWARDING CERTIFICATION TO B&W NPGD ON 6/22/79.

G.L. DU PRIEST PROJ. MGMT. 2555 BABCOCK & WILCOX LYNCHBURG, VA.

POOR
ORIGINAL

NONCONFORMANCE REPORT

STARTUP CODE INDETERMINATE

1. PROJECT NAME: MIDLAND	JOB NO. 7220			19. NO. 2334	20. PAGE 1 OF 2
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 # 2SV-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 PN ____ 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: [signature] DATE: 7/10/79

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

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 nameplate for subject valve from vendor.

[signature]
7-27-79

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] 8-2-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Instrumentation Engineer D. Manee removed the nonconforming 1 from the nameplate per vendors instructions as witnessed by me on this day 8-23-79

JE 8-23-79

26. QC ACCEPTANCE [signature] 8/23/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

1063 336

NCR.-2374

Target Rock Corporation, 1966E Broadhollow Road, East Farmingdale, New York 11735 / Phone: (516) 293-3800
TWX: 510-224-6420
SUBSIDIARY CURTISS-WRIGHT CORPORATION

Please refer to: QCL
79-227

August 9, 1979

Bechtel Power Corporation
P.O. Box 2167
Midland Michigan 48640

Attention: Mr. Bruce Reigelsperger

Subject: Telecon 8-8-79, 8-9-79
B.R. to G.A.

Per our telephone conversation, Target Rock Corporation hereby certifies that Tag no. 2SV-3969A is serial no. seven (7) of valve style 76B-035 as indicated on the Manufacturers Code Data Report and Quality Assurance Documents.

We can offer no explanation as to how the serial number on the nameplate could be misinterpreted except if the serial number was double struck or if the nameplate was damaged.

To avoid further confusion we hereby authorize you to remove the questionable mark at no cost to Target Rock Corporation.

As you indicated we will review the photograph you sent us so as to prevent this type of confusion from happening again.

Should there be any further information required please contact the undersigned.

Very truly yours,

TARGET ROCK CORPORATION

G. Abruzzo
QA Manager

GA:jb
cc: W. Hughes
D. Vater

1063 337

NONCONFORMANCE REPORT

startupcode : indeterminate

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO.: 2342	20. PAGE 1 of 2
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. Hanger Material		5. ITEM LOCATION: WHSE #2 and pasquville
6. P.O. OR ~~SPEC~~ NO.: F3107 Rev. 04	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. I-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 AEQ-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	DATE	18. VALIDATED BY	DATE
Michael J. Moore	7-12-79	[illegible]	7-12-79

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 MMM Documentation.~~

~~D.A.~~

Block 22, on Page 2 ~~D. Shutt 7/24/79~~

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
XXX			

~~[illegible]~~ PROJECT FIELD ENGINEER DATE

~~[illegible]~~ PROJECT ENGINEER DATE

~~[illegible]~~ 7-26-79 PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

26. ~~ACCEPTANCE~~ Michael J. Moore 8-17-79 QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

1063 338

Block 22. Field Engineering Disposition.

The Field reccomends the acceptance of the documentation as submitted based on the following. The only difference between the G-321-D form Rev.14 to that of the Rev. 15, is the addition of documentation category 28.0, which is for shipping preperation procedures. Shipping preperation procedures are not applicable to P.O. F.31070, and therefore , Rev.14 of G-321-D contains all the necessary documentation categories.

∴ This is not a non conforming condition

J. Harvey 8-8-79

J Betts 8-8-79

CONDITIONAL RELEASE IS GRANTED FOR THE 16 - 6½"Ø RECESSED PIN ASSEMBLIES, RECEIVED ON THE REFERENCED A.E.O., TO BE INSTALLED. THESE PIN ASSEMBLIES ARE REMOVABLE AFTER INSTALLATION. CORRECTIONS OR REMOVAL CAN BE ACCOMPLISHED WITHOUT CAUSING HARM OR CONTAMINATION TO ASSOCIATED PLANT EQUIPMENT OR STRUCTURE.

C. Nunn AIB 8-17-79

PFE DATE PFQCE DATE

PQAE DATE

void

POOR ORIGINAL

1063 339

NONCONFORMANCE REPORT (CONT'D)

19. NCR NO. 2342

24. Disposition Concurrence Item: N/A

REWORK	REJECT	REPAIR	USE AS IS

PROJECT FIELD ENGINEER — DATE 8/17/79

PROJECT ENGINEER — DATE

PROJECT CONSTR QC ENGINEER — DATE 8/17/79

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

Steve Ha[illegible]ey

WU INFOMASTER

BECHTEL=MIDL

020737C163 1410EST
3580 MIDLAND MI JUNE 12, 1979
ZIP 97291
N.P.S. INDUSTRIES, INC.
2750 S. W. MOODY
PORTLAND, OREGON 97291

ATTENTION: DENNIS STOUT

SUBJECT: JOB 7220 MIDLAND PROJECT
P. O. F-3107 (Q)
FILE: C233A-F-3107-116-(0)-Q

REFERENCES: SPECIFICATION 7220-C-233 (Q) REV. 15

DEAR MR. STOUT,

THIS LETTER IS IN RESPONSE TO YOUR INQUIRY CONCERNING DOCUMENT CATEGORY 28.0E WHICH WAS ADDED TO THE REFERENCED SPECIFICATION ON REVISION 20 TO THE SUBJECT PURCHASE ORDER.

THE METHOD USED ON PAST SHIPMENTS FOR PROTECTION OF MATERIAL IS ACCEPTABLE TO BECHTEL AND AS LONG AS THIS SAME PROCEDURE IS FOLLOWED FOR FUTURE SHIPMENTS, NO FORMAL WRITTEN PROCEDURE WILL BE REQUIRED. HOWEVER, BECHTEL RESERVES THE RIGHT TO REQUIRE WRITTEN SHIPPING PROCEDURES IN THE FUTURE FOR ANY SPECIAL MATERIAL OR IF MATERIAL IS BEING RECEIVED THAT IS NOT PROPERLY PROTECTED AGAINST DAMAGE, AS REQUIRED BY THE SPECIFICATIONS.

J. F. NEWGEN
BECHTEL MIDL
JFN/SH/MLE

COPIES TO:
P. GRAY (AAO)
E. PREHN (N.P.S.)

X

ACCEPTED
03580 VALID EOA NOT RECD - ERROR CORRECTED

1-PC

POOR ORIGINAL

Telex/TWX
western union

NCR # 2343
pg. 4 of 4

1063 541

5/4 2-FCA

NONCONFORMANCE REPORT

1. PROJECT NAME	JOB NO.	19. NO.	20. PAGE
MIDLAND	7220	2348	1 OF 1

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
TWO	FSK-M-2EBC-3-1	0	SW#10 ON FSK-M-2EBC-3-1	COMBO SHOP

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

11. INSPECTION CRITERIA	IR NO.	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG ( ) SPEC (X) OTHER	P-1.20-1	(X) YES ( ) NO	( ) YES (X) NO	( )Rec'g (X)Const ( )Test	( )Client ( )Eng (X)FLD
NO. FPW-4.000 REV 1					

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 / QC HOLD TAG AT SW#10

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

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

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

Field recommends "cut out" and (X) Reweld. Due to the fact fix-up inspection was not performed and documented in accordance with FPW-4000 and project specifications.

D. Williams 7/18/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is

PROJECT FIELD ENGINEER — DATE 7/18/79

PROJECT ENGINEER — DATE

PROJ CONSTR QC ENGINEER W.T. Barclay — DATE 7-25-79

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

SW#10 WAS CUT OUT AND FIT-UP INSPECTIONS, ALSO WELDING WERE DONE IN ACCORDANCE WITH FPW-4000 AND PROJECT SPECIFICATION

Warren M. Hollelak 8-6-79

26. QC ACCEPTANCE — QC ENGINEER — DATE 8-6-79

AUTHORIZED INSPECTOR Patrick Bryant — DATE 8-6-79

POOR ORIGINAL

8063 342

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.: F 34750 | 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) 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 orifice flanges received on AEO-10114. "Q" number is indeterminate until installation. Hold pending final disposition. 1 Hold tag applied.

17. REPORTED BY: Michael J. Moore | DATE: 7-16-79

18. VALIDATED BY: C.O. Barclay | DATE: 7-16-79

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

[signature] 8-9-79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
X			

[signature] 8/14/79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

[signature] 8-16-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Documentation received and reviewed Nsffor 8-16-79

26. QC ACCEPTANCE: Michael J. Moore 8-16-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

1033 343

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 Gilmore for ANII 7/17/79
PE DATE

T B Barclay 7-17-79
PE DATE

R C Holler 7/17/79
PE DATE

1063 344

X

BECHTEL

NONCONFORMANCE REPORT

S/U # N/A

1. Project Name: MIDLAND	Job No.: 7220					19. No. 2355	20. Page 1 of 2
2. Unit(s): 1 + 2	3. Drawing/Part No.: N/A	Rev	4. Item Description: Q. VALVES (STORAGE)			5. Item Location: CRANE BAY (NORTH EAST CORNER) EL 634, AUX. BLDG.	
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. FPE-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.

Contary to the above Q valves are not being

17. Reported By: Richard A. Kramer Date: 7/17/79

18. Validated By: 7-17-79 W Barclay Date: 7-18-79

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

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

FIP RAD

Valves should be cleaned per FPP-4,000 & 4.100 recapped and ~~XXXXXX~~ returned to warehouse. (G.L.) K.A. Miller for DALE SHORT 7/30/79

23. Project Engineering Disposition

24. Disposition Concurrence

REWORK	REJECT	REPAIR	USE AS IS
X			

PROJECT FIELD ENGINEER J.D. Schmalz 7/31/79 DATE

PROJECT ENGINEER W Barclay DATE 8-3-79

PROJECT CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. Disposition Results

1. The subject values were verified clean, and subsequently taped and removed for storage

E Urbanowicz 8-16-79

26. QC Acceptance E Urbanowicz 8-16-79

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

1005 345

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
3/4" - ECB - GT - D S/N - 154CCB1-002
1" - EBB - 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

1. X.

BECHTEL

NONCONFORMANCE REPORT

S/u # — N/A

1. PROJECT NAME: Midland	JOB NO. 7220			19. NO. 2356	20. PAGE 1 OF 3 pgs
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 (X)Const ( )Test	15. Equip Furnished By ( )Client (X)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 RETRIEVABILITY, 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. Barclay DATE: 7-18-79

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

22. ~~Project Engineering~~ Disposition ~~Field Engineering~~ Recommended Disposition to Project Engineering

A. Q and non-Q items being mixed is not a non-conforming item.

B. Mixed pipe and hangers is not a non-conforming item.

C. Unidentified material was in the process of being removed from the area when the NCR was witten. Removal will be completed.

D. Tagged non-conforming items to be removed from the storage area.

~~XXX PROJECT ENGINEERING DISPOSITION~~ E. Uncaped pipe and valves were in the process of being ~~XX~~ inspected for cleanliness and recapped when NCR was written. This operation will be completed.

See Page ~~three~~ two continue D. Shaw 7/19/79
Block 22.

23. PROJECT DISPOSITION.

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
X			

R. Nunn ASO 7-19-79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

T.B. Barclay 8-10-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

1. Unidentified Material was removed.
2. NCR'd Hangers were Seggregated
3. all "Q" items were capped.

E. Urbanowicz 8-16-79

26. QC ACCEPTANCE E. Urbanowicz 8-16-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

See Page 3 For Concurrence

POOR ORIGINAL

1063 547

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 MORTAR 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 C.C. Hold FLAGGING. No Hold TAGS APPLIED.

"Q"-LISTED # — N/A.

Block 22 Continue.

F) SUPERVISION TO BE REINFORMED PER IOM OF MAINTENANCE/STORAGE REQUIREMENTS THAT EXTRA MATERIAL, BEING REMOVED FOR CLEANING PURPOSES, WILL BE SEGREGATED PER FPC - 4.000

Skip Ahmad 8/6/79

POOR ORIGINAL

NONCONFORMANCE REPORT (CONT'D)

20. PAGE 3 OF 3 19. NCR NO. 2356

24. Disposition Concurrence Item

REWORK	REJECT	REPAIR	USE AS IS
X			

PROJECT FIELD ENGINEER — DATE 8/6/79

PROJECT ENGINEER — DATE

See pg. 1 Blk. 24

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

0

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 - JB67		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.

R

17. REPORTED BY: Michael J. Moore — DATE: 7-19-79

18. VALIDATED BY: for LW 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 ~~prper~~ proper documentation. (SS) K.L. Miller for Dale Short 7/30/79

23. PROJECT ENGINEERING DISPOSITION

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
CPS			

PROJECT FIELD ENGINEER — DATE 7/31/79

PROJECT ENGINEER — DATE

PROJ CONSTR QC ENGINEER — DATE 8-2-79

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

Documentation received and reviewed MJM 8-15-79

POOR ORIGINAL

26. QC ACCEPTANCE: Michael J. Moore — 8-15-79

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

1865 350

X

M

BECHTEL

POOR ORIGINAL

S/u 2-BBB

NONCONFORMANCE REPORT

2387

1. Project Name	Job No.			19. No. ~~2378~~	20. Page 1 of 2
MIDLAND	7220				
2. Unit(s)	3. Drawing/Part No.	Rev	4. Item Description	5. Item Location	
2	M-602 SH. 3	G/F1	PIPE SPOOL 2ECC-1-S-602-3-1	COMBO SHOP	
6. P.O. Or Spec No.	7. Serial No.	8. Replacement Part P/N N/A REV N/A SER NO. N/A	9. Source	10. Contractor/Supplier	
N/A	N/A		CONSTRUCTION	N/A	

11. Inspection Criteria: [X] DWG [X] SPEC [ ] OTHER — IR NO. P-1.20-M-602-3-1 — NO. SPEC 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: SPEC M-204 PARA. 6.5.1 READS IN PART: "FIELD FABRICATED AUSTENITIC STAINLESS STEEL PIPING SHALL BE CLEANED, AFTER COMPLETION OF SUBASSEMBLY WORK, TO REMOVE ALL MILL SCALE, RUST, GREASE, OIL, DIRT, FLUX, WELD SPLATTER, OXIDATION (NOT HEAT TINT), AND OTHER CONTAMINANTS. ... FINAL SUBASSEMBLY CLEANING SHALL INCLUDE A FLUSH AND RINSE WITH WATER MEETING THE WATER QUALITY (CONT. PAGE 2)

17. Reported By: Tom Arnfield — Date: 7-27-79
18. Validated By: [illegible] C.R. Barclay — Date: 7-27-79

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

22. [X] Field Engineering Disposition [X] FIELD ENGINEERING RECOMMENDED DISPOSITION TO PROJECT ENGINEERING

USE AS IS ~~Rework~~: Piping will be cleaned in accordance with project engineering approved FCR-M-1846 (attachment "A"). (J.A.) K.G. Miller for DALE SHORT

23. Project Engineering Disposition: FCR-M-1846, which has interim approval by resident engineering revises Specification M-204 allowing the option to clean piping after completion of a subassembly or a final assembly. Project Engineering therefore concurs with Field Engineering to "use as is." (Per telecon with T. Ballweg of Project Engineering, 8/6/79.) [illegible] 8/6/79

24. Disposition Concurrence

REWORK	REJECT	REPAIR	USE AS IS
			X

[illegible] 8/7/79
PROJECT FIELD ENGINEER — DATE

[illegible] 8-6-79
PROJECT ENGINEER — DATE

C.R. Barclay 8-7-79
PROJECT CONSTR QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

25. Disposition Results

FCR M-1846 To Spec. M-204 allows the option of cleaning pipe subassemblies after completion of installation.

L. Brown 8-7-79

26. QC Acceptance

L. Brown 8-7-79
QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

1063 551

(CONTINUED FROM BLOCK #16)

REQUIREMEN. 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 IPE 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

POOR ORIGINAL

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] Barclay DATE: 7-31-79

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

22. (X) Field Engineering Disposition (X) 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] 8/1/79

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

rej ork	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 DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE [signature] 8/3/79

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

1063 353

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:

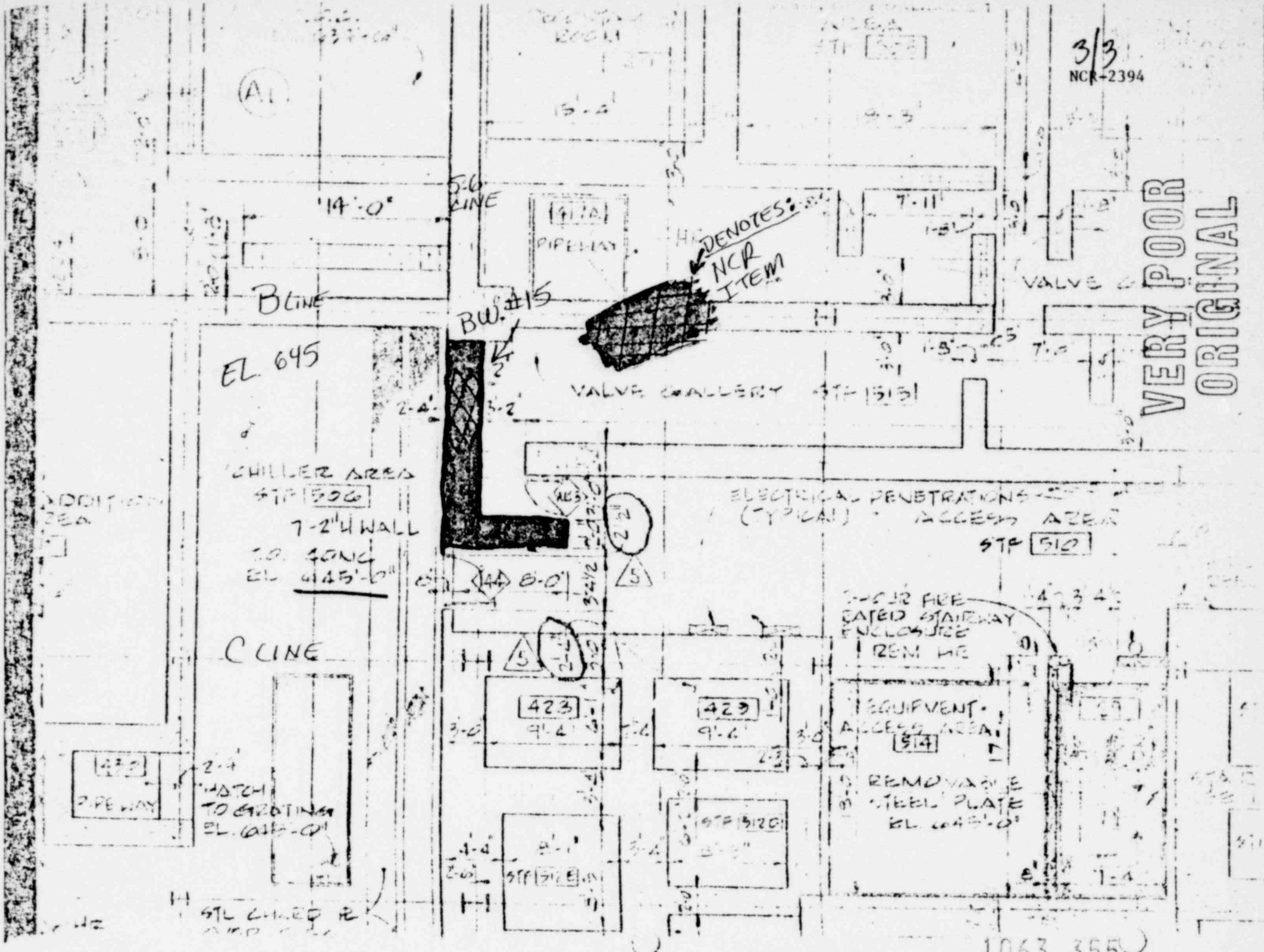
-The condition was not corrected until nightshift when it was reported as acceptable by Q.C.

-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


3/3
NCR-2394
VERY POOR ORIGINAL
DENOTES NCR ITEM
BW. #15
B LINE
C LINE
EL 645
14'-0"
5'-6" LINE
VALVE GALLERY STR 513
CHILLER AREA STR 506
7-2" H WALL
T.O. CONC EL 645'-0"
ELECTRICAL PENETRATIONS (TYPICAL)
ACCESS AREA STR 510
423
429
PIPEWAY
EQUIPMENT ACCESS AREA STR 514
REMOVABLE STEEL PLATE EL 645'-0"
STL CHECKED PL
1063 355

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. Disby RE

AAO Review: Group Supervisor _____

Date: _____

(W/NI)

NONCONFORMANCE REPORT S/U System - INDETERMINATE

1. PROJECT NAME: MIDLAND	JOB NO.: 07220			19. NO. 2410	20. PAGE 1 OF 1
2. UNIT(S): INDETER-MINATE	3. DRAWING/PART NO.: N/A	REV	4. ITEM DESCRIPTION: 8 EACH 4"X3"X20'± 5/5 ANGLE - Ht No. 90063	5. ITEM LOCATION: Poseyville	
6. P.O. ~~OR CPEG NO.~~: F-37323Q	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV SER NO.	9. SOURCE: Supplier	10. CONTRACTOR/SUPPLIER: J.T. Ryerson	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. R.100-10146 NO. G-33 R6	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. G-33 Requires in part, the submission of a Statement of Conformance and Certified Material Test Reports with the Shipment. Contrary to this, no documentation has been received for this angle. Hold Pending Disp. & Hold Tags Applied. "Q" List No is Indeterminate.

17. REPORTED BY: R. Valentine DATE: 8.3.79

18. VALIDATED BY: C.A. Faraday DATE: 8-6-79

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

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

Procurement Supervisor shall obtain the proper documentation.

J.P. Betts 8/15/79

23. PROJECT ENGINEERING DISPOSITION

ORIGINAL

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
DCC			

PROJECT FIELD ENGINEER: [signature] DATE: 8/15/79

PROJECT ENGINEER: [signature] DATE: 8/15/79

PROJ CONSTR QC ENGINEER: [signature] DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Doc. Received.

R. Valentine 8.15.79

26. QC ACCEPTANCE: R. Valentine 8.15.79

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

1063 357

material certification

Ryerson

BECHTEL POWER CORP.
P.O. BOX 2167
MIDLAND, MI. 48640
ATTN: DEBBIE HICKERSON

DATE	OUR ORDER NO.	YOUR ORDER NO.
8-10-79	248 349	F37323Q

ITEM DESCRIPTION		HEAT NUMBER
8 Pcs. STNLS ANG 304 A/P	4 x 3 x 1/4 x 20/22'	90063

This document certifies that the material described above was shipped on your order and that the attached data is a true copy of the test report furnished by the producer with said material.

JOSEPH T. RYERSON & SON, INC.

By _____ (Authorized Agent)

1063 358

COPYRIGHT 1978 JOSEPH T. RYERSON & SON, INC.
FORM 230.44.2 APRIL 78

CERTIFIED MATERIAL TEST REPORT

ITT Harper
8200 Lehigh Avenue
Morton Grove, Illinois 60053

Customer Order OA 37384
Register 12152
Item
Quantity 5452# 47pcs

To J.T. RYERSON & SON INC
P.O. Box 6000 A
Chicago, ILL 60680
Attn: Test Report Dept

12150063
RT 40832

Date Apr 6, 1979
Stock

Item Description

Item	Shape, Size and Length	Alloy	Heat No	Weight/Pieces
	Hot Extruded Structural			
	4 x 3 x 1/4 Unequal Leg Angle			
	20'-22' R/L	T-304 SS	90063	5452# 47

Specifications JTR 7120-E

ASTM A 479 - 76
ASTM A-276 77

Chemical Composition

Heat	C	Mn	Si	P	S	Cr	Ni	Cu	Mo	Co	N	
90063	.055	1.87	.-	.0[illegible]	.023	18.74	9.61	.30	.29	.13	.043	

Mechanical Properties

HEAT	Tensile Strength psi	Yield Strength psi	Elong-ation %	R of A %	Hard-ness RB					
90063	87,700	48,500	56	77						

Other MACRO OK

We hereby certify that the contents of this report are correct and accurate and in compliance with the requirements of your order and reference specifications.

ITT Harper

Manager, Quality Control

POOR ORIGINAL

CERTIFIED MATERIAL TEST REPORT

ITT Harper
8200 Lehigh Avenue
Morton Grove, Illinois 60053

To J.T. RYERSON & SON INC
P.O. Box 8000 A
Chicago, ILL 60680
Attn: Test Report Dept

Customer Order OA 37384
Register 12152
Item
Quantity 5452# 47pcs

1215006 3
RT 40832

Date Apr 6, 1979
Stock

Item Description

Item	Shape, Size and Length	Alloy	Heat No	Weight/Pieces
	Hot Extruded Structural			
	4 x 3 x 1/4 Unequal Leg Angle			
	20'-22' R/L	T-304 SS	90063	5452# 47

Specifications JTR 7120-E

ASTM A 479 - 76
ASTM A-276 77

Chemical Composition

Heat	C	Mn	Si	P	S	Cr	Ni	Cu	Mo	Co	N	
90063	.065	1.77	.-	.0[illegible]	.023	18.74	9.61	.30	.29	.13	.043	

Mechanical Properties

HEAT	Tensile Strength psi	Yield Strength psi	Elong-ation %	R of A %	Hard-ness HR					
90063	87,700	48,500	56	77						

POOR ORIGINAL

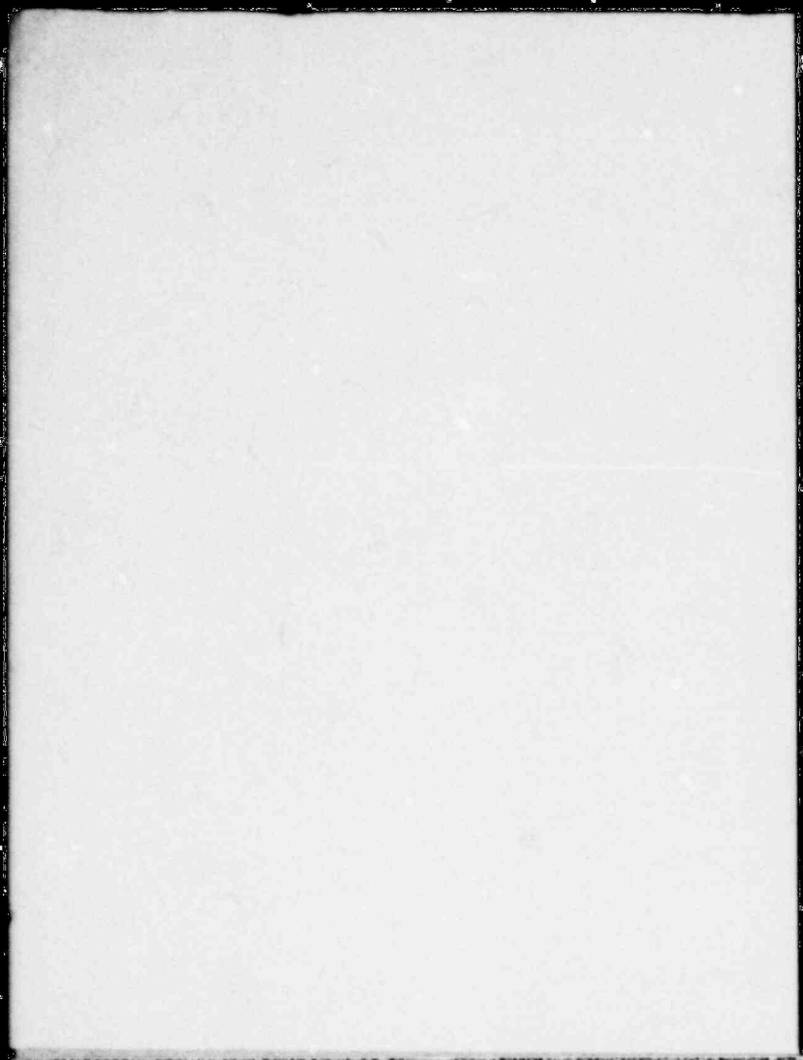
Other MACRO OK

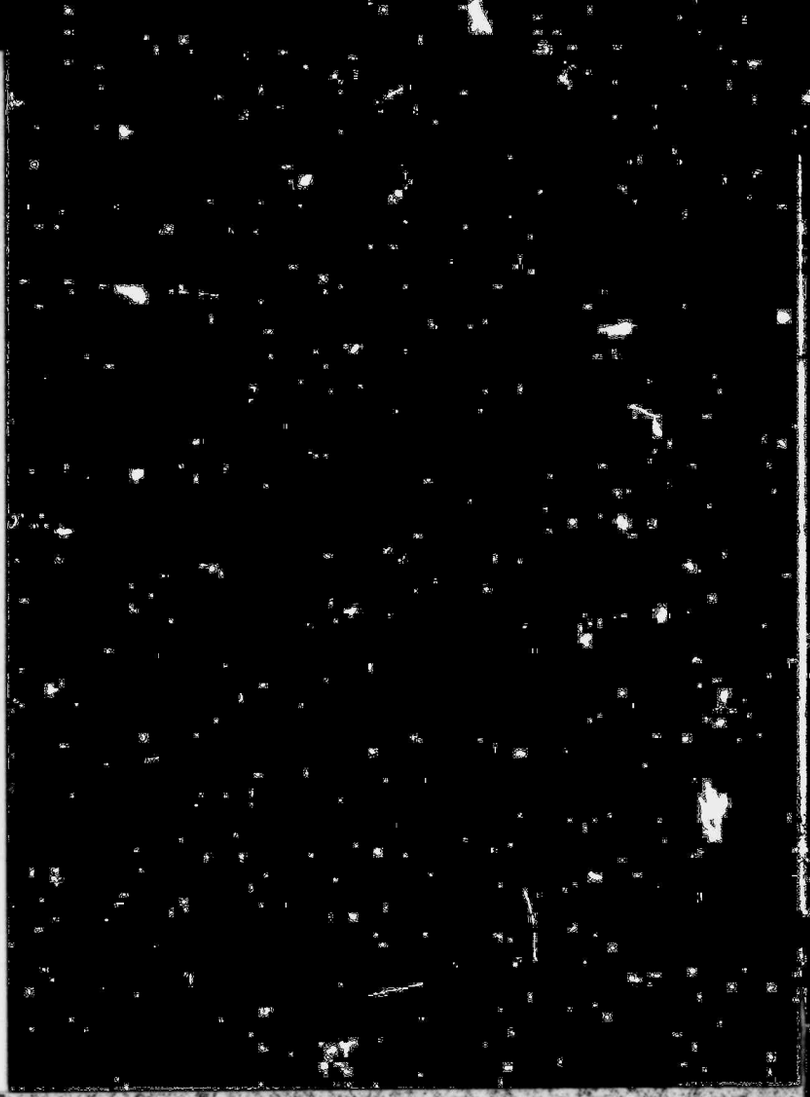
We hereby certify that the contents of this report are correct and accurate and in compliance with the requirements of your order and reference specifications.

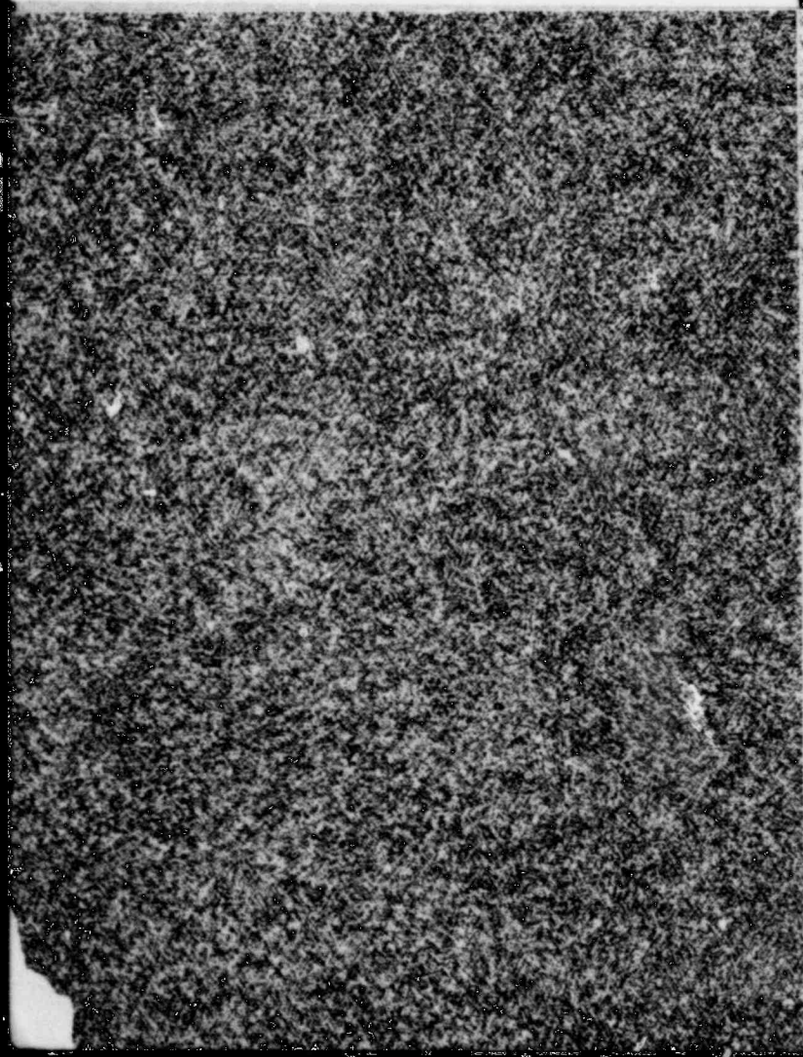
ITT Harper

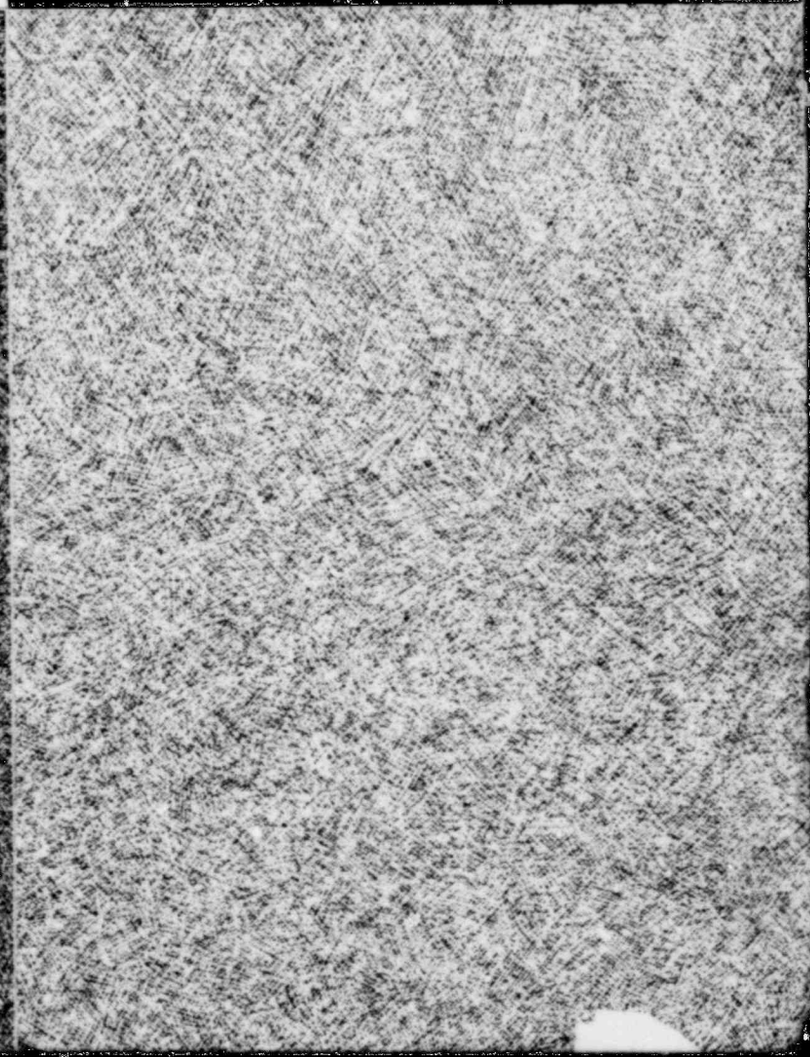
Manager, Quality Control

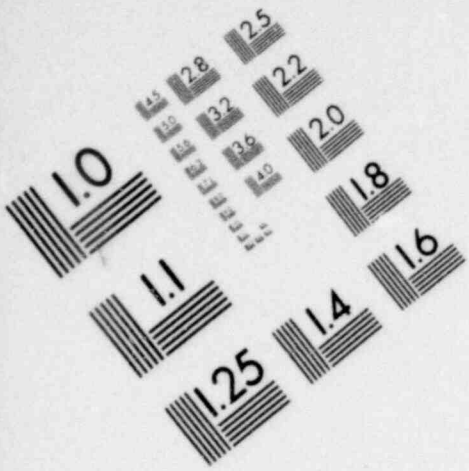
1063 360











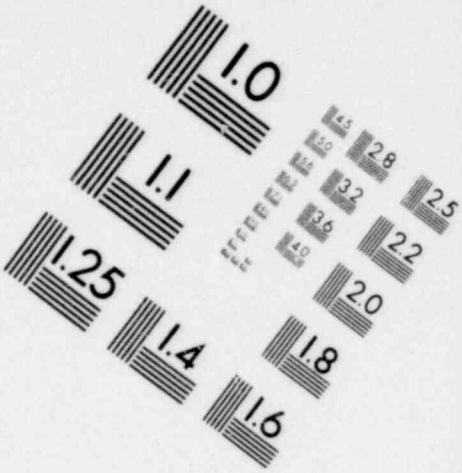
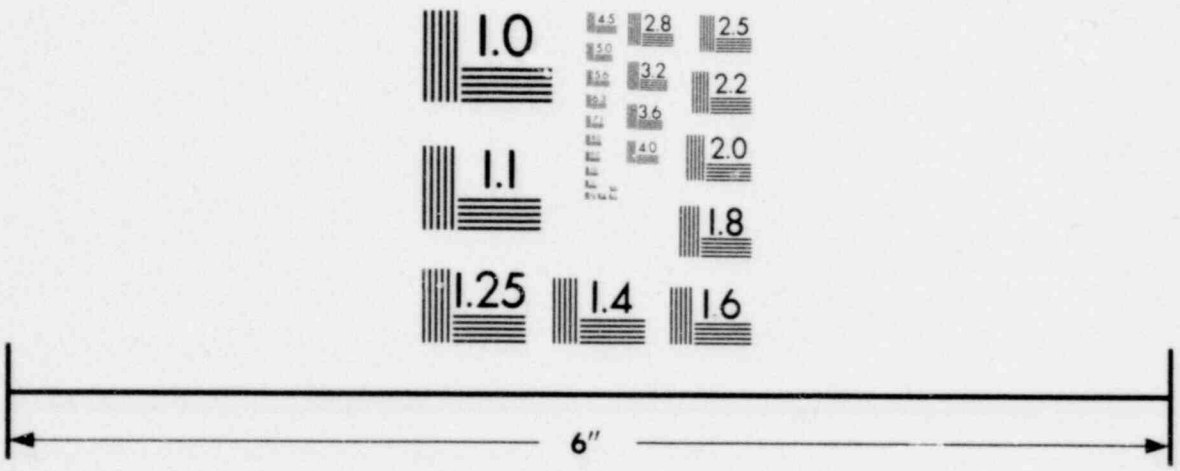
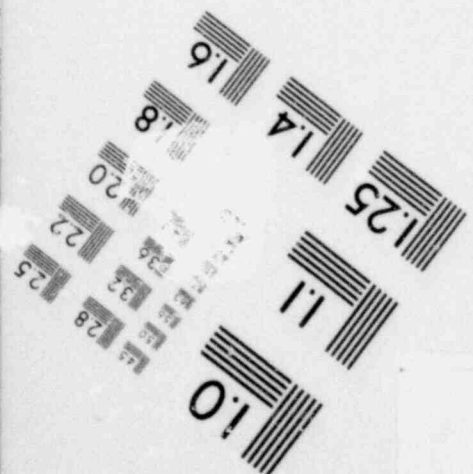
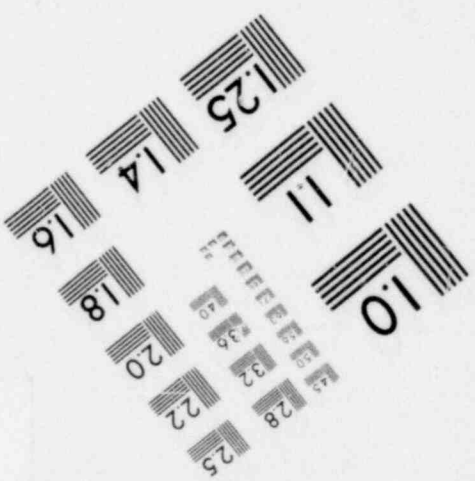
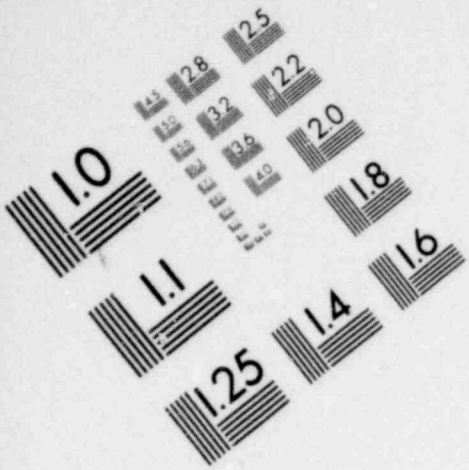


IMAGE EVALUATION TEST TARGET (MT-3)









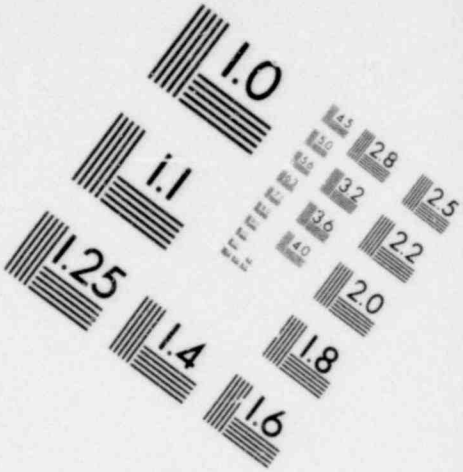
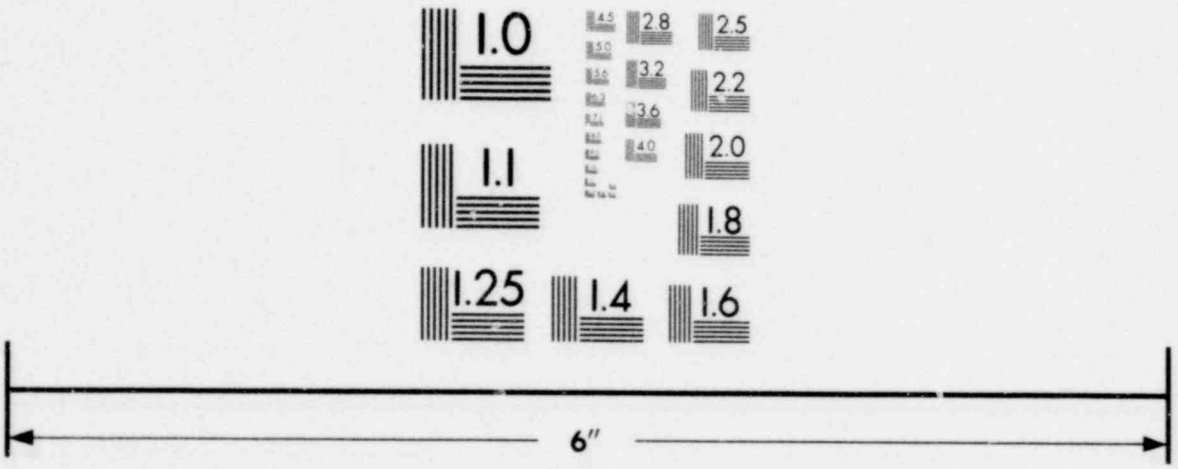
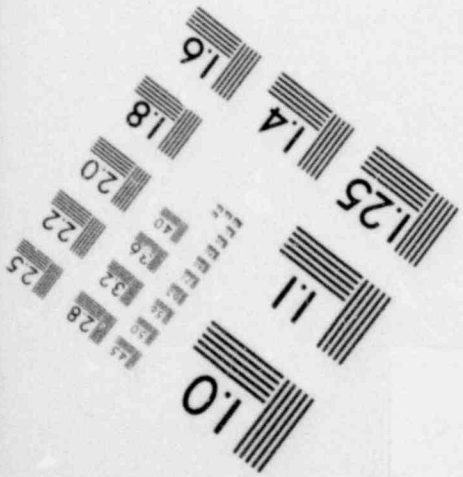
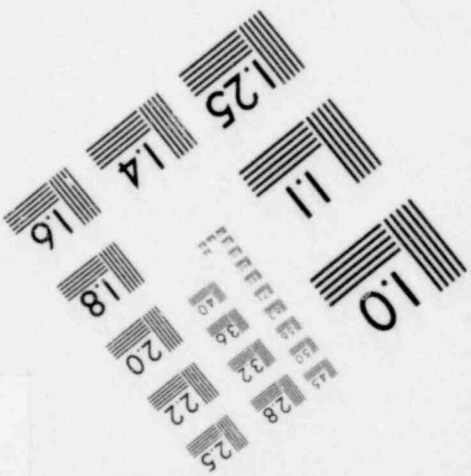
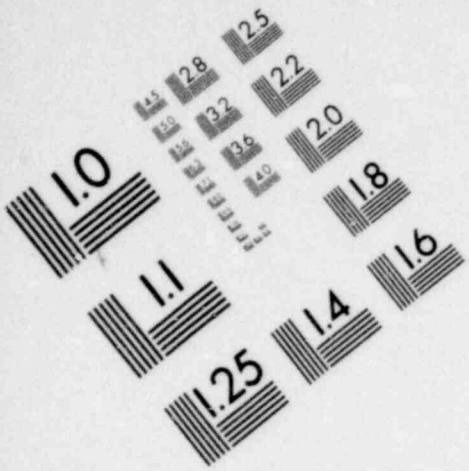


IMAGE EVALUATION TEST TARGET (MT-3)









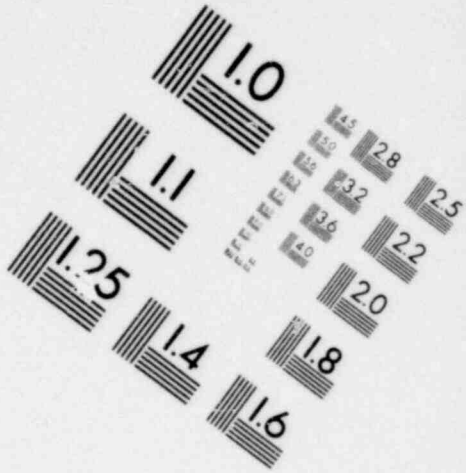
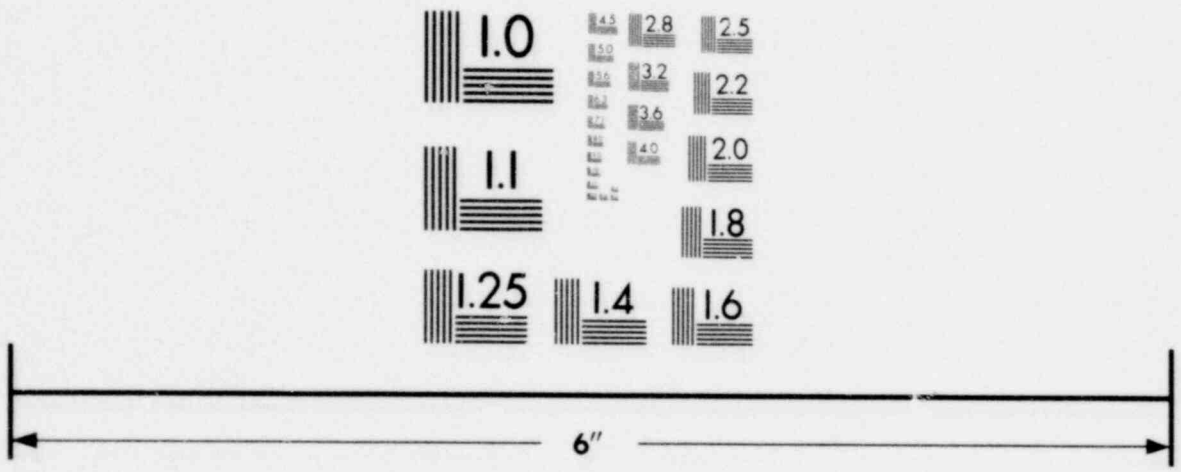
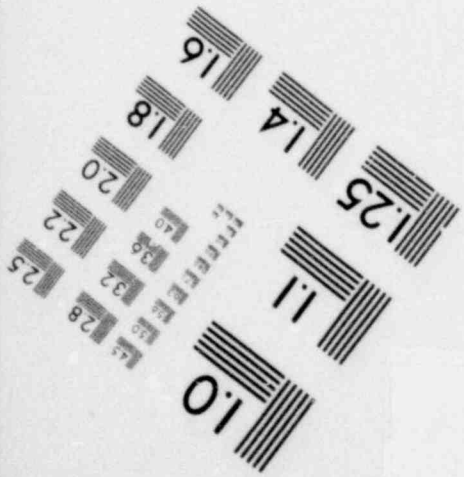
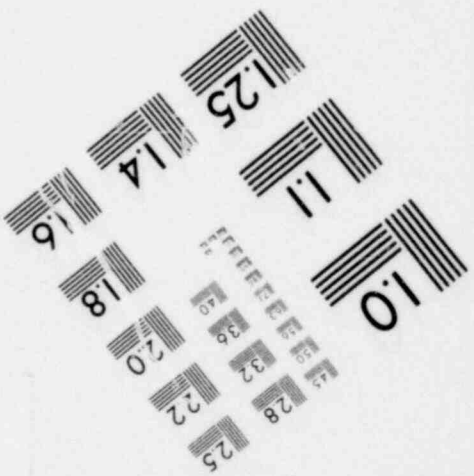


IMAGE EVALUATION TEST TARGET (MT-3)







CERTIFIED MATERIAL TEST REPORT

ITT Harper
8200 Lehigh Avenue
Morton Grove, Illinois 60053

Customer Order OA 37384
Register 12152
Item
Quantity 5452# 47pcs

To J.T. RYERSON & SON INC
P.O. Box 8000 A
Chicago, ILL 60680
Attn: Test Report Dept

12150063
RT 40832

Date Apr 6, 1979
Stock

Item Description

Item	Shape, Size and Length	Alloy	Heat No	Weight/Pieces
	Hot Extruded Structural			
	4 x 3 x 1/4 Unequal Leg Angle			
	20'-22' R/L	T-304 SS	90063	5452# 47

Specifications JTR 7120-E

ASTM A 479-76
ASTM A 276 77

Chemical Composition

Heat	C	Mn	Si	P	S	Cr	Ni	Cu	Mo	Co	N	
90063	.055	1.77	.[illegible]	.[illegible]	.023	18.74	9.61	.30	.29	.13	.043	

Mechanical Properties

HEAT	Tensile Strength psi	Yield Strength psi	Elong-ation %	R of A %	Hard-ness RB			
90063	87,700	48,500	56	77				

POOR ORIGINAL

Other MACRO OK

We hereby certify that the contents of this report are correct and accurate and in compliance with the requirements of your order and reference specifications.

ITT Harper

1064 001

Manager, Quality Control

QUALITY CONTROL INSPECTION RECORD

JOB NO. 7220 R 1.00, REV. 8

QC FILE NO.
LOG NO. 42674
QCIR NO. R-100-10146

1. MATERIAL RECEIVING: STAINLESS ANGLE 2.
3. POCI NO. 7220/R-1.00 REV 8 4. QCIR PAGE 1 OF 3
5. ITEM(S)/6. SCOPE: 8 each 4"x3"x20'0" S/S ANGLE
HT NO. 90063

7. INSPECTION REFERENCE CRITERIA: d. OTHER FPG-4.000 Rev. 3
a. M/R NO. CA-3315, REV 0
b. PO NO. F-37323Q, REV 0
c. SPEC NO. G-33, REV 6

8. PREPARED BY: R Valentine DATE: 7.17.79 9. REVIEWED BY Deana Delaney DATE: 7/17/79

RECORD COPY

10. ACT No.	11 DESCRIPTION			12. C	13. E	14. ITEM/S ACCEPTANCE
1.0	PREREQUISITES					RW 7.17.79
1.1	Inspection criteria reviewed.			R		
1.2	Inspection criteria understood.			R		
1.3	Storage instructions.			R		
2.0	DOCUMENTATION					
2.1	Shop Inspected Material W/G-321-D:	Appl. ☐		R		
or 2.2	Shop Inspected Material W/O G-321-D:	Appl. ☐		R		
or 2.3	Non-Shop Inspected Material:	Appl. ☒	SEE REMARKS	R		
3.0	VISUAL EXAMINATION					RW 7.17.79
3.1	Storage level.			I		
3.2	Physical damage.			I		
3.3	Shop Inspected Material.	Appl. ☐		S		
or 3.4	Non-Shop Inspected Material. Characteristics from Appendix A: 30, 31, 32	Appl. ☒	a. Configuration	S		RW 7.17.79
			b. Characteristics	I		RW 7.17.79
4.0	IDENTIFICATION AND TRACEABILITY					
4.1	Material identification			I		1064 002
4.2	Traceable			I		

3

POOR ORIGINAL

SFP 20405

CONTINUED ON BACK

QCI-66

CONTINUED FROM FRONT

10. ACT NO.	11. DESCRIPTION	12. C	13. E	14. ITEM(S) ACCEPTANCE
5.0	USER'S TESTS			
5.1	Test requirements reviewed: Required ☐ Not Required ☒ Sampling Requirements: _____ Test Requirements: _____ Acceptance Criteria: _____	R		AW 7.17.79
5.2	Tests Performed ☐ M&TE No. _____ Calib. Due Date _____	T		
	or Tests Witnessed ☐ M&TE No. _____ Calib. Due Date _____	W		
5.3	User's Test Report No. _____ Passed ☐ Failed ☐	R		
6.0	RELEASE FOR STORAGE/INSTALLATION			
6.1	Material preparation	I		
7.0	REVIEW OF SUPPLEMENTARY RECORDS			
7.1	Material received on MRR No. AEO-10146	R		
8.0	EXCEPTIONS			
8.1 or	No exceptions noted. Material released for storage or installation.	R		
8.2	The designated exceptions identified under Block 15 for Activity No. _____ remain open and recorded on NCR___ for further processing in accordance with PSF G-3.2.	R		

15. REMARKS

Items inspected 100%.
R. Valentine
7.17.79

A.T. 2.3: Expedite S of C AND CMTR.
R. Valentine
7.17.79

1064 003

16. COMPLETED INSPECTION RECORD REVIEWED AND ACCEPTED BY: _____ DATE: _____

SFP 2040 (BACK)

Rev. 1

SALES ORDER—CUSTOMER COPY

SLM	PHONE	MTH	BRANCH/OFFICE NO.	S P	T E	S R	SHIP CLASS	CUSTOMER ORDER NUMBER	DATE OF ORDER	FLT	REGISTER NUMBER	LEO	ACCOUNT NO.	BUY	CREDIT
530		1	067016					F373230	07 06 79	01	249349				

JOH CONTROL NO.

DATE SHIPPED

BILLED TO
BECHTEL POWER CORP
PO BOX 2157
MIDLAND, MI 48640

SHIPPED TO
SAME
3500 E MILLER RD
MIDLAND, MI

VIA

QUANTITY	DESCRIPTION	PRICE	DISCOUNT
9	STEEL ANG 304 A/P GREEN		

L3 X L4
20 9 10 22 FT 8

Bundle

ANGLE

1 - 19' 11"
1 - 22' 4"
1 - 20' 4"
1 - 20 5"
1 - 20 7"
1 - 21' 1"
1 - 21' 5"
1 - 20' 6"

HT #

967 SHIPPING WGT. 90063 HEAT NO.

SHIPPING WGT. HEAT NO.

SHIPPING WGT. HEAT NO.

SHIPPING WGT. HEAT NO.

CA-3315

VENDOR Lt Pipe & Steel
P.O. NO. F373230 DATE RECD 7/31/79
MAR NO. 1/0 Bundle
VIA
CHECKED BY D. W. Schaefer
FIELD INSPECTION BY Greg Hill 7-31-79
PARTIAL ☐ COMPLETE ☒
STORAGE Poseyville Yard L-7

POOR ORIGINAL

CONTAINS

SUBJECT TO CHECK
CONCEALED DAMAGE
Name C. Brando
Date 7-12-79

PLUS % TAX $

WGT. FREIGHT RATE
WGT. PROTECTION
WGT. CHGS

GROSS AMOUNT
TERMS % DISC.
NET TO COLLECT

CUSTOMER DELIVERY RECEIPT

Ryer
an Inlar

METALS + PRO

BOSTON
BUFFALO
CHARLOTTE
CHATTANOOGA
CHICAGO
CINCINNATI
CLEVELAND
DALLAS
DAYTON
DENVER
DETROIT
ELK GROVE, IL
HOUSTON
INDIANAPOLIS
KANSAS CITY
LOS ANGELES
MILWAUKEE
MINNEAPOLIS
NEW YORK
PHILADELPHIA
PITTSBURGH
ST. LOUIS
SAN FRANCISCO
SEATTLE
SPOKANE
WALLINGFORD

NATIONAL DIVIS
PLASTICS, MACH
GRINDING.

SHIPPING N
& PACKING

THANK YOU
FOR YOUR

1084 004

0

a Lab

NONCONFORMANCE REPORT

S/U CODE INDETERMINATE

1. PROJECT NAME: MIDLAND	JOB NO. 7220			19. NO. 2413	20. PAGE 1 OF 1
2. UNIT(S): INDETERM	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: 153 - 1/4"-20 x 1 1/4" CAD. PLATED HEXHEAD BOLTS A-307		5. ITEM LOCATION: QC HOLD WHSE #1
6. P.O. OR SPEC NO.: F-34294	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N ____ REV ____ SER NO. N/A	9. SOURCE: SUPPLIER	10. CONTRACTOR/SUPPLIER: UNISTRUT CORP.	
11. INSPECTION CRITERIA: ( ) DWG ( ) SPEC (X) OTHER IR NO R.100-10241 NO 6-3 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: ASTM STANDARD PART 1 ~~APRIL 1973~~ 1976 REQUIRES "BOLT HEADS SHALL BE MARKED (BY RAISED OR DEPRESSED MARK AT THE OPTION OF THE MANUFACTURER) TO IDENTIFY THE MANUFACTURER." CONTRARY TO THIS, NO MANUFACTURER'S MARK APPEARS ON THE BOLT HEADS. PER PQCIR-100 REV. 8 APPENDIX B, A 35 ITEM SAMPLE WAS TAKEN. ALL ITEMS IN SAMPLE HAD THIS NONCONFORMANCE. HELD FOR ENGINEERING DISPOSITION. Q LIST NUMBER INDETERMINATE. QC HOLD TAG APPLIED.

17. REPORTED BY: [signature] DATE: 8/3/79

18. VALIDATED BY: [signature] DATE: 8-6-79

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

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

Non-complying ~~mark~~ material to be returned to supplier

[signature] 8/17/79

23. PROJECT ENGINEERING DISPOSITION

POOR ORIGINAL

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
	X		

[signature] 8-20-79
PROJECT FIELD ENGINEER DATE

[signature] 8/27/79
PROJECT ENGINEER DATE

[signature] 8/27/79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

MATERIAL RETURNED TO VENDOR ON SHIPPER 7220/8214 DE 9-4-79

26. QC ACCEPTANCE [signature] 9-4-79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

1064 005

X

AA W

NONCONFORMANCE REPORT

S/U nos. - see p. 2 block 16

1. PROJECT NAME: MIDLAND	JOB NO.: 7220				19. NO. 2439	20. PAGE 1 OF 2
2. UNIT(S): 1+2	3. DRAWING/PART NO.: SEE Block 16	REV: N/A	4. ITEM DESCRIPTION: SEE Block 16		5. ITEM LOCATION: AUX BLDG	
6. P.O. OR SPEC NO.: N/A	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N MA REV N/A SER NO. N/A	9. SOURCE: CONSTRUCTION	10. CONTRACTOR/SUPPLIER: N/A		
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER I/A NO. N/A NO. FPM-2.000 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) FLD		

16. NONCONFORMING CONDITION:

FIELD PROCEDURE FPM-2.000 REV 0, PAR-5.3 STATES IN PART: "THE LAST WELD BETWEEN THE PUMP NOZZLE AND THE FIRST ANCHOR POINT, THE PUMP ALIGNMENT IS MONITORED TO INSURE THAT EXCESSIVE STRAIN IS NOT IMPOSED ON THE NOZZLE BY THE PIPING."

CONTRARY TO THIS THE FOLLOWING PUMPS HAVE THE WELD BETWEEN THE PUMP NOZZLE AND FIRST ANCHOR POINT (CONTD)

17. REPORTED BY: M. Julian — DATE: 8-11-79 AM 8-13-79

18. VALIDATED BY: R.D. Barclay — DATE: 8-13-79

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

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

23. PROJECT ENGINEERING DISPOSITION

POOR ORIGINAL

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

Reinspection reveal THE CONDITION STATED IN BLOCK 16 IS NOT A NON-CONFORMING CONDITION. PUMP CONDITION IS SATISFACTORY.

M. Julian
8-15-79

26. QC ACCEPTANCE: M. Julian — 8-15-79

QC ENGINEER — DATE

AUTHORIZED INSPECTOR — DATE

1064 006

BLOCK 16

MADE UP WITH NO EVIDENCE OF PUMP MONITORING BEING DONE, LEAVING EXCESSIVE STRAIN INDETERMINATE.

PUMP	LINE	"Q" LIST	S/U
OP-73	SUC/DIS	4.173	OEGA
1P-73A	SUC/DIS	4.163	1EGA
1P-73B	SUC/DIS	4.163	1EGA
2P-73A	SUC/DIS	4.173	2EGA
2P-73B	SUC/DIS	4.173	2EGA
1P-05A	SUC/DIS	4.382	1ALA
2P-05A	SUC/DIS	4.392	2ALA
2P-05B	SUC, ON PUMP EXHAUST ON TOP	4.392	2ALA
1P-05B	SUC/DIS INLET ON TURBINE	4.382	1ALA
1P-60A	SUC/DIS	4.103	1BCA
1P-64A	SUC/DIS	4.123	1BKA
1P-60B	SUC/DIS	4.103	1BCA
1P-64B	SUCTION	4.123	1BKA
2P-60A	SUC/DIS	4.113	2BCA
2P-64A	SUC/DIS	4.133	2BKA
2P-60B	SUC/DIS	4.113	2BCA
2P-64B	SUC	4.133	2BKA
OP-76A	SUC/DIS	4.143	OECC
OP-76B	SUC/DIS	4.143	OECC
1P-58A	SUC/DIS	4.036	1BGC
1P-58B	SUC/DIS	4.036	1BGC
1P-58C	SUCTION	4.036	1BGC
2P-58A	SUC/DIS	4.046	2BGC
2P-58B	SUCTION	4.046	2BGC
2P-58C	SUCTION	4.046	2BGC

PUMP	LINE	"Q" LIST	S/U
1VP-02A	DISCHARGE	4.578	1GJA
1VP-02B	SUC/DIS	4.578	1GJA
1VP-02C	SUC/DIS	4.578	1GJA
1VP-02D	SUC/DIS	4.578	1GJA
2VP-02B	SUC/DIS	4.578	2GJA
2VP-02C	SUC/DIS	4.578	2GJA
2VP-02D	SUC/DIS	4.578	2GJA

32 HOLD TAGS APPLIED, ONE TO EACH PUMP

1064 007

D

BECHTEL

NONCONFORMANCE REPORT

S/U CODE Indeterminate

1. PROJECT NAME: MIDLAND	JOB NO. 7220			19. NO. 2452	20. PAGE 1 OF 1
2. UNIT(S): INDETERM.	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: VARIOUS BURNDY PARALLEL SPLICES CAT# YSM18 YSM14 YSM10		5. ITEM LOCATION: QC HOLD WHSE #1
6. P.O. ~~OR SPEC NO.~~: F-37338	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N ____ REV ____ SER NO. N/A	9. SOURCE: SUPPLIER	10. ~~CONTRACTOR~~/SUPPLIER: BEARD CAMPBELL CO.	
11. INSPECTION CRITERIA: ( ) DWG ( ) SPEC (X) OTHER IR NO R1.00-10-249 NOG-33 rev-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: ( ) Client ( ) Eng (X) FLD	

16. NONCONFORMING CONDITION: TECHNICAL SPECIFICATION G-33 rev. 7 REQUIRES Statement of CONFORMANCE, Contrary to this NO Statement of Conformance WAS received. HOLD for ENGINEERING DISPOSITION 2. QC HOLD TAGS APPLIED TO NONCONFORMANCES. "Q" Number is Indeterminate

17. REPORTED BY: [signature] DATE: 8/16/79

18. VALIDATED BY: SIG J. E. Russell/mlb DATE: 8/17/79

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

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

PROCUREMENT TO OBTAIN STATEMENT OF CONFORMANCE
R. Freeman 8-22-79
B. Matthews 8-21-79

23. PROJECT ENGINEERING DISPOSITION

POOR ORIGINAL

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
(X)			

[signature] PROJECT FIELD ENGINEER DATE 8-21-79

PROJECT ENGINEER DATE

J. E. Russell/mlb PROJ CONSTR QC ENGINEER DATE 8/21/79

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Documentation received and reviewed and found acceptable
RE 8/24/79

26. ~~QC ACCEPTANCE~~ [signature] QC ENGINEER DATE 8/24/79

AUTHORIZED INSPECTOR DATE

1064 008

X

NONCONFORMANCE REPORT

S/U # Indeterminate

1. PROJECT NAME	JOB NO.			19. NO.	20. PAGE
MIDLAND	7220			2462	1 OF 2

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
1&2	N/A		MISC. REPLACEMENT PARTS	WHSE #1

6. P.O. ~~OR SPEC NO.~~	7. SERIAL NO.	8. REPLACEMENT PART P/N ___ REV ___ SER NO.	9. SOURCE	10. CONTRACTOR/SUPPLIER
E-7-AC	N/A	N/A	SUPPLIER	ITE IMPERIAL (GOULD INC)

11. INSPECTION CRITERIA	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During	15. Equip Furnished By
( ) DWG (X) SPEC ( ) OTHER IR NO. R-1.00-10380 NO. E-7 REV. 6	( ) YES (X) NO	( ) YES (X) NO	(X) Rec'g ( ) Const ( ) Test	( ) Client (X) Eng ( ) FLD

16. NONCONFORMING CONDITION: UPON COMPLETION OF REVEIW OF DOCUMENTATION PACKAGES FOR E-7. GOULD S.O. 84-56122 Y & 84-56122 X THE FOLLOWING DISCREPANCIES WERE NOTED. (84-56122-Y). THE G-321-D COLUMN 8 WAS NOT COMPLETED BY THE SUPPLIER. COLUMN 9 AND BLOCK 22 WERE NOT SIGNED BY THE BECHTEL SHOP INSPECTOR. (RELEASE TWX WAS RECIEVED 8/3/79). BLOCK 16 (QUANTITY) STATES 790 SHOULD BE 803. (continued)

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
[signature]	8/2/79	[signature]	8/20/79

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

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

PROCUREMENT TO PROVIDE PROPER DOCUMENTATION
BTM R Sherman 8/27/79

23. PROJECT ENGINEERING DISPOSITION

PROPER ORIGINAL

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
(X)			

[signature] 8-27-79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

[signature] 8-27-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

Proper documentation recieved, reveiwed, & accepted.
[signature]
8/27/79

26. QC ACCEPTANCE [signature] 8/27/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

1064 009

(Block 16 cont.)
The wrong specification Rev's have been Recorded on the Statement of Conformance. S of C. Shows Rev. 5 Should show Rev. 6.

(84-56122-X)
The wrong P.O. and specification Rev's have been recorded on the S. of C. The S. of C. shows The P.O. Rev 8 Should show Rev. 9. The specification Shows Rev. 5 Should show Rev. C. No Painting Certification has been received.

Q number is indeterminate. Hold for Engineering disposition.
* Hold tags applied to the nonconforming items.

Block 16 (cont.)
A conditional release is granted to allow the installation of the Electrical Equipment on this NCR. Corrections or removal can be accomplished without causing damage or contamination to associated plant equipment or structure.

A. Dyer ASB 8-21-79 — PFE — Date
L.T. Russell/WHB 8/21/79 — PQAE — Date
R.C. Holder 8/21/79 — PQAE — Date

* HOLD TAGS will be supplied per work orders ISSUED per day.

POOR ORIGINAL

BECHTEL MIDL

11328
BF-BC

WU INFOMASTER 1-027217M214 08/02/79
TWX BECHTEL A SFO
025 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.#
7220-E7-AC

REV #
5

SUPPLIER
GOULD-BROWN BOVERI CORP.

CITY
WEST MINISTER

STATE
MD

P.O. ITEM	ID NUMBER	P.O. ITEM	ID NUMBER
MISC. & LISTED EQUIPMENT A QTY OF 858			
73H	73H	86W	86W
72K	72K	86X	86X
80A	80A	86Y	86Y
80D	80D	86FF	86FF
80F	80F	86GG	86GG
80H	80H	86HH	86HH
80J	80J	86LL	86LL
80M	80M	86JJ	86JJ
80N	80N	86LL	86LL
80P	80P		
80Q	80Q		
80W	80W		
85A	85A		
85B	85B		
85C	85C		
86A	86A		
86B	86B		
86C	86C		
86D	86D		
86E	86E		
86F	86F		
86G	86G		
86H	86H		
86I	86I		
86J	86J		
86K	86K		
86L	86L		
86M	86M		
86N	86N		
86P	86P		
86Q	86Q		
86R	86R		
86S	86S		
86U	86U		
86V	86V		

DATE RELEASED FOR SHIPMENT: 7-31-79

RECEIVED
AUG 03 1979
QUALITY CONTROL
BECHTEL JOB 7220
SIGNATURE

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.....

WITH THE FOLLOWING EXCEPTIONS: APPROVED EXCEPTION BECHTEL ENGINEERING ACCEPTING SDDR #1151
X SUPPLIER'S STATEMENT OF CONFORMANCE FOLLOWS BY MAIL
X DOCUMENTATION PACKAGE WITH SHIPMENT

FRED ZIKOWITZ
8-2-79/1220

1441 EST

BECHTEL MIDL

POOR ORIGINAL

D

BECHTEL

NONCONFORMANCE REPORT

S/U Non Testable

1. PROJECT NAME	JOB NO.	19. NO 2192	20. PAGE 1 OF 1
MIDLAND	7220		

2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION
Common	C-95	3	STRUCTURAL CONCRETE PAVING	

6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART P/N N/A REV ___ SER NO. ___	9. SOURCE	10. CONTRACTOR'S FILE
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	NO Spec C-210/A	( ) YES (X) NO	(X) YES ( ) NO	( ) Rec'g Insp ( ) Const ( ) Test	( ) Const ( ) Eng'g ( ) FED

16. NONCONFORMING CONDITION: SPEC C-210/A SEC. B.5.1 STATES IN PART that... SELECTION & approval of all proposed compaction equipment shall be on the basis of demonstrated ability to accomplish adequate compaction." ALSO TWX 5283 lists equipment which is QUALIFIED for "Q & NON-Q" LISTED AREAS. Contrary to the above, a hand held compactor (Go-Go-Stick) was used to compact an area that was once mixed Approx. 6'x2'x1.5'. ALSO USED WAS a "Ground Buddy" compactor that is not identifiable to ~~listed on~~ TWX 5283. (1) Hold Tag Affixed, Q-List 1022, Hold for Engr Use

17. REPORTED BY	DATE	18. VALIDATED BY	DATE
C Fairbanks	8/30/79	G.B. Barclay	8-30-79

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

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

This is not a non-conforming condition
1) Geo-Tech during qualification of equipment has stated that the page-block need not be qualified as a soil
2) TWX 5283 contained a misprint. Equipment mentioned as GP 1000 should have been stated as GP 1000-R (qualified records) & procedure which GP-1000 must satisfy that equip must GP 1000-R in fact qualified.

23. PROJECT ENGINEERING DISPOSITION 23 PROJECT ENGINEERING DISPOSITION (illegible) 8/31/79

24. DISPOSITION CONCURRENCE N/A

rework | reject | repair | use as is

PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

26. QC ACCEPTANCE

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

POOR ORIGINAL

1064 012

QUALITY ACTION REQUEST

cc: J. Corley
D. Miller
W. Bird

AI: H-6

From: (1) R. C. Hollar		
To: (2) W. L. Barclay	Control Document ref.: (3) N/A	QAR Ident. No.: (4) SD-249

Action Requested: (5)

NCR 2312 identifies six (6) terminations that were performed with a crimping tool found to be faulty. Subsequent investigation by CPCo revealed seven (7) additional terminations that was done by the same crimping tool which had not been identified by Quality Control.

Recommended Action:

1. Investigate concern and determine root cause.
2. Provide means to proclude repetition
3. Re-evaluate all cases where a crimping tool was found faulty and determine if any related terminations were overlooked.

(Continued on the following page 2 6f 2)

Signature: (6) R.C. Hollar	Date: (7) August 1, 1979	Reply Requested by: (8) August 15, 1979

Reply: (9)

Signature: (10)	Date: (11)
Action Verified: (12)	Date: (13)

8/2/78

WHITE – Return to sender CANARY – Addressee's file PINK – Sender's file

BPC 20877
G1001649-05

Quality Action
Request

Recommended Action (continued)

4. Document and control all nonconforming conditions in accordance with SF/PS.' 7-3.2.

QUALITY ACTION REQUEST

cc: J. Corley
D. Miller
W. Bird

AI: 1.7

COPY

From: L. A. Dreisbach (1)		
To: J. F. Newgen (2)	Control Document ref.: NCR - 2157 (3)	QAR Ident. No.: SD-250 (4)

Action Requested: (5)

The following was identified by CPCo with regard to Bechtel NCR 2157 on grouting of Anchor bolts for wall hangers:

1. Provide adequate justification for the statement "Field engineering . . . believes this to be an isolated case.

or

2. Take action to determine the extent of the problem and provide a schedule for any corrective action that may result from the investigation.

Signature: L. A. Dreisbach (6)	Date: 8/2/79 (7)	Reply Requested by: 8/24/79 (8)

Reply: (9)

Signature: (10)		Date: (11)
Action Verified: (12)		Date: (13)

8/2/74

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BPC-20877
G1001649-05

Corrected Copy

S/U Non-Testable

NONCONFORMANCE REPORT

1. PROJECT NAME: Midland	JOB NO.: 7220			19. NO. 2157	20. PAGE 1 OF 2
2. UNIT(S): Common	3. DRAWING/PART NO.: N/A	REV: N/A	4. ITEM DESCRIPTION: Grouting of Anchor Bolts for Wall Hangers	5. ITEM LOCATION: Auxiliary Building	
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-1.10-526 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 7220/C-306, Rev. 4, Sect. 7.0 states in part: "Visual inspection of the process of grouting bolts shall be performed to assure correct installation." Contrary to the above, Hanger #(619-6-1) / 26-OHBC-19-H1 located in the East Wing Wall Elevation 596'+ (6' E/7.9, 6' S/C) was removed due to relocation. 16 (1" Dia.) grouted anchor bolts were used. When the bolts were cored out, each bolt had a void in the top back portion of each hole. "Q"-List #2.105. Hold for Engineering Disposition. 1 Hold Tag Applied.

17. REPORTED BY: Kathy J. Gunser DATE: 5/31/79

18. VALIDATED BY: W. S. Bradshaw DATE: 5/31/79; T. L. Barclay 5-31-79

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

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

Field engineering performed several sample grout tests (see attached field engineer's report.) and ~~XXXXX~~ believe this to be an isolated case. The above ~~M~~ mentioned conditions will be reworked to meet specification C-306. J. J. Betts 6/19/79

23. PROJECT ENGINEERING DISPOSITION

ORIGINAL

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
X			

J. J. Schmitz JAJB 6/19/79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

T. L. Barclay 6-22-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

The other (3) plates of Hanger #619-6-1 were removed & inspected. Small superficial voids were found. The in-process inspection of the cosmetic repair work was witnessed by QC Inspector K. Gunser on 6/27/79 and documented on the attached Field Inspection Report.

26. QC ACCEPTANCE K. Gunser 6/27/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

1064 016

BLOCK 16 CONTINUED:

The above 16 anchors were regrouted. The lower right plate was removed revealing a void in the top portion of the anchor 1/2" High x 3" Deep & 3" Across.

Kathy J. Heisser 5/16/79

W. L. Barclay/jar 5/16/79

POOR ORIGINAL

Corrected Copy

QUALITY ACTION REQUEST

cc: J. Corley
D. Miller
W. Bird

AI: H-13

From: (1)
L. A. Dreisbach

To: (2)
J. F. Newgen

Control Document ref.: (3)
Control Doc. Ref. FPE 7.000

QAR Ident. No.: (4)
SD-251

Action Requested:

Concern: (5)

The QA Tracking Program has indicated a marked increase in the number of occurrences of cable and wire terminations not being installed in accordance with Field Procedure FPE 7.000.

The discrepancies occuring most often were:

(1) No gap between the cable insulation and the barrel of the lug;

(2) Nicked conductors.

Eighty-two (82) discrepancies were noted in this July Reporting Period. The discrepancies were in DR's listed on the following page.

(Continued on Page 2)

Signature: (6)

Date: (7)
8/24/79

Reply Requested by: (8)
9/24/79

Reply: (9)

Signature: (10)

Date: (11)

Action Verified: (12)

Date: (13)

8/2/74

WHITE – Return to sender

CANARY – Addressee's file

PINK – Sender's file

BPC 20877
G1001649-05

Deficiency List

DR's

E-1246	E-1398
E-1287	E-1402
E-1288	E-1403
E-1289	E-1404
E-1290	E-1406
E-1291	E-1408
E-1294	E-1415
E-1295	E-1416
E-1296	E-1417
E-1299	E-1420
E-1357	E-1422
E-1374	E-1423
E-1381	E-1426
E-1382	E-1432
E-1383	E-1451
E-1384	E-1452

Recommended Action

1. Project Engineering to provide acceptance criteria for nicked conductors. (For example, 4 or less nicked or broken strands for a #8 stranded cable).

2. Personnel performing crimping and terminations to be instructed in the proper termination procedures of FPE-7.000.

QUALITY ACTION REQUEST

cc: J. Corley
D. Miller
W. Bird

AI: 1-9

From: W. J. Creel WADreesbach (1)		
To: J. F. Newgen (2)	Control Document ref.: 7220-J-218(Q) Rev. 8 (3)	QAR Ident. No.: SD-254 (4)

Action Requested: (5)

J-218(Q) paragraph 5.4.1 states in part "The instrument and sample lines shall be installed in accordance with the applicable drawings, . . ."

Contrary to the above instrument lines for OPT-1826(G1) FSK JI0-0040 and OPT-1826(G2) FSK JI0-0041 are not installed per drawings.

(a) The instrument stand for OPT-1826(G1) is located 3" south east of the location shown on the drawing resulting in tubing to the manifold not being installed per drawing dimensions.

(Continued on Page 2)

Signature: RCK (6)	Date: 8/17/79 (7)	Reply Requested by: 9/17/79 (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
G1001649-05

(b) The tubing between the backflush valve item-K and the tee item-I is not to drawing dimensions. The 9 5/8" T.L. dimension is about 6" and tubing from the manifold to the backflush valve is pulled out of position to allow hook-up.

Requested Action:

(1) Instrumentation field engineering evaluate installed condition of tubing and stands and provide appropriate disposition (Remove and reinstall and/or revise drawings).

(2) Construction rework as required.

QUALITY ACTION REQUEST

cc: J. Corley
D. Miller
W. Bird

AI: H-10

From: W. J. Creel (1)		
To: J. F. Newgen (2)	Control Document ref.: 7220-J-218(Q) Rev. 8 (3)	QAR Ident. No.: SD-255 (4)

Action Requested: (5)

J-218(Q) paragraph 5.5.3.K states "Extreme care should be taken to avoid arc-strikes upon adjacent surfaces. Arcs should be started upon the weld groove face or upon previously deposited weld metal below the crater."

Contrary to the above the weld adapter (at the root valve for OPT-1826(G2)), item - A on FSK-JI0-0041 has four arc strikes on the top side: (1) 1/4" x 1/32", (1) 1/16" dia., (1) 3/16" x 1/32" and (1) 1/8" x 1/16".

Requested Action:

(1) Obtain an engineering evaluation and disposition for the above condition.

(2) Implement appropriate repair/rework as required.

Signature: (6)	Date: 8/17/79 (7)	Reply Requested by: 9/7/79 (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
G1001649-05

1064 022

REQUEST

D. Miller
W. Bird

AI: H-11

From: (1)		
W. J. Creel		
To: (2)	Control Document ref.: (3)	QAR Ident. No.: (4)
J. F. Newgen	7220-J-218(Q) Rev. 8	SD-256

Action Requested: (5)

J-218(Q) paragraph 6.3 states in part "All stainless steel in Ni-base alloy materials must be handled in such a manner that it is not in contact with lead, zinc, copper, or other nonferrous low melting elements or alloys to prevent surface contamination." Also Paragraph 6.4 states in part "Austenitic stainless steel tubing 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."

Contrary to the above instrument tubing runs for OPT-1826(G1), FSK J-10-0040, and OPT-1826(G2), FSK-JI0-0041 in the service water building have areas

(Continued on Page 2)

Signature: (6)	Date: (7)	Reply Requested by: (8)
W. A. Dreyfach	8/17/79	9/7/79

Reply: (9)

Signature: (10)	Date: (11)
Action Verified: (12)	Date: (13)

8/2/74

WHITE – Return to sender CANARY – Addressee's file PINK – Sender's file

BPC 20877
G1001649-05

coated with touch-up compound used for touch-up preservation on galvanized supports.

Requested Action:

(1) Clean the above identified tubing to meet the requirements of specifications J-218(Q).

(2) Provide training to those personnel responsible for installation of instrument tubing and supports regarding cleanliness/contamination protection requirements of specification J-218(Q).

1064 021

QUALITY ACTION REQUEST

cc: J. Corley
D. Miller
W. Bird
J. Hedges

AI:

From: L. A. Dreisbach (1)		
To: J. F. Newgen (2)	Control Document ref.: (3)	QAR Ident. No.: SD-257 (4)
Action Requested: Initiate corrective action of the adverse quality trend identified in the attached trend report. (5)		
Signature: L A Dreisbach (6)	Date: 8/27/79 (7)	Reply Requested by: 9/14/79 (8)
Reply: 8.29.79 (9)		
Signature: (10)		Date: (11)
Action Verified: (12)		Date: (13)

8/2/74

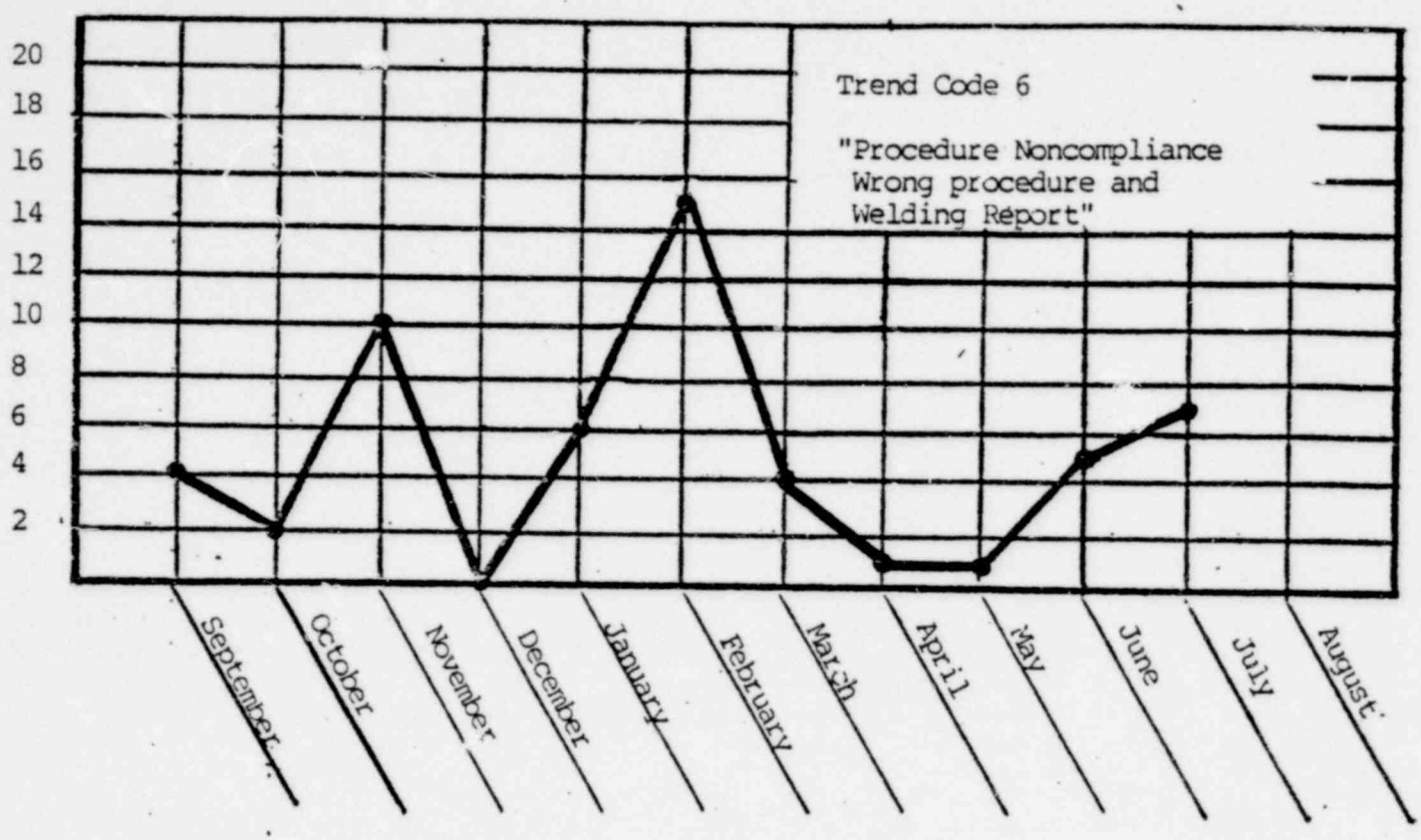
WHITE – Return to sender CANARY – Addressee's file PINK – Sender's file

BPC 20877
G1001649-05

1064 025

Performance Area 9

"Welding and Filler Metal"



In June, the five occurrences of nonconpliance were:

Incomplete penetration - 2
Partial weld instead of full - 2
Fillet weld used where penetration weld specified

In July, the seven occurrences were:

Under size socket welds - 1	NCR 2361
Welder not qualified - 1	NCR 2349
Weld not per specification - 4	NCR 2297, 2299, 2341, 2348
Weld without approval - 1	NCR 2365

QAR-257 has been issued to the site manager to initiate corrective action of this adverse quality trend.

1064 026

QUALITY ACTION REQUEST

cc: J. Conley
D. Miller
W. Bird

AI: H-14

From: P. E. Falkenborg VADuerbach (1)		
To: J. F. Newgen (2)	Control Document ref.: Attached trend charts Code #4 & 10-July 1979 (3)	QAR Ident. No.: 258 (4)

Action Requested: (5)

The references for the second time during the past twelve months, document a rise in the following discrepancy types:

- Pipe Contamination
- Improper material segregation
- Inadequate storage & instructions
- Water in Panels
- In place inspections not performed
- Improperly protected Q valves

You are requested to institute corrective action to reverse this adverse trend.

Signature: (6) VADuerbach	Date: 8/24/79 (7)	Reply Requested by: 9/7/79 (8)

Reply: (9)

Signature: (10)		Date: (11)	
Action Verified: (12)		Date: (13)	

3/72/74

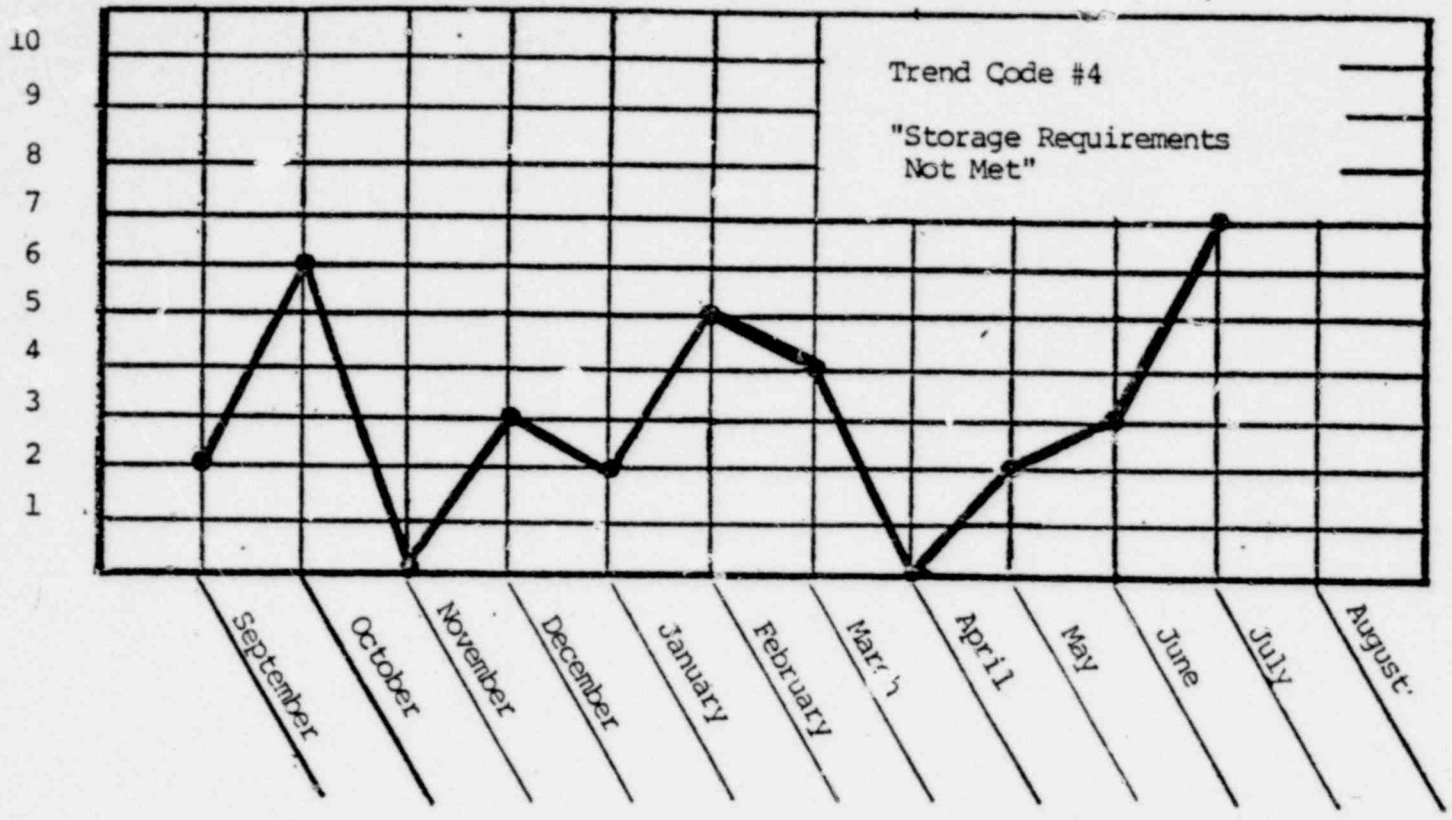
WHITE – Return to sender CANARY – Addressee's file PINK – Sender's file

BPC-20877
G1001649-05

1064 027

Performance Area 8

"Storage, Maintenance, Handling, Rigging"



In June, the three discrepancies were:

Motor and fan bearing maintenance not performed - 2
QAR #197 issued for maintenance of equipment and material not performed.

In July, the seven occurrences included:

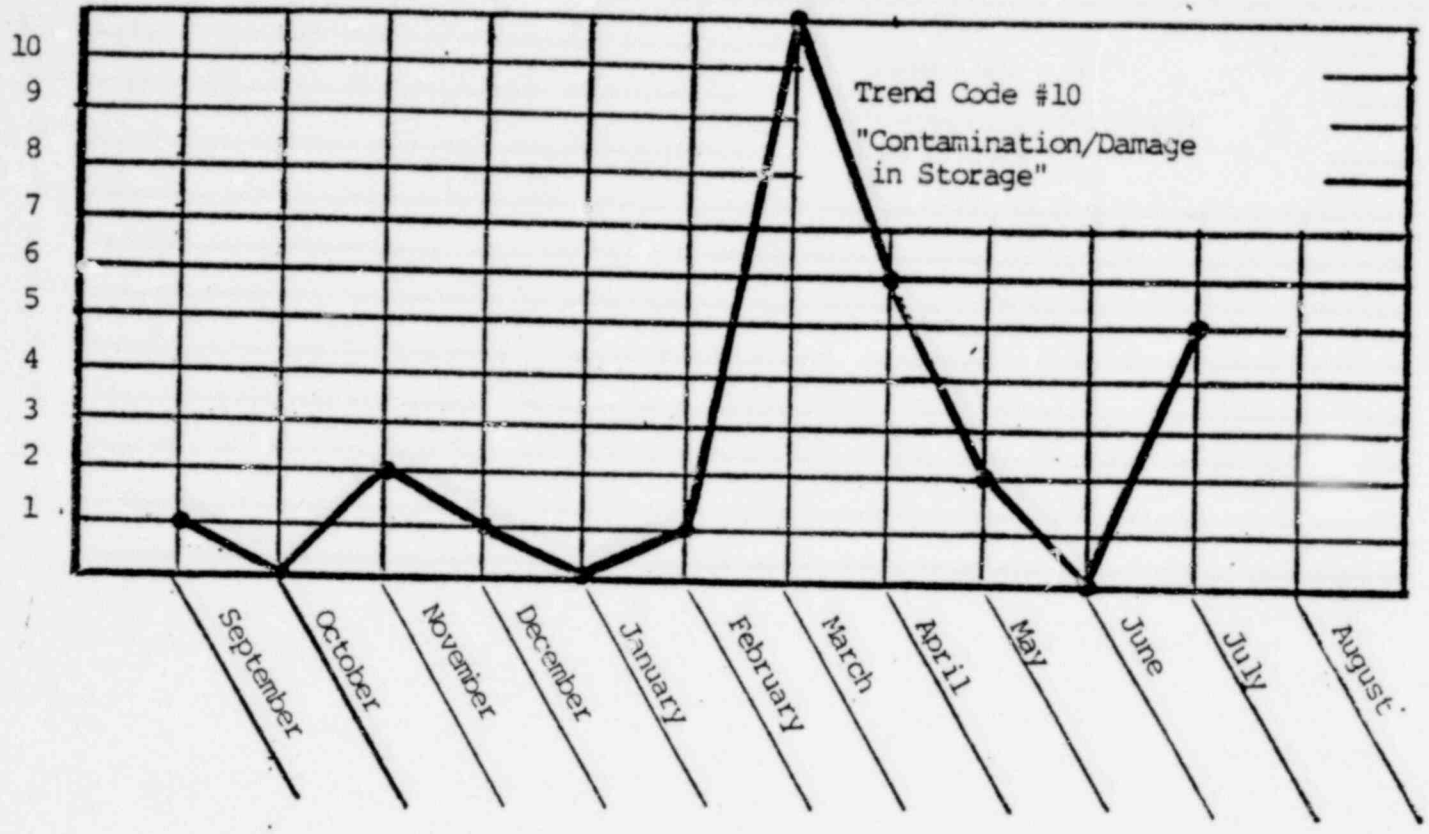
2 DR's - inadequate storage of fans
NCR's - issued for inadequate material segregation (2); in place inspection not performed; valves not COATED; pipe contaminated #2355 & 2356.
QAR #243 - issued for inadequate field storage instructions.

QAR #258 has been issued to the site manager to initiate corrective action of this adverse quality trend.

1054 023

Performance Area 8

"Storage, Maintenance, Handling & Rigging"



In July, the five occurrences included:

Water in panels
Inadequate storage
Contaminated piping (2)
QAR #223 issued for inadequate maintenance

1064 029

QUALITY ACTION REQUEST

cc: J. Corley
W. Bird
D. Miller

AI: H15

From: W. J. Creel (1)		
To: W. L. Barclay (2)	Control Document ref.: SF/PSP G-3.2 Rev. 4 (3)	QAR Ident. No.: SD-260 (4)

Action Requested: (5)

Paragraph 3.4 states "Nonconforming items documented on a nonconformance report may be released for installation or further work subject to the following conditions:" Subparagraph 5) states "Concurrence of the Authorized Inspector is obtained for ASME Code items."

Contrary to the above NCR 2346 (weld Jt. FW-1 on 1 ELB-12-631-3-1) conditionally released on 7/17/79 does not have concurrence signature of the Authorized Inspector.

Note: Block 12 of the NCR "ASME Authorized Inspection Required" is marked "Yes".

(Continued on the following attached page)

Signature: W. J. Creel (6)	Date: 8/29/79 (7)	Reply Requested by: 9/14/79 (8)

Reply: (9)

Signature: (10)	Date: (11)
Action Verified: (12)	Date: (13)

8/2/74

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BPC 20877
G1001549-05

Requested Actions:

(1) Obtain Authorized Inspector concurrence for NCR 2316 conditional release.

(2) Review other conditionally released NCR's for ASME "ANI Required" items and:

a) Determine if similar case exists.

b) Take appropriate corrective action as necessary.

QUALITY ACTION REQUEST

cc: J. Corley
D. Miller
W. Bird

AI: H16

From: W. J. Creel (1)		
To: W. L. Barclay (2)	Control Document ref.: SF/PSP G-3.2 Rev. 4 (3)	QAR Ident. No.: SD-261 (4)

Action Requested: (5)

Paragraph 3.4 states, "Nonconforming items documented on a nonconformance report may be released for installation or further work subject to the following conditions:" Subparagraph 2) states "Traceability and identification as a nonconforming item are maintained by tagging or other appropriate method so that the item can be removed or corrected at a later date prior to use."

Contrary to the above items on NCR's 2156 and 2183 were found with NCR tags missing.

(1) 2 of the 10 items checked on NCR 2156 were not tagged.

(2) 1 of the 8 items checked on NCR 2183 was not tagged.

(Continued on the following attached page)

Signature: W. J. Creel (6)	Date: 8/29/79 (7)	Reply Requested by: 9/28/79 (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
G1001649-05

1064 032

Note: Items were apparently tagged and tags were removed or inadvertently lost.

Requested Actions:

(1) Replace tags as required for NCR's noted above.

(2) Determine the extent of the problem of missing NCR tags and take appropriate corrective action.

Note: Provide data with response regarding extent of tag problem.

QUALITY ACTION REQUEST

cc: J. Corley
D. Miller
W. Bird

AI: H18

From: (1) R. C. Hollar		
To: (2) L. H. Curtis	Control Document ref.: (3) NCR 2492	QAR Ident. No.: (4) SD-262

Action Requested: (5)

Inconjunction with Castleberry IOM to Group Supervisors dated April 12, 1979. Subject: Clarification to Drawings and Specifications (attached) the following requests are made:

1) Please review attached TWX 5283, dated 8/7/79 - Subject: Qualification of Compaction Equipment and determine if this information should be included as formal change to Specification C-211.

(Continued on the following attached page)

Signature: (6) R. C. Hollar	Date: (7) 9/4/79	Reply Requested by: (8) 9/21/79

Reply: (9)

Signature: (10)	Date: (11)
Action Verified: (12)	Date: (13)

8/2/74

WHITE – Return to sender CANARY – Addressee's file PINK – Sender's file

BPC-20877
G1001649-05

2) Attached NCR Part 1 Field Disposition, states that hand held compaction equipment have not been formally qualified in accordance with Specification C-211 paragraph 8.5.1 requirements. Please evaluate and determine if hand held compaction equipment should be qualified and included in referenced specifications.

NONCONFORMANCE REPORT

S/U Non Testable

1. PROJECT NAME: MIDLAND	JOB NO.: 7220			19. NO.: 2492	20. PAGE 1 OF 1
2. UNIT(S): Common	3. DRAWING/~~PART NO.~~: C-45	REV: 3	4. ITEM DESCRIPTION: STRUCTURAL "Q" LISTED BACKFILL	5. ITEM LOCATION: DIESEL GENERATOR AREA	
6. P.O. OR SPEC NO.: N/A	7. SERIAL NO.: N/A	8. REPLACEMENT PART P/N N/A REV ____ SER NO. ____	9. SOURCE: CONST.	10. CONTRACTOR/SUPPLIER: N/A	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER IR NO. C-102-122 NO. Spec. C-211(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 ( )Eng (X)FLD	

16. NONCONFORMING CONDITION: SPEC. C-211(7) SEC. 8.5.1 STATES IN PART that... "SELECTION & APPROVAL OF ALL PROPOSED COMPACTION EQUIPMENT SHALL BE ON THE BASIS OF DEMONSTRATED ABILITY TO ACCOMPLISH ADEQUATE COMPACTION." ALSO TWX 5283 LISTS EQUIPMENT WHICH IS QUALIFIED for "Q & NON-Q" LISTED AREAS. Contrary to the above, a hand held compactor (PO-GO-STICK) was used to compact IN AREA that was UNDERMINED APPROX. 6'x2'x1.5'. ALSO USED WAS A "GROUND POUNDER" COMPACTION that is not ~~listed on~~ TWX 5283. (1) HOLD TAG APPLIED, "Q" LIST 1.002, HOLD for ENG. DISP.

Initiated to

17. REPORTED BY: C Fiebler DATE: 8/30/79

~~19~~ VALIDATED BY: [illegible] Barclay DATE: 8-30-79

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

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

This is not a non-conforming condition
1) Geo-Tech during qualification of equipment has stated that the "pogo stick" need not be qualified because of its limited use.
2) TWX 5283 contained a misprint. Equipment identified as GD 7000 should have been stated as GP 7000. Qualifications records & process which QC surveilled verify that equip. i.e GP7000 was in fact qualified.

~~23 PROJECT ENGINEERING DISPOSITION~~

23 PROJECT ENGINEERING DISPOSITION [illegible] 8/30/79

24. DISPOSITION CONCURRENCE N/A

rework	reject	repair	use as is

[illegible] 8/30/79
PROJECT FIELD ENGINEER DATE

PROJECT ENGINEER DATE

[illegible] Barclay 8-30-79
PROJ CONSTR QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

25. DISPOSITION RESULTS

26. QC ACCEPTANCE [illegible] 8/30/79
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

ORIGINAL

1064 036

Bechtel Associates Professional Corporation

Inter-office Memorandum

To Group Supervisors

Subject Clarification to Drawings and Specifications
File: 0460, 0294

Copies to L.A. Dreisbach
J.F. Newgen
W.L. Barclay
Com Log

Date April 12, 1979

From R.L. Castleberry

Of Engineering

At Ann Arbor

Attachments 1 and 2 indicate that project engineering has clarified technical requirements without appropriate follow-up documentation. Each group supervisor is requested to review this situation with group leaders and discipline engineers to preclude reoccurrance.

R.L. Castleberry

CB/brg

Attachments: 1) ICM, L.A. Dreisbach to Distribution dated 3/21/79, LAD 758
2) Letter, J.L. ~~Corley~~ to L.A. Dreisbach dated 3/12/79, Serial 08TQA79

Job Response Required 4/18/79

Log No. ____ File No. ____

Response Read ____ Date ____

CA Action Item No. A-1.9

Route	Info		Comments
PQAE	✓		
Resp. Cor.	✓		
Elect (1)			
Elect (2)			
Civil/Mech			
Pipe/Weld			
Inst.			
Trn Cyr			
Trend			
Sect.	✓		

POOR ORIGINAL

BECHTEL ARB
TWX 5283 8/7/79 14:03

ATTN: J.F. NEWGEN

BEBC-3162
SUBJECT: CPCO/MIDLAND PLANT JOB 7220
QUALIFICATION OF COMPACTION EQUIPMENT
FILE: 0274, C-211-PR

THIS TWX LISTS WHICH EQUIPMENT IS QUALIFIED FOR Q-LISTED AND NON-Q-LISTED FILL PLACEMENT, AS REQUIRED.

EQUIPMENT TYPE	APPLICABLE MATERIAL	REQUIRED PASSES & THICKNESS
"J" FOOT WACKER (MODEL GVR 220 V)	STRUCTURAL AND RANDOM RANDON SAND	4" LIFT, 6 PASSES
M-B-W VIBROTARY (MODEL GP 7000)	STRUCTURAL AND RANDOM SAND	4" LIFT, 6 PASSES
VIBRO PLUS SELF-PROPELLED (MODEL CA-25D)	STRUCTURAL AND RANDOM SAND	6" LIFT, 10 PASSES

THE ABOVE EQUIPMENT WAS QUALIFIED ON TEST STRIPS AND BY ACTUAL USE IN NON-Q-LISTED AREAS.

RL CASTLEBERRY
ANN ARBOR/7PE2118/7220-001/ER

BECHTEL MIDL

POOR ORIGINAL

QUALITY ACTION REQUEST

cc: W. Bird
D. Miller
J. Corley

AI/808

From: R. C. Hollar (1)		
To: (2) R. L. Castleberry	Control Document ref.: (3)	QAR Ident. No.: (4) SD-200

Action Requested: (5)

NCR 2138 reported a condition where 50 amp breaker was being replaced with 100 amp breakers; however, the size of the wire for the breakers had not been increased to the capacity of the breaker. AWG #8 wire installed, whereas the National Electric Code calls for a size AWG #2 or AWG #3 wire.

On 5/24/79 Project Engineering was requested to investigate the deficiency identified in NCR 2138 and determine if the concerns were reportable under 10CFR50-55e.

On 5/25/79 Project Engineering determined that the conditions described in NCR 2138 was not reportable.

(cont on following page)

Signature: R.C. Hollar (6)	Date: 6/6/79 (7)	Reply Requested by: 6/22/79 (8)

Reply: (9)

1. The wiring for the MCC modifications identified in NCR 2138 has been dispositioned "use-as-is", therefore the reported condition is not considered reportable.
2. Based on Item 1 response, this is considered not applicable.
3. Based on Item 1 response, no action is required, however to facilitate breaker testing and be in conformance with manufacturer's design, MCCs have been modified to include coordination of line side wiring with breaker size. (Ref. IOMs, from Castleberry dated 7/3/79 & 8/10/79 attached).

Signature: R. L. Castleberry (see attached IOMs) (10)	Date: 8/10/79 (11)
Action Verified: R. C. Hollar (12)	Date: 8/17/79 (13)

8/2/74

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BPC 20877
G100 1649 05

QUALITY ACTION
REQUEST

Request Action

1. Provide justification for not reporting the above deficient conditions.

2. Determine cause of deficiency.

3. Provide schedule of actions to be taken to resolve the deficiency and preclude repetition.

Bechtel Associates Professional Corporation

Inter-office Memorandum

To L.A. Dreisbach

Date July 3, . 79

Subject Midland Plant Units 1 & 2
Job 7220
MCC line Side Wire Conductors
File: 0525.5, 0294

From R.L. Castleberry

Of Engineering

At Ann Arbor

Copies to
W. Moring
J. Newgen
R. Baltazar
W. Terrell
Com Log

Reference: 1) Quality Problem Response Request No. 808 with Attached QAR SD-200
2) NCR 7133 with Engineering Disposition

This is a complete response to reference Item 1. Reference Item 2 is attached for your information.

As requested by reference 1, we are providing the following response to subject QAR. Response numbers correspond to those of the QAR.

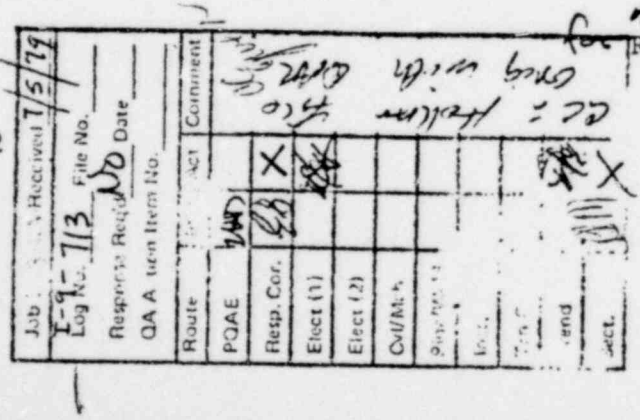
1. The wiring for the MCC modifications identified in the referenced NCR have been determined adequate for the intended service (refer to project engineering dispositioning of the referenced NCR). On this basis, the reported condition was not considered to be deficient and, therefore, not reportable.

2. Based on Item 1 response, this is not applicable.

3. Based on Item 1 response, no action is required. However, to facilitate breaker testing and to be in conformance with the manufacturer's design, current and future MCC modifications will include coordination of the line side wiring with the breaker size. MCC modifications which have already been initiated will be reviewed for any changes and modifications made accordingly. We expect this review and issue of any revised modification drawing to be completed by July 16, 1979.

for R.L. Castleberry

JK/jt
6/28/2



POOR ORIGINAL

Bechtel Associates Professional Corporation

Inter-office Memorandum

To L.A. Dreisbach

Date August 10, 1979

Subject Midland Plant Units 1 & 2
Job 7220
MCC Line Side Wire Conductors
File: 0535.5, 0294

From R.L. Castleberry

Of Engineering

At Ann Arbor

Copies to
W. Moring
J. Newgen
R. Baltazar
W. Terrell
Com Log

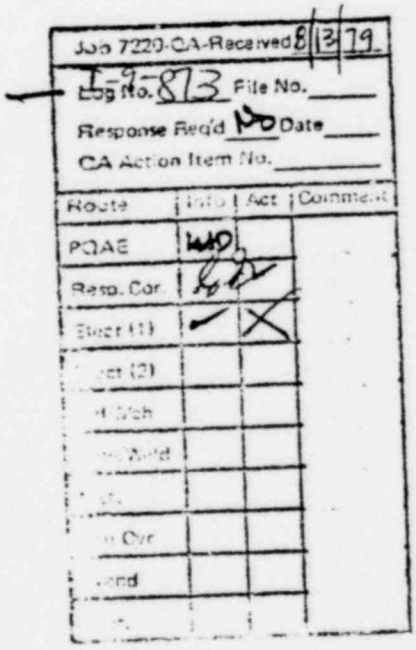
References: 1) Quality Problem Response Request No. 808 with Attached QAR SD-200
2) NCR-2138 with Engineering Disposition

This is to advise that the action forecasted in paragraph 3 of IOM to L.A. Dreisbach dated July 3, 1979 in response to Item 3 of QAR SD-200 has been completed.

MCC modifications have been reviewed and, where applicable, revised as planned.

R.L. Castleberry

JEK/jet
8/1/9



POOR ORIGINAL

QUALITY ACTION REQUEST

cc: W. Bird
D. Miller
J. Corley
AI-4813

From: Bob Abladi (1)		
To: J. Newgen. (2)	Control Document ref.: M-342 Rev 2 Spec M-204(Q) Rev 9 (3)	QAR Ident. No.: SD-204 (4)

Action Requested: (5)

1) ¶ 6.5.1 of Spec. M-204(Q) states in part (for field fab. SS. piping) that final subassembly cleaning shall include a flush and rinse with water ---- etc. 2) ¶ 4.2 of Spec. M-342(Q) states in part that subassemblies that will have inaccessible surfaces after assembly or installation shall be in their final cleanness condition as far as possible before assembly or installation.

Contrary to the above, subassemblies are not being cleaned as required after being assembled in the Combo shop.

Quality Action Requested: Comply with the project specifications or initiate the proper documents to allow waivering the reqmts.

Signature: R. Abladi (6)	Date: 6/6/79 (7)	Reply Requested by: 6/20/79 (8)

Reply: (9)

FCR M-1846 has been issued revising specification M-204 Rev. 10 paragraph 6.5.1 to allow the field the option to clean the subject pipe in it's final location. This will be accomplished through designated flush points.

(Reference IOM 0-2447 dated 7/12/79 attached)

POOR ORIGINAL

Signature: J. F. Newgen (see attached IOM) (10)	Date: 7/12/79 (11)
Action Verified: R. C. Hollar (12)	Date: 8/17/79 (13)

8/2/74

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BPC-20877
G1001649-05

Bechtel Power Corporation

Interoffice Memorandum

To L. A. Dreisbach

File No.

Subject Job 7220 Midland Project
Final Subassembly Cleaning
0-2447

Date July 12, 1979

From J. F. Newgen

Of Construction

At Midland, MI Ext. 200

Copies to
A. J. Boos
J. J. Gilmartin
J. R. Hedges

Reference: 1) Quality Problem Response Request QA Action Item #813 dated 6/6/79 (2) FCR-M-1846 dated 6/19/79

Attached is a copy of Reference (1) above with reply by engineering. Referenced FCR-M-1846 has been issued to revise required specs to give the field the option to clean subject pipe in its final location.

J. F. Newgen

JFN/GS/vmm

Job 7220-QA-Received 7 13 79
Log No. I-9-740 File No.
Response Req'd No Date
QA Action Item No. 813

Route	Info	Act	Comment
PQAE	VBJ		
Resp. Cor.		RDH	
Elect (1)			
Elect (2)			
C/I/Mch			
Pipe/Weld	✓		
Inst.			
Trn Ovr			
Trend			
Sect.			

QAR-204

5024, REV 1/78

1064 044

cc: W. Bird
D. Miller
J. Corley
AI-815

QUALITY ACTION REQUEST

From: Bob Ablondi (1)		
To: W. Barclay (2)	Control Document ref.: QCI 7220-P-1.120 Rev 3 (3)	QAR Ident. No.: SD-205 (4)

Action Requested (5):

1) Para. 6.5.1 of Spec. M-204(Q) Rev 9 states in part (for field fabricated SS piping) that final subassembly cleaning shall include a flush and rinse --- etc. 2) QCI-7220-P-1.120 requires visual inspection I (V) pursuant to the requirements of para 6.5 of the above referenced spec. in the In-Process Inspection Activities.

Contrary to the above, the spec requirements are not addressed in the Final Inspection Activities of the QCI referenced.

The requirements to flush and rinse subassemblies are not being met by construction. Ref SD-204.

Quality Action Requested: Revise the QCI to agree with the Specification.

Signature: H Ablondi (6)	Date: 6/6/79 (7)	Reply Requested by: 6/27/79 (8)

Reply: (9)

FCR M-1846 has been issued revising specification M-204 Rev. 10 paragraph 6.5.1 allowing the field the option to clean the subject pipe in its final location. Based on this specification change, Inspection Activity No. 2.4d of PQCI p-1.20 need not be revised.

(Reference attached IOM QCFM-6454 dated 8/13/79)

Signature: W. L. Barclay (see attached IOM) (10)	Date: 8/13/79 (11)
Action Verified: R.C. Haller (12)	Date: 8/17/79 (13)

8/2/74

WHITE – Return to sender CANARY – Addressee's file PINK – Sender's file

8PC-20877
G1001649-05

QCFM-6454/AI-578

Bechtel Power Corporation

Inter-office Memorandum

To L. A. Dreisbach

Date August 13, 1979

Subject Midland Project, Units 1&2
QAR SD-205

From W. L. Barclay

Of Quality Control

Copies to J. F. Newgen
R. A. Simanek

At Midland, Michigan
Job No. 07220 204

References: a) QAR SD-205, dated 6/6/79
b) QAR SD-204, dated 6/6/79
c) QA Action Item No. 315, dated 6/6/79

This is considered Quality Control's complete response to reference a) above.

Engineering has evaluated the items described in QA AI-813, (QAR SD-204) determining a specification change was warranted. Field Change Request No. M-1846 has been issued to specification M-204, Rev. 10, paragraph 6.5.1 to read in part: "Field fabricated austenitic stainless steel piping shall be cleaned, after completion of subassembly or after final assembly thru accessible connections or flush points, to remove all mill . . .".

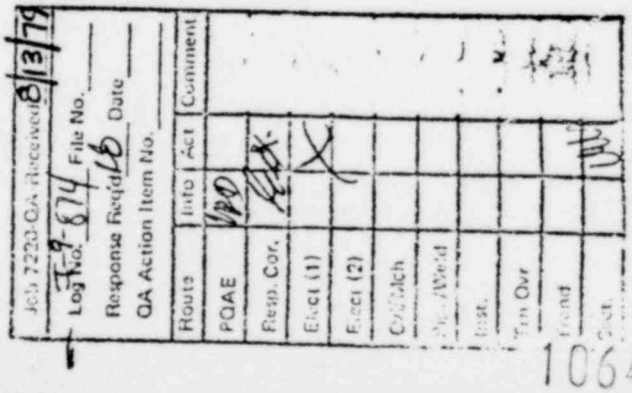
Based on the above specification change, Inspection Act. No. 2.4d of PQCI P-1.20 need not be revised at this time.

If you have any further questions concerning the above, please contact this office.

W. L. BARCLAY
PROJECT FIELD QUALITY CONTROL
ENGINEER

WLB/SMW/LEB/jmk

Response Required: NO



cc: W. Bird
J. Corley
D. Miller

QUALITY ACTION REQUEST

AI/847

From: (1)
L. A. Dreisbach

To: (2)	Control Document ref.: (3)	QAR Ident. No.: (4)
J. F. Newgen	FPD 1.100 Rev. 0	SD-227

Action Requested: (5)

Para 7.1.2 says in part 'The Document Controller shall be responsible for updating the ATMS log books with new Print outs and destroying the voided sections of log books . . . ." Contrary to this requirement ATMS Print out on 6/21/79 showed: E 693 sh 2 Rev. 0 while Rev. 2 was current, E 235 Rev. 1 while Rev. 2 was current. You are requested to:

1. Identify the root cause for the problem and take appropriate corrective action to preclude recurrence, and
2. Amend the procedure to include actions to be taken by document personnel, in case of computer terminal breakdown etc., to keep the ATMS log current.

Signature: (6)	Date: (7)	Reply Requested by: (8)
RS LA Dreisbach	6/25/79	7/25/79

Reply: (9)

(1) Response 0-2422 T. C. Valenzano to L. A. Dreisbach dated 7-3-79 indicated that equipment failures (corrections, cables etc.,) caused incomplete and obsolete ATMS print out. As corrective action Document Controller will update ATMS print out manually in the event of mechanical failure and will inform holders of ATMS print out. (2) These corrective action have been incorporated in FPD 1.100 Rev.1 accepted by CPCo on 8-8-79.

Signature: (10)	Date: (11)
Copy attached	7-3-79
Action Verified: (12)	Date: (13)
[signature]	8-15-79

8-2-74

(Therefore QAR is closed)

WHITE – Return to sender CANARY – Addressee's file PINK – Sender's file

BPC 20877
G1001649-05

Bechtel Power Corporation

Interoffice Memorandum

QAR SD227
AI847.

To L. A. Dreisbach

File No.

Subject Job 7220 Midland Project
Response to CPCo MCAR EJ-1
Work Prints
0-2422

Date July 3, 1979

From T. C. Valenzano

Of Project Services

Copies to J. M. Meilstrup

At Midland, Mi. Ext 588

This letter is in response to CPCo MCARR No. EJ-1 as amended by letter from CPCo File 16.14 Serial 214FQA79.

The ATMS program has been plagued with equipment problems since it's inception. We have regularly informed CPCo of this situation. We have had technicians from CPCo, (Saginaw and Jackson), electrical engineers from Bechtel and personnel from IBM work on it. Connectors were changed, cables tested, terminals checked until finally it was decided to eliminate the coaxial cable and run a telephone line directly into the terminals about June 18, 1979. There has been a significant reduction in equipment failures since this was accomplished. We feel this equipment correction will continue to reduce breakdowns.

Early in the program it was decided to utilize the ATMS printout but not to abandon our cardex files until we were assured the system was foolproof. This we are continuing to do. To assure that a correct register is always available, we will take the following steps:

1. Conduct a 100% review of ATMS against our cardex control cards to bring printout up to date.
2. In the event of mechanical failure, notify all holders of printouts.
3. Manually update the Record ATMS Log.

T. C. Valenzano

TCV/JMM/jrm

FILE with MCARR.

Job 7220-QA-Received 7/3/79
Log No. 708 File No.
Response Req'd No Date
QA Action Item No. 8 0 2

Route	Info	Act	Comment
POAE	VR		
Resp. Cor.		X	
Elect (1)			
Elect (2)			
Civil/Mch			
Pipe/Weld			
Inst.			
Trn Ovr	VR		
Trend			
Sect.		X	

5024, REV 1/78

FLO Procedure is being amended per Meilstrup 7/6/79

1064 048

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	QAP 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 procadures. 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 (Q) 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)

Quality Control performed an inspection July 17, 1979, of the outdoor staging area east of Containment No. 2 with Bechtel QA present.

The nonconfomming conditions identified in the subject QAR have been reported on NCR 2354 and NCR 2356 both issued 7/18/79 (reference IOM QCFM-6443 attached).

Signature: (10) W. L. Barclay (see attached IOM)	Date: (11) 8/10/79
Action Verified: (12) R. C. Holler	Date: (13) 8/17/79

8/2/74

WHITE – Return to sender CANARY – Addressee's file PINK – Sender's file

BPC 20877
G1001649.05

1064 049

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 QAR was discussed with Q.C. on 7/17/79.

Attachment
T. 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 ¼" 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

QCFM-6443/AI-630

Bechtel Power Corporation

Inter-office Memorandum

To L. A. Dreisbach

Subject Midland Project, Units 1&2
QAR No. SD-242

Copies to J. F. Newgen
R. A. Simanek

Date August 10, 1979

From W. L. Barclay

Of Quality Control

At Midland, Michigan
Job No. 07220 204

References: a) QAR SD-242, dated 7/17/79
b) QA AI No. 891

This is considered a complete Bechtel Quality Control response to reference a) above.

On July 17, 1979 Quality Control performed an inspection of the outdoor staging area east of Cont. No. 2 with Bechtel QA present. The nonconforming conditions reported by reference a) have been reported on NCR 2354 and NCR 2356 both dated 7/18/79.

If there are any further questions concerning the above, please contact this office.

W. L. BARCLAY
PROJECT FIELD QUALITY CONTROL
ENGINEER

WLB/SMW/LEB/jmk

Response Required: NO

Job 7220-QA-Received 8/10/79
Log No. 861 File No.
Response Req'd Yes Date
QA Action Item No.

Route	Info	Act	Comment
POAE			
Resp. Cor.			
Elect (1)			
Elect (2)			
Civil/Mch			
Pipe/Weld			
Inst.			
Trn Ovr			
Trend			
Qual.			

1064 052

cc: J. Corley
W. Bird
D. Miller

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) or 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 Dreisbach (6)	Date: 7-24-79 (7)	Reply Requested by: 8-1-79 (8)

Reply: (9)

Quality Controls inspection of those supports identified in the subject QAR revesled that of the forty-four (44) supports inspected nine (9) were not installed, two (2) were welded to embeds, three (3) were installed with grouted anchor bolts and thirty (30) were installed with expansion anchors. The supports installed with expansion anchors have been documented on NCR 2409.

Support No. 1-603-8-14 documented on QCIR No. C-1.50-603-8-3 (Expansion Anchor Report) has been reinspected and documented on NCR 2409.

(Continued on Page 4)

Signature: W. L. Barclay (see attached IOM) (10)	Date: 8/10/79 (11)
Action Verified: R. C. Haller (12)	Date: 8/17/79 (13)

8/2/74

WHITE – Return to sender CANARY – Addressee's file PINK – Sender's file

BPC 2087
G1001649:CS

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	2-61[illegible] 4-1
7P-05A	8"-1NPC-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.

Corrective Action was taken cognizant personnel and a training session (QCFM-6440) for all P/M QCE's was held on 8/8/79. (Reference IOM QCFM-6450 attached).

QCFM-6450/AI-642

Bechtel Power Corporation

Inter-office Memorandum

To L. A. Dreisbach

Date August 10, 1979

Subject Midland Project, Units 1&2
QAR SD-245

From W. L. Barclay

Of Quality Control

At Midland, Michigan
Job No. 07220 204

Copies to J. F. Newgen
R. A. Simanek

Reference: a) QA Action Request No. AI/H-3 (SD-245), dated 7/24/79

This is considered Quality Control's complete response to reference a) above.

Quality Control has now performed and completed their initial inspection on those supports as listed in reference a). Of the forty four (44) supports inspected nine (9) were not installed, two (2) were welded to embeds, three (3) are installed with grouted anchor bolts and thirty (30) are installed with expansion anchors. The supports installed with expansion anchors have been documented on NCR 2409. Additionally Support No. 1-603-8-14 documented on QCIR No. C-1.50-603-8-3 (Expansion Anchor Report) has been reinspected and documented on NCR 2409.

Corrective Action has been taken with cognizant personnel and a training session (QCFM-6440) for all P/M QCE's was held on 8/8/79.

If you have any further questions concerning the above, please contact this office.

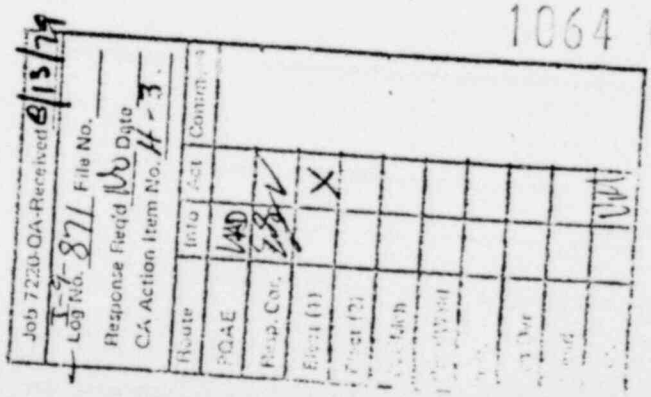
W. L. Barclay

W. L. BARCLAY
PROJECT FIELD QUALITY CONTROL ENGINEER

WLB/SMW/LEB/jmk

Response Required: NO

1064 057



Attachment to BLC-8064

QUALITY ASSURANCE PROGRAM
MANAGEMENT CORRECTIVE ACTION REPORT
MCAR-1

REPORT NO. 34

JOB NO. 7220 Q NO. Various DATE August 21, 1979

I *DESCRIPTION (Including references):

Specification 7220-C-305, Section 6.2.2 requires tension testing of Drop-In Anchors to meet the values indicated in table 3.2. Additional testing was required by Project Engineering in letter BEBC-2404, dated 8-21-78 and BEBC-2965, dated 5-18-79, to verify past installation practices. A sample and test of 60 randomly selected anchors were to be tested with no failures. Contrary to this, 9 out of 32 drop-in anchors tested utilizing 4 sizes have failed. NCR-2461 has been generated to identify these failures.

***RECOMMENDED ACTION (Optional)**

1. Construction

   a) Provide Engineering with data as to utilization, quantity, location and size of all "Q" Supports, utilizing drop-in anchors installed to date.

   b) Determine the cause (how and why) of the anchors failures.

(continued on page 2)

REFERRED TO ☒ ENGINEERING ☒ CONSTRUCTION ☐ QA MANAGEMENT ☒ Quality Control

☐ PROCUREMENT

ISSUED BY W A Dreisbach 8-21-79
Project QA Engineer Date

II REPORTABLE DEFICIENCY

☐ NO

Potentially Reportable, to be determined by Project Engineering.

☐ YES

NOTIFIED CLIENT 8/20/79 Date

A D Martinez 8/22/79
Project Manager Date

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
PF QCE
DIVISION PROCUREMENT MGR
PROJ PROCUREMENT MGR
DIV SUPPLIER QUALITY MGR

FORMAL REPORT TO CLIENT _____ Date
(If Section II Applies)

CORRECTIVE ACTION IMPLEMENTED

VERIFIED BY _____ Project QA Engineer Date

1064 058

*Describe in space provided and attach reference document.

AO-965

RECOMMENDED ACTION (Continued)

c) Take necessary actions to preclude recurrance.

2. Quality Control

a) Determine why this high rate of failure for the Drop-In Anchors was not indicated by the normal in-process testing of anchors, referenced in section 6.0 of Spec. 7220-C-305.

3. Project Engineering

a) Evaluate this condition for reportability under 10 CFR 50.55(e) and issue interim report to the PQAE by September 4, 1979, based on input from engineering and construction and quality control.

b) Determine adequacy of all "Q" Drop-In Anchors.

c) Determine cause of failure and take action to prevent recurrance.

X 412-1

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

REPORT OF NONCONFORMITY

1. JOB NUMBER	2. UNIT NUMBER	3. DATE	4. ITEM NAME	5. ITEM NUMBER
CL 238	#2 620-0012	8-2-79	THERMAL SHIELD RESTRAINTS	MK-#388 MK-#360

6. VENDOR/MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
Babcock & Wilcox	☐ RECEIVING ☐ TEST ☒ CONST.	530	FCP-61

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY #
n/a	111222D	n/a

13. DESCRIPTION OF NONCONFORMITY

Field Construction procedure #61, sequence 080, states that dowels must have a clearance fit of .0005" minimum to .001" maximum. Upon inspection of dowel pin diameters and the restraint block drilled hole diameters, discrepancies from the diameter requirements of the procedure were discovered. The included attachment tabulates these discrepancies.

14. REPORTED BY	15. VERIFIED BY	16. CORRECTIVE ACTION REQUIRED
J. Rheinhardt A.C. Ahlf for J.R. — NAME 8-2-79 — DATE	R. W. Shope R W Shope — NAME 8-2-79 — DATE	☐ YES ☒ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO

W. L. Lain — FIELD PROJECT ENGINEER — 8-2-79 — DATE

18. RECOMMENDED DISPOSITION: ☐ N/A ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☒ ACCEPT AS IS

19. TECHNICAL JUSTIFICATION OR RECOMMENDED DISPOSITION INSTRUCTIONS

ACCEPT AS IS
VENDOR TO APPROVE DISPOSITION

W. L. Lain — FIELD PROJECT ENGINEER — 8-13-79 — 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

_____ FIELD PROJECT MANAGER _____ DATE

27. NONCONFORMITY CLOSED

_____ FIELD QUALITY CONTROL SUPV. _____ DATE

1064 060

SEQUENTIAL NUMBER № 1641

TOLLERANCE INSPECTION OF THERMAL SHIELD RESTRAINT BLOCKS

RESTRAINT BLOCK NO.	HOLE NO. 1		HOLE NO. 2		HOLE NO. 3		TOLLERANCE	
	HOLE DIA.	PIN DIA.	HOLE DIA.	PIN. DIA.	HOLE DIA.	PIN DIA.	ACCEPT.	EXCEEDS
1	.501	.500	.517	.514	.503	.500		✓
2	.502	.500	.501	.500	.501	.500		✓
3	.502	.500	.501	.500	.501	.500		✓
4	.502	.500	.501	.500	.502	.500		✓
5	.501	.500	.502	.500	.501	.500		✓
6	.501	.500	.501	.500	.502 min. .504 max.	.500		✓
7	.503	.500	.501	.500	.502	.500		✓
8	.501	.500	.517	.516	.502	.500		✓
9	.518	.515	.501	.500	.518	.516		✓
10	.502	.500	.501	.500	.501	.500		✓
11	.501	.500	.501	.500	.501	.500	✓	
12	.501	.500	.517	.516	.518	.516		✓
13	.501	.500	.501	.500	.501	.500	✓	
14	.501	.500	.515	.514	.501	.500	✓	
15	.519	.516	.517	.516	.515	.514		✓
16	.519	.516	.517	.516	.501	.500		✓
17	.518	.515	.518	.515	.517	.516		✓
18	.518	.515	.516	.515	.516	.515		✓
19	.518	.515	.518	.515	.517	.515		✓
20	.502	.500	.501	.500	.501	.500		✓

UNIT #1
PCP #61
SEQ. #080

REFERENCE NCR:

1064 061

X 6512-1

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

PAGE 1 OF 3

REPORT OF NONCONFORMITY

1. JOB NUMBER	2. UNIT NUMBER	3. DATE	4. ITEM NAME	5. ITEM NUMBER
CL 238	#2	8-06-79	STEAM GENERATOR	2-5G1A

6. VENDOR/MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
Babcock & Wilcox	☐ RECEIVING ☐ TEST ☒ CONST.		FCP-45 Sequence 110

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY #
FS-111-2	C-376	n/a

13. DESCRIPTION OF NONCONFORMITY

Two feedwater header support lugs on Unit #2, A- Steam Generator (see attached sketches) have been gouged by acetylene flame cutting. Rough cut edges were evened by mechanical grinding.

14. REPORTED BY A. C. Ashworth	15. VERIFIED BY A. C. Ashworth	16. CORRECTIVE ACTION REQUIRED
A.C. Ashworth 8-6-79 (NAME / DATE)	A.C. Ashworth 8-6-79 (NAME / DATE)	☒ YES ☐ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO — H. N. Lian (FIELD PROJECT ENGINEER) — 8-6-79 (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. N. Lian (FIELD PROJECT ENGINEER) — 8-13-79 (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

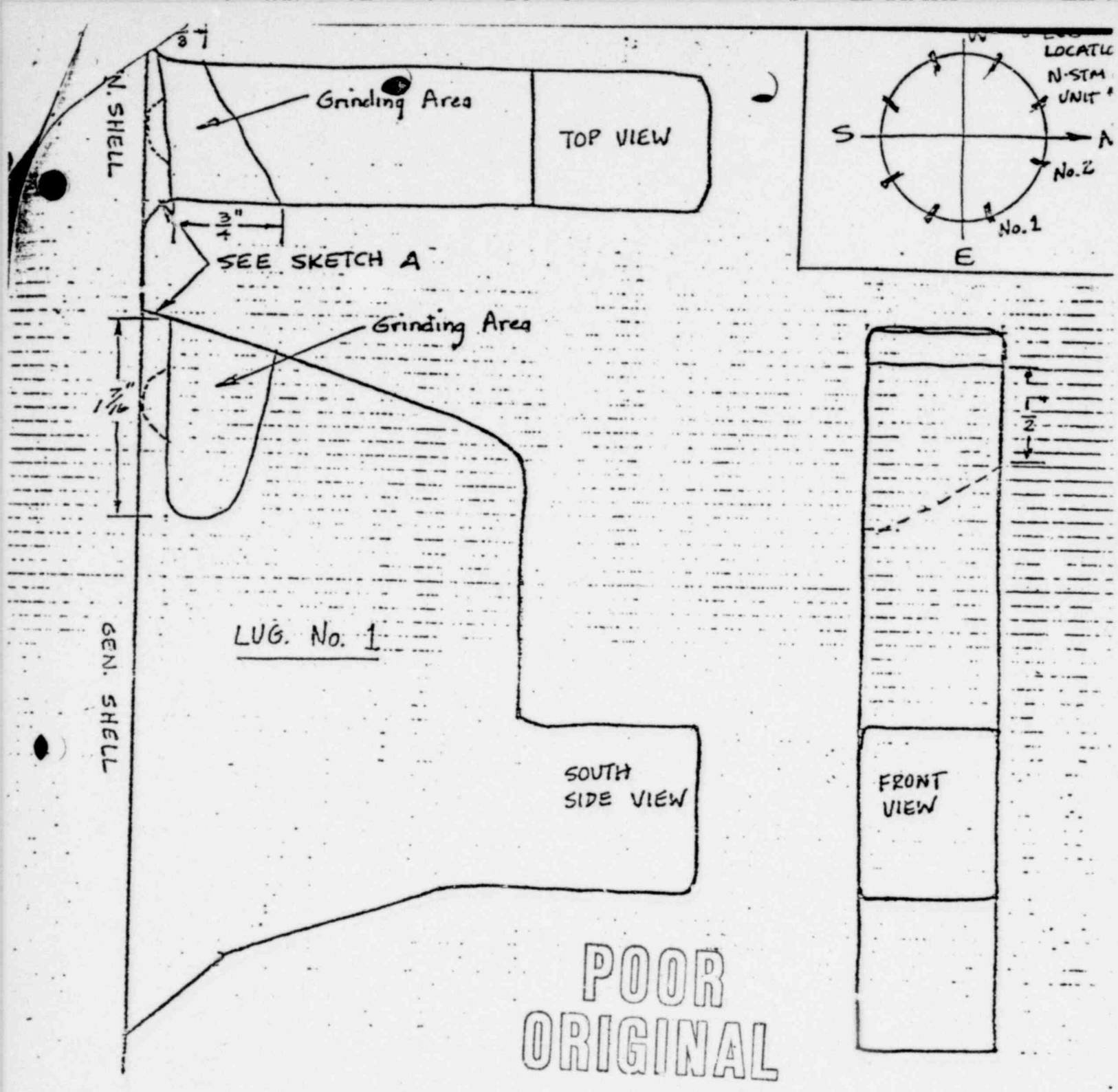
FIELD PROJECT MANAGER — DATE

27. NONCONFORMITY CLOSED

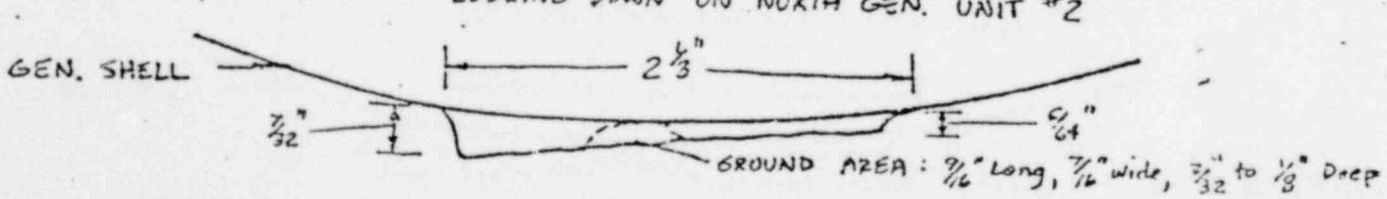
FIELD QUALITY CONTROL SUPV. — DATE

1064 062

SEQUENTIAL NUMBER № 1643



POOR ORIGINAL

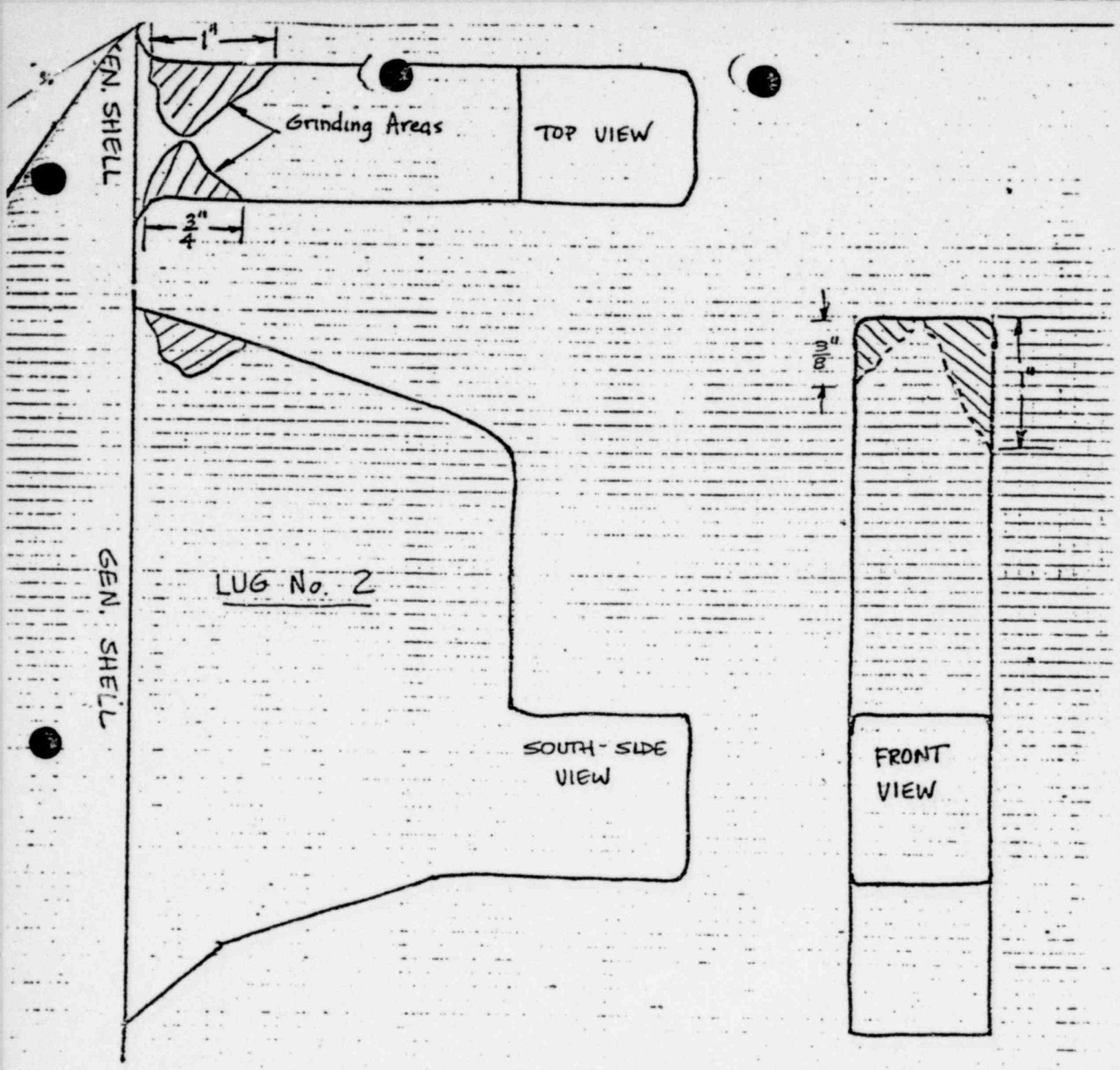


LUG-WELD BUILD-UP ON GEN. SHELL

Ref. NCR 1643

SKETCH A

1064 063



POOR ORIGINAL

REF NCR-1643
8-4-79 EE

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 238	#2	8-7-79	RC PUMP MOTOR STAND	691-N-0042

6. VENDOR/MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
Byron-Jackson	☐ RECEIVING ☐ TEST ☑ CONST.	523	FCP-96

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY#
n/a	1F 7623 RK	#1639

13. DESCRIPTION OF NONCONFORMITY

During performance of work to clear NCR-1639, work was done on the 1/8" w. x 5/16" l x .009" deep cavity. Disposition instructions were to leave this cavity as is. This work resulted in a new cavity, see attached sketch.

14. REPORTED BY R. D. Brown	15. VERIFIED BY R. W. Shope	16. CORRECTIVE ACTION REQUIRED
R. D. Brown (NAME) 8-7-79 (DATE)	R W Shope (NAME) 8-7-79 (DATE)	☒ YES ☐ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO — H. A. Lin (FIELD PROJECT ENGINEER) — 8-7-79 (DATE)

18. RECOMMENDED DISPOSITION: ☐ N/A ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☒ ACCEPT AS IS

19. TECHNICAL JUSTIFICATION OR RECOMMENDED DISPOSITION INSTRUCTIONS

Accept as is.
Vendor to approve disposition.

H. A. Lin (FIELD PROJECT ENGINEER) — 8-14-79 (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) 8-14-79 OTHER (SIGNATURE) (DATE)

OWNER/AGENT (SIGNATURE) (DATE) OTHER (SIGNATURE) (DATE)

23. ANI REVIEW (SIGNATURE) (DATE)

24. DISPOSITION COMPLETED (NAME) (DATE)

25. DISPOSITION VERIFICATION (NAME) (DATE) ☐ ACCEPTABLE ☐ UNACCEPTABLE REPORT OF NONCONFORMITY #

25. CORRECTIVE ACTION

A meeting will be held with Field Supervision, manager of B&W QC and myself to caution supervision about being specific with instructions to craft personnel.

V N Asgaonkar (FIELD PROJECT MANAGER) — 8/14/79 (DATE)

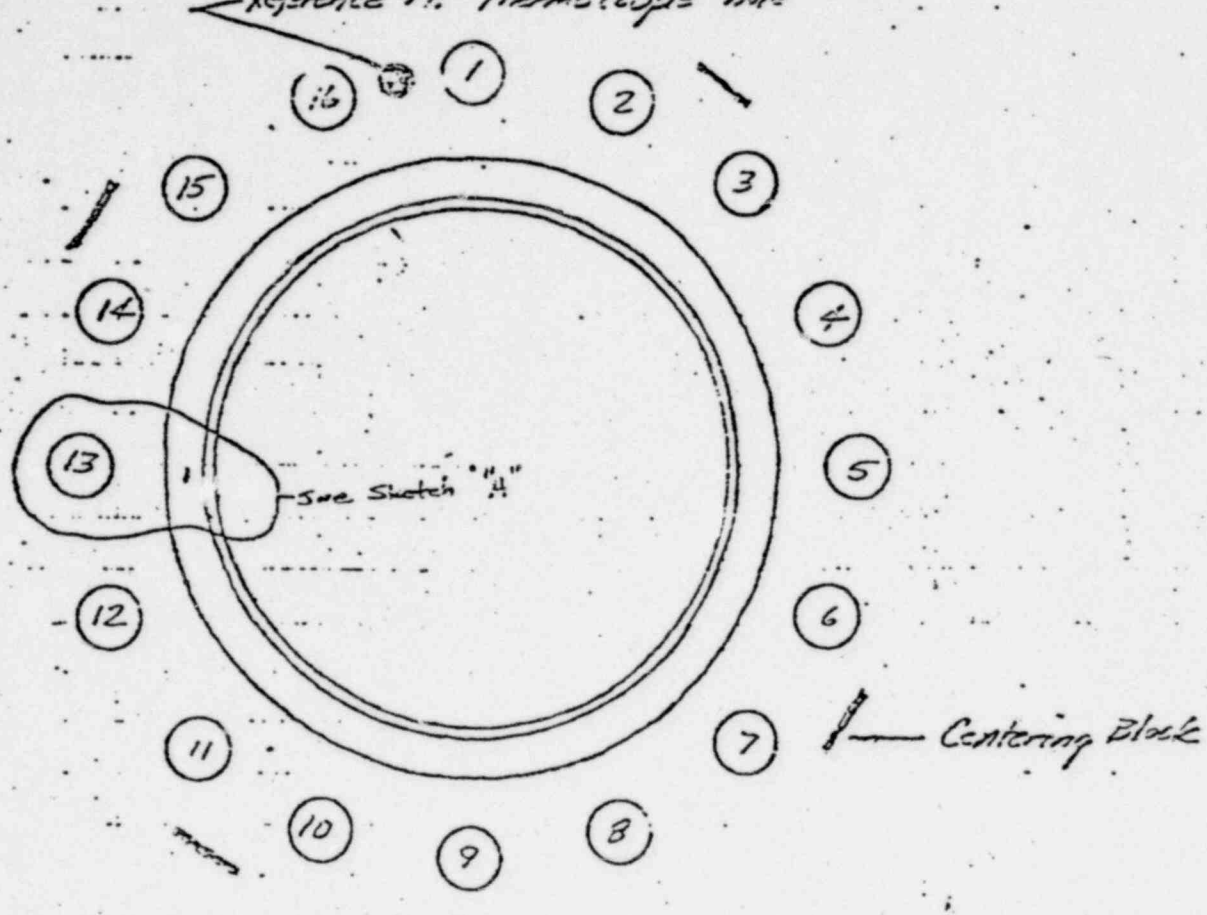
27. NONCONFORMITY CLOSED

(FIELD QUALITY CONTROL SUPV.) (DATE)

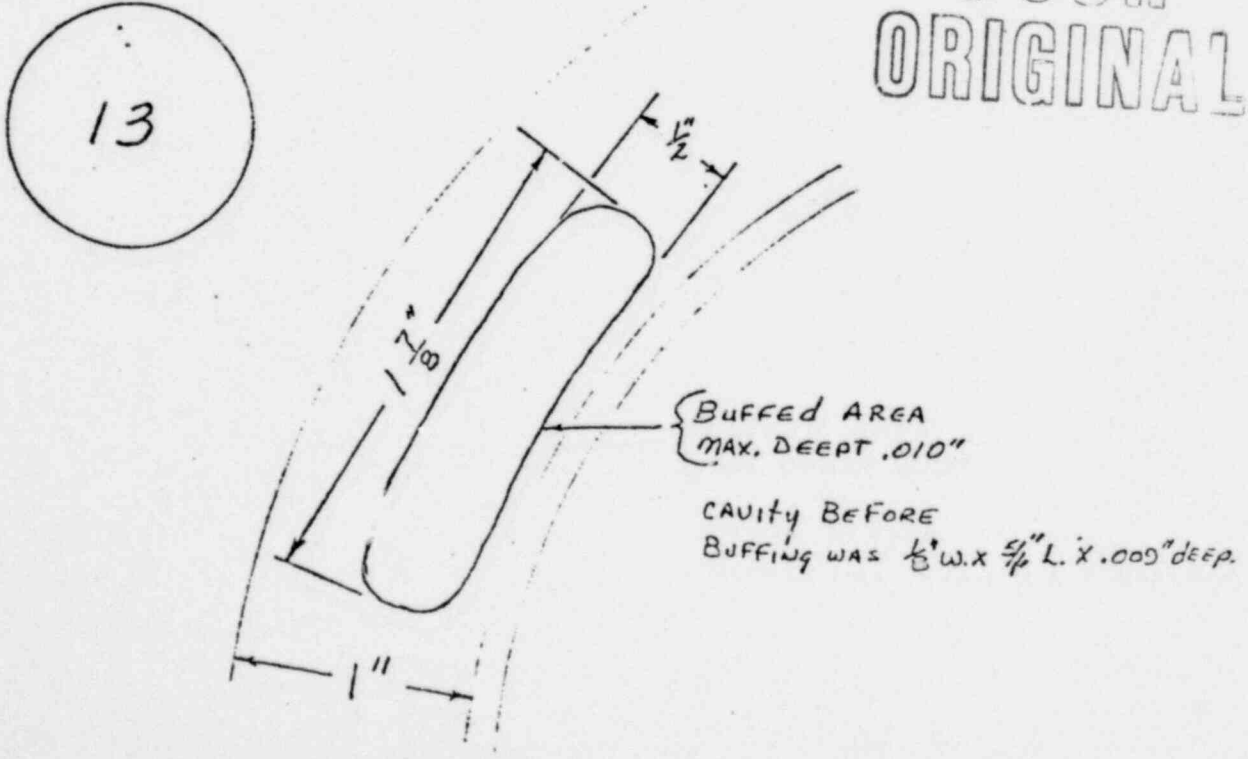
1064 065

SEQUENTIAL NUMBER № 1644

TOP FACE OF DRIVER MOUNT BOTTOM FLANGE
RCP 2P51C



POOR ORIGINAL



NCR # 1644
FCP-96 UNIT # 2

SKETCH "A"

1064 066

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

PAGE 1 OF ____

REPORT OF NONCONFORMITY

1. JOB NUMBER	2. UNIT NUMBER	3. DATE	4. ITEM NAME	5. ITEM NUMBER
CL 238	#2	8-09-79	Reactor Coolant Pipe	WJ1-2

6. VENDOR MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
B&W Mt. Vernon	☐ RECEIVING ☐ TEST ☒ CONST.	524	

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY #
9-HT-102, Rev. 6 WIN-101-2 REV.4	150177E, Rev. 8	n/a

13. DESCRIPTION OF NONCONFORMITY

Violation of PWHT temperature of 1100°-1150° maximum violation of 10° (1160°) thermocouple #15 and thermocouple #9 below 1100°.

14. REPORTED BY	15. VERIFIED BY	16. CORRECTIVE ACTION REQUIRED
W. A. Willman 8-9-79 (NAME / DATE)	R O Thorpe 8-9-79 (NAME / DATE)	☐ YES ☐ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO — W. A. Lee (FIELD PROJECT ENGINEER) — 8-9-79 (DATE)

18. RECOMMENDED DISPOSITION: ☐ N/A ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☒ ACCEPT AS IS

19. TECHNICAL JUSTIFICATION OR RECOMMENDED DISPOSITION INSTRUCTIONS

After reviewing temperatures recorded by thermocouples 6, 7, 8, 10, 11, 12, & 15 surrounding thermocouple #9, it is concluded that T.C. 9 should be considered inaccurate and the recorded data discarded. Inaccuracy of Thermo couple #9 was due to connector plug failure. Plug was repaired and subsequently returned to service. ADDED LAST SENTENCE W.A.W. 9-10-79

W. A. Lee (FIELD PROJECT ENGINEER) — 8-9-79 (DATE)

20. ACTUAL DISPOSITION: ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☒ ACCEPT AS IS

21. DISPOSITION INSTRUCTIONS

Temperature recorded by thermocouple #15 is to be accepted. The filler material is in the process of being re-qualified. 9-HT-102 and WIN-101-2 are revised to allow a temperature range of 1100° to 1200°.

W. A. Lee (FIELD PROJECT ENGINEER) — 8-9-79 (DATE)

22. APPROVALS

B&W FQC R O Thorpe 9-11-79 (SIGNATURE / DATE) OTHER ____ (SIGNATURE / DATE)

OWNER AGENT R E Whitaker 9/11/79 (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)

27. NONCONFORMITY CLOSED

____ (FIELD QUALITY CONTROL SUPV.) ____ (DATE) 1064 067

SEQUENTIAL NUMBER № 1645

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	8-13-79	FEEDWATER HEADERS	A-122-2012-55-1 A-123-2012-55-1

6. VENDOR/MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
Babcock & Wilcox	☐ RECEIVING ☐ TEST ☒ CONST.	525	FCP-45

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY#
n/a	143023E, Rev. 12	n/a

13. DESCRIPTION OF NONCONFORMITY

The cutouts on the MK-130 support plates have been cut oversized. See Attached Chart.

14. REPORTED BY	15. VERIFIED BY	16. CORRECTIVE ACTION REQUIRED
J. Rheinhardt 8-13-79 NAME DATE	A. C. Ashworth Sr. 8-13-79 NAME DATE	☒ YES ☐ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO

H. H. Law — FIELD PROJECT ENGINEER — 8-13-79 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

FIELD PROJECT MANAGER — DATE

27. NONCONFORMITY CLOSED

FIELD QUALITY CONTROL SUPV. — DATE

1064 068

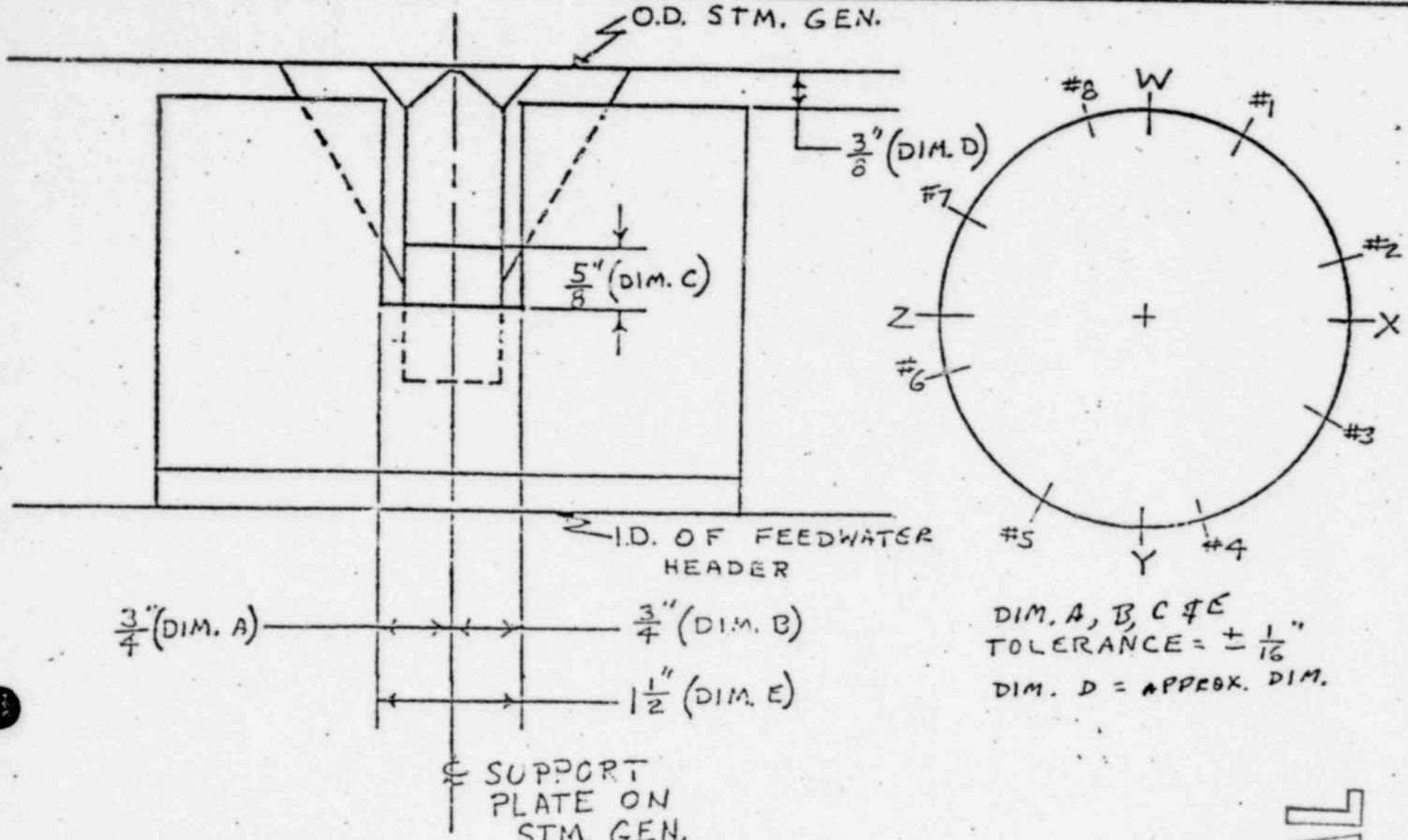
SEQUENTIAL NUMBER № 1646

X639

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

REPORT OF NONCONFORMITY

JOB NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
L-238	2	8-13-79	1646



DIM. A, B, C & E
TOLERANCE = ± 1/16"
DIM. D = APPROX. DIM.

	DIM. A	DIM. B	DIM. C	DIM. D	DIM. E
1	13/16	(7/8)	11/16	1/2	(1 11/16)
2	13/16	13/16	5/8	5/8	(1 5/8)
3	13/16	(1 1/16)	11/16	3/4	(1 7/8)
4	3/4	3/4	5/8	11/16	1 1/2
5	(7/8)	25/32	9/16	1	(1 21/32)
6	(1)	13/16	5/8	1/2	(1 13/16)
7	13/16	(15/16)	9/16	3/8	(1 3/4)
8	(7/8)	3/4	5/8	3/4	(1 5/8)

OK 8-13-79 ACA

ORIENTATION OF HEADERS ARE ACCEPTABLE.
CIRCLED DIM'S. ARE REJECTABLE.

NCR #1646

NORTH STM. GEN.
FCP # 45
UNIT # 2
SEQ. # 130
DATE # 8-13-79
SIGNED # A.C. Ashworth Jr.

POOR ORIGINAL

1064 069

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	8-14-79	REACTOR COOLANT PIPE	see below

6. VENDOR/MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
B&W Mt. Vernon	☐ RECEIVING ☐ TEST ☒ CONST.	301, 302, 303, 304, 305, 306, 307, 308	76, 84, 85, 86, 92, 99, 100, 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 1/8 inch maximum depth requirement for cavities of removed peened thermocouples as stated in 9-HT-102 paragraph 9.4. The attached sketches show the TC areas involved (circled items) for welds 4-1, 4-2, 4-3, 4-4, 5-1, 5-2, 5-3, and 5-4.

14. REPORTED BY A. C. Ashworth, Sr.	15. VERIFIED BY A. C. Ashworth, Sr.	16. CORRECTIVE ACTION REQUIRED
A. C. Ashworth Sr. 8-14-79 (NAME / DATE)	A. C. Ashworth Sr. 8-14-79 (NAME / DATE)	☒ YES ☐ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO — W. A. Linn (FIELD PROJECT ENGINEER) — 9-14-79 (DATE)

18. RECOMMENDED DISPOSITION: ☐ N/A ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS

19. TECHNICAL JUSTIFICATION/OR RECOMMENDED DISPOSITION INSTRUCTIONS

FIELD PROJECT ENGINEER _____ DATE _____

20. ACTUAL DISPOSITION: ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS

21. DISPOSITION INSTRUCTIONS

FIELD PROJECT ENGINEER _____ DATE _____

22. APPROVALS

B&W FQC _____ SIGNATURE _____ DATE — OTHER _____ SIGNATURE _____ DATE

OWNER/AGENT _____ SIGNATURE _____ DATE — OTHER _____ SIGNATURE _____ DATE

23. ANI REVIEW

_____ SIGNATURE _____ DATE

24. DISPOSITION COMPLETED

_____ NAME _____ DATE

25. DISPOSITION VERIFICATION ☐ ACCEPTABLE ☐ UNACCEPTABLE

_____ NAME _____ DATE REPORT OF NONCONFORMITY #

26. CORRECTIVE ACTION

FIELD PROJECT MANAGER _____ DATE _____

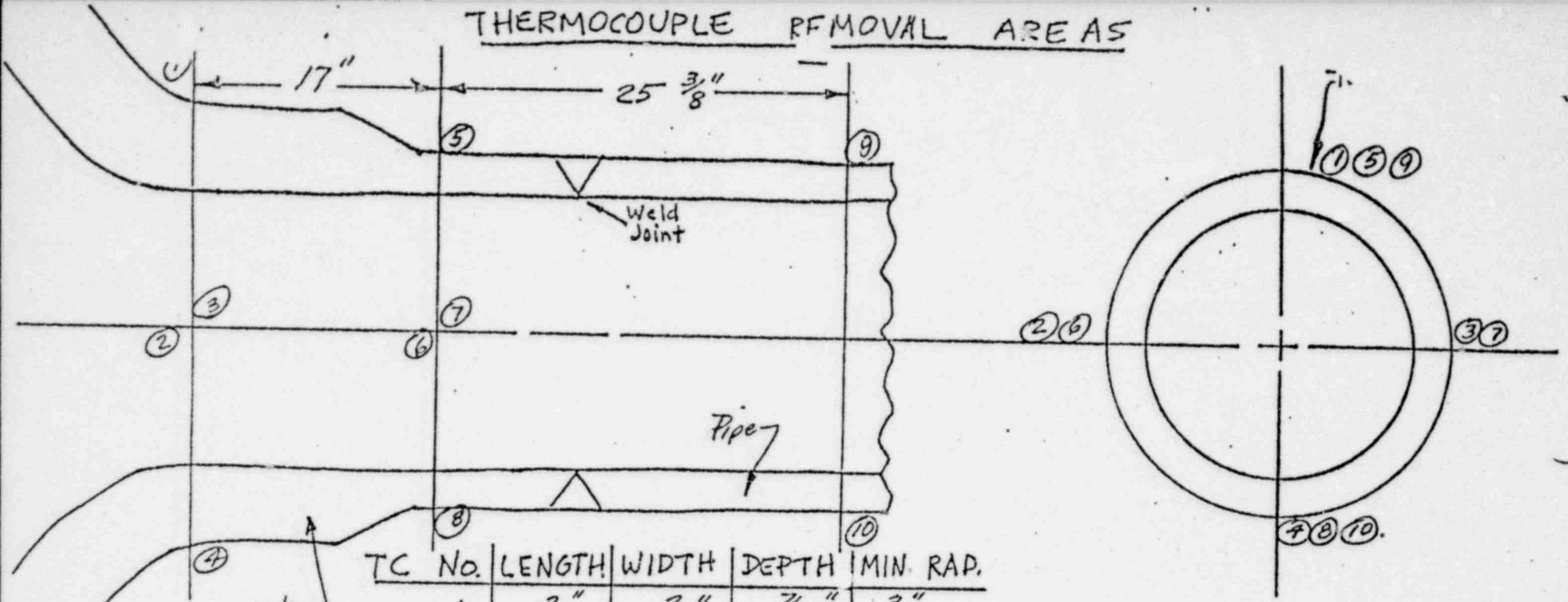
27. NONCONFORMITY CLOSED

FIELD QUALITY CONTROL SUPV. _____ DATE _____

1064 070

SEQUENTIAL NUMBER № 1647

THERMOCOUPLE REMOVAL AREAS



TC No.	LENGTH	WIDTH	DEPTH	MIN. RAD.
1	2"	2"	7/64"	3"
2	2	2	1/8	3 3/4
3	2	2	1/8	1 3/4
4	2	2	7/32	3/4
5	2	2	1/8	2 1/4
6	1 1/2	1 1/2	3/32	2 1/4
7	2	1 3/4	7/64	.2
8	2	2	1/8	3"
9	2	2	1/8	1 3/4
10	2	2	1/16	2 1/2

Note: All dimensions are within tolerance of applicable FCP.

WELD No. 4-1

UNIT No. 2

FCP No. 76

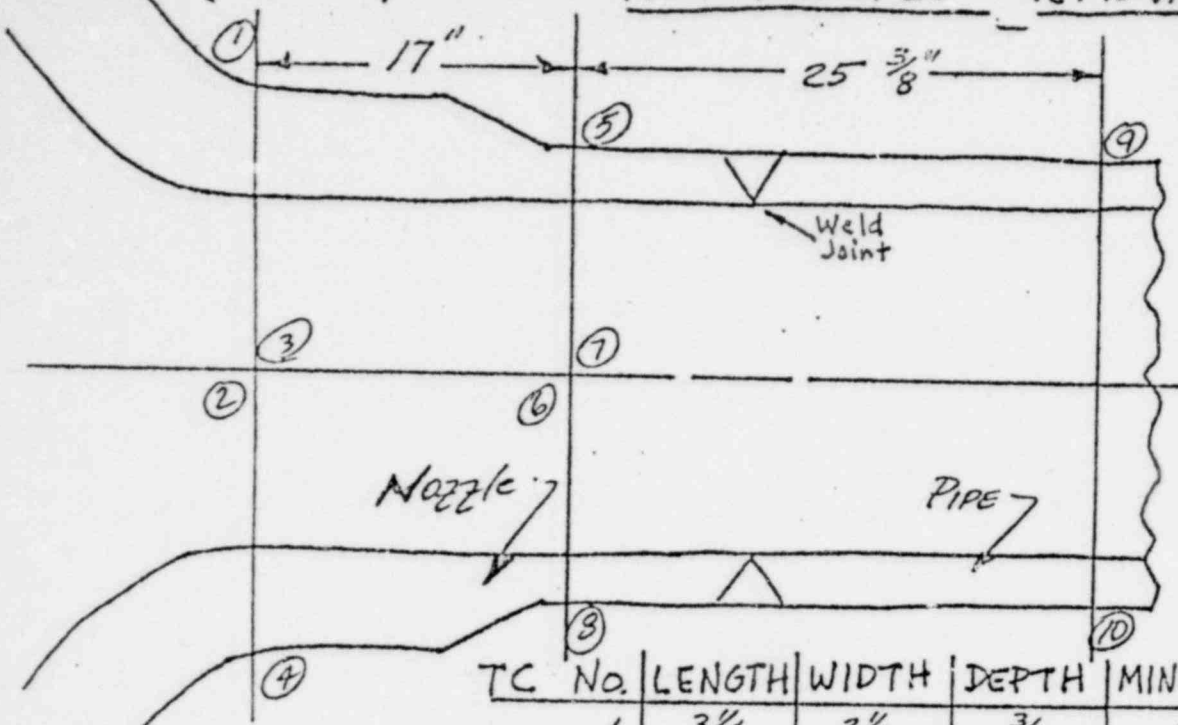
SEQ. No. 150

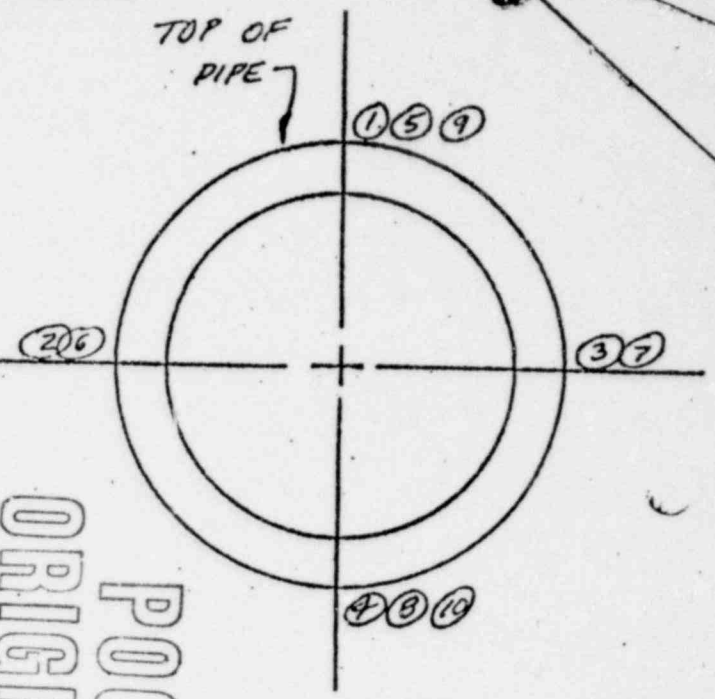
INSPECTOR R.C. Ashworth Jr. S.L. Taulbee

DATE 8-8-79

1064 071

THERMOCOUPLE REMOVAL AREAS





TC No.	LENGTH	WIDTH	DEPTH	MIN. RAD.
1	3 1/4	2 1/2	3/32	4 1/4
2	* 2 3/8	2 1/4	3/32	3
3	2 1/2	2	7/64	4
4	2 1/2	2	7/32	4
5	* * 3 1/2	3	9/64	3 1/4
6	2 1/4	2	1/8	3
7	2	1 1/2	3/32	3 1/4
8	2 1/2	2 1/4	5/64	3
9	3 1/2	2 1/4	7/64	4 1/4
10	2 1/4	1 1/2	1/8	2

* ~~TC Hole still present afte. grinding. More grinding necessary.~~ Complete 8-14-79 F

* * ~~TC broken off and left in place No grinding has been started.~~ Complete 8-10-79 F

Note: All dimensions are within tolerance of applicable FCP.

POOR ORIGINAL

WELD No. 4-2

UNIT No. 2

FCP No. 85

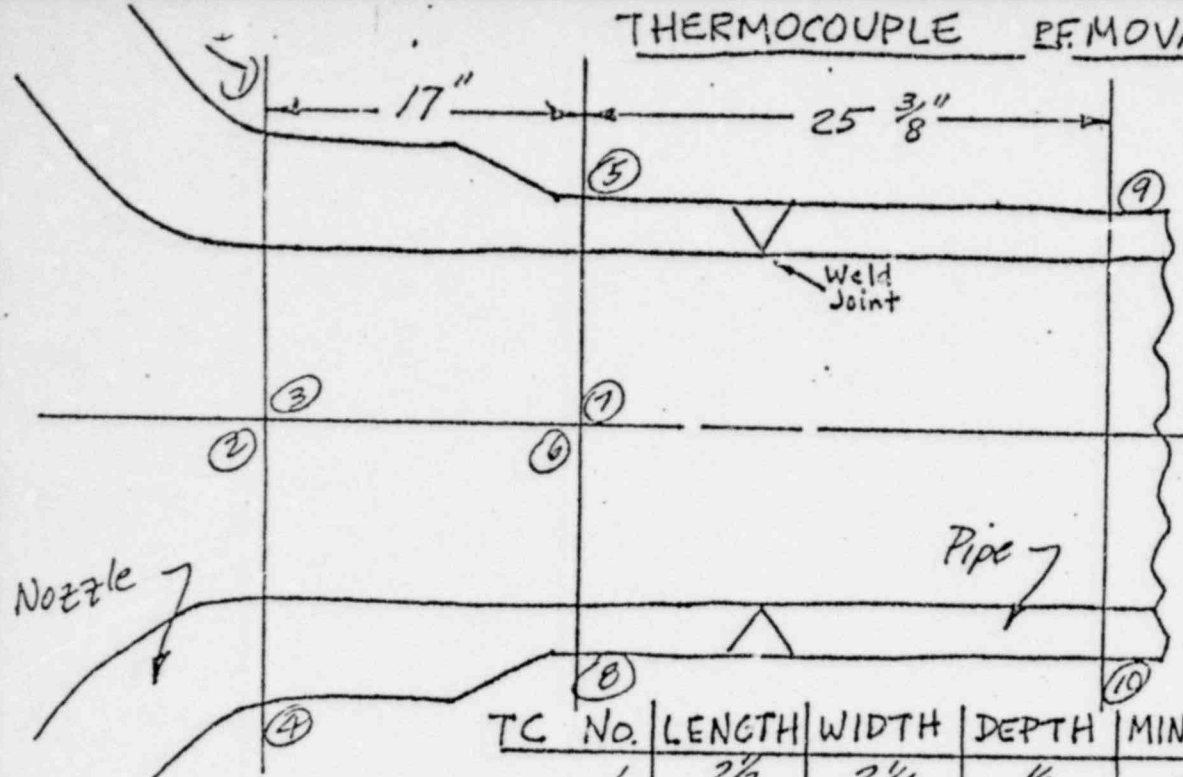
SEQ. No. 150

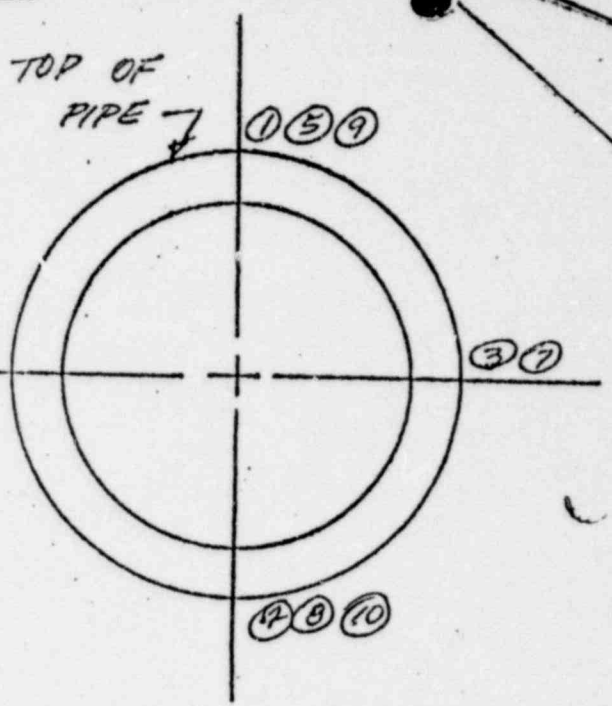
INSPECTOR A C Ashworth Jr. SL Taulbee

DATE 8-8-79

1064 072.

THERMOCOUPLE REMOVAL AREAS





TC No.	LENGTH	WIDTH	DEPTH	MIN. RAD.
1	2 1/2	2 1/4	1/8	1 1/2
2	2 3/4	2	1/8	2 1/2
3	2 1/2	1 3/4	1/16	4 1/2
4	2	2 1/4	1/8	1 1/4
5	2 3/8	2	5/32	1 1/2
6	2 1/4	2	1/8	2 1/4
7	2 3/4	2	5/64	1 3/4
8	1 3/4	2 1/8	1/8	1
9	2 1/2	1 5/8	7/64	2
10	2 1/4	1 1/2	3/32	1 3/4

Note: All dimensions are within tolerance of applicable FCP.

WELD No. 4-3

UNIT No. 2

FCP No. 86

SEQ. No. 150

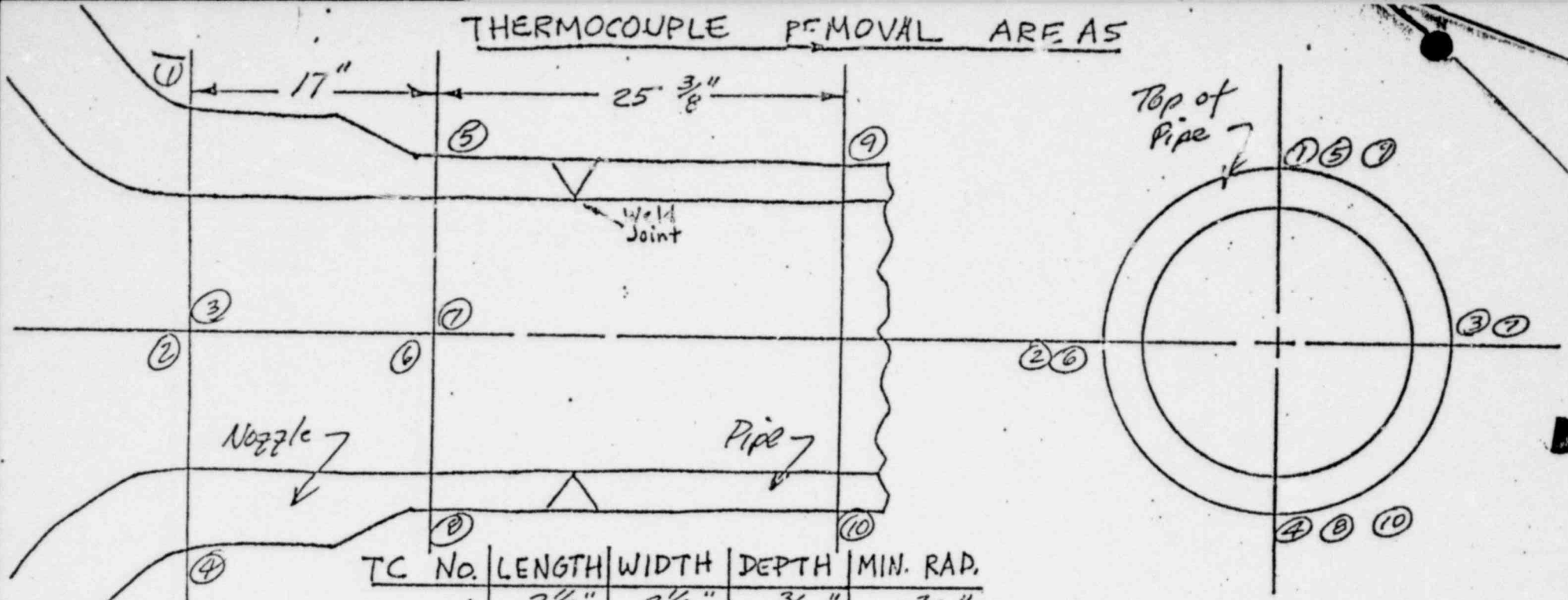
INSPECTOR R C Ashworth Jr. SC Tauber

DATE 8-8-79

POOR ORIGINAL

1064 073

THERMOCOUPLE REMOVAL AREAS



TC No.	LENGTH	WIDTH	DEPTH	MIN. RAD.
1	2 1/2"	2 1/2"	3/32"	2 3/4"
2	2 3/8	2 1/8	5/64	4
3	2 7/16	2 1/2	1/8	2
(4)	2	1 3/4	5/32	2
5	2 5/8	2	3/32	3
6	2 1/2	2	1/8	3
(7)	2 3/8	2 1/8	5/32	2
(8)	2 1/4	2	9/64	2
9	2 1/4	1 7/8	1/8	3
(10)	3	2	5/32	2 1/4

Note: Circled items in charts have depths greater than 1/8 inch.

POOR ORIGINAL

Note: All dimensions are within tolerance of applicable FCP.

WELD No. 44

UNIT No. 2

FCP No. 84

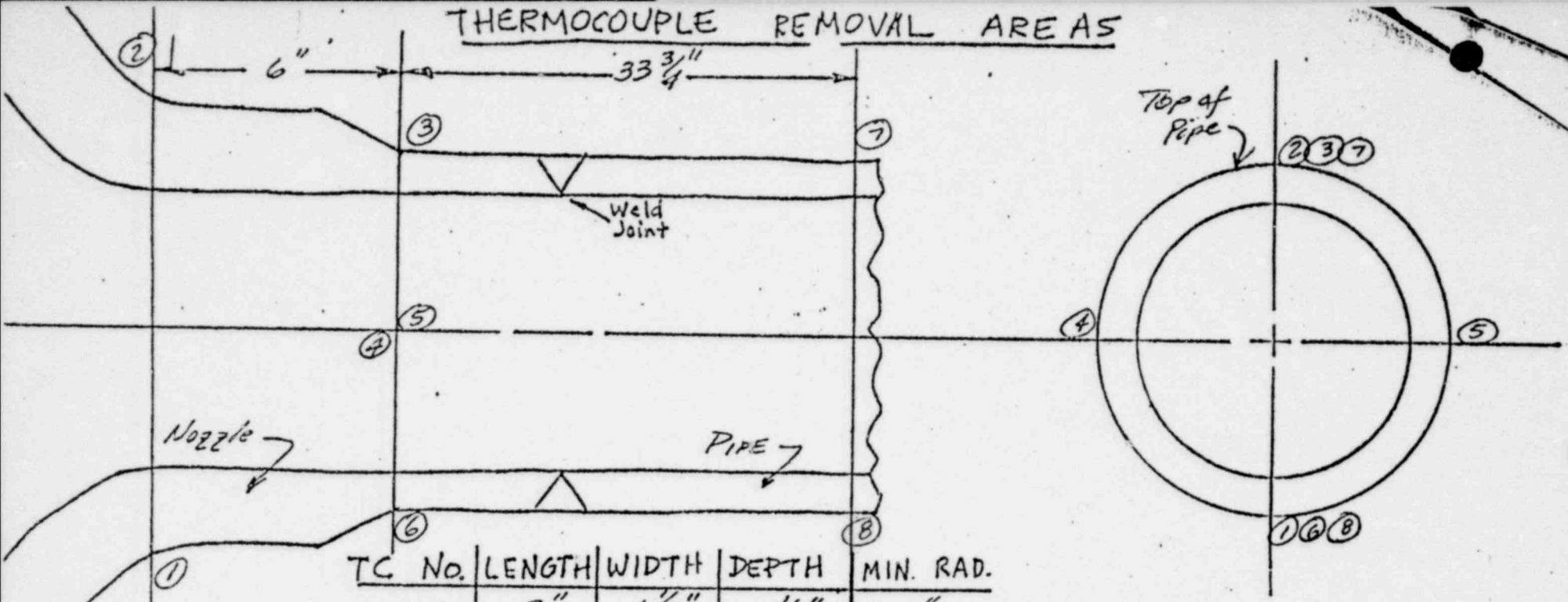
SEQ. No. 150

INSPECTOR D.C. Smith L. S. Taulbee

DATE 8-8-79

1064 074

THERMOCOUPLE REMOVAL AREAS



TC No.	LENGTH	WIDTH	DEPTH	MIN. RAD.
1	2"	1 1/2"	1/8"	1"
2	2 1/2	2	5/32	3 1/4
3	2 1/4	1 1/2	1/16	1 1/2
4	2	1 1/2	1/8	3/4
5	2 1/2	1 3/4	1/8	3/4
6	2	1 1/2	9/64	3/4
7	2	2	5/32	1 1/2
8	2	1 5/8	9/64	1 3/4

POOR ORIGINAL

WELD No. 5-1

UNIT No. 2

FCP No. 92

SEQ. No. 150

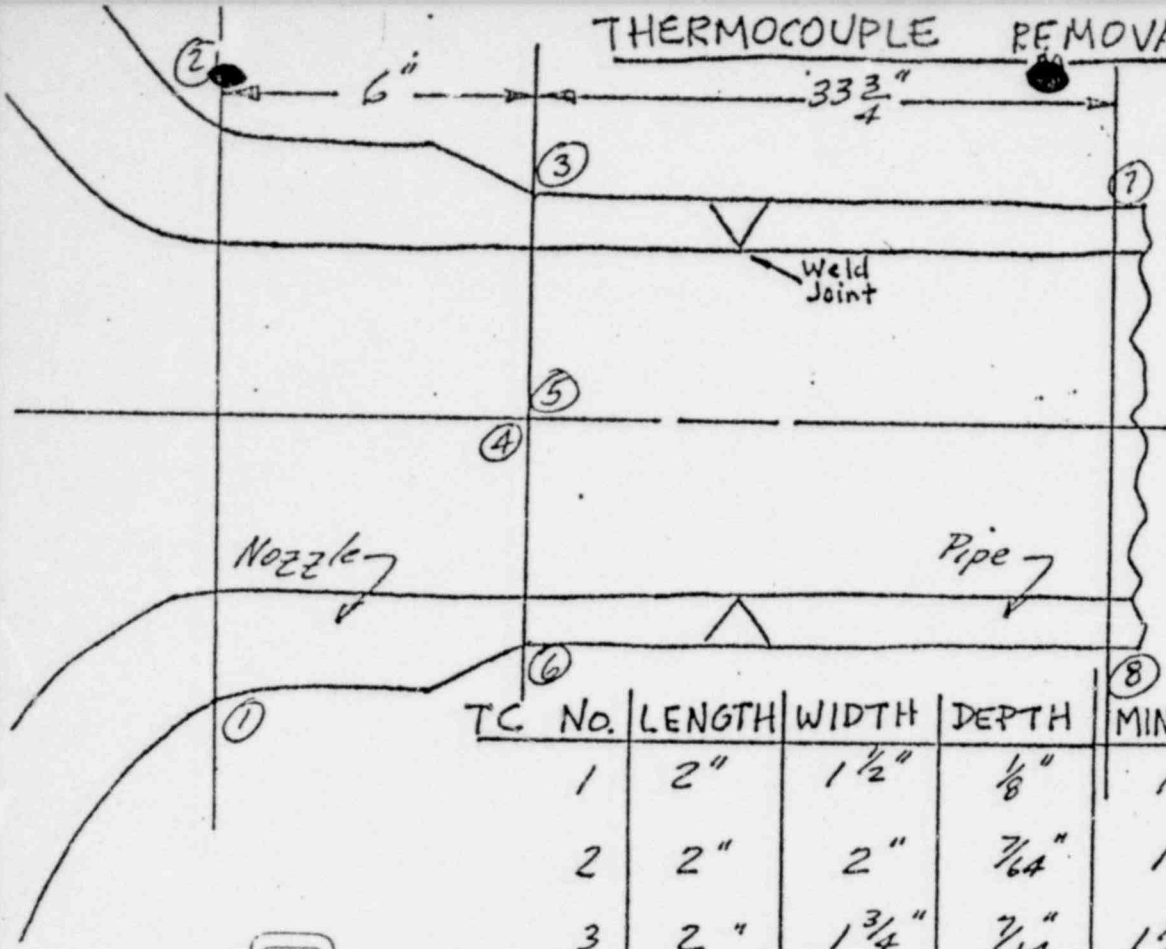
INSPECTOR R.C. Schmidt Jr. / K Taulbee

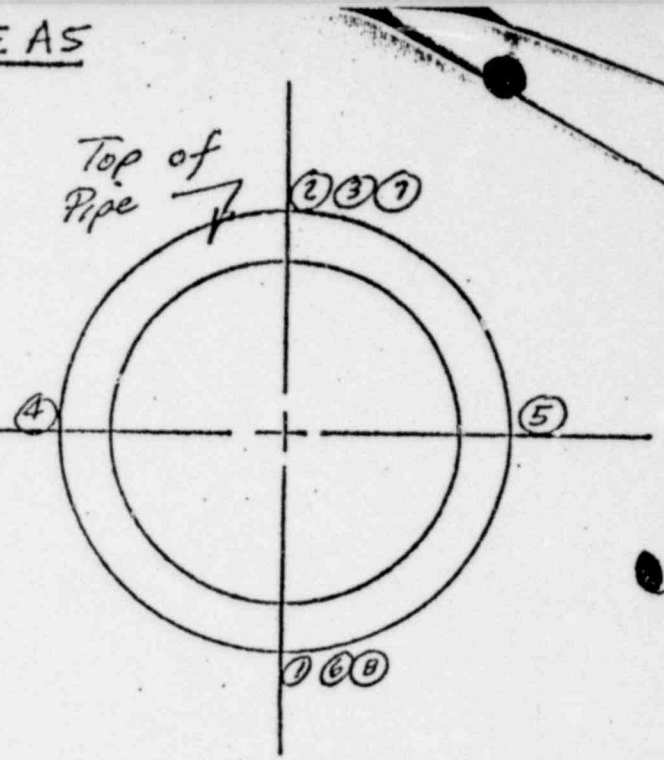
DATE 8-9-79

1064 075

Note: All dimensions within tolerance of applicable FCP.

THERMOCOUPLE REMOVAL AREAS





TC No.	LENGTH	WIDTH	DEPTH	MIN. RAD.
1	2"	1 1/2"	1/8"	1"
2	2"	2"	7/64"	1"
3	2"	1 3/4"	7/64"	1 1/2"
4	1 3/4"	1 3/4"	7/64"	1"
5	2 1/4"	2"	1/8"	1 1/4"
6	2"	1 1/4"	9/64"	7/8"
7	2 3/4"	1 7/8"	1/8"	3"
8	1 1/2"	1 1/4"	7/64"	1 1/4"

Note: All dimensions within tolerance of applicable FCP.

WELD No. 5-2

UNIT No. 2

FCP No. 99

SEQ. No. 150

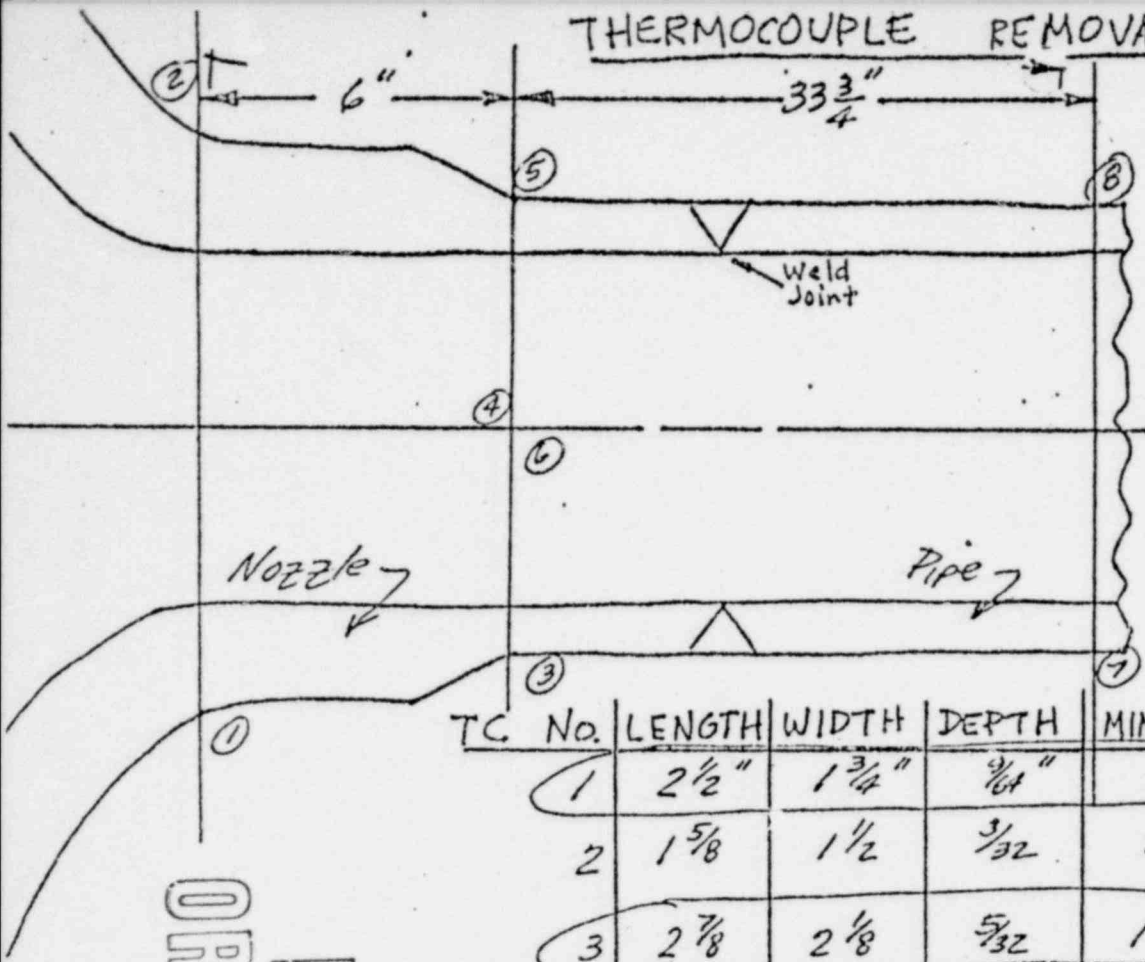
INSPECTOR A.C. Ashworth SC Faulber

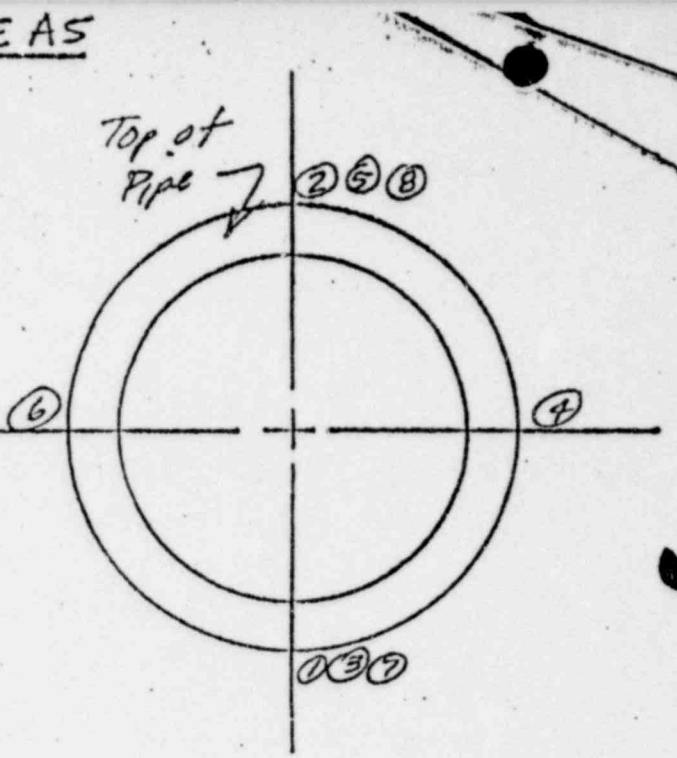
DATE 8-9-79

POOR ORIGINAL

1064 076

THERMOCOUPLE REMOVAL AREAS





TC No.	LENGTH	WIDTH	DEPTH	MIN. RAD.
1	2 1/2"	1 3/4"	9/64"	1 3/8"
2	1 5/8	1 1/2	3/32	2 1/4
3	2 7/8	2 1/8	5/32	1 1/2
4	2 1/2	2 1/4	9/64	1 1/4
5	1 1/2	1 1/4	9/64	1
6	2 3/8	1 13/16	7/64	1 1/4
7	2 1/4	1 3/8	1/16	3
8	1 3/4	1 5/8	1/8	2

WELD No. 5-3

UNIT No. 2

FCP No. 100

SEQ. No. 150

INSPECTOR R. C. Ashworth & E. Faulkner

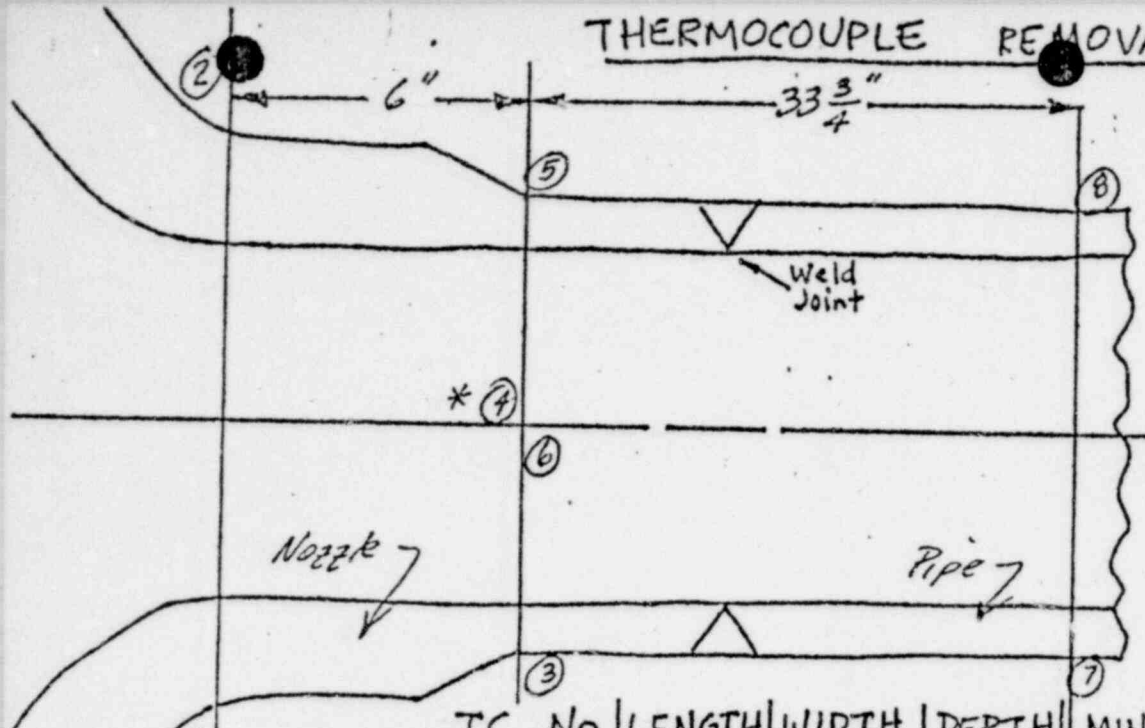
DATE 8-9-79

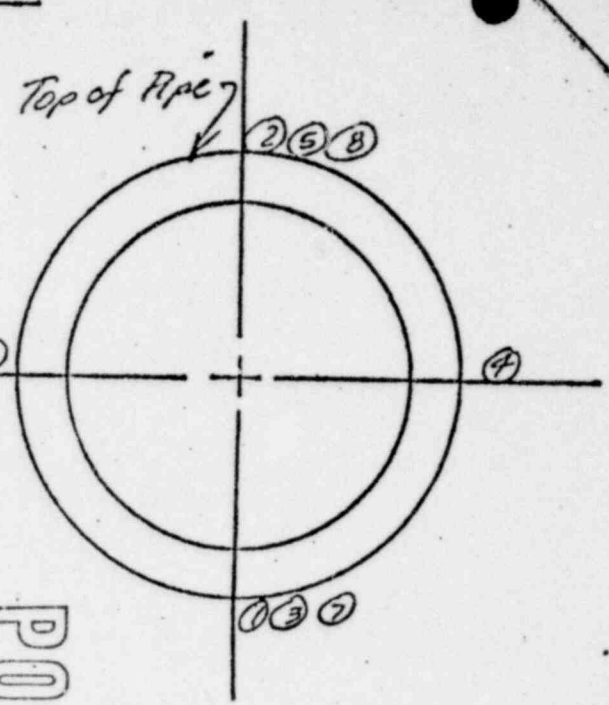
Note: All dimensions within tolerance of applicable FCP.

POOR ORIGINAL

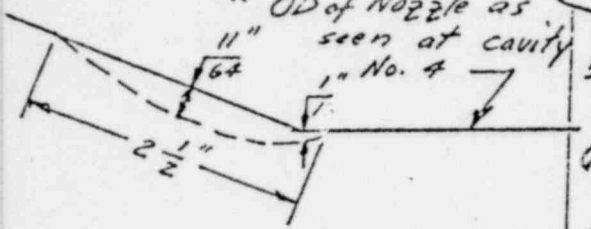
1064 077

THERMOCOUPLE REMOVAL AREAS





TC No.	LENGTH	WIDTH	DEPTH	MIN. RAD.
1	3"	1 1/4"	9/64"	3/4"
2	2 3/4	1 5/8	1/16	2 1/2
3	2	1 1/2	1/8	1
*4	2 1/2	1 1/2	1/16 11/64	3/4
5	2	1 1/2	1/8	1 1/4
6	2 1/4	1 5/8	1/8	1
7	1 3/4	1 1/2	1/8	1 1/2
8	1 5/8	1 3/8	1/8	1



* Note: Measurement of minimum wall thickness with respect to OD of pipe is misleading at this cavity. The majority of the cavity extends into the nozzle.

: All dimensions within tolerance of applicable FCP.

POOR ORIGINAL

WELD No. 5-4

UNIT No. 2

FCP No. 101

SEQ. No. 150

INSPECTOR R C Ashworth Jr. S Taulbee

DATE 8-9-79

1064.078

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	8-23-79	RC PUMP CASING	2P51D

6. VENDOR/MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
Byron-Jackson	☐ RECEIVING ☐ TEST ☒ CONST.	313, 314	FCP-122 Seq. 015

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY #
n/a	n/a	n/a

13. DESCRIPTION OF NONCONFORMITY

The second stud hole C.C.W. from keyway nearest the west direction has minor rough and torn threads for 4 9/16 inches, 360°. Stud number SN-0041, 2P51D-8 has a damaged thread, ten threads from bottom of the stud. See attached sketch for details.

14. REPORTED BY	15. VERIFIED BY	16. CORRECTIVE ACTION REQUIRED
A. C. Ashworth, Sr. 8-23-79 (NAME / DATE)	R. W. Shope 8-23-79 (NAME / DATE)	☐ YES ☒ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO — FIELD PROJECT ENGINEER — DATE 8-23-79

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	25. DISPOSITION VERIFICATION	
NAME / DATE	NAME / DATE	☐ ACCEPTABLE ☐ UNACCEPTABLE REPORT OF NONCONFORMITY #

25. CORRECTIVE ACTION

FIELD PROJECT MANAGER — DATE

27. NONCONFORMITY CLOSED

FIELD QUALITY CONTROL SUPV. — DATE

1064 079

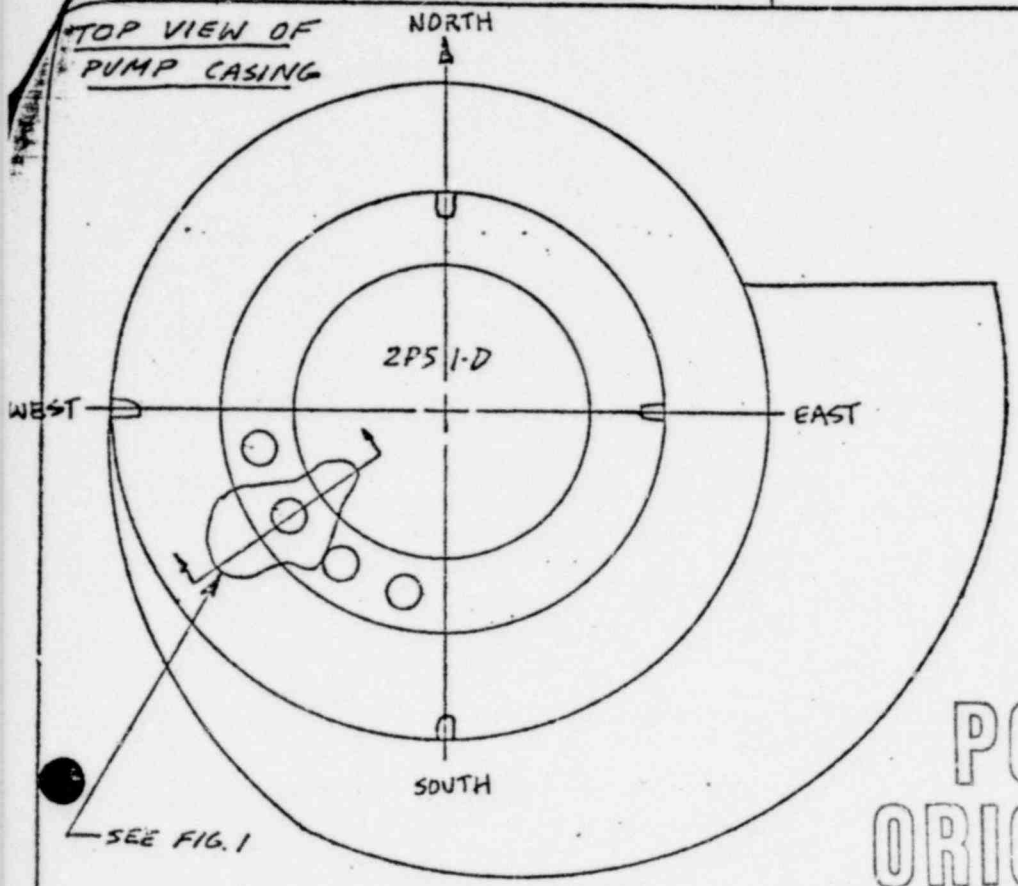
SEQUENTIAL NUMBER № 1648

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

REPORT OF NONCONFORMITY FCP 122 Seq. 015

NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL-238	2	8-23-79	1648

TOP VIEW OF PUMP CASING



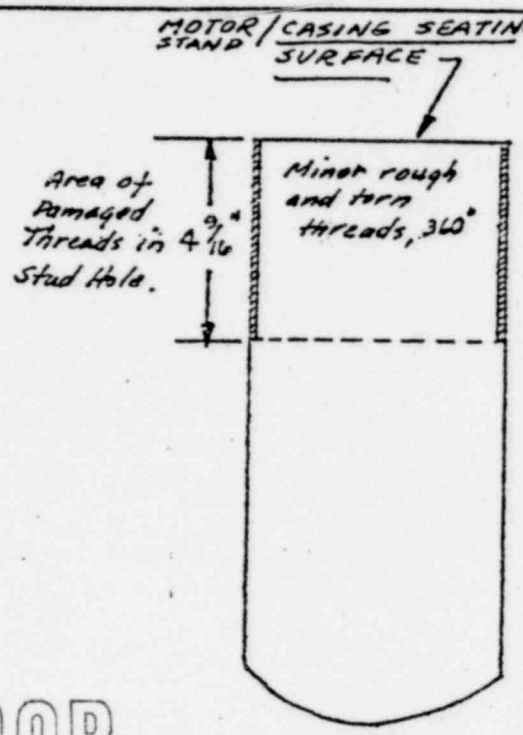
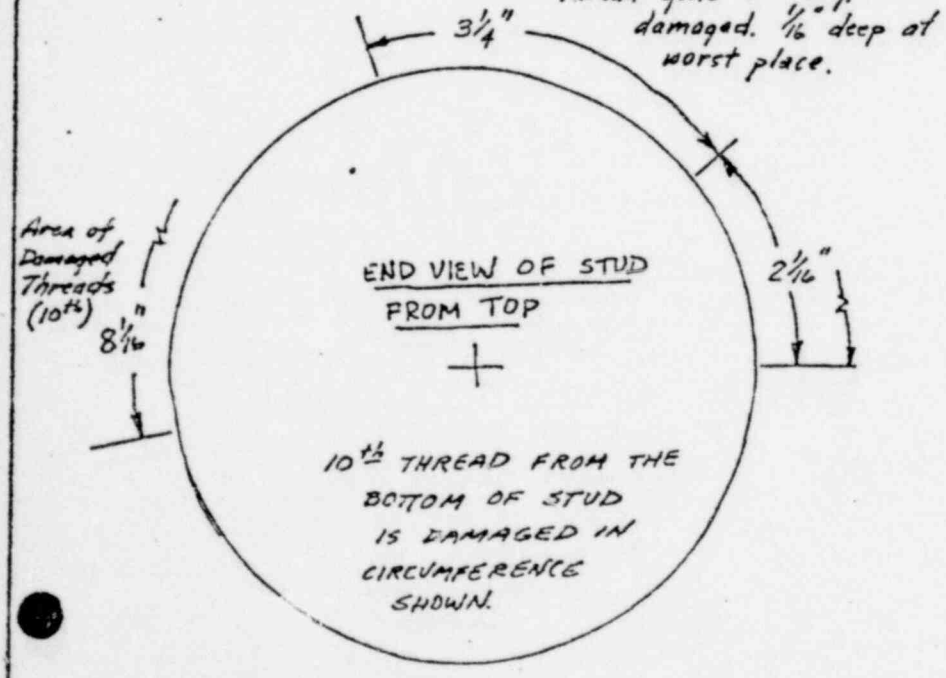
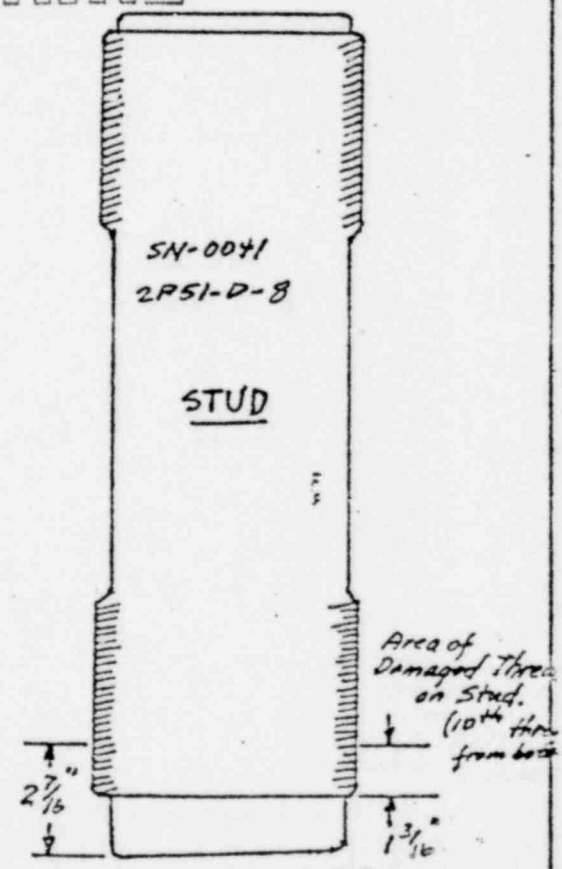


FIG. 1
CROSS SECTION OF STUD HOLE

POOR ORIGINAL





1064 080

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	1 South Steam Gen.	8-27-79	FEED-WATER SPRAY NOZZLE	#46

6. VENDOR/MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
Babcock & Wilcox	☐ RECEIVING ☐ TEST ☒ CONST.	315	FCP-55

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY #
n/a	n/a	n/a

13. DESCRIPTION OF NONCONFORMITY

Crack in the 3/8" fillet (seal) weld extending approximately 180° of the nozzle circumference. See attached sketch for details.

14. REPORTED BY	15. VERIFIED BY	16. CORRECTIVE ACTION REQUIRED
A. C. Ashworth (NAME) 8-27-79 (DATE)	R. D. Murphy (NAME) 8-27-79 (DATE)	☐ YES ☒ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO — W. H. Lum (FIELD PROJECT ENGINEER) — 8-27-79 (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	25. DISPOSITION VERIFICATION	
NAME _____ DATE _____	NAME _____ DATE _____	☐ ACCEPTABLE ☐ UNACCEPTABLE REPORT OF NONCONFORMITY #

25. CORRECTIVE ACTION

FIELD PROJECT MANAGER _____ DATE _____

27. NONCONFORMITY CLOSED

FIELD QUALITY CONTROL SUPV. _____ DATE _____

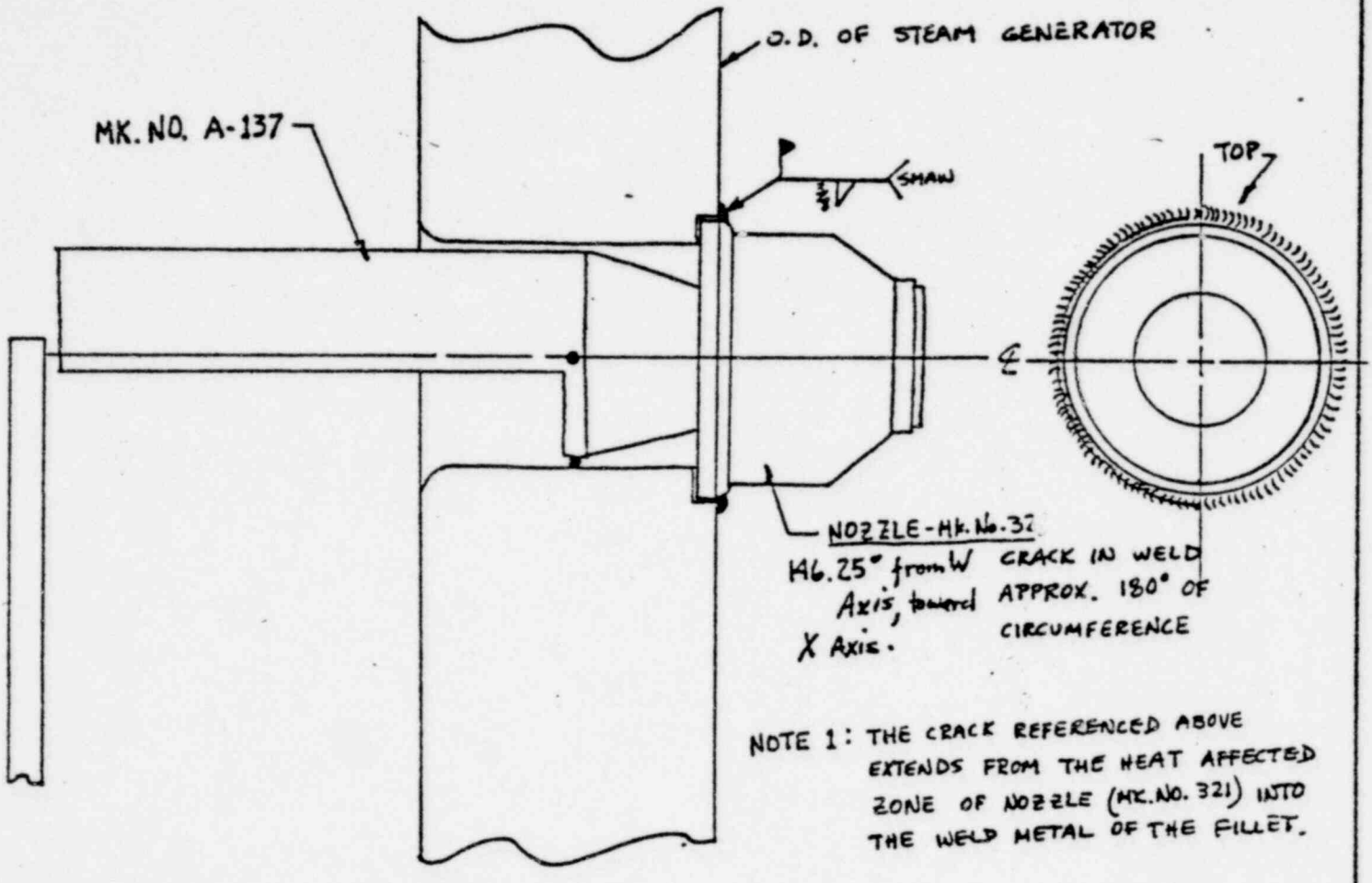
1064 081

SEQUENTIAL NUMBER № 1649

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

REPORT OF NONCONFORMITY

JOB NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL-238	1	8-27-79	1649



NOTE 1: THE CRACK REFERENCED ABOVE EXTENDS FROM THE HEAT AFFECTED ZONE OF NOZZLE (MK. NO. 321) INTO THE WELD METAL OF THE FILLET.

UNIT No. 1 South Steam Generator

POOR ORIGINAL

X

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	8-28-79	RC PUMP 6910N-0044	2P51A

6. VENDOR/MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
Byron-Jackson	☐ RECEIVING ☐ TEST ☒ CONST.	316	FCP-70

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY#
n/a	IF 7623, Rev. K	N/A

13. DESCRIPTION OF NONCONFORMITY

When motor mount is engaged on three of the four (4) locating keys, the fourth key (the first keycounter clockwise of the locating pin) will not line up.

14. REPORTED BY	15. VERIFIED BY	16. CORRECTIVE ACTION REQUIRED
R. D. Brown R Shope for R. D. Brown — NAME 8-28-79 — DATE	R. W. Shope R W Shope — NAME 8-28-79 — DATE	☐ YES ☒ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO

W. H. Linn — FIELD PROJECT ENGINEER — 8-28-79 — DATE

18. RECOMMENDED DISPOSITION: ☐ N/A ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS

19. TECHNICAL JUSTIFICATION/OR RECOMMENDED DISPOSITION INSTRUCTIONS

N/A

FIELD PROJECT ENGINEER — DATE

20. ACTUAL DISPOSITION: ☒ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS

21. DISPOSITION INSTRUCTIONS

1. Chamfer the keys 1/8" x 45° and deburr keys and keyways to assist in alignment and fit-up of the motor mount. Class "B" cleanliness must be maintained.
2. Inspcet and record chamfer.
   Inspect cleanliness.

W. H. Linn — FIELD PROJECT ENGINEER — 8-28-79 — DATE

22. APPROVALS

B&W FQC: R W Shope — SIGNATURE — 8-28-79 — DATE — OTHER: R. J. Lucas for QCP 8-28-79 — SIGNATURE — DATE

OWNER/AGENT: R E White for 9/6/79 — 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

27. NONCONFORMITY CLOSED

FIELD QUALITY CONTROL SUPV. — DATE

1064 003

SEQUENTIAL NUMBER № 1650

PGS-21091-6 (8-79)

PROBLEM REPORT

PRIORITY: 1 ☐ 2 ☒ 3 ☐ 4 ☐ NONE ☐

BABCOCK & WILCOX

REGISTER	ORIGINATOR	DATE	DOC ID	ASS NO.	SPR NO.	REV. NO.
CPCo	R.A. Gwalling	8/31/79	13	12	105	0

SUPPLIER	PA. NO.	PART NO./TASK-GROUP-SEQ. NO.
Byron - Jackson	QEC-0012 - 42	42 40 003

TITLE (maximum 30 characters): RC Pump Keys

LEAD MANAGER: R.K. Kennedy

PROBLEM IDENTIFICATION

DESCRIPTION OF PROBLEM:

Three of four keys will line-up when engaging motor mount to pump casing. The fourth will not line-up. See NCR for details.

Item #22 of NCR #1650

STATUS-ACTION TO DATE, INCLUDING PERSONS CONTACTED:

~~Chamfer keys 3/8" x 3", deburr keys~~

SUGGESTED ACTION RECOMMENDED BY SITE PERSONNEL:

Chamfer keys 3/8" x 3", deburr key & keyways to facilitate alignment. Note: Class "3" clearances must be maintained

RESOLUTION

RESOLUTION

B&W Engineering concurs with the above recommended action. The above action is also approved by the Byron-Jackson site representative (see Item 22 of attached NCR #1650)

☐ INFORMATION ONLY

PREPARED BY: R K Kennedy DATE: 8/31/79

PCR REQUIRED YES	PCR REQUIRED NO	POTENTIAL SAFETY CONCERN YES	POTENTIAL SAFETY CONCERN NO	RESOLUTION DOC. NO.
☐	☒	☐	☒	N/A

REVIEWED BY: W.L. Williams, Licensing DATE: 8/31/79

APPROVED BY: C.E. Ellis DATE: 8-31-79

CLOSEOUT

SER CLOSEOUT REPORT:

CLOSED OUT BY: DATE:

SHEET ____ of ____

POOR ORIGINAL

1812-1

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

REPORT OF NONCONFORMITY

1. JOB NUMBER	2. UNIT NUMBER	3. DATE	4. ITEM NAME	5. ITEM NUMBER
CL-238	2	8-30-79	RC Pipe	See Below

6. VENDOR/MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
B & W Mt. Vernon	☐ RECEIVING ☐ TEST ☒ CONST.	317	FCP 106 SEQ 140

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY#
N/A	N/A	N/A

13. DESCRIPTION OF NONCONFORMITY

1/8 inch maximum cavity depth requirement for removed ~~pinned~~ PEENED WGL 8-30-79 thermocouples violated. Weld joint 6-2, thermocouple number 1, as shown on attachment.

14. REPORTED BY	15. VERIFIED BY	16. CORRECTIVE ACTION REQUIRED
A. C. Schmidt Jr. 8-30-79 (NAME / DATE)	R. W. Thope 8-30-79 (NAME / DATE)	☒ YES ☐ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO — H. A. Linn (FIELD PROJECT ENGINEER) — 8-30-79 (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	25. DISPOSITION VERIFICATION ☐ ACCEPTABLE ☐ UNACCEPTABLE
NAME _____ DATE _____	NAME _____ DATE _____ REPORT OF NONCONFORMITY #

25. CORRECTIVE ACTION

1064 085

FIELD PROJECT MANAGER _____ DATE _____

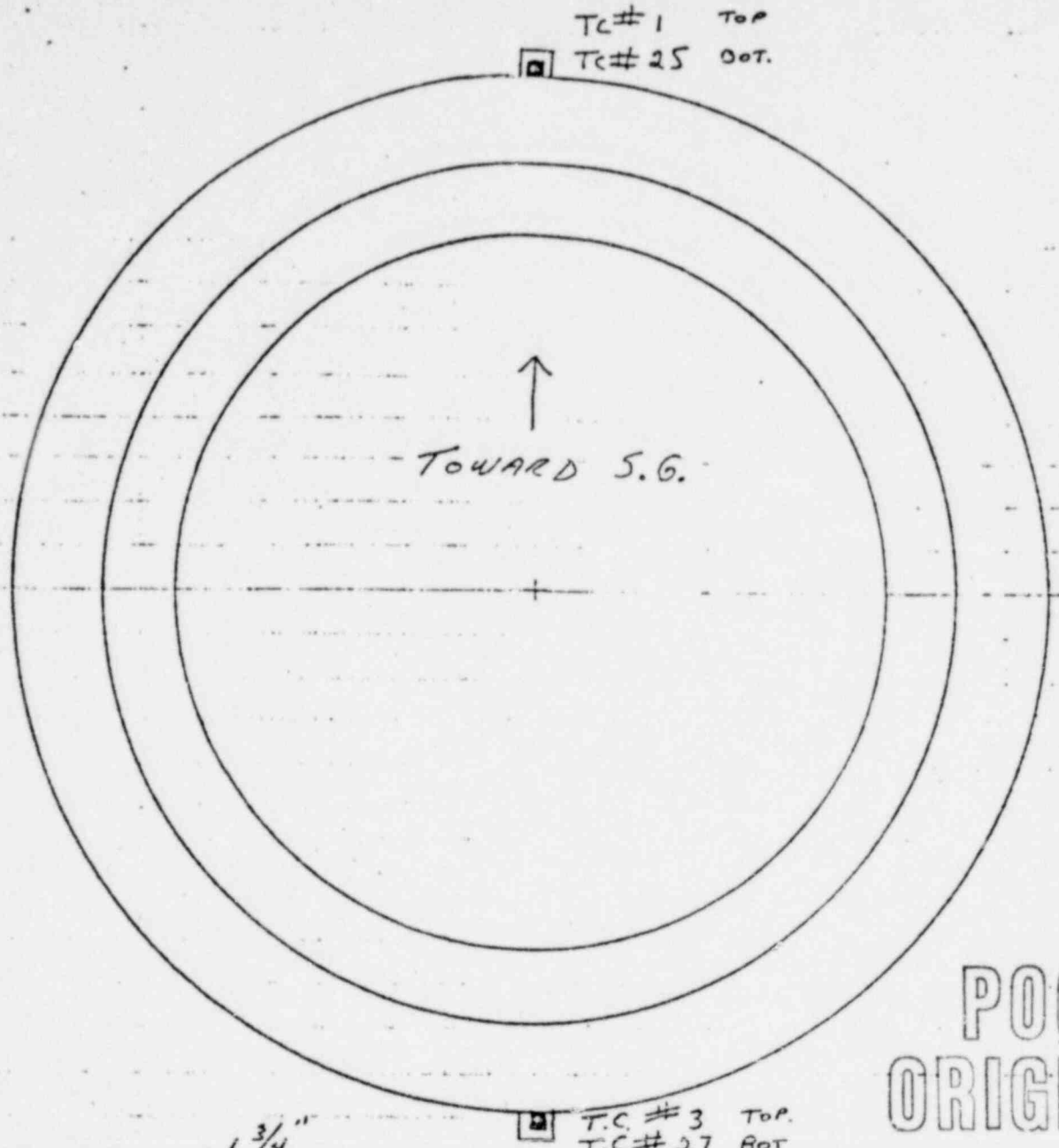
27. NONCONFORMITY CLOSED

FIELD QUALITY CONTROL SUPV. _____ DATE _____ NCR. 1651

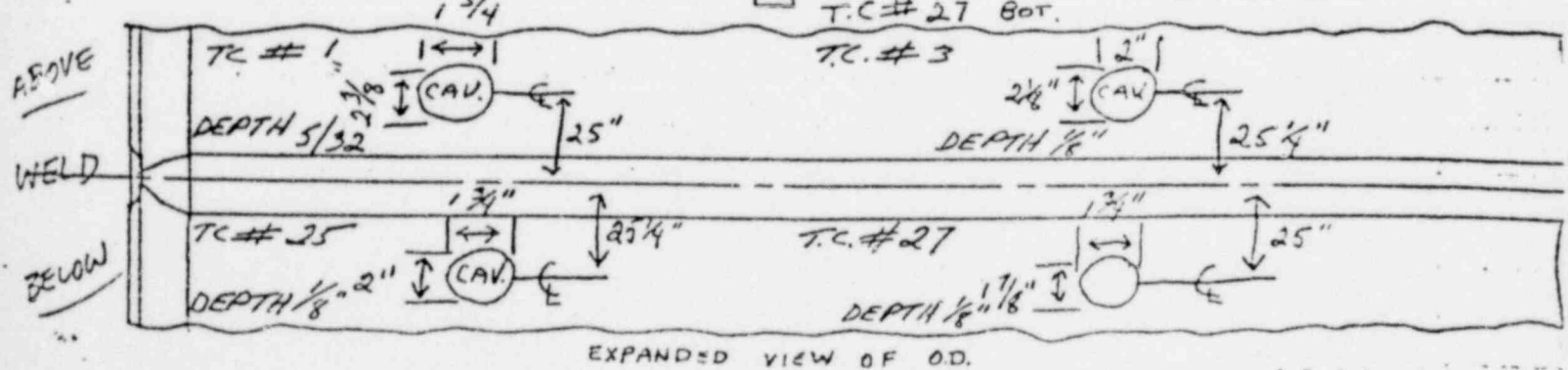
SPOOL 424-1 ~16-2

Page 2 of 2

DEENED CAVITY CHART



POOR ORIGINAL



EXPANDED VIEW OF O.D.

1064 086

WELD NO. 16-2

Ref. NCR # 1651

FCP # 106

UNIT # 2

SEQ # 150

DATE 8/30/79

SIGNED [signature]

BWCC 31812

REPORT OF NONCONFORMITY

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

TO BE COMPLETED BY FIELD QC

SYSTEM OR PART NAME	JOB NO.	DATE
1 1/2" S.S. Incore Instrumentation Tubing	2 CL-238	3 1-29-79

DRAWING VIOLATED & REV.	VENDOR NAME	REJECT TAG NOS.
4 M-351	5 Mercury Co.	6 136

PROC/SPEC. VIOLATED	P.O. NO.	PART NO.	SYSTEM DESIGNATION
7 9-QPP-108	8 7220-M-346 AC	9 1-39L-2	10 Tubing Instrumentation

CORRECTIVE ACTION REQUIRED
11 ☐ YES ☒ NO

REPORTED BY
12 R. D. Brown / R. D. Brown

CONDITION DETAILS
Shipping cap over the end of tube No. 1-39L-2 was damaged in shipping or storage. Dirt was then allowed to enter the end of tubing.
13

CONDITION DETAILS VERIFIED BY
14 B&W QC SUPV. RW Thope DATE 1-29-79

DISPOSITION REQUESTED FROM
☒ B&W CONSTRUCTION ☐
15 BY RW Thope DATE 1-29-79

TO BE COMPLETED BY F.P. ENGINEERING

REPORTABILITY PER 10 CFR 50.55 (E)
16 ☐ REPORTABLE ☒ NON-REPORTABLE BY C. E. Venable DATE 1-29-79

DISPOSITION INSTRUCTIONS

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

~~Owner or agent to advise disposition.~~ RDB 6-19-79

Clean I.D. tubes with a cloth dampened with spot check cleaner. KRB-6-27-79
Visually inspect I.D. tubes with a flashlight for cleanliness. RDB 8-11-79
17

DISPOSITION APPROVED BY
B&W QC SUPV. RW Thope DATE 6-19-79
B&W FPE D. D. Dunst DATE 6-19-79
OTHER R. E. Whitaker DATE 6/21/79
OTHER _____ DATE _____
18

DISPOSITION DETAILS BY
19 B&WCC D. D. Dunst 6-19-79

ACTION COMPLETED
20 BY K. R. Brock DATE 8-11-79

TO BE COMPLETED BY FIELD QC

REWORK INSPECTION
☒ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE
☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE
21 BY R. D. Brown DATE 8-11-79
REPORT OF NONCONFORMITY _____

NON CONFORMITY CLOSED
22 B&W QC SUPV. R. C. Abbott DATE 8-13-79

TO BE COMPLETED BY F.P. MANAGER

CORRECTIVE ACTION DESCRIPTION
23

FIELD PROJECT MANAGER

1064 087

ANI

ANI ACCEPTANCE
24 [signature] DATE 6/26/79

SEQUENTIAL NUMBER No. 476

BWCC 51812

REPORT OF NONCONFORMITY

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

TO BE COMPLETED BY FIELD QC

SYSTEM OR PART NAME	JOB NO.	DATE
1 R.C. Pump Casing, Unit #2	2 CL-238	3 3/27/79

DRAWING VIOLATED & REV.	VENDOR NAME	REJECT TAG NOS.
4 N/A	5 Byron Jackson Pump	6 179

PROC/SPEC. VIOLATED	P.O. NO.	PART NO.	SYSTEM DESIGNATION
7 FCP #35	8 020682 LW	9 620-0012-42	10 R.C. Pump

CORRECTIVE ACTION REQUIRED
11 ☐ YES ☒ NO

REPORTED BY
12 R. D. Brown / R. D. Brown

CONDITION DETAILS
While installing the lifting device it was found that the threads in the third hole clock-wise, from the south key-way, would not allow the stud to be screwed in more than 3 1/2". The threads were slightly galled in this area by this action. This area is 3" to 4" down from the top of stud hole.
The minor diameter readings were taken 90° apart, top 4.617" & 4.613", 3" down 4.615" & 4.612", 4" down 4.614" & 4.611", bottom 4.628" & 4.630" .
13

CONDITION DETAILS VERIFIED BY
14 B&W QC SUPV. R W Thope DATE 3-27-79

DISPOSITION REQUESTED FROM
☒ B&W CONSTRUCTION ☐
15 BY R W Thope DATE 3-27-79

TO BE COMPLETED BY F.P. ENGINEERING

REPORTABILITY PER 10 CFR 50.55 (E)
16 ☐ REPORTABLE ☒ NON-REPORTABLE BY D. E. Gemale DATE 3-27-79

DISPOSITION INSTRUCTIONS

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

Owner/agent obtain bottom tap from pump manufacturer and retap hole.
Vendor approval required.

See Attachment "A" and SPR 83.
17

DISPOSITION APPROVED BY
18
B&W QC SUPV. R W Thope DATE 7-20-79
B&W FPE H. H. Lyon DATE 7-20-79
OTHER R E Whitaker DATE 7/23/79
OTHER _____ DATE _____

DISPOSITION DETAILS BY
19 H. H. Lyon 7-26-79

ACTION COMPLETED
20 BY H. Landes DATE 8-1-79

TO BE COMPLETED BY FIELD QC

REWORK INSPECTION ☒ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE ☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE
21 BY R.D. Brown DATE 8-29-79 REPORT OF NONCONFORMITY _____

NON CONFORMITY CLOSED
22 B&W QC SUPV. R W Thope DATE 8-30-79

TO BE COMPLETED BY F.P. MANAGER

CORRECTIVE ACTION DESCRIPTION
23

FIELD PROJECT MANAGER

1064 088

ANI

ANI ACCEPTANCE C. Spruce DATE 7-26-79
24

496

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

PAGE ____ OF ____

REPORT OF NONCONFORMITY

JOB NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL 238	2	7-20-79	496

ATTACHMENT "A"

JH 7-25-79 1. Owner agent to obtain bottom tap from pump manufacturer.

JH 8-1-79 2. Re-tap hole under supervision of Byron-Jackson representative.

JH 8-1-79 3. Clean hole of Burrs and loose material.

RDB 8-29-79 4. Visually inspect tapped hole areas of thread loss.

not Reqd. RDB. 5. Map and record these areas. no thread loss or damage evident.

6. Transmit information to B&W NPGD as an approximate percentage of total area with respect ot the extent of thread loss in these areas along with the size and location of the damaged areas. INFORMATION TRANSMITTED 8-30-79 W.G Lin

B. J. Rep. 8-30-79

1064 089

Threads Galled 3" to 4" Down In Third Hole
Clockwise From South Headway, See Data
On NCR.

H. A. GUSTLING
JUL 16 1979

BFW CC NCR # 496

Inlet Rice - Lyndenberg

Obtain Bottom Tap From Pump
Owner/Agent
Manufacturer And Re-Tap Hole.
Written Approval Required.

The hole should be re-tapped with a bottom tap under the supervision of a Byron Jackson representative. Final conditions are to be visually inspected for areas of thread loss and these areas reported to BJ as an approximate percentage of total area with respect to the extent of thread loss in the areas and the size and location of the damaged areas.

2-12-79
7-12-79

POOR ORIGINAL

1064 090

DATE 1 CO 17

1812

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 Return Line	2 CL-238	3 4/25/79

DRAWING VIOLATED & REV.	VENDOR NAME	REJECT TAG NOS.
4 151872E, Rev. 2	5 E&W	6 501

PROC/SPEC. VIOLATED	P.O. NO.	PART NO.	SYSTEM DESIGNATION
7 FCP #43, Unit #2	8 M 1.9	9 B 41-2	10 Reactor Coolant

CORRECTIVE ACTION REQUIRED
11 ~~☐ YES~~ ☒ NO

REPORTED BY
12 A. C. Ashworth, Sr. / R W Thope for A. C. Ashworth

CONDITION DETAILS

An arc strike was found on the O.D. of Mk.-42.
(See attached sketch).

13

CONDITION DETAILS VERIFIED BY
14 B&W QC SUPV. R W Thope DATE 4-25-79

DISPOSITION REQUESTED FROM
☒ B&W CONSTRUCTION ☐
15 BY R W Thope DATE 4-25-79

TO BE COMPLETED BY F.P. ENGINEERING

REPORTABILITY PER 10 CFR 50.55 (E)
16 ☐ REPORTABLE ☒ NON-REPORTABLE BY D. E. Knuth DATE 4-25-79

DISPOSITION INSTRUCTIONS

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

See attached sheet.

17

DISPOSITION APPROVED BY
18
B&W QC SUPV. R W Thope DATE 7-6-79
B&W FPE W. H. Linn DATE 7-6-79
OTHER R E Walker DATE 7/6/79
OTHER _____ DATE _____

DISPOSITION DETAILS BY
19 W. H. Linn 7-6-79

ACTION COMPLETED
20 BY James L. Jones DATE 8-1-79

TO BE COMPLETED BY FIELD QC

REWORK INSPECTION
☒ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE
☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE
21 BY James L. Jones DATE 8-1-79
REPORT OF NONCONFORMITY _____

NON CONFORMITY CLOSED
22 B&W QC SUPV. R W Thope DATE 8-2-79

TO BE COMPLETED BY F.P. MANAGER

CORRECTIVE ACTION DESCRIPTION
Superintendents re-instructed welders to take necessary precautions with welding equipment to avioid arc strikes.

FIELD PROJECT MANAGER
23

1061 091

ANI

ANI ACCEPTANCE C. Arnzy DATE 7-12-79
24

SEQUENTIAL NUMBER № 523

NCR- #523

DISPOSITION INSTRUCTIONS

Step. No.

1. Blend grind to remove indications.
   8-1-79 KRB

2. Etch to insure removal of heat effected zone per 9-WG-104.
   8-1-79 J.R. Jones

3. Inspect surface per 9-MT-103.
   MT Accept Report # 3087 8-1-79 H. Green

4. Grind as necessary to remove M.T. indications and re-inspect per 9-MT-103, to clear indications.
   N/R 8-1-79 KRT

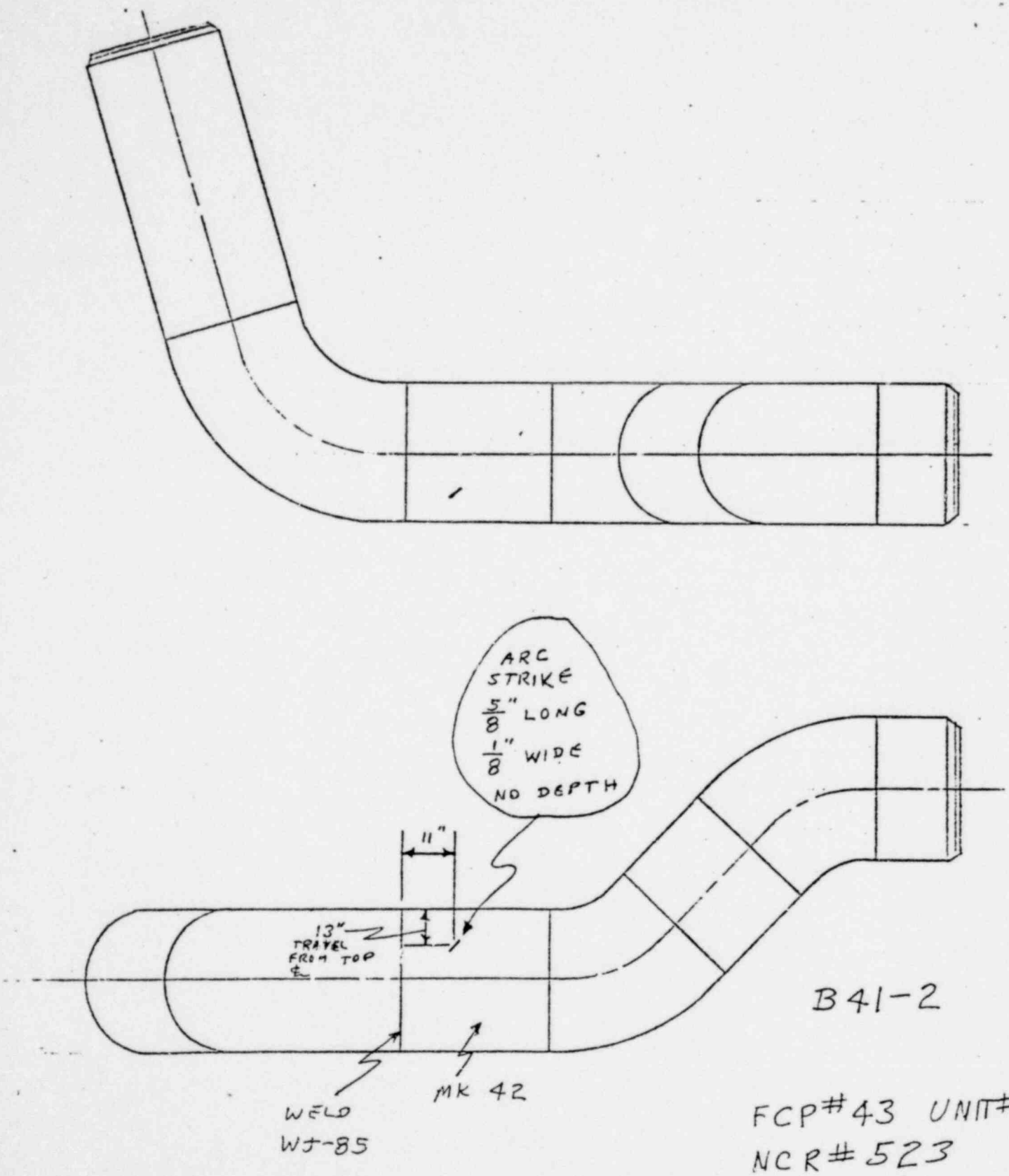
5. If prod burns are present remove by grinding.
   Accept R.B. 8-1-79

6. Inspect ground area per 9-MT-105.
   MT Accept Report #3088 8-1-79 H. Green

7. Identify and chart repaired area.
   SEE ATTACHED CHART 8-1-79 J.R. Jones

8. If depth of cavity is greater than 1/16", report to vendor.
   N/R 8-1-79 J.R. Jones

1064 092



B41-2

FCP#43 UNIT#2
NCR#523
REJ. TAG NO. 501

1064 093

BWCC 31809-1

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

MAGNETIC PARTICLE & LIQUID PENETRANT INSPECTION REPORT

MAGNETIC PARTICLE REPORT

JOB NUMBER CL-238 WELD NUMBER N/A DATE 8-1-79

SYSTEM NUMBER Reactor Coolant M.T. PROCEDURE NUMBER 9MT-105

WELD REPAIR NUMBER N/A SEQ. NUMBER 6 F.C.P. NUMBER NCR #523

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

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

☒ ACCEPT ☐ REJECT

COMMENTS: Lighting Acceptable

INSPECTOR [signature]

CERTIFIED LEVEL II

LIQUID PENETRANT REPORT

JOB NUMBER _____ WELD NUMBER _____ DATE _____

SYSTEM NUMBER _____ L.P. PROCEDURE NUMBER _____

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

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

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

☐ ACCEPT ☐ REJECT TEMPERATURE _____ GAGE NUMBER _____

COMMENTS:

1064 094

INSPECTOR _____

CERTIFIED LEVEL _____

BWCC 31809-1

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

MAGNETIC PARTICLE & LIQUID PENETRANT INSPECTION REPORT

MAGNETIC PARTICLE REPORT

JOB NUMBER CL-239 WELD NUMBER N/A DATE 8-1-79

SYSTEM NUMBER Reactor Coolant M.T. PROCEDURE NUMBER 9MT-103

WELD REPAIR NUMBER N/A SEQ. NUMBER 3 F.C.P. NUMBER NCR #523

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

CURRENT	EXAMINATION METHOD		EQUIPMENT	MAGNETIC PARTICLE
☐ A.C. ☐ D.C. ☒ D.C. RECTIFIED AMPERES 300-400	☒ PROD ☐ Y-5 YOKE	☐ WET ☒ DRY	MAKE Hitec MODEL 630 A SERIAL NUMBER 1042	☐ 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 ☐ B 31.1 ☐ OTHER

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

☐ ACCEPT ☐ REJECT TEMPERATURE _____ GAGE NUMBER _____

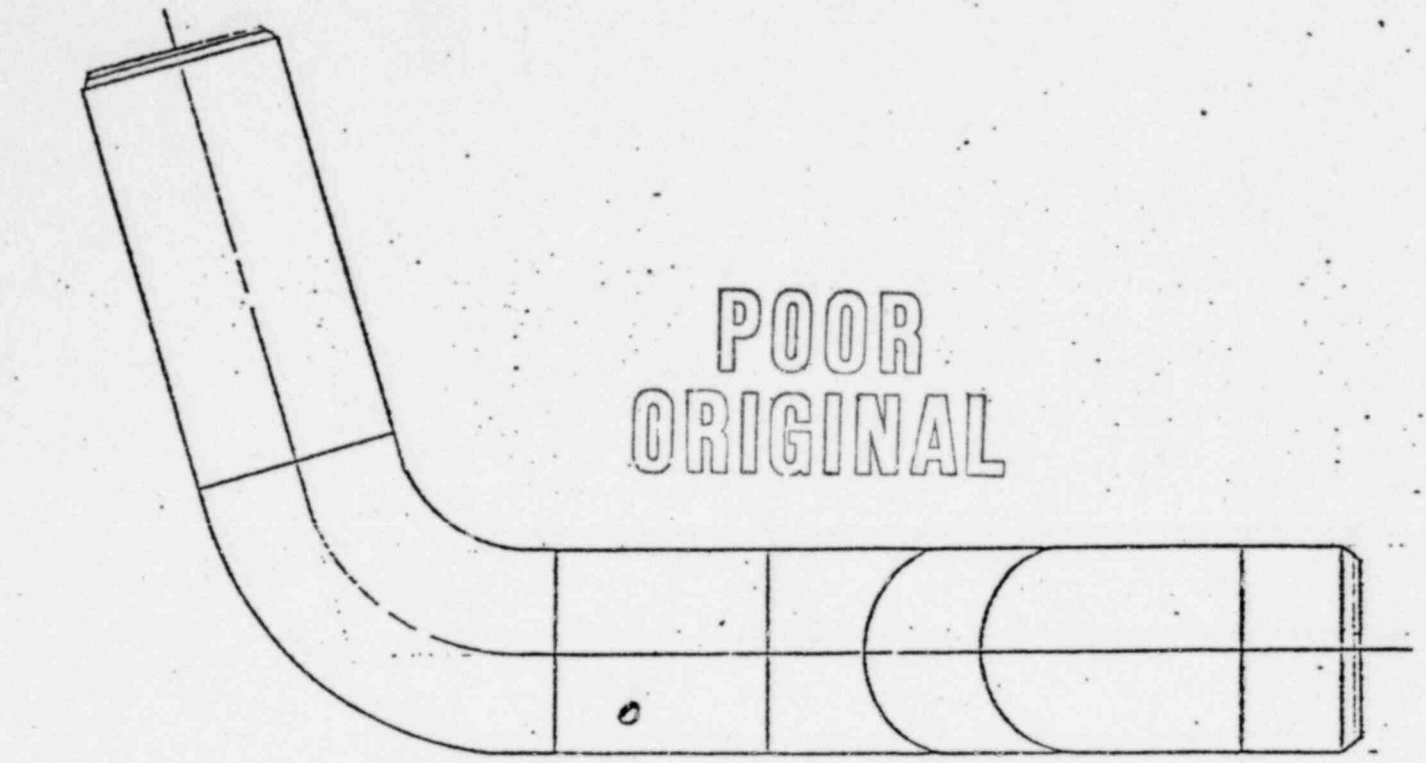
COMMENTS:

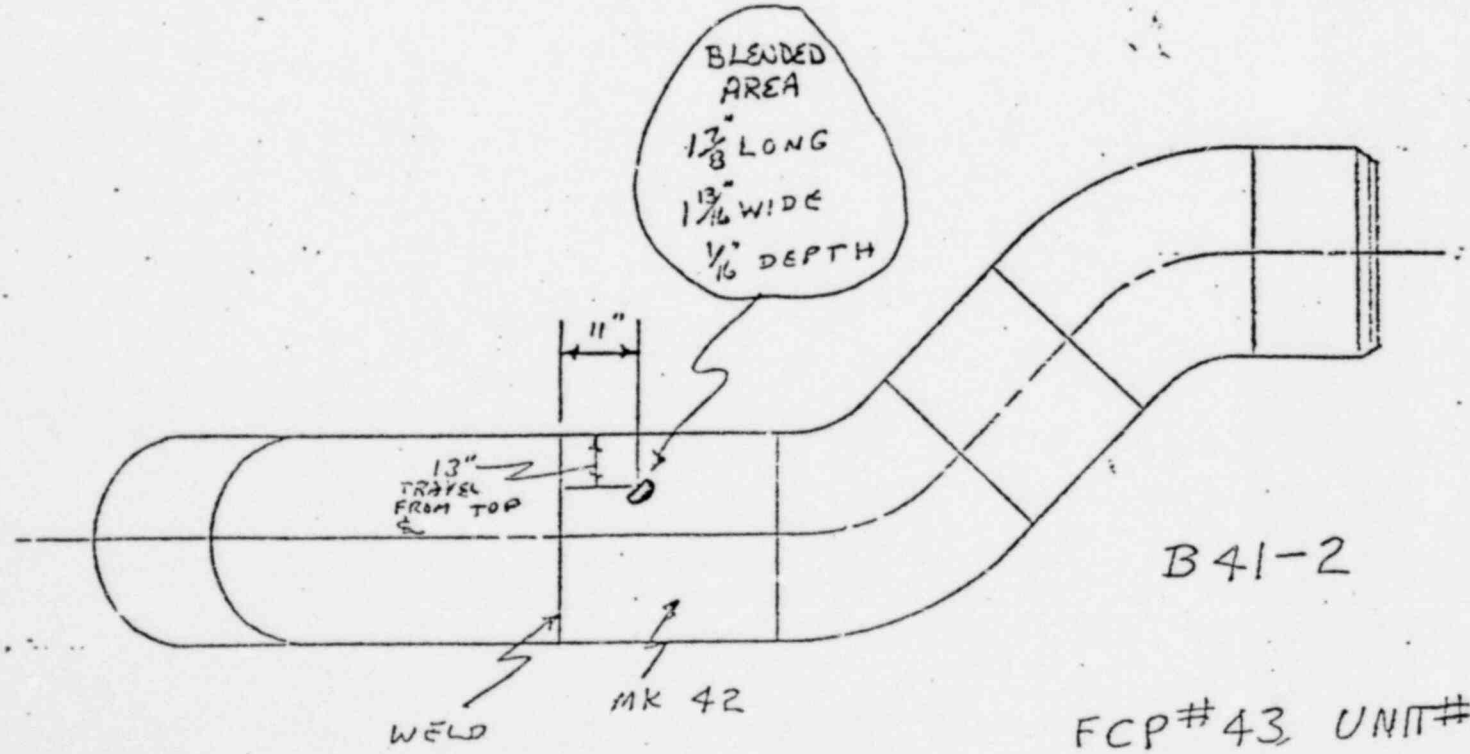
1064 095

INSPECTOR _____

CERTIFIED LEVEL _____

POOR
ORIGINAL





B41-2

FCP#43 UNIT#2
NCR#523
REJ. TAG NO. 501
SEQ #7
8-1-79

1064 096

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

REPORT OF NONCONFORMITY

1. JOB NUMBER	2. UNIT NUMBER	3. DATE	4. ITEM NAME	5. ITEM NUMBER
CL-238	Unit- #1	5/18/79	Feedwater spray nozzles	A-137 (Mark No.)

6. VENDOR/MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
Babcock & Wilcox	☒ RECEIVING ☐ TEST ☐ CONST.	505 & 506	9-QPP-108

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY#
FS III-2	104158D, Rev. 2	N/A

13. DESCRIPTION OF NONCONFORMITY

Feedwater spray nozzles were discovered to have a heavy scale of oxidation on all surfaces (I.D. & O.D.) when shipping containers were opened during receipt inspection.

Reference FCP- #55 Receipt Inspection Report- #216

14. REPORTED BY	15. VERIFIED BY	16. CORRECTIVE ACTION REQUIRED
J Rheinhardt NAME 5.18.79 DATE	R W Hupe NAME 5-18-79 DATE	☐ YES ☒ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO

D G Durst — FIELD PROJECT ENGINEER — 5-18-79 DATE

18. RECOMMENDED DISPOSITION: ☐ N/A ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS

19. TECHNICAL JUSTIFICATION/OR RECOMMENDED DISPOSITION INSTRUCTIONS

Oxidation is a result of long term storage.
Vendor to advise disposition.

D G Durst — FIELD PROJECT ENGINEER — 5-22-79 DATE

20. ACTUAL DISPOSITION: ☒ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS

21. DISPOSITION INSTRUCTIONS

See attachment "A" for disposition instructions.

D G. Durst — FIELD PROJECT ENGINEER — 5-29-79 DATE

22. APPROVALS

B&W FQC: R W Hupe — SIGNATURE — 5-29-79 DATE — OTHER _____ SIGNATURE _____ DATE

OWNER/AGENT: R E Watchie — SIGNATURE — 5/31/79 DATE — OTHER _____ SIGNATURE _____ DATE

23. ANI REVIEW

C. Arnge — SIGNATURE — 6-5-79 DATE

24. DISPOSITION COMPLETED

J Rheinhardt — NAME — 8-16-79 DATE

25. DISPOSITION VERIFICATION ☒ ACCEPTABLE ☐ UNACCEPTABLE

A C Wolfe — NAME — 8-16-79 DATE — REPORT OF NONCONFORMITY #

25. CORRECTIVE ACTION

POOR ORIGINAL

FIELD PROJECT MANAGER — DATE

27. NONCONFORMITY CLOSED

R W Hupe — FIELD QUALITY CONTROL SUPV. — 8-16-79 DATE — 1064 097

SEQUENTIAL NUMBER № 1605

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

REPORT OF NONCONFORMITY

JOB NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL-238	Unit- #1	5/29/79	NCR- #1605

DISPOSITION INSTRUCTIONS

Attachment "A"

VOID

1. Remove iron oxide by immersing or spraying nozzles with a 7-1/2% inhibited Hydrocloric Acid solution.
2. Brush and rinse with a copious amount of water.
3. Flush all surfaces with a 1% solution of Sodium Hydroxide.
4. Flush with a 1% solution of Sodium Hydroxide and Sodium Nitrate.
5. Flush with Grade I or II water.
6. Dry with gaseous nitrogen
7. Inspect spray nozzles to assure that the iron oxide has been removed and the nozzle dimensions as shown on drawing 104158D Rev. 2, have not been violated.

Revision No. 1

1. Bechtel will clean nozzles.
2. Vendor representative to accept.

Concurrence Required on Rev. No. 1

	Signature	Date
Field Project Eng.	H. A. Linn	7-13-79
B&W F.Q.C.	R W Shope	7-16-79
Owner/Agent	RE Whitaker	7/17/79
A.N.I.	C. W. Arey	7-19-79

POOR ORIGINAL

CORRESPONDENCE-B&W CONSTRUCTION COMPANY

TO ENTREKIN / WALT SKOTYNSKY

CUSTOMER: BECHTEL Power Co.

JOB NO.:

DATE: 8-14-79

RE: NCR 1605

Please be advised that the reference feedwater nozzles are cleared and are acceptable to this office. A Class "C" clearance has been achieved.

D. A. Guelling

POOR ORIGINAL

COPY SENT TO:

QC 31A2-1

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	6-7-79	Core Flood Spool	2-CCA-20-S-611-1-4

6. VENDOR/MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
ITT Grinnell	☐ RECEIVING ☐ TEST ☒ CONST.	543	12

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY?
N/A	M611	N/A

13. DESCRIPTION OF NONCONFORMITY

Minimum wall thickness is violated in an area around the circumference of the spool at field weld #2 - see sheet #2. Minimum wall thickness in this area is 1.015". The required minimum wall thickness is 1.093".

14. REPORTED BY	15. VERIFIED BY	16. CORRECTIVE ACTION REQUIRED
R. D. Brown (NAME) 6-7-79 (DATE)	R. W. Shope (NAME) 6-7-79 (DATE)	☐ YES ☒ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO — D G Durst (FIELD PROJECT ENGINEER) — 6-7-79 (DATE)

18. RECOMMENDED DISPOSITION: ☐ N/A ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS

19. TECHNICAL JUSTIFICATION/OR RECOMMENDED DISPOSITION INSTRUCTIONS

Owner/agent to advise disposition.

D G Durst (FIELD PROJECT ENGINEER) — 6-19-79 (DATE)

20. ACTUAL DISPOSITION: ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS

21. DISPOSITION INSTRUCTIONS

Acceptable for use as is per Bechtel RFI #104.

D G Durst (FIELD PROJECT ENGINEER) — 7-17-79 (DATE)

22. APPROVALS

B&W FQC: R W Shope (SIGNATURE) 7-17-79 (DATE) OTHER (SIGNATURE) (DATE)

OWNER/AGENT: R C Whitaker (SIGNATURE) 7/31/79 (DATE) OTHER (SIGNATURE) (DATE)

23. ANI REVIEW: C Jones (SIGNATURE) 7-31-79 (DATE)

24. DISPOSITION COMPLETED	25. DISPOSITION VERIFICATION	
R Shope (NAME) 7-31-79 (DATE)	R Shope (NAME) 7-31-79 (DATE)	☒ ACCEPTABLE ☐ UNACCEPTABLE REPORT OF NONCONFORMITY

25. CORRECTIVE ACTION

FIELD PROJECT MANAGER — DATE

27. NONCONFORMITY CLOSED

R Shope (FIELD QUALITY CONTROL SUPV.) — 7-31-79 (DATE)

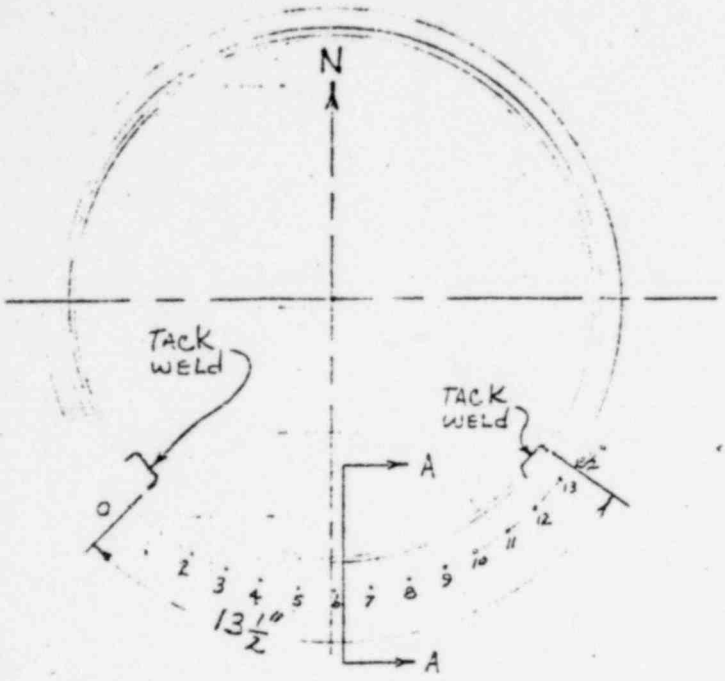
1064 100

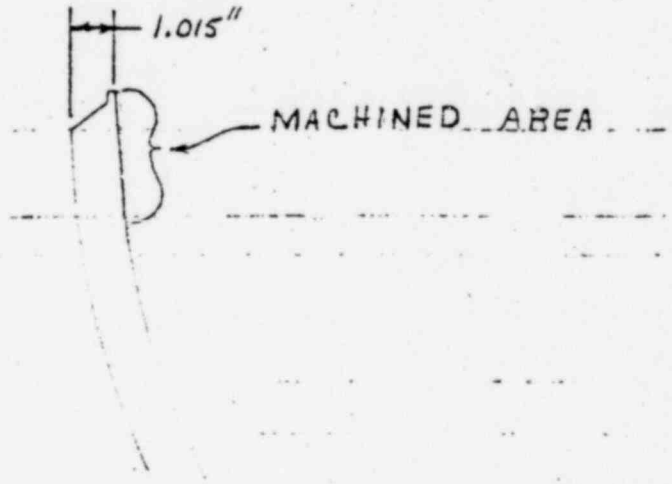
SEQUENTIAL NUMBER № 1610

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

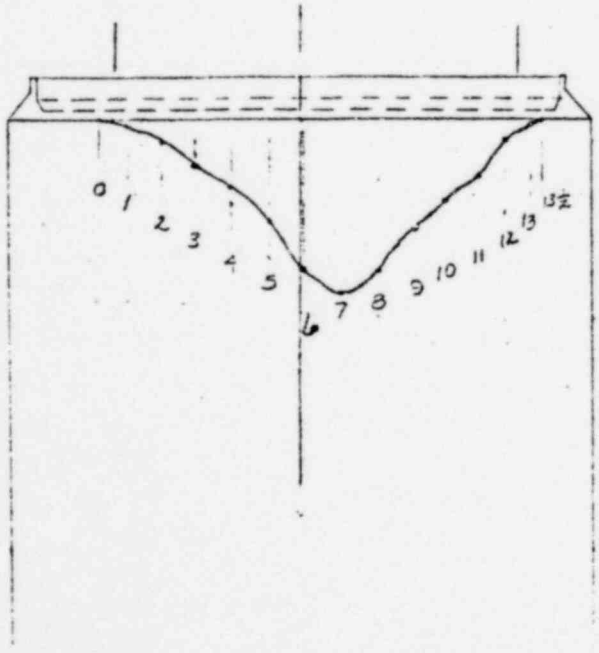
REPORT OF NONCONFORMITY

B NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY # 1610 1608
CL 238	UNIT # 2	6-7-79	





SECTION A-A



DIM. DOWN SPOOL FROM EDGE OF WELD PREP

0 - 0
1 - 1/32"
2 - 5/32"
3 - 5/16"
4 - 19/32"
5 - 25/32"
6 - 1 5/32"
7 - 1 7/8"
8 - 1 29/32"
9 - 15/16"
10 - 2 1/32"
11 - 7/16"
12 - 3/16"
13 - 1/32"
13½ - 0

DRAWING NOT TO SCALE

POOR ORIGINAL

REQUEST FOR INFORMATION

CT NO. 7220-M-1A C/C NO. CL-238 RELATED YES ☒ NO ☐ No. 104 DATE 6-19-7

DWG. OR SPEC.	SHEET	REV.	TITLE
M-611	1	7	Decay Heat Removal & Core Flooding System Unit #2

PREPARED BY: D. G. Durst/ D G Durst RESPONSE REQUESTED BY DATE

EXISTING CONDITION:

Reference: Report of Nonconformity #1610

REQUESTED INFORMATION:

Bechtel to advise

SUBCONTRACTOR TO COMPLETE

RESPONSE:

Spool 2CCA-20-S-611-1-4 with a minimum wall thickness of 1.015" is acceptable for use as is per Bechtel Inter-office Memorandum # BEBC-3080, Castleberry to Newgen; Dated 7/6/79.

POOR ORIGINAL

1064 102

BECHTEL TO COMPLETE

REVIEWED BY: DATE

CIVIL N/A

RESPONSE PREPARED BY: Ron Dunbar 7/16

Bechtel Associates Professional Corporation

Inter-office Memorandum

BEBC-3080

RECEIVED
JUL 1 01979
BECHTEL POWER CORP
JOB 7220
PER _____

To J.F. Newgen

Date July 6, 1979

Subject Midland Plant Units 1 & 2
Job 7220
B&W Nonconformance Report
dated 6/7/79

From R.L. Castleberry

Of Engineering

At Ann Arbor

Copies to File: 0274, M-104A-PR
R. Baltazar
L. Basinski
Com Log

Reference: IOM, J.F. Newgen to R.L. Castleberry, dated 6/25/79
BCBE-2394

This is a complete response to the referenced memorandum. We have reviewed the subject B&W nonconformance report (NCR). Spool 2CCA-20-S-611-1-4, which has a minimum wall thickness of 1.015 inches, is acceptable for use as is. The existing wall thickness reported in the subject NCR is sufficient for the design service conditions of this spool. Use the spool as is. No repair or rework is required.

for R.L. Castleberry

JOA/pd
7/2/3

POOR ORIGINAL

FILE

W.J. LEE

TO Vas Ayanka
jobsite

JUL 27 1979

B & W

DATE 7/27/79

MESSAGE

Attached is a copy of your RFI # 104 and the attached Bechtel memo # BEBC-3080 which provide authorization for acceptance as is. This will serve to close up your NCR # 1610

V.N.A.

JUL 27 1979

B & W

SIGNED Frank O'Kuna

REPLY

POOR ORIGINAL

IOCA 104

SIGNED

DATE / /

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	6-20-79	CRD Housings	16-A59-2013-5260 16-A55-2013-5267

6. VENDOR/MANUFACTURER	7. DISCOVERED DURING	8. REJECT TAG NUMBER	9. PROCEDURE NUMBER
B&W	☐ RECEIVING ☐ TEST ☒ CONST.	539	FCP-69

10. SPECIFICATION NUMBER	11. DRAWING NUMBER	12. PRIOR REPORT OF NONCONFORMITY?
FS-111-1B	142156E Rev. 5	N/A

13. DESCRIPTION OF NONCONFORMITY

There is an arc strike on each of two CRD housings, this was done while installing the insulation supports. (see page 2).

14. REPORTED BY	15. VERIFIED BY	16. CORRECTIVE ACTION REQUIRED
R. D. Brown (NAME) 6-20-79 (DATE)	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

Grind to 3 to 1 taper ~~UT~~ PT WBC 6-26-79 examine in accordance with ~~9-UT-102~~ 9-PT-103 WBC 6-20-79. 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 site problem report 44
Grind to 3 to 1 taper. PT examine in accordance with 9-PT-103. Map and report defect size to vendor.

PT Accept 4104 7-23-79 R Mumpower
R 7-23-79 Grinding
Cat Pat 7-23-79 W. C. Galbreath
REPORTED W. H. Linn 8-4-79

W. H. Linn (FIELD PROJECT ENGINEER) — 7-11-79 (DATE)

22. APPROVALS

B&W FQC Ronald W Shope 7-11-79 (SIGNATURE / DATE) OTHER _____ (SIGNATURE / DATE)

OWNER/AGENT R E Whitaker 7/11/79 (SIGNATURE / DATE) OTHER _____ (SIGNATURE / DATE)

23. ANI REVIEW

C. Bunge (SIGNATURE) 7-19-79 (DATE)

24. DISPOSITION COMPLETED	25. DISPOSITION VERIFICATION	
W. H. Linn (NAME) 8-4-79 (DATE)	W. C. Galbreath (NAME) 8-4-79 (DATE)	☒ ACCEPTABLE ☐ UNACCEPTABLE REPORT OF NONCONFORMITY

25. CORRECTIVE ACTION

Advised superintendents to take necessary precautions (protective coverings, taping, etc.) to protect adjacent surfaces when welding.

POOR ORIGINAL

R. E. Bunge (FIELD PROJECT MANAGER) — 7-13-79 (DATE)

27. NONCONFORMITY CLOSED

R W Shope (FIELD QUALITY CONTROL SUPV.) — 8-7-79 (DATE) 1064 105

SEQUENTIAL NUMBER № 1615

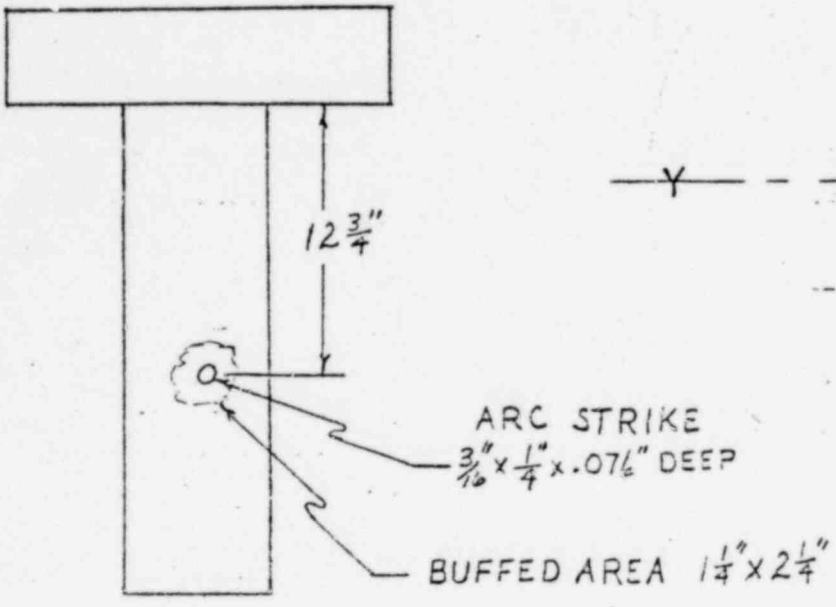
BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

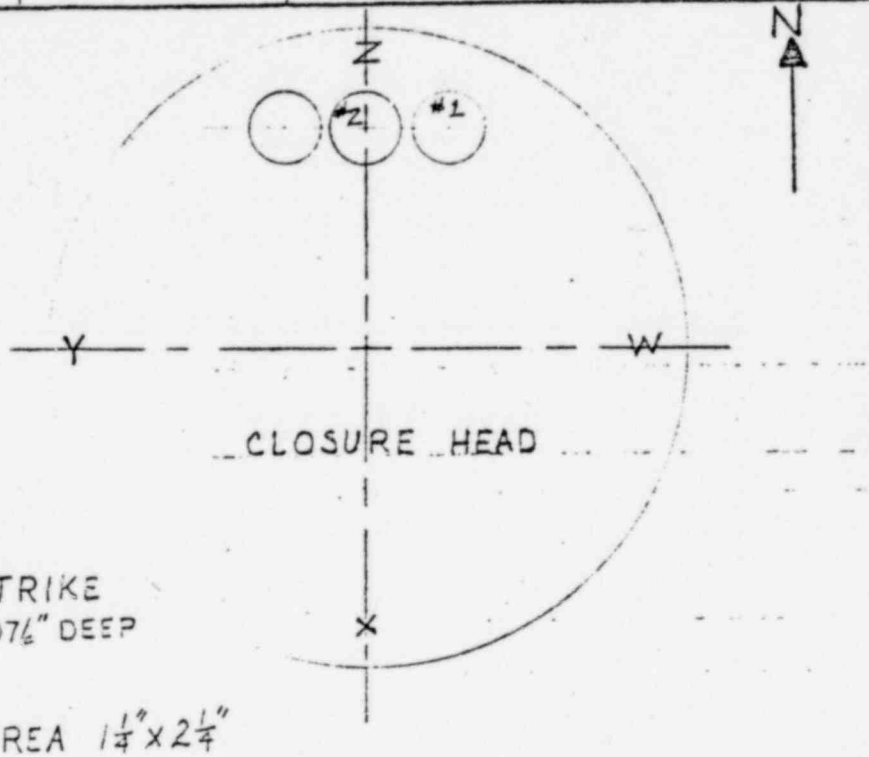
REPORT OF NONCONFORMITY

PG 2 OF 2

NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL 238	UNIT # 2	6-20-79	1615

#1





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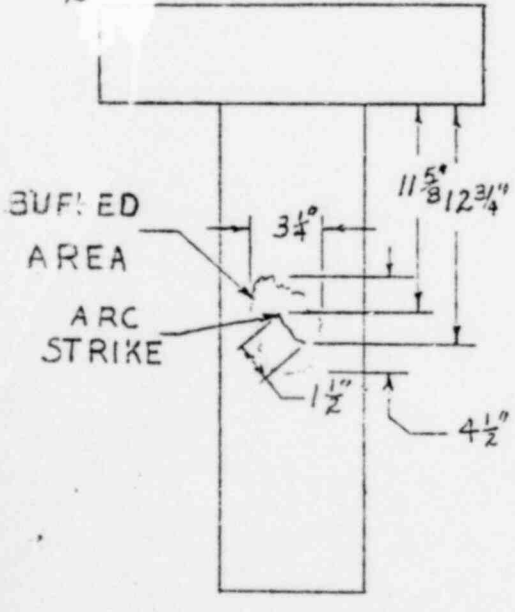
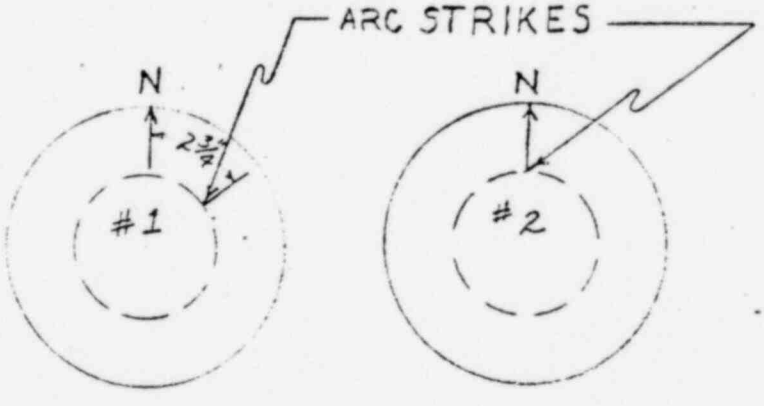




TOP VIEW

POOR ORIGINAL

1064 106

NOT TO SCALE

Bill Linn

SE PROBLEM REPORT — BABCOCK & WILCOX

CUSTOMER: Consumers Power Co.	ORIGINATOR: HAGuerling	DATE: 6-29-79	DOC. ID.: 13-	CONT. NO.: 0013	SPR NO.: 44	REV. NO.: 0
VENDOR: B&W, Barberton, Ohio	P.A. NO.: 620-0013-52		PART NO./TASK NO.: 43	GROUP NO.: 01	SEQ. NO.: 001
TITLE (MAX 30 CHARACTERS): CBD Housing Arc Strikes			PROBLEM CONTACT: H. A. Guerling		

PROBLEM IDENTIFICATION

DESCRIPTION OF PROBLEM:
Arc Strike On (2) CBD Housings per Quality Control Sketch.

NOTE: Discrepancies have not been ground

B&W Construction Co. NCR #1615

STATUS-ACTION TO DATE, INCLUDING PERSONS CONTACTED:

C. E. Groves - Mt. Vernon
D. Rice - Lynchburg

POOR ORIGINAL

FURTHER ACTION RECOMMENDED BY SITE PERSONNEL:

Grind Arc Strike Areas to 3 to 1 taper.
P.T. examine to 9-PT-103
Vendor to approve disposition

See Sheet 2 of NCR for Location

RESOLUTION

RESOLUTION:
ACTION RECOMMENDED BY SITE IS ACCEPTABLE
METAL REMOVAL IS TO BE MINIMIZED.
REPORT FINAL RESULTS FOR EVALUATION. THIS
SHOULD INCLUDE THE RADIUS OF THE GROUND
AREA ALONG WITH THE AREA DIMENSIONS.

PREPARED BY	DATE	APPROVED BY	DATE
[signature]	7-5-79	[signature]	7/9/79
REVIEWED BY: [signature]	DATE: 7/9/79		
[signature] Fullerton Engineers	7/9/79		

COST CATEGORY	FIELD CHANGE REQ	F.C.A. NO.	SIGNIF. DEFICIENCY
☐ BOP ☐ OTHER	☐ YES ☐ NO	79-	☐ YES ☐ NO

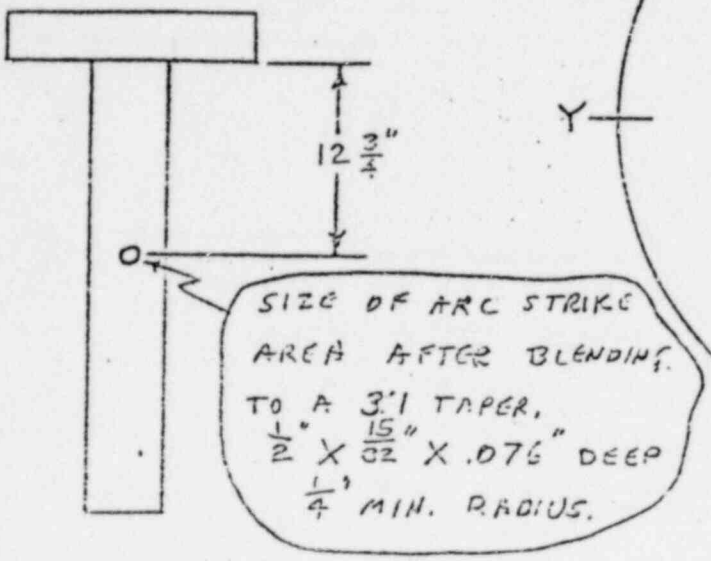
COMPLETION

SITE COMPLETION REPORT:

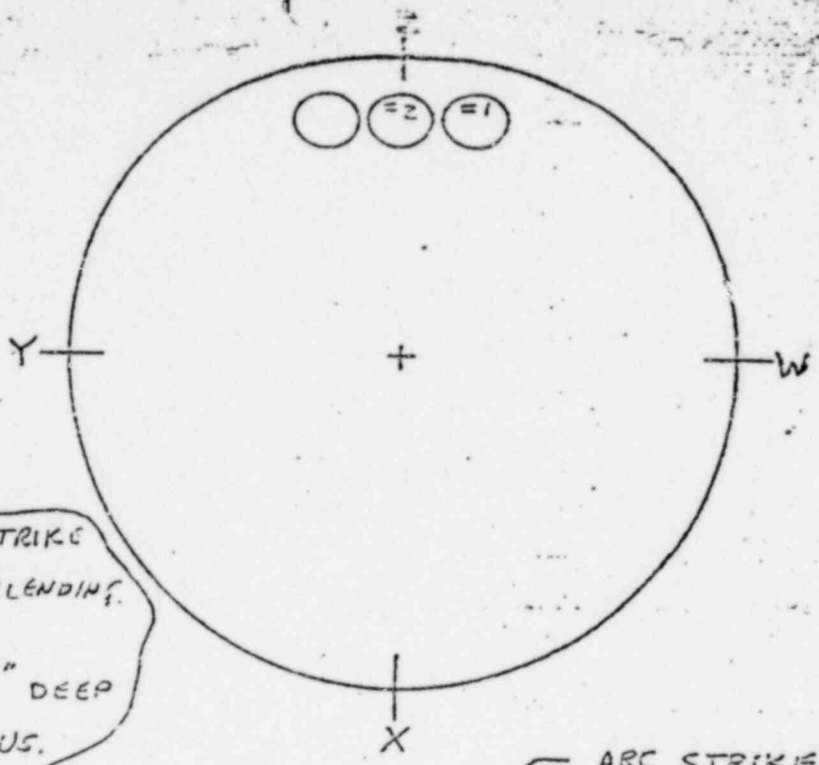
DEVIATIONS: ☐ NONE — SPR REV NO. ☐

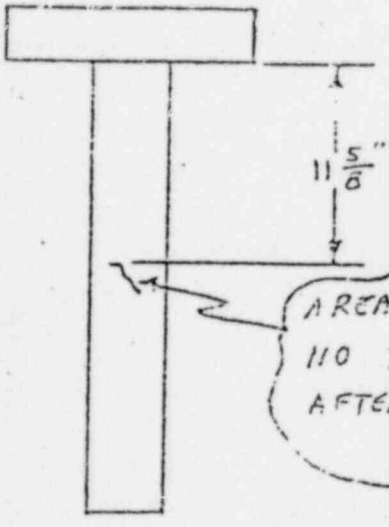
DATE COMPLETED:

COMPLETED BY — DATE

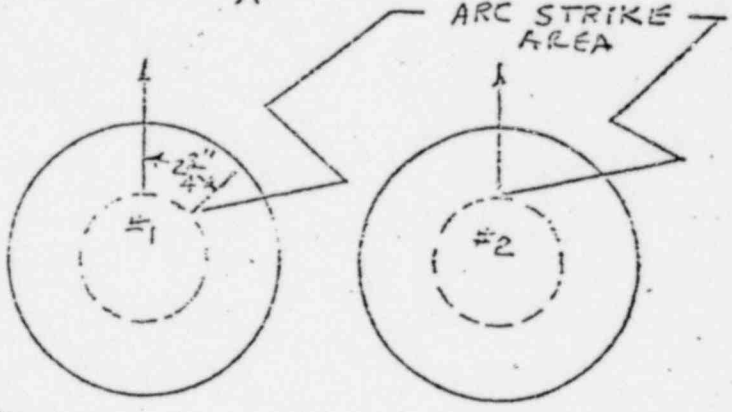


SIZE OF ARC STRIKE AREA AFTER BLENDING TO A 3:1 TAPER.
1/2" X 15/32" X .076" DEEP
1/4" MIN. RADIUS.





ARC STRIKE AREA WAS BUFFED. NO DEPTH TO REPORT AFTER BUFFING.



TOOLS USED
CV 7-2
CV 3-15

LCR # 1615
7-24-79
D. C. Baker

POOR ORIGINAL

SPR 44
620-0013

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 ~~230~~ 238 Rev C-27-79	#2	~~7-3-79~~ Rev C-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 — H. 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

H. 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

H. H. Linn, FIELD PROJECT ENGINEER — 7-27-79 DATE

22. APPROVALS

B&W FQC RW Shope 7-27-79 SIGNATURE DATE — OTHER ____ SIGNATURE DATE

OWNER/AGENT R.E. Stuteker SIGNATURE DATE — OTHER ____ SIGNATURE DATE

23. ANI REVIEW

C. Amos SIGNATURE — 7-31-79 DATE

24. DISPOSITION COMPLETED	25. DISPOSITION VERIFICATION	
J Steinbrecht NAME 8-16-79 DATE	R.C. Schmidt Jr. NAME 8-16-79 DATE	☒ ACCEPTABLE ☐ UNACCEPTABLE REPORT OF NONCONFORMITY #

25. CORRECTIVE ACTION

POOR ORIGINAL

FIELD PROJECT MANAGER — DATE

27. NONCONFORMITY CLOSED

RW Shope FIELD QUALITY CONTROL SUPV. — 8-16-79 DATE — 1064 109

SEQUENTIAL NUMBER No 1624

SOLEM REPORT

BABCOCK & WILCOX

CUSTOMER	ORIGINATOR	DATE	DOCID. COAT.NO.	SPR NO.	REV.NO.
Consumers Power Company	H.A.Guetling	7-6-79	13 - 620-0012	X 79	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)
Material Certs for Tab Washers

PROBLEM CONTACT
H. A. Guetling

PROBLEM IDENTIFICATION

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. N. Hillaman for G. H. Olds	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:

DEVIATIONS:
☐ NONE SPR REV NO. ☐

DATE COMPLETED:

COMPLETED BY DATE

SHEET OF

POOR ORIGINAL

DATE 19 Oct 19 79

CUSTOMER: Gilbert-Wilcox

CUSTOMER'S ORDER NO.: 518

BY ROY JACKSON JEFFERSON, NO.: 793-5-3480

THIS IS TO CERTIFY THAT ALL PARTS ON THIS ORDER WERE MANUFACTURED AND TESTED TO THE SPECIFICATIONS AND DRAWINGS SPECIFIED BY YOUR PURCHASE ORDER.

ITEM	REF'S NO.	QTY.	DESCRIPTION	DWG. NO.
1	518	70	Tel Diode	650633

Carol Nebran
Quality Coordinator

VERY POOR ORIGINAL

...QUA 1250
...BURG, VIRGINIA 24505

BORG-WARNER CORPORATION
P.O. BOX 2017, TERMINAL ANNEX
LOS ANGELES, CALIF. 90051

HOUSTON - LTL

CUSTOMER
840

CUSTOMER ORDER NO.
020430/83120

COMMENT:

S.A.P.S. NO.:

TYPE OF DATA:
- ☐ DRAWINGS
- ☐ STRESS ANALYSIS
- ☐ MANUALS
- ☐ MATERIAL SPEC.
- ☐ TEST REPORT
- ☐ DESIGN REPORTS
- ☐ TEST DATA
- ☐ TEST CURVES
- ☐ OTHER

DOCUMENTATION TYPE:
P — PRINTS
R — SEPIA REPRO
V — VELLUM REPRO
M — MYLAR
O — OTHER

SEQUENCE CODE:
A — For Approval
C — For Construction
I — For Information
R — Information

APPROVAL STATUS CODE:
A — Appr. Doc. Acceptable
B — Approved as Noted
D — Disapproved
Y — Approved
G — Ordered
T — Certified

ITEM NO.	QUANTITY	IDENTITY NO.	REV.	SEQ.	DESCRIPTION TITLE
1	1	19A0-3630	—	I	CERTIFICATION

REMARKS:

DISTRIBUTION:
FILE
FILE

REPLY REQUESTED BY:

ORIGINATOR:

DATE: 18 July 79

VERY POOR
ORIGINAL

NCR 2321 Page 5 of 5

JUL 20 '79 AM

1064 112

BWC 3181-1

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

REPORT OF NONCONFORMITY

Rev. #1

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	15. VERIFIED BY	16. CORRECTIVE ACTION REQUIRED
J. R. Jones (R Shope for J. Jones) NAME 7-6-79 DATE	R. W. Shope NAME 7-6-79 DATE	☒ YES ☐ NO 7-12-79

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

N/R

H. N. Linn, FIELD PROJECT ENGINEER — 7-9-79 DATE

20. ACTUAL DISPOSITION: ☐ REWORK ☒ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS

21. DISPOSITION INSTRUCTIONS

See page 2 of 2

H. N. Linn, FIELD PROJECT ENGINEER — 7-9-79 DATE

22. APPROVALS				23. ANI REVIEW	
B&W FQC	R W Shope 7-9-79 SIGNATURE DATE	OTHER	SIGNATURE DATE	C. [illegible] SIGNATURE	7-12-79 DATE
OWNER/AGENT	R E Whitaker 7/17/79 SIGNATURE DATE	OTHER	SIGNATURE DATE		

24. DISPOSITION COMPLETED	25. DISPOSITION VERIFICATION	
J. L. Tigert NAME 8-9-79 DATE	A. C. Abbott NAME 8-9-79 DATE	☒ ACCEPTABLE ☐ UNACCEPTABLE REPORT OF NONCONFORMITY #

25. CORRECTIVE ACTION

Advised superintendents in charge of rigging and fit-up activities that greater care must be exercised to protect material.

POOR ORIGINAL

T. P. Tilley, FIELD PROJECT MANAGER — 7-12-79 DATE

27. NONCONFORMITY CLOSED

R W Shope, FIELD QUALITY CONTROL SUPV. — 8-9-79 DATE — 1064 113

SEQUENTIAL NUMBER № 1625

REPORT OF NONCONFORMITY

JOB NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL 238	1	7-9-79	1625

Decay Heat 1-CCA-18-610-1-2 (FCP-13)

Disposition Instructions (Item 21 from page 1)

A. Remove upset metal by grinding. 8-4-79 J.L.

B. Inspect ground area per 9-PT-103. - PT Report # 3099 8-4-79 J. L. Jones

C. If necessary weld build-up ground area per WIN-219-1. 8-9-79 J.L.

D. Blend grind repaired area to match adjacent surface. 8-9-79 J.L.

E. Inspect weld prep for proper contour. Accept 8-9-79 A.L. Ashcraft

POOR
ORIGINAL

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 FW-9 DATE 8-4-79

SYSTEM NUMBER DECAY HEAT L.P. PROCEDURE NUMBER 9-PT-103

WELD REPAIR NUMBER N/A SEQ. NUMBER N/A F.C.P. NUMBER NCR 1625

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. 78K037 DRY TIME 5 MIN	☒ SPRAY ☐ BRUSH BATCH NO. 6H019 DWELL TIME 15 MIN	☒ CLOTH WIPE ☐ TOWEL WIPE ☒ SOLVENT WIPE BATCH NO. 78K037 DRY TIME 5 MIN	☐ DUST ☒ SPRAY BATCH NO. 78G006 DEV. TIME 10 MIN	☐ FLUSH ☒ SOLVENT WIPE BATCH NO. 78K037

☒ ACCEPT ☐ REJECT TEMPERATURE 75° GAGE NUMBER C412-255

COMMENTS:

1064 115

LIGHTING ACCEPTABLE

INSPECTOR James R. Jones

CERTIFIED LEVEL II

SEQUENTIAL NUMBER № 3099

N/A = NOT APPLICABLE

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

PAGE 1 OF 1 3 WGL 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 (NAME) 7-13-79 (DATE)	R. D. Murphy (NAME) 7-13-79 (DATE)	☐ YES ☒ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO — W. H. Linn (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. H. Linn (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. H. Linn (FIELD PROJECT ENGINEER) — 7-27-79 (DATE)

22. APPROVALS

	SIGNATURE	DATE		SIGNATURE	DATE
B&W FQC	A Wilson	7-30-79	OTHER		
OWNER/AGENT	K E Sutton	8/1/79	OTHER		

23. ANI REVIEW — [illegible] C Anderson (SIGNATURE) — 8/3/79 (DATE)

24. DISPOSITION COMPLETED		25. DISPOSITION VERIFICATION		☒ ACCEPTABLE ☐ UNACCEPTABLE
R Shupe (NAME)	8-3-79 (DATE)	R Shupe (NAME)	8-3-79 (DATE)	REPORT OF NONCONFORMITY #

25. CORRECTIVE ACTION

POOR ORIGINAL

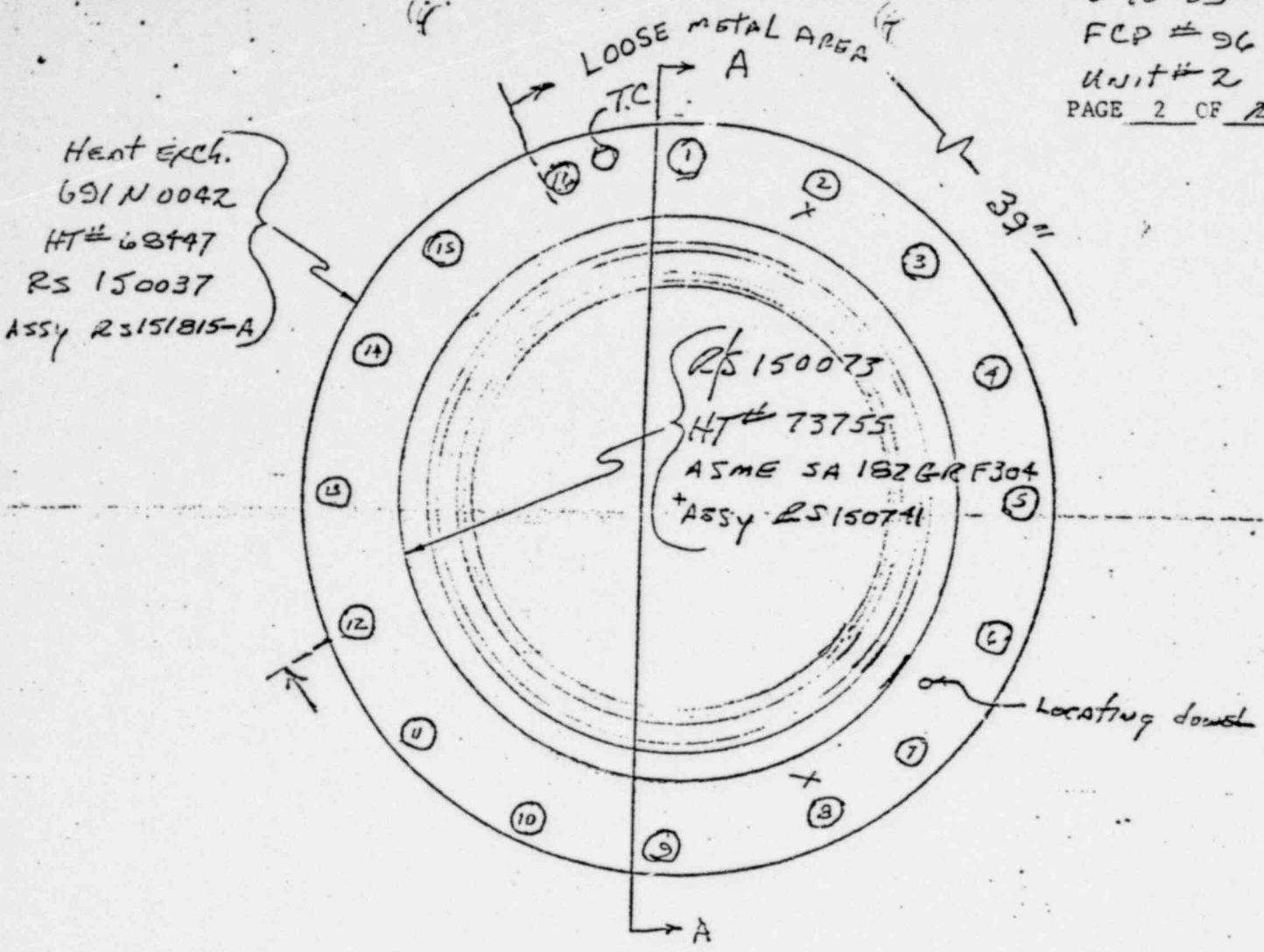
FIELD PROJECT MANAGER — DATE

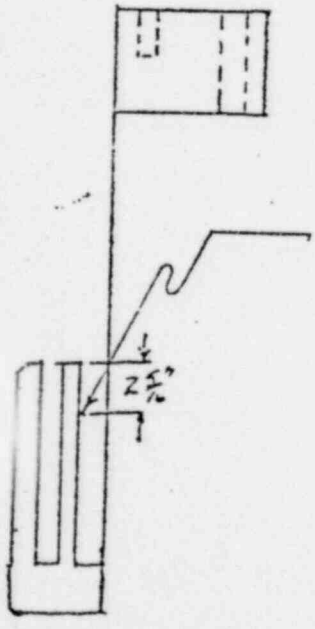
27. NONCONFORMITY CLOSED

R Shupe (FIELD QUALITY CONTROL SUPV.) — 8-3-79 (DATE) — 1064 116

SEQUENTIAL NUMBER № 1628

2-13-79
FCP # 96
Unit # 2
PAGE 2 OF 3 ULL 7-27-





"SEC. A-A"

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

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

REPORT OF NONCONFORMITY

JOB NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL 238	#2	7-27-79	#1628

ATTACHMENT A

NCR-1628 & SPR-85

1. Package and return heat exchanger (2-P51-C) #691-N0042 8-3-79
2. Substitute heat exchange (1-P1-C) #691-N0047 8-3-79
3. Heat Exhanger (2-P1C) #691-N0042 shall be receipt inspected when returned in accordance with 9-QPP-108 on FCP-69, Unit #1 620-0013.

Receipt will be documented in FCP-69
R Hope 8-3-79

POOR ORIGINAL

SITE PROBLEM REPORT — BABCOCK & WILCOX

CUSTOMER	ORIGINATOR / DATE	OC. I.D. CONT. NO.	SPR NO.	REV. NO.
Consumers Power Co	H.A. Gustling 7/17/79	13-520-0012	25	0

VENDOR	P.A. NO.	PART NO. / TASK NO.	GROUP NO.	SEQ. NO.
Byron Jackson	420-0012-42	42	01	001

TITLE (MAX 30 CHARACTERS): RC Coolant Pump

PROBLEM CONTACT: H.A. Gustling

PROBLEM IDENTIFICATION

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 QC NCR # 1628

STATUS-ACTION TO DATE, INCLUDING PERSONS CONTACTED:

Rudy Camper - Lynchburg

FURTHER ACTION RECOMMENDED BY SITE PERSONNEL:

POOR ORIGINAL

RESOLUTION

RESOLUTION:

1. Because of surface indications on the "OD" of the stationary Parts middle cylinder, Byron Jackson recommends that the stationary part be returned to L.A. For reworking.
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
[signature]	7-20-79	K L Reed	7/20/79
REVIEWED BY: Rudy B. Camper	7-20-79		
W.R. Williamson for GM OCDS	7/20/79		

COST CATEGORY	FIELD CHANGE REQ	F.C.A. NO.	SIGNIF. DEFICIENCY
☐ NORM ☒ OTHER	☐ YES ☒	0-	☐ YES ☒ NO

COMPLETION

SITE COMPLETION REPORT:

DEVIATIONS: ☐ NONE SPR REV NO. ☐

DATE COMPLETED:

COMPLETED BY DATE

1061 112

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 (NAME) 7-24-79 (DATE)	R W Shope (NAME) 7-24-79 (DATE)	☐ YES ☒ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO — W. A. Linn (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

ACCEPT AS IS
VENDOR TO APPROVE DISPOSITION

W. A. Linn (FIELD PROJECT ENGINEER) — 8-13-79 (DATE)

20. ACTUAL DISPOSITION: ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☒ ACCEPT AS IS

21. DISPOSITION INSTRUCTIONS

Accept as is.
See SPR-54.

W. A. Linn (FIELD PROJECT ENGINEER) — 8-21-79 (DATE)

22. APPROVALS
B&W FQC W A Williams (SIGNATURE) 8.24.79 (DATE) OTHER ____ (SIGNATURE) ____ (DATE)
OWNER/AGENT R E White (SIGNATURE) 8/24/79 (DATE) OTHER ____ (SIGNATURE) ____ (DATE)

23. ANI REVIEW
Richard C Conlon (SIGNATURE) 8/29/79 (DATE)

24. DISPOSITION COMPLETED
R C Robertson (NAME) 8-29-79 (DATE)

25. DISPOSITION VERIFICATION
R W Shope (NAME) 8-29-79 (DATE)
☒ ACCEPTABLE ☐ UNACCEPTABLE REPORT OF NONCONFORMITY #

25. CORRECTIVE ACTION

POOR ORIGINAL

____ (FIELD PROJECT MANAGER) ____ (DATE)

27. NONCONFORMITY CLOSED
R W Shope (FIELD QUALITY CONTROL SUPV.) 8-29-79 (DATE) 1064 120

SEQUENTIAL NUMBER № 1636

SITE PROBLEM REPORT

BABCOCK & WILCOX

CUSTOMER	ORIGINATOR	DATE	DCN ID.	CONT. NO.	SPR NO.	REV. NO.
Consumers Power Company	H.A. Guetling	7-25-79	13 -	620-0013	54	0

VENDOR	P.O. NO.	PART NO./TASK NO.	GROUP NO.	SEQ. NO.
B&W Lynchburg	620-0013-55	55	01	001

TITLE (MAX 30 CHARACTERS)	PROBLEM CONTACT
Steam Generator	H. A. Guetling

PROBLEM IDENTIFICATION

DESCRIPTION OF PROBLEM:

Required contact between the base and soleplate is 95%. Actual contact is 82.048%.

B&WCC NCR #1636

STATUS-ACTION TO DATE, INCLUDING PERSONS CONTACTED:

John Frost - Lynchburg

FURTHER ACTION RECOMMENDED BY SITE PERSONNEL:

POOR ORIGINAL

RESOLUTION

RESOLUTION: Soleplate contact is acceptable as is.
See also Al McKim to C.J. Hudson, dated 8-9-79

PREPARED BY	DATE	APPROVED BY	DATE
[signature]	8/15/79	[signature]	8-17-79
REVIEWED BY	DATE		
[signature] for GH Dellinger	8/15/79		

COST CATEGORY	FIELD CHANGE REQ	F.C.A. NO.	SIGNIF. DEFICIENCY
☐ NORM N.A ☐ OTHER	☐ YES ☒ NO	04- NA	☐ YES ☒ NO

COMPLETION

SITE COMPLETION REPORT:

DEVIATIONS: ☐ NONE SPR REV NO. ☐

DATE COMPLETED:

COMPLETED BY DATE

1061 121

SHEET OF

BABCOCK & WILCOX COMPANY
NUCLEAR GENERATION GROUP

To: SKIP HUDSON, RCSC

From: AL McKIM, SMU

BDS 663-5

Cust.: CONSUMERS POWER

File No. or Ref. 620-0013-55

Subj.: JUSTIFICATION FOR SPR 54

Date: 8-9-79

This letter to cover one customer and one subject only.

Subject SPR reported 82.048% contact between the OTSG support skirt base and soleplate which is in violation of the 95% required. A check was made of the bearing stress in the Stress Report and a correlation of the these stresses versus loads was made to determine approximate stresses for the loads contained in Specification 18-1235000012-08. This check resulted in bearing stresses on the support skirt less than the allowable stress considering 82.048% contact; therefore, the present contact % described in SPR 54 is adequate to withstand all describe loads.

Al McKim

Al McKim

POOR ORIGINAL

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-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#
	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 Hupe (NAME) 7-26-79 (DATE)	☐ YES ☒ NO

17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e)

☐ YES ☒ NO — H. 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

H. K. Linn (FIELD PROJECT ENGINEER) — 7-26-79 (DATE)

20. ACTUAL DISPOSITION: ☒ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS

21. DISPOSITION INSTRUCTIONS

Hand dress scribe marks with stone.
QC inspect removal is complete.
Accept other indications as is.

H. K. Linn (FIELD PROJECT ENGINEER) — 8-1-79 (DATE)

22. APPROVALS

B&W FQC R W Hupe 8-1-79 (SIGNATURE / DATE) OTHER _____ (SIGNATURE / DATE)

OWNER/AGENT R W Hupe 8/3/79 (SIGNATURE / DATE) OTHER _____ (SIGNATURE / DATE)

23. ANI REVIEW — (SIGNATURE) 8/6/79

24. DISPOSITION COMPLETED — H Landes (NAME) 8-9-79 (DATE)

25. DISPOSITION VERIFICATION — A.C. Rhoads (NAME) 8-9-79 (DATE) ☒ ACCEPTABLE ☐ UNACCEPTABLE REPORT OF NONCONFORMITY #

25. CORRECTIVE ACTION

POOR ORIGINAL

FIELD PROJECT MANAGER — DATE

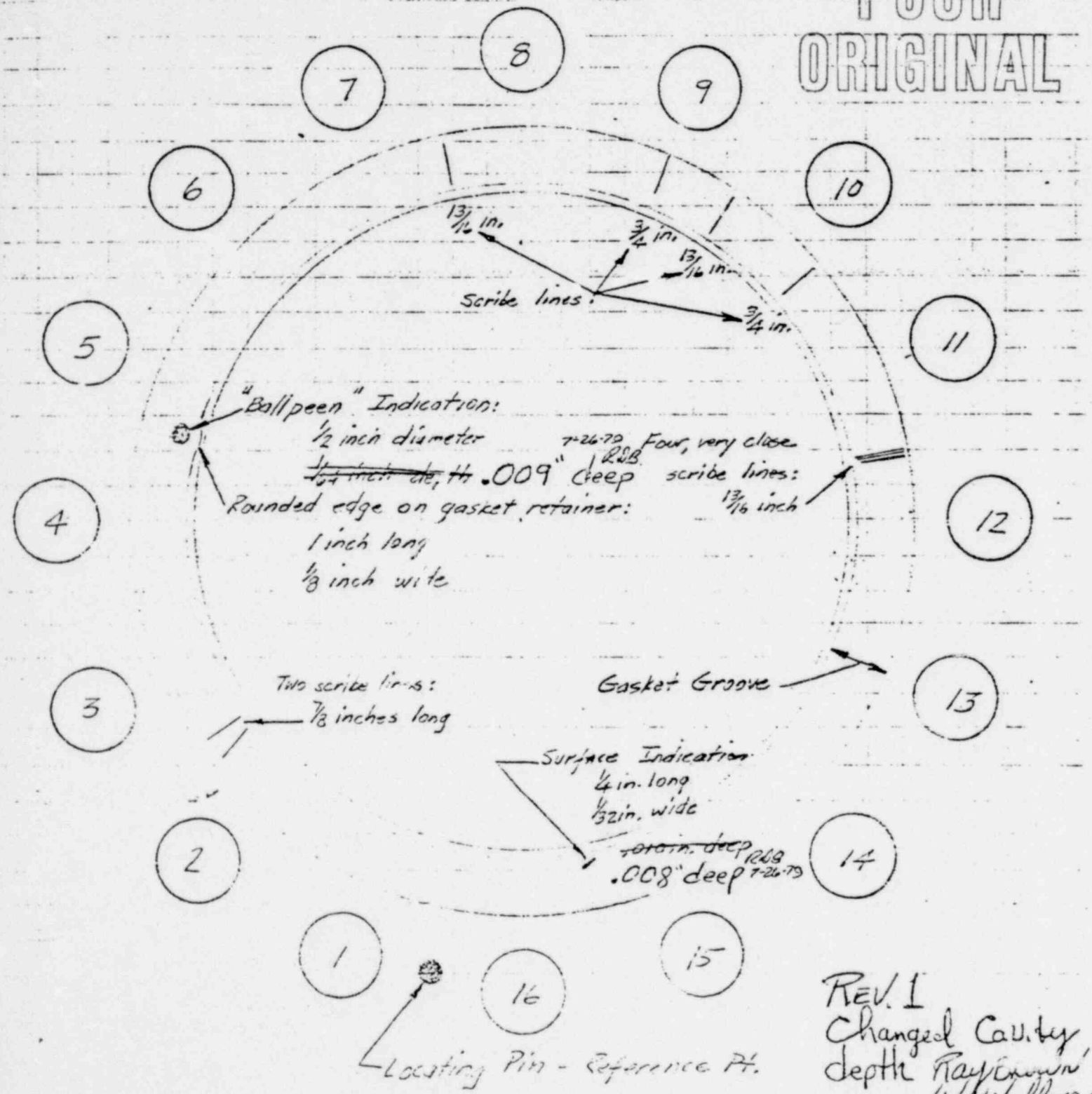
27. NONCONFORMITY CLOSED — R W Hupe (FIELD QUALITY CONTROL SUPV.) — 8-9-79 (DATE) 1064 123

SEQUENTIAL NUMBER № 1640

TOP FACE OF DRIVER MOUNT BOTTOM FLANGE

RCP 2.951 D

POOR ORIGINAL



REV. 1
Changed Cavity depth Ray Erwin
W A Ullman 7/25/79

NOTE: All scribe lines have depth apparent to the touch except for the line located at stud hole #10. All above indications are located within the seating surface area of the driver mount gasket groove.

PDS-21091-5(3-76)

SITE PROBLEM REPOR ›

BABCOCK & WILCOX

CUSTOMER	ORIGINATOR DATE	DOC. ID. CONT. NO.	SPR NO.	REV. NO.
Consumers Power Company	H.A.Guetling 7-17-79	13 - 620-0012	88	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		
Pump Mount		H. A. Guetling		

PROBLEM IDENTIFICATION

DESCRIPTION OF PROBLEM:

1/2" Dia. identation and scribe marks in gasket groove seating surface on top face of driver mount botton flange. See attached sketch.

B&WCC NCR #1629

STATUS-ACTION TO DATE, INCLUDING PERSONS CONTACTED:

John Frost - Lynchburg
Rhudy Camper - Lynchburg

FURTHER ACTION RECOMMENDED BY SITE PERSONNEL:

POOR ORIGINAL

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:

DEVIATIONS: ☐ NONE SPR REV NO. ☐

DATE COMPLETED:

COMPLETED BY DATE

1041 125

SHEET OF

Start Up System: BBC

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	2P51-A	Reactor Coolant Pump Casing Studs and Holes	M-03-3-79-080
9. SERIAL NUMBER:	10. ORG. CONSTRUCTION NO:	11. AREA/LOC. OF NC:	2. DATE: 8-1-79
2P51-A	B&W Const	North Steam Generator Unit 2	3. DATE OF REV: Closed 8-21-79
			4. FILE NO: 16.4.4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH DATA:

Reactor Coolant Pump Casing Stud installation instructions are inadequate. (1) Bottoming of Studs (2) Thread tolerance (3) Class of fit (4) Acceptable measured movement at top of stud when fully inserted are not called out in the B&W FCP, Byron Jackson Pump Instruction Manual #8020 or Drawing 1F7623.
Additionally, the studs are being driven in by using a strap wrench which is contrary to B&W FCP which states that studs are to be installed "hand" tight. An acceptable tolerance criteria has not been established for QC Inspection pruposes. Some studs also "wiggle" in place.
The above place the studs in an indeterminate condition.

13. CA RECOMMENDATION FOR PART CA:

1. Update Byron Jackson Instruction Manual #8020 and B&W FCP to include instructions and tolerances requested in Block 12.

(Contd on Page 3)

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [X] NOT REQUIRED [ ]

5. DISTRIBUTION

ACTION COPY:
RWShope

INFO COPY:

VNAsgaonkar	DBMiller
WRBird	JFNewgen
TCCooke	DATaggart
JLCorley	CDThompson
AWDePatie	
RHermeston	
SHHowell	
GSKeeley	
JWLillywhite	
BWMarguglio	
PAMartinez	

14. HOLD TAGS APPLIED: YES [X] NO [ ] NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: One (1) #080 RC Pump 2P51-A QC Hold Tag

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: Harold L. Allen

23. WRITTEN REPLY REQUIRED BY: 8-17-79
TO ESTABLISH CA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: H L Allen 8/21/79

25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

B&W letter Serial #M-1A-(Q)-134 and SPR-95 addresses the action taken by B&W relative to corrective action for updating the Byron Jackson Instruction Manual 8020 and the revisions of B&W FCP's #70, 83, 120, 121 and 122. Attachment 'A' provides the required technical information for performing inspection of the studs and pump casing threads.

26. DESIGN/PROJECT SIG. AUTH. DISP.:	27. PRO SIG. AUTH. DISP.:	28. PROCUREMENT SIG. AUTH. DISP.:	29. SIG. OF ORG. REP. FOR CA:
NA	NA	NA	B&W Letter M-1A-(Q)-134
30. FAB/CONST. SIG. AUTH. DISP.:	31. SIG. OF TEST GROUP ACCEPT. CONDITION:	32. FOR MATER NCR - FLD. SUPT. SIG. AUTH. DISP.:	33. QA AUTH. SIG. TO CLOSE NCR DISP.:
B&W Letter M-1A-(Q)-134	NA	NA	H.L. Allen

34. METHOD OF PART CA VERIFICATION:

Review of letter M-1A-(Q)-134, SPR-95 and Attachment 'A'.

35. SIG. OF ORG. REP. FOR PART CA SATISFACTORY COMPLETION:	36. SIG. VERIFYING PART CA & HOLD TAG REMOVAL DATE:	37. NCR CLOSED BY: DATE: (PART CA PROCESS IS COMPLETE)
B&W Letter M-1A-(Q)-134	H.L. Allen 8/16/79	H.L. Allen 8/30/79

Document Control (1141 - 2 - 02000 - 11300 - 2P51-A - ~~70*01*11*05~~ 73*10*03)

Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT

M-03-3-9-080
PCR SERIAL NUMBER:

38. QA ASSESSMENT OF ROOT CAUSE(S):

Insufficient detailed instructions relative to RCP casing stud installation in Byron Jackson Manual #8020 and B&W FCP's #70 and 83.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

Same as above.

40. PROCESS CA INITIATED FROM:

DESIGN ☐ FABRICATION ☐ CONSTRUCTION ☐ PROCUREMENT ☐ INSPECTION ☒

OTHER Byron Jackson Manual #8020

41. QA RECOMMENDATION FOR PROCESS CA:

1. Initiate changes to Byron Jackson Instruction Manual #8020 to include tolerances and specific stud installation instructions relative to the stud predetermined location.
2. Initiate change to B&W FCP that will permit the use of a strap wrench as an assistance for driving the stud to final predetermined location in the pump casing.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

B&W Construction and Quality Control have acknowledged process corrective action to be taken in letter M-1A-(Q)-134 and SPR-95.

43. METHOD OF PROCESS CA VERIFICATION:

B&W letter M-1A-(Q)-134 and SPR-95.

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SATISFACTORY COMPLETION:

H. S. Allen

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

H. S. Allen 8/20/79

1064 127

CONSTRUCTION
ARTMENT
3-9-080
3

NCR SERIAL NO: M-03-3-9-080
DATE: 8-1-79
DATE OF REV: Closed 8-21-79
FILE NO: 16.4.4

13. QA RECOMMENDATION FOR PART CA:

(Contd from Page 1)

2. Update B&W FCP 70, Step 46C and 83, Step 015 to include using a strap wrench for assistance in driving the studs to a predetermined depth.

3. Implement requirements for subject pump casing.

1064 128

1420.70

Babcock&Wilcox

B&W Construction Company

Copley, Ohio 44321
Telephone: (216) 666-8841

August 10, 1979

BECHTEL POWER CORP
JOB 7220
RECEIVED
AUG 13 1979
ANSWER BY 8/17

Bechtel Power Corporation
P. O. Box 2167
Midland, Michigan 48640

SUBJECT: Subcontract 7220-M-1A
NSSS Erection
Response to Nonconformance
Report #M-03-4-9-80

Attention: J. F. Newgen

Serial: M-1A-(Q)-134

Dear Mr. Newgen:

Following is our response to Consumers Power Company's Nonconformance Report #M-03-4-9-080 dated 8-1-79. Please forward to Consumers Power Quality Assurance.

As noted in SPR-95 attached, B&W NPGD will take action to update the Byron-Jackson Instruction Manual #8020 as recommended in subject NCR.

We are revising B&WCC Field Construction Procedure #70 to delete any stud installation details. These details will be included in revisions to FCP's 83, 120, 121, and 122 for each of the Unit #2 pump casings. This FCP revision will reference SPR-95 for installation, instruction, inspection acceptance, and use of strap wrench until receipt of Byron-Jackson manual change.

The FCP revisions shall be transmitted as soon as possible under a separate transmittal. Your immediate review and approval is requested, as this item effects our schedule for pump internal installation.

If you have any further questions, please contact me.

Very truly yours,

R W Shope

R. W. Shope,
B&WQC Supervisor

RWS/mkb

cc: A. W. DePatie, w/o
M. K. Sarkar, w/o
C. D. Thompson, w/o
V. N. Asgaonkar, w/o
File, w/o

1064 129

PDS-21091-5(8-76)

SITE PROBLEM REPORT

BABCOCK & WILCOX

PROBLEM IDENTIFICATION

CUSTOMER	ORIGINATOR	DATE	DOC. ID. CONT. NO.	SPR NO.	REV. NO.
Consumers Power Co.	H.A. Guetling	8-3-79	13 - 620-0012	95	0

VENDOR	P.A. NO.	PART NO./TASK NO.	GROUP NO.	SEQ. NO.
Byron - Jackson	620-0012 - A2	42	01	001

TITLE (MAX 30 CHARACTERS): RCP Casing Stud & Holes

PROBLEM CONTACT: H.A. Guetling

DESCRIPTION OF PROBLEM:

See NCR (Attached)

CPCo NCR M-03-9-080

STATUS-ACTION TO DATE, INCLUDING PERSONS CONTACTED:

J.T. Frost - Lynchburg.

FURTHER ACTION RECOMMENDED BY SITE PERSONNEL:

Update B&W FCP-70

Implement Requirements In NCR

RESOLUTION

RESOLUTION:

Per Attachment 'A'

PREPARED BY	DATE	APPROVED BY	DATE
John T. Frost	8-8-79	G.L. Washburn	8-10-79
REVIEWED BY	DATE		
J.M. Becker J.E.	8-8-79		
W.M. Williamson for GM OLDS	8/9/79		

COST CATEGORY	FIELD CHANGE REQ	F.C.A. NO.	SIGNIF. DEFICIENCY
☐ NORM NA ☐ OTHER	☐ YES ☒ NO	04- NA	☐ YES ☒ NO

COMPLETION

SITE COMPLETION REPORT:

DEVIATIONS: ☐ NONE SPR REV NO. ☐

DATE COMPLETED:

COMPLETED BY DATE

1064 130

SHEET OF

ATTACHMENT 'A'

NSS-12
SPR-95

1. B&W NPGD Engineering will take action to have Byron-Jackson revise Instruction Manual #8020 and/or Dwg. 1F7623 (B&W Doc. #01-0330) to include tolerances and specific stud installation instructions.

   For clarification of the CPCO concerns, the following is submitted in the interim:

   (1) Bottoming of Studs — The RCP casing studs may be considered "bottomed" in their respective holes when the top of lower threaded portion of the stud is flush with or slightly below the casing flange.

   (2) Thread Tolerance & (3) Class of Fit — The thread tolerance for Class 2 threads 4-3/4" x 8 are as follows:

   Internal Threads — Max. Pitch Dia. 4.6827
   Min. Pitch Dia. 4.6688

   External Threads — Max. Pitch Dia. 4.6688
   Min. Pitch Dia. 4.6549

   Therefore, there can be anywhere from 0.0" to .027" clearance between pitch diameters of the stud to stud hole.

   (4) Acceptable Measured Movement at top of stud. — The actual amount of movement of the stud within the stud hole is inconsequential. Within the range of pitch diameters discussed above and the tolerance on stud length, movement at the top of stud could be as much as 1/8", or as little as 0.0".

2. With regard to the installation of studs. Due to the weight of the studs, it is impractical to drive the studs in completely by hand. The use of a strap wrench or similar tool to aid in driving the stud is acceptable. The phase "hand tight" is meant to indicate that the stud should be bottomed in the stud hole without applying a significant amount of torque. B&W NPGD concurs with changing the applicable Field Construction Procedure to allow the use of a strap wrench or similar tool to aid in installing the studs.

John T. Grant
Startup Planning & Support

J. M. Becker J.E. 8-8-79
NPGD Engineering

8-10-79
Project Management

1061 131

X/

Start Up System: Indeterminate

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-01-3-9-081
Midland	NA	NA	2. DATE: 8-3-79
9. SERIAL NUMBER:	10. ORG. CONCERNING NC:	11. AREA/LOC. OF NC:	3. DATE OF REV: NA
NA	Bechtel Const/QC	Level "A" Warehouse	4. FILE NO: 16.3.6

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION AND REF:

Item 1) Paragraph 6.2.1 of FPG-4.000 Rev 3 states in part, "...humidity shall be controlled within specified limits..."

Paragraph 1.2 of F-1-268 Revisions 3 and 4 states in part, "Humidity shall not exceed 50% relative humidity".

(Contd on Page 3)

5. DISTRIBUTION

ACTION COPY:

LADreisbach

INFO COPY:

WLBarclay, WRBird, TCCooke, JLCorley, RHermeston, SHHowell, DRJohnson, GSKeeley, BWMarguglio, JMilandin, DBMiller, JFNewgen, RASimanek

13. QA RECOMMENDATION FOR PART QA:

Item 1) a) Review inventory in Level "A" Warehouse to determine those items requiring Level "A" storage.

(Contd on Page 3)

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [ ] NOT REQUIRED [X]

14. HOLD TAGS APPLIED: YES [ ] NO [X] NUMBER, LOCATION & TIME 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 ORIGINATED BY: Walter P. Dickson Jr.

23. WRITTEN REPLY REQUIRED BY: 8-17-79

TO ESTABLISH QA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: WRBird per telephone 8/3/79

25. PART QA DISPOSITION, JUSTIFICATIONS & COMPLETION DATE:

POOR ORIGINAL

26. DESIGN/PROJECT ENG. AUTH. DISP.: NA	27. PRO ENG. AUTH. DISP.: NA	28. PROCUREMENT ENG. AUTH. DISP.: NA	29. NAME OF ORG. RESP. FOR C/A:
30. FAB/CONST. ENG. AUTH. DISP.:	31. ENG. OF DEPT GROUP ACTION/CONDITION: NA	32. FOR MAJOR MOD - PLT. SUPT. ENG. AUTH. DISP.: NA	33. QA AUTH. ENG. TO DISPOSITION DISP.:

34. METHOD OF PART QA VERIFICATION:

35. ENG. OF ORG. RESP. FOR PART C/A IDENTIFYING COMPLETION:	36. ENG. VERIFYING PART C/A & HOLD TAG REMOVAL DATE:	37. NCR CLOSED BY, DATE: (PART & PROCESS QA COMPLETE)

1564 132

Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

NCR SERIAL NUMBER: M-01-3-9-081

38. QA ASSESSMENT OF ROOT CAUSE(S):

To be determined by 8-17-79.

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. CA RECOMMENDATION FOR PROCESS CA:

Item 1) On 7-21-78 CPCo NCR 01-3-8-065 was initiated to document relative humidity readings in excess of the 50% requirement as stated in F-1-268. Corrective action taken at that time included reducing the warehouse volume by approximately 25%. This action was found effective as stated in letter LAD-511 dated 10-30-78. Currently, the majority of relative humidity readings in the Level "A" Warehouse are greater than 45% with nonconforming peaks identified in this NCR.

A thorough investigation into the variables associated with the relative humidity readings is recommended to determine action required to provide positive assurance that this recurring problem does not continue.

(Contd on Page 4)

42. PROCESS CA TO BE TAKEN BY ORG(S) CITED IN BLOCK 41 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SATISFACTORY COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

NCR SERIAL NO: M-01-3-9-081
DATE: 8-3-79
DATE OF REV: NA
FILE NO: 16.3.6

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Contd from Page 1)

Item 1) Contrary to the above requirements, the following relative humidity readings taken from daily inspections in Level "A" Warehouse indicate the following:

Date	Relative Humidity	Date	Relative Humidity
4-26-79	56%	6-16-79	61%
5-24-79	52%	6-17-79	53%
5-27-79	52%	7-14-79	51%
6-13-79	54%	7-15-79	60%
6-15-79	54%	7-31-79	52%

Item 2) Paragraph 1.4 of F-1-268 Revisions 3 and 4 states in part, "...document noncompliance (by recording value) on chart (See Sheet 2)".

Paragraph 7.2.2 of FPG-4.000 Rev 3 states in part, "The MSS (in conjunction with the QCE for Q-listed items) implements and documents the requirements of the F-1 Form".

Contrary to the above, the following F-2 forms prepared by the MSS and signed off by the QCE to document the inspections required by F-1-268 indicate compliance with the humidity requirements in the Level "A" Warehouse whereas values greater than 50% RH were noted:

F-2 Number	Date	Relative Humidity Readings
10776	4-26-79	56%
10910	5-24, 27-79	52%, 52%
10995	6-13, 15-17, 79	54%, 54%, 61%, 53%

13. QA RECOMMENDATION FOR PART CA:

(Contd from Page 1)

Item 1) b) Perform and document inspection of items in a) above to assure that quality has not been degraded due to the relative humidity readings greater than 50%.

Item 2) Annotate the F-2 forms with the noncompliant relative humidity readings and provide a reference to this NCR number.

NCR SERIAL NO: M-01-3-9-081
DATE: 8-3-79
DATE OF REV: NA
FILE NO: 16.3.6

41. QA RECOMMENDATION FOR PROCESS CA:

(Contd from Page 2)

Item 2) A training session for QCE's and maintenance personnel is recommended to discuss the following topics:

1) The requirements of the F-1 forms
2) Preparation of the F-2 forms
3) Discussion of human aspects related to routine tasks

Start Up System: 2BCA

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. QER SERIAL NO:
Midland	Connecting Discharge Line 2FCB-35-S611-6-1	Decay Heat Pump	N-03-3-9-082
9. SERIAL NUMBER: 2P60-B 69081	10. ORG. CONCERNED NC: Bechtel Construction	11. AREA/LOC. OF NC: Aux Bldg Area 3 Rm 26 Elev 568	2. DATE: 8-2-79 3. DATE OF REV: NA 4. FILE NO: 16.3.4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION AND REFS:

Observed hole being drilled in pump discharge riser line for 1" coupling penetration without protecting pump internals from steel chips falling into the rotating element.

The above is contrary to acceptable industrial practices and places the pump in an indeterminate condition.

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 QA:

Verify pump internals are free of all foreign materials prior to rotating the pump impeller shaft.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [ ] NOT REQUIRED [X]

14. HOLD TAGS APPLIED: YES [X] NO [ ] NUMBER, LOCATION & DATE OF HOLD TAGS APPLIED: 082 Pump QC Hold Tag, One (1) Tag

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: Harold L. Allen

23. WRITTEN REPLY REQUIRED BY: 8-17-79 TO ESTABLISH CA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: 8/3/79

25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

POOR ORIGINAL

26. DESIGN/PROJECT RESP. AUTH. DISP.:	27. PRO RESP. AUTH. DISP.:	28. PROCUREMENT RESP. ORIG. DISP.:	29. RESP. OF ORG. ASSIGN. FOR C/A:
30. FAB/CONST. RESP. AUTH. DEV. DISP.:	31. RESP. OF TEST GROUP ACCEPT. CONDITION:	32. FOR MAJOR NCR - FULL SUPT. RESP. AUTH. DISP.:	33. QA AUTH. RESP. TO CONCURR DISP.:

34. METHOD OF PART CA VERIFICATION:

35. RESP. OF ORG. RESP. FOR PART C/A SATISFACTORY COMPLETION:	36. RESP. VERIFYING PART C/A & HOLD TAG REMOVAL DATE:	37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)

1064 136

Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

M-03-3-9-082

NCR SERIAL NUMBER:

38. QA ASSESSMENT OF ROOT CAUSE(S):

Lack of preparation for the protection of the system and associated equipment during construction activities.

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:

Conduct training session for craftsmen to emphasize the requirement for proper preparation and precautions that must be taken to protect systems/equipment prior to initiating and during work activities.

42. PROCESS CA TO BE TAKEN BY ORG(S) CONTROL IN BLOCK 41 & DATE OF COMPLETION:

POOR ORIGINAL

43. METHOD OF PROCESS CA VERIFICATION:

44. SIGN, IF DIFF. RESPONSIBLE FOR PROCESS CA DIRECTIVES COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

Start Up System: 0-GLA, 0-GLB

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-01-4-9-083
Midland 1 & 2	See Block 12	HVAC Hangers/Supports	2. DATE: 8-14-79
9. SERIAL NUMBER: NA	10. ORG. CONCERNED NC: Subcontractor Zack Co	11. AREA/LOC. OF NC: See Block 12	3. DATE OF REV: NA
			4. FILE NO: 16.3.4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

See Page 3.

5. DISTRIBUTION

ACTION COPY:

LADreisbach

INFO COPY:

WLBarclay, WRBird, TCCooke, JLCorley, RHermeston, SHHowell, DRJohnson, GSKeeley, BWMarguglio, PAMartinez, JMilandin, DBMiller, WGMoring, JFNewgen, RASimanek, DATaggart

13. CA RECOMMENDATION FOR PART CA:

See Page 3.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [X] NOT REQUIRED [ ]

14. HOLD TAGS APPLIED: YES [ ] NO [X] NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: NA

15. IS PROCESS CA REQUIRED: YES [X] NO [ ] IF NO, ENTER JUSTIFICATION BELOW:

16. DOES NC AFFECT Q-LIST ITEMS: 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: JL Zimmerman/DRK

23. WRITTEN REPLY REQUIRED BY: 8-28-79 TO ESTABLISH CA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: DRKeating 8-14-79

25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

POOR ORIGINAL

26. DESIGN/PROJECT SIG. AUTH. DISP.:	27. PRO SIG. AUTH. DISP.:	28. PROCUREMENT SIG. AUTH. DISP.:	29. SIG. OF ORG. RESP. FOR C/A:
30. FAB/CONST. SIG. AUTH. DEP. DISP.:	31. SIG. OF TEST GROUP ACCEPT. CONDITION:	32. FOR WATER MGT - PLT. SUPT. SIG. AUTH. DISP.:	33. QA AUTH. SIG. TO DOCUMENT DISP.:

34. METHOD OF PART CA VERIFICATION:

35. SIG. OF ORG. RESP. FOR PART C/A SATISFACTORY COMPLETION:	36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL DATE:	37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)

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Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

NCR SERIAL NUMBER: M-01-4-9-083

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 ASSIGNED FROM:

DESIGN [ ] FABRICATION [ ] CONSTRUCTION [X] PROCUREMENT [ ] INSPECTION [X]

OTHER _____

41. QA RECOMMENDATION FOR PROCESS CA:

Unknown, to be determined.

POOR ORIGINAL

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

44a. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA IDENTIFYING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

NCR SERIAL NO: M-01-4-9-083
DATE: 8-14-79
DATE OF REV: NA
FILE NO: 16.3.4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

1) Spec M151A(Q) Rev 5, paragraph 14.6.1 states, "Preheat shall be as recommended in the applicable section of the Code". Paragraph 14.6.3 states in part, "Preheat and interpass temperature shall be determined by temperature indicating crayons, contact pyrometers or other equally suitable means accepted by the Contractor". Paragraph 14.6.4 states in part, "Preheat and interpass temperature requirements listed above shall also apply to tack, fillet and attachment welds and thermal gouging and cutting".

2) AWS D1.1 paragraph 4.2 states in part, "The minimum preheat shall be in accordance with Table 4.2" and "when the base metal is below the specified minimum temperature, it shall be preheated so that the parts on which weld metal is being deposited are at or above the specified minimum temperature for a radius equal to the thickness of the part being welded, but not less than 3 inches in all directions from the point of welding. In joints involving combinations of base metals, preheat shall be as specified for the higher strength steel being welded".

   a) AWS D1.1 Table 4.2 requires steel specification ASTM A572, Grade 50 to be welded using the SMAW method with low hydrogen electrodes with a minimum temperature of 50°F for metals over 3/4 inch through 1½ inch.

   b) AWS D1.1 Table 4.2 requires steel specification ASTM A36, ASTM A53, or ASTM A106 to be welded using the SMAW method with other than low hydrogen electrodes with a minimum temperature of 150°F for metals over 3/4 inch through 1½ inch and 225°F for metals over 1½ inch through 2½ inch.

Contrary to the above, hangers identified on Page 4 have been welded to structural steel having thicknesses ranging from 15/16" to 1 3/16" using E6011 electrode without any preheat.

13. QA RECOMMENDATION FOR PART CA:

1) Zack Co welding crafts perform rework/repair as necessary on hangers/supports as listed on Page 4 to meet the criteria outlined in Spec M151A(Q) and AWS D1.1.

2) Zack Co welding QC inspectors perform in-process inspections and final inspections to meet criteria of M151A(Q) on above described rework/repair.

3) Bechtel QC Engineer covering the subcontractor perform inspections (in-process and final) on above described rework/repair to assure strict compliance of Spec M151A(Q) and AWS D1.1 for all hangers presently installed to metal over 3/4 inch thick.

4) Re-inspect all accepted HVAC hanger welds to metal over 3/4 inch thick to assure compliance with Spec M151A(Q).

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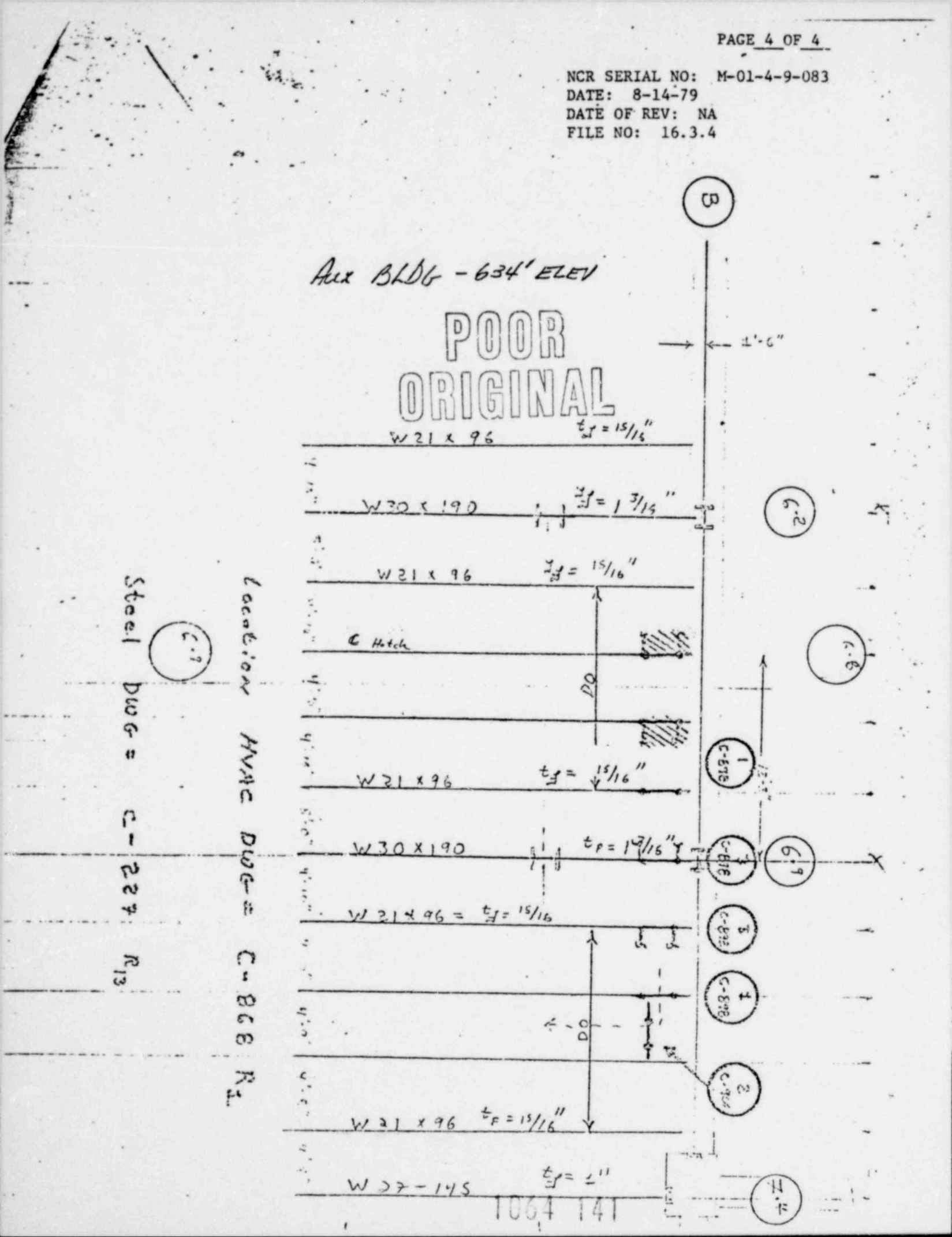
NCR SERIAL NO: M-01-4-9-083
DATE: 8-14-79
DATE OF REV: NA
FILE NO: 16.3.4



Start Up System: 1-SBA

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: Drawing E-37	8. NONCONFORMING PART NAME: Electrical Circuit Schedule	1. NCR SERIAL NO: M-01-[illegible]-9-084
9. SERIAL NUMBER: NA	10. ORG. CONTRIBUTING NC: Bechtel Engineering	11. AREA/LOC. OF NC: Safeguards Room 659' Level	2. DATE: 8-20-79
			3. DATE OF REV: NA
			4. FILE NO: 16.3.1

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

Drawing E-37 Rev 27-C routed cable 1BQ192F through vias: BH072, BH070, BH068 which is how the cable is physically installed. This routing agrees with conduit layout between the two pieces of equipment involved as shown on Conduit and Tray Plan E-602Q Rev 6.

Contrary to the above, Drawing E-37 does not now reflect the actual installation. Revision 29 was changed to indicate the routing of cable 1BQ192F as being through vias: BH069, BH070, BH071. This same routing configuration is reflected on Revision 30 of the plan.

5. DISTRIBUTION

ACTION COPY:

LADreisbach

INFO COPY:

WLBarclay	DBMiller
WRBird	WGMoring
TCCooke(2)	JFNewgen
JLCorley	RASimanek
RHermeston	DATaggart
SHHowell	
DRJohnson	
GSKeeley	
BWMarguglio	
PAMartinez	
JMilandin	

13. QA RECOMMENDATION FOR PART QA:

Correct Drawing E-37 to agree with actual cable routing.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [X] NOT REQUIRED [ ]

14. HOLD TAGS APPLIED: YES [ ] NO [X] ITEMS, LOCATION & TYPE OF HOLD TAGS APPLIED: NA

15. IS PROCESS QA REQUIRED: YES [X] NO [ ] IF NO, ENTER JUSTIFICATION BELOW:

16. DOES NC AFFECT QA-LIST ITEM: YES [ ] NO [X]

17. IS NC REPORTABLE PER 50.55(e): YES [ ] NO [X]

18. IS NC REPORTABLE PER PART 21: YES [ ] NO [X]

19. IF YES, DATE & LOC 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 Nott

23. WRITTEN REPLY REQUIRED BY: 10-1-79 TO ESTABLISH QA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: Paul K Kyner 8-21-79

25. PART QA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

POOR ORIGINAL

26. DESIGN/PROJECT SIG. AUTH. DISP.:	27. PAD SIG. AUTH. DISP.: NA	28. PROCUREMENT SIG. AUTH. DISP.: NA	29. SIG. OF ORG. DISP. FOR N/A:
30. FAB/CONST. SIG. AUTH. DISP. DISP.:	31. SIG. OF TEST GROUP ACCEPT. CONDITION: NA	32. FOR MAJOR MOD - PLT. SUPT. SIG. AUTH. DISP.: NA	33. QA AUTH. SIG TO DOCUMENT DISP.:

34. VERIFICATION OF PART QA JUSTIFICATION:

35. SIG. OF ORG. DISP. FOR PART QA SATISFACTORY COMPLETION:	36. SIG. VERIFYING PART QA & HOLD TAG REMOVAL DATE:	37. NCR CLOSED BY: DATE: (PART & PROCESS QA COMPLETE)

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Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

M-01-5-9-084

NCR SERIAL NUMBER:

38. QA ASSESSMENT OF ROOT CAUSE(S):

This is a recurrence of similar incidents previously reported on NCR's M-01-4-9-017, M-01-4-9-024 and M-01-9-9-061.

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 [ ] OPERATION [ ]

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

Unknown - to be determined.

POOR ORIGINAL

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA IMPLEMENTING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

6

Start Up System: Indeterminate

Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

6. PROJECT NAME:	7. NONCONFORMING PART NO:	8. NONCONFORMING PART NAME:	1. NCR SERIAL NO:
Midland 1 & 2	Tray Sections 1BTA01, 1BTA02 and 1BJG01	Cable Trays	M-01-9-9-085
9. SERIAL NUMBER:	**10. QUAL. CONTROLLING NC:**	**11. AREA/LOC. OF NC:**	**2. DATE:**
NA	Bechtel Construction	Elev 614'-0" & Elev 674'-6"	8-21-79
			3. DATE OF REV: NA
			4. FILE NO: 16.3.4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION AND REFS:

Paragraph 3.4 of ANSI 45.2.3-1973 states in part, "The use, location and deployment of construction tools, supplies, and equipment shall be regulated to keep access and work areas clear and prevent conditions that will adversely affect quality".

Contrary to the above, cable tray sections 1BTA01 and 1BTA02 in the Electrical Equipment Room and 1BJG01 in the Upper Cable Spreading Room have rags, ropes, DE STA CO rollers and miscellaneous metal objects laying on top of installed cables. Similar conditions were previously identified by an NRC Inspector February 6-9, 1979 and by NCR M-01-3-9-002.

5. DISTRIBUTION

ACTION COPY:

LADreisbach

INFO COPY:

WLBarclay, WRBird, TCCooke (2), JLCorley, RHermeston, SHHowell, DRJohnson, GSKeeley, BWMarguglio, PAMartinez, JMilandin, DBMiller, WGMoring, JFNewgen, RASimanek, DATaggart

13. CA RECOMMENDATION FOR PART CA:

It is recommended that all tools and equipment, not part of the installation, be removed from the cable trays and QC inspect cables for damage.

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 ORIGINATED BY: Eloyce M Jones

23. WRITTEN REPLY REQUIRED BY: 9-5-79 TO ESTABLISH CA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: Paul Kyrsa 8-21-79

25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

POOR ORIGINAL

26. DESIGN/PROJECT RES. ADMIN. DISP.:	27. QAD RES. ADMIN. DISP.:	28. PROCUREMENT RES. ADMIN. DISP.:	29. RES. OF RES. ADMIN. FOR N/A:
NA	NA	NA	
30. FAB/CONST. RES. ADMIN. DEP. DISP.:	**31. RES. OF TEST GROUP ADMIN. CONDITION:**	**32. FOR MAJOR MOD - FIELD SUPT. RES. ADMIN. DISP.:**	**33. QA ADMIN. RES. TO DOCUMENT DISP.:**
	NA	NA	

34. REMARKS OF PART CA JUSTIFICATION:

35. RES. IF ORG. RESP. FOR PART CA SATISFACTORY COMPLETION:	36. RES. VERIFYING PART CA & HOLD TAG REMOVAL DATE:	37. NCR CLOSED BY DATE: (PART & PROCESS CA COMPLETE)

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Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

M-01-9-9-085

NCR SERIAL NUMBER: _____

38. QA ASSESSMENT OF ROOT CAUSE(S):

Personnel working near the cable trays are using them as storage areas. QC inspectors inspect for such conditions only during actual cable installation.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY CRG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA RECOMMENDED FROM:

DESIGN [ ] FABRICATION [ ] CONSTRUCTION [X] PROCUREMENT [ ] INSPECTION [X]

OTHER _____

41. QA RECOMMENDATION FOR PROCESS CA:

Use training session to inform all Foremen to take corrective action to prevent improper use of the cable tray installations. All Field Engineers, General Foremen, Superintendents, and QC Engineers should be informed to constantly be on the lookout for any improper use of the cable trays and cables. Proper housekeeping should be a part of all crafts' training on this job.

42. PROCESS CA TO BE TAKEN BY DEPT(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

POOR ORIGINAL

43. NUMBER OF PROCESS CA VERIFICATION:

44. SIG. OF RES. RESPONSIBLE FOR PROCESS CA SATISFACTORY COMPLETION:

45. PROCESS CA COMPLETION VERIFIED INITIALS: 1064 145

Start Up System: Indeterminate

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-01-4-9-086
Midland 1 & 2	See Block 12	Hangers/Supports	2. DATE: 8-21-79
9. SERIAL NUMBER: NA	10. ORG. CONCERNED NC: Subcontractor Zack Co	11. AREA/LOC. OF NC: See Block 12	3. DATE OF REV: NA
			4. FILE NO: 16.8

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

Zack Welding Procedure M-B-QCP-22 specifies the following:

1. Base metal shall conform to the requirements of ASTM-A36.
2. Material thickness shall be limited to less than 3/4 inch.
3. Filler metal shall be #6011 electrode.

(Contd on Page 3)

5. DISTRIBUTION

ACTION COPY:

LADreisbach

INFO COPY:

WLBarclay, WRBird, TCCooke(2), JLCorley, RHermeston, SHHowell, DRJohnson, GSKeeley, BWMarguglio, PAMartinez, JMilandin, DBMiller, WGMoring, JFNewgen, RASimanek, DATaggart

13. CA RECOMMENDATION FOR PART CA:

1. Zack Co welding crafts perform rework/repair as necessary on all hangers/supports welded to base metal over 3/4 inch to meet the criteria outlined in Spec M151A(Q).

(Contd 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: NA

15. IS PROCESS CA REQUIRED: YES [X] NO [ ] IF NO, ENTER JUSTIFICATION BELOW:

16. DOES NC AFFECT 4-DIGIT ITEM: YES [X] NO [ ]	17. IS NC REPORTABLE PER 50.55(e): YES [ ] NO [X]
18. IS NC REPORTABLE PER PART 21: YES [ ] NO [X]	19. IF YES, DATE & 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:	23. WRITTEN REPLY REQUIRED BY: 9-5-79 TO ESTABLISH CA COMPLETION DATE	24. SUPERVISOR'S SIGNATURE/DATE: 8-21-79

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. DISP. FOR CA:
30. FAB/CONST. SIG. AUTH. DEP. DISP.:	31. SIG. OF TEST GROUP ACCEPT. CONDITION:	32. FOR VALVE NCR - PIS. SUPT. SIG. AUTH. DISP.:	33. QA AUTH. SIG. TO DISPOSITION DISP.:

34. METHOD OF PART CA VERIFICATION:

35. SIG. OF ORG. REP. FOR PART CA VERIFYING 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-C

NCR SERIAL NUMBER:

40. 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):

43. PROCESS CA REQUIRED FROM:

DESIGN [ ] FABRICATION [ ] CONSTRUCTION [X] PROCUREMENT [ ] INSPECTION [X]

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

Unknown, to be determined.

POOR ORIGINAL

42. PROCESS CA TO BE TAKEN BY ORG(S) CITED IN BLOCK 41 & DATE OF COMPLETION:

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-01-4-9-086
DATE: 8-21-79
DATE OF REV: NA
FILE NO: 16.3

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Contd from Page 1)

Contrary to the above:

1. Installation of hangers in containment are to base metal A572, Grade 50 in excess of 3/4 inch using E6011.

   Example - Unit #2 Vertical Column #17
   Dwg C654 Rev 8, Elev 671'-350° Azimuth
   Column is W14 x 150 = .873 inch with W14 x 111 plate added = 1.250 inch
   Beam is W36 x 280 = 1.57 inch

   Example - Unit #1 Vertical Column #1
   V13, SH2A9 Detail 1 Dwg C928, Elev 671'-350° Azimuth
   Column is W14 x 150 = 8.73 inch with @14 x 111 plate added = 1.250 inch
   Beam is W36 x 230 = 1.26 inch

2. Installation of hangers to base metals over 3/4 inch has been accomplished at various elevations in the Auxiliary Building, Spent Fuel Pool Area, and Control Room.

   Examples - Aux Bldg

   a. Bottom of steel (BOS) - 584' Floor Elevation - 568'
      Room 8 - Area 1 Detail 3 Dwg C898 Traveler #F930
      Beam - W21 x 96 = .94 inch

   b. BOS - 599' Floor Elevation - 584'
      V2-SH 2 HGR #15 Detail 1 Dwg C898 Traveler #F3297
      Beam - W24 x 160 = 1.135 inch

   c. BOS - 614' Floor Elevation - 599'
      Sh 1 HGR #18 Detail 1 Dwg C898 Traveler #F3296
      Beam W36 x 300 = 1.68 inch

   d. Floor Elevation - 614'
      V4-SH 1 Detail 1 Dwg C893
      Beam W30 x 172 = 1.065 inch

   Example - Control Room Area

   a. Floor Elevation - 659'
      V25, SH 3 Hanger #70, 71, 76, 77
      Beam W36 x 300 = 1.68 inch

   Example - Spent Fuel Pool Area - 659' Elevation

   a. Vertical Columns for Crane Support, etc
      from 1.500 inch to 3.00 inch

NCR SERIAL NO: M-01-4-9-086
DATE: 8-21-79
DATE OF REV: NA
FILE NO: 16.8

13. QA RECOMMENDATION FOR PART CA:

(Contd from Page 1)

2. Zack Co welding QC inspectors perform in-process inspections and final inspections to meet criteria of M151A(Q) as above described rework/repair.

3. Provide assurance that welds made and accepted to the criteria of Spec M151A(Q) and AWS D1.1 are satisfactory for base metal over 3/4 inch.

4. Review system (program) that allows welders to perform subject welds and develop program to prevent recurrence, and document same.

5. Review and revise welding procedures to encompass necessary welding of structural steel in all areas of job site.

6. Provide justification for noncompliance to Spec M151A(Q).

Start Up System: GLF

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-01-4-9-087
Midland 1 & 2	See Block 12	Hangers/Supports	2. DATE: 8-22-79
9. SERIAL NUMBER: NA	10. ORG. CONCERNED NO: Subcontractor Zack Co	11. AREA/LOC. OF NC: See Block 12	3. DATE OF REF: NA
			4. CASE NO: 16.8

12. AS OF NONCONFORMING CONDITION VERSUS AS REQUIRED SPECIFICATION WITH REF:

Zack Co Welding Procedure M-B-QCP-24 specifies that material thickness shall be 3/8 inch or less.

Contrary to the above, installation of hangers to base metal of thickness greater than 3/8 inch has been accomplished in the spent fuel pool area (1½ to 3 inch columns).

NOTE: This hanger has been previously tagged by Zack Co (NCR Report #299) for improper rod warmer usage.

5. DISTRIBUTION
ACTION COPY:
LADreisbach

INFO COPY:

WLBarclay	JMilandin
WRBird	DBMiller
TCCooke(2)	WGMoring
JLCorley	JFNewgen
RHermeston	RASimanek
SHHowell	DATaggart
DRJohnson	
GSKeeley	
BWMarguglio	
PAMartinez	

13. CA RECOMMENDATION FOR PART 12:

1. Zack Co welding crafts perform rework/repair as necessary on hangers/supports welded to meet the criteria as outlined in Spec M151A(Q).

(Contd on Page 3)

DESIGN/PROJECT ENG. DISPOSITION REQUIRED: YES [X] NOT REQUIRED [ ]

14. HOLD TAGS APPLIED: YES [ ] NO [X] TAGGED, LOCATION & DATE OF HOLD TAGS APPLIED: NA

15. IS PROCESS CA REQUIRED: YES [X] NO [ ] IF NO, GIVE 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:

23. NONCONFORMING ITEM REVIEWED BY: 9-6-79
TO DISABLE CA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: 8-22-79

25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

POOR ORIGINAL

26. DESIGN/PROJECT ENG. APPR. DISP.:	27. QA ENG. APPR. DISP.:	28. PROCUREMENT ENG. APPR. DISP.:	29. ENG. OF ORG. RESP. FOR CA:
30. FAB/CONST. ENG. APPR. DISP.:	31. ENG. OF THAT GROUP ACCEPT. DISPOSITION:	32. FOR VALVE NCR - PLT. SUPT. ENG. APPR. DISP.:	33. QA APPR. ENG. TO DOCUMENT DISP.:

34. REMARKS OF PART CA JUSTIFICATION:

35. ENG. OF ORG. RESP. FOR PART 25 A DISPOSITION COMPLETION:	36. ENG. VERIFICATION PART 25A & HOLD TAG REMOVAL DATE:	37. QA ENGINEER SIGNATURE/DATE: (PART A PROCESS CA COMPLETE)

1061 150

Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

M-01-4-9-087

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 RECEIVED FROM:

DESIGN [ ] FABRICATION [ ] CONSTRUCTION [X] PROCUREMENT [ ] INSPECTION [X]

OTHER _____

41. QA RECOMMENDATION FOR PROCESS CA:

Unknown, to be determined.

POOR ORIGINAL

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

44a. NAME OF ORG. RESPONSIBLE FOR PROCESS CA VERIFICATION:

44b. PROCESS CA COMPLETION VERIFIED BY (DATE):

NCR SERIAL NO: M-01-4-9-087
DATE: 8-22-79
DATE OF REV: NA
FILE NO: 16.8

13. QA RECOMMENDATION FOR PART CA:

(Contd from Page 1)

2. Zack Co welding QC inspectors perform in-process inspections and final inspections to meet criteria of M151A(Q) as above described rework/repair.

3. Review system (program) that allows welders to perform subject welds and develop program to prevent recurrence, and document same.

Start Up System: 1-BKA

Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

6. PROJECT NAME:	7. NONCONFORMANCE PART NO:	8. NONCONFORMANCE PART NAME:	1. NCR SERIAL NO:
Midland 1 & 2	1BB1804E	Electrical Cable	M-01-9-79-088
			2. DATE: 8-20-79
9. SERIAL NUMBER:	10. SUB. CONTRACTOR NO:	11. AREA/LOC. OF NC:	3. DATE OF REV: NA
	Bechtel Construction	Aux	4. REV NO: 16.3.4

12. AS IT NONCONFORMANCE CONDITION VERSUS AS REQUIRED CONDITION WAS NOTED:

Paragraph 5.1.2 of ANSI N45.2.4-1972 states in part, "Adequacy of barriers and protective covers shall be evaluated to assure that items will not be damaged as a result of adjacent construction activity" and paragraph 6.6.2 of FPE-4.000 states in part, "The minimum bend radius is 6 x diameter for all other jacketed cable".

Contrary to the above, Cable No 1BB1804E is pulled to a pullbox in the middle of conduit run 1EAA020. At this point, it is twisted and kinked violating the 6 x diameter minimum bend radius and, further, the cable has not been adequately protected from adjacent construction activities, as it is laying in accumulated water on the floor.

5. DISTRIBUTION

ACTION COPY:

LADreisbach

INFO COPY:

WLBarclay	JMilandin
WRBird	DBMiller
TCCooke(2)	JFNewgen
JLCorley	RASimanek
RHermeston	DATaggart
SHHowell	
DRJohnson	
GSKeeley	
BWMarguglio	
PAMartinez	

13. CA RECOMMENDATION FOR PART 21:

To be determined by Project Engineering.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [X] NOT REQUIRED [ ]

14. HOLD TAGS APPLIED: YES [ ] NO [X] HOLDER, LOCATION & DATE OF HOLD TAGS APPLIED: NA

15. IS PROCESS CA REQUIRED: YES [X] NO [ ] IF NO, ENTER JUSTIFICATION BELOW:

16. DOES NC AFFECT R-LIST ITEM: YES [X] NO [ ]

17. IS NC REPORTABLE PER 50.55(e): YES [ ] NO [X]

18. IS NC REPORTABLE PER PART 21: YES [ ] NO [X]

19. IF YES, DATE & TIME OF REPORT TO NRC: NA

20. IF YES, NRC REPORT TO NRC: NA

21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

22. NCR ORIGINATED BY: Esbon A Jones

23. WRITTEN REPLY REQUIRED BY: 9-5-79

TO ESTABLISH CA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: Paul Kuzma 8/22/79

25. PART OF INSPECTION, ACCEPTANCE & COMPLETION DATE:

POOR ORIGINAL

26. DESIGN/PROJECT ENG. ACTUAL DISP.:	27. PRO ENG. ACTUAL DISP.:	28. PROCUREMENT ENG. ACTUAL DISP.:	29. ENG. OF ORG. PERF. FOR USE:
NA	NA	NA	
30. FAB/CONSTR. ENG. ACTUAL DISP.:	31. ENG. OF TEST PROG ACTUAL DISPOSITION:	32. FOR VALUE ENG - PROJ. ENG. ACTUAL DISP.:	33. QA ACTUAL ENG. TO CONCURRENCE DISP.:
	NA	NA	

34. METHOD OF PART 21 EVALUATION:

35. ENG. IF ORG. DESP. FOR PART 21A REQUIRING NOTIFICATION:	36. ENG. VERIFYING PART 21A & HOLD TAG REMOVAL DATE:	37. DATE CLOSED OUT/DATE: (PART 21 PROCESS IS COMPLETE)

Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION – QUALITY ASSURANCE DEPARTMENT

NCR SERIAL NUMBER: _____

38. ASSESSMENT OF ROOT CAUSE(S):

After partially pulling, the cable was left unsecured and unprotected which was subsequently damaged during other construction in the area.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY CAG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA INITIATED FROM:

DESIGN [ ] FABRICATION [ ] CONSTRUCTION [X] PROCUREMENT [ ] INSPECTION [X]

OTHER _____

41. CA RECOMMENDATION FOR PROCESS CA:

A training session and/or class should be set up to review and/or train construction personnel in the methods of securing and protecting, partially and completely, pulled cables from construction damage.

42. PROCESS CA TO BE TAKEN BY CAG(S) CITED IN BLOCK 41 & DATE OF COMPLETION:

POOR ORIGINAL

43. METHOD OF PROCESS CA VERIFICATION:

44a. NAME OF CAG. RESPONSIBLE FOR PROCESS CA VERIFICATION COMPLETION:

44b. DATE CA COMPLETION VERIFIED (DATE):

1-PBA 1-PGB
2-PBA 2-PGB
1-PGA 1-PBB
Start Up System: 2-PGA 2-PBB

Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

6. PROJECT NAME:	7. NONCONFORMANCE PART NO:	8. DESCRIPTION/ITEM NAME:	1. QA STATUS NO:
Midland 1 & 2	See Block 12	Welding Procedure Specification	M-01-4-9-089
			2. DATE: 8-23-79
9. SERIAL NUMBER:	10. ORG. CONNECTION NO:	11. APPROX. QT. NO:	3. DATE OF REV:
NA	Bechtel Construction Bechtel Quality Control	614' Elevation Aux Bldg	NA
			4. FILE NO: 16.3.4, 16.3.6

12. "AS IS" NONCONFORMING CONDITION (CAUSE "AS REQUIRED" CONDITION WILL EXIST):

1. Bechtel Welding Procedure Specification (WPS) P1-A-Lh (structural) is prequalified for joint details in accordance with AWS D1.1-76 and must be used in conjunction with General Welding Standard GWS-Structural. GWS-Structural lists the prequalified joint details acceptable to use.
2. Paragraph 2.6.1 of AWS D1.1-76 states in part, "Joints meeting the following requirements are designated as prequalified:
   (1) Conformance with the details specified in 2.7 through 2.14 and 10.13".

(Contd on Page 3)

13. QA RECOMMENDATION FOR PART QA:

1. Qualify a welding procedure to allow plug/slot and circle (circumferential) fillet welds on thin metals.
2. Repair/rework all plug and circumferential fillet welds as necessary to ensure compliance with qualified procedure.

DESIGN/PROJECT ENG. DISP. ACTION REQUIRED [X] NOT REQUIRED [ ]

(Contd on Page 3)

5. DISTRIBUTION

ACTION COPY:
LADreisbach

INFO COPY:

WLBarclay	DBMiller
WRBird	WGMoring
TCCooke(2)	JFNewgen
JLCorley	RASimanek
RHermeston	DATaggart
SHHowell	
DRJohnson	
GSKeeley	
BWMarguglio	
PAMartinez	
JMilandin	

14. HOLD TAGS APPLIED: YES [ ] NO [X] TAGGED, LOCATION & DATE OF HOLD TAGS APPLIED: NA

15. IS PROCESS QA REQUIRED: YES [X] NO [ ] IF NO, ENTER JUSTIFICATION BELOW:

16. DOES NC AFFECT A-LIST ITEM: YES [X] NO [ ]

17. IS NC REPORTABLE PER 50.55(e): YES [ ] NO [X]

18. IS NC REPORTABLE PER PART 21: YES [ ] NO [X]

19. IF YES, DATE & TIME OF REPORT TO NRC: NA

20. IF YES, WHO MADE REPORT TO NRC: NA

21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

22. NCR ORIGINATED BY:

23. VERBAL REPLY REQUIRED BY: 9-6-79
TO ESTABLISH QA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: 8-23-79

25. PART QA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

POOR ORIGINAL

26. DESIGN/PROJECT RES. ACTIVITY:	27. IND RES. ACTIVITY:	28. PROCUREMENT RES. ORG. DISP.:	29. RES. OF DOC. REQ. FOR P/A:
30. FAB/CONST. RES. ACTIVITY DISP.:	31. RES. OF NCR GROUP ACTION, DISPOSITION:	32. PER WAIVER NO - FILE DISP. RES. ACTIVITY.:	33. QA ACTIVITY RES. TO DOCUMENT DISP.:

34. REMARKS IF PART QA DISPOSITIONED:

35. RES. IF DOC. REQ. FOR PART QA SATISFYING DISPOSITION:	36. RES. VERIFYING PART QA & HOLD TAG REMOVAL DATE:	37. QAE VERIFIED BY: DATE: (PART & PROCESS QA COMPLETE)

8004 155

Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

M-01-4-9-089

NCR SERIAL NUMBER:

38. CA ASSESSMENT OF ROOT CAUSE(S):

Unknown, to be determined.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA ROUTED FROM:

DESIGN [X] FABRICATION [ ] 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) CITED IN BLOCK 41 & DATE OF COMPLETION:

POOR ORIGINAL

43. METHOD OF PROCESS CA VERIFICATION:

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA DIRECTIVE COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

1064 156

NCR SERIAL NC M-01-4-9-089
DATE: 8-23-79
DATE OF REV: NA
FILE NO: 16.3.4, 16.3.6

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Contd from Page 1)

2. (Contd)

Paragraph 2.7 through 2.14 of AWS D1.1-76 specifies the allowable prequalified joint designs.

3. Paragraph 2.7.1.2 of AWS D1.1-76 states in part, "The maximum fillet weld size permitted along edges of material shall be:

(1) The thickness of the base metal, for metal less than ¼ inch (6.4mm) thick..."

4. Drawing C195(Q) Rev 5 specifies welding of electrical equipment to embedments will be fillet welded completely around the hole circumference unless noted otherwise on vendor documents. FCR C-1991 dated 7/10/79 was issued to Drawing C197(Q) Rev 9 to include the similar requirements of Note #13 in Drawing C195(Q).

5. Reference welding QCIR C304-288W specifies plug welding using WPS P1-A-Lh (Structural), Rev 0.

Contrary to this, electrical equipment (1A05, 1A06, 2A05 and 2A06) classified as Seismic Category I has been installed by plug welding and circumferential fillet welding on 16 gauge carbon steel to embeds at elevation 614' - Aux Bldg (location 5.3 - 7.8 and H-Kc Line) using WPS P1-A-Lh (Structural).

Welding of these compartments does not comply with required weld thickness on prequalified fillet welds or prequalified joint design of plug welding as specified in paragraphs 2.7 and 2.8 respectively of AWS D1.1-76, therefore, WPS P1-A-Lh (Structural) is not prequalified for welding the electrical cabinets to the embedments.

13. QA RECOMMENDATION FOR PART CA:

(Contd from Page 1)

3. Retest and/or qualify welders to qualified procedure acceptable for plug and/or circumferential welding.

4. Take corrective action as required to preclude and alleviate referenced deviations.

5. Reinspect all referenced compartment installations. Document all discrepancies found.

6. Determine why the supports were not installed according to design drawings and take action to preclude recurrence.

7. Re-evaluate stress calculations using "as-built" installation configuration and provide assurance that all requirements of Seismic Category I are adequate and acceptable.

9

Start Up System: Indeterminate

Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

6. PROJECT NAME: Midland 1 & 2	7. NONCONFORMANCE PART NO: Tray Sections 2BJB14 & 2BJB15	8. NONCONFORMANCE PART NAME: Cable Trays	1. NCR SERIAL NO: M-01-9-9-090
9. SERIAL NUMBER: NA	10. SUB. CONSTRUCTION NC: Bechtel Construction	11. AREA/LOC. OF NC: Elev 584'-0"	2. DATE: 8-27-79
			3. DATE OF REV: NA
			4. ITEM NO: 16.3.4

12. AS IT NONCONFORMANCE CONDITION (DESCRIBE "AS REVISED" CONDITION WHEN REV):

Paragraph 3.4 of ANSI 45.2.3-1973 states in part, "The use, location and deployment of construction tools, supplies and equipment shall be regulated to keep access and work areas clear and prevent conditions that will adversely affect quality".
Contrary to the above, cable tray sections 2BJB14 and 2BJB15 on the 584' level has a 1½ ton chain fall and chain, swivel clamp, u-bolt, channel iron, pipes and other objects laying on top of the cables in this tray section. Due to the weight of the chain fall etc, the condition of these cables is indeterminate. Similar conditions have been identified previously by an NRC inspector in February 79 and by NCR's M-01-3-9-002 and M-01-9-9-085.

5. DISTRIBUTION
ACTION COPY:
LADreisbach

INFO COPY:
WLBarclay, WRBird, TCCooke(2), JLCorley, RHermeston, SHHowell, DRJohnson, GSKeeley, BWMarguglio, PAMartinez, JMilandin, DBMiller, WGMoring, JFNewgen, RASimanek, DATaggart

13. CA RECOMMENDATION FOR PART 12:

It is recommended that all tools, supplies and equipment, not part of the installation, be removed from the cable trays and QC inspect cables for damage.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED: YES [ ] NOT REQUIRED [X]

14. FIELD TAGS AFFIXED: YES [ ] NO [X] TAGGED, LOCATION & DATE OF FIELD TAGS AFFIXED: NA

15. IS PROCESS CA REQUIRED: YES [X] NO [ ] IF NO, ENTER JUSTIFICATION BELOW:

16. DOES NC AFFECT S-LIST ITEM: YES [X] NO [ ]	17. IS NC REPORTABLE PER 50.55(e): YES [ ] NO [X]
18. IS NC REPORTABLE PER PART 21: YES [ ] NO [X]	19. IF YES, DATE & TIME OF REPORT TO NRC: NA
20. IF YES, WAS NCR REPORT TO NRC: NA	21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA
22. NCR GENERATED BY: W. Nott	23. NCR/NCR REPORT ISSUED BY: 9-10-79 TO ESTABLISH CA COMPLETION DATE
	24. SUPERVISOR'S SIGNATURE/DATE: Paul Kyner 8-27-79

25. PART CA IMPLEMENTATION, VERIFICATION & COMPLETION DATE:

POOR ORIGINAL

26. DESIGN/PROJECT ENG. APPR. DATE: NA	27. QAD ENG. APPR. DATE: NA	28. CONSTRUCTION ENG. APPR. DATE: NA	29. ENG. OF ENG. APPR. (QA N/A):
30. FAB/CONSTR. ENG. APPR. DEPT. DATE:	31. ENG. OF CORR. PROC ACTION, CONCURRENCE: NA	32. PER VALID NCR - ENG. SUPV. ENG. APPR. DATE: NA	33. QA APPR. ENG. OF DISPOSITION DATE:

34. VERIFIED IF PART CA SATISFACTORY:

35. ENG. OF ENG. VERIF. FOR PART 34A REQUIRING DISPOSITION:	36. ENG. VERIFYING PART 34A & DATE OF REMOVAL/DATE:	37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE):

1061 150

Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

M-01-9-9-090

NCR SERIAL NUMBER: _____

38. QA ASSESSMENT OF ROOT CAUSE(S):

Construction personnel working in areas around cable trays are storing their equipment and supplies in the trays on top of the cables.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY CAG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA RELATED ITEM:

DESIGN ☐ FABRICATION ☐ CONSTRUCTION ☒ PROCUREMENT ☐ INSPECTION ☐

OTHER _____

41. QA RECOMMENDATION FOR PROCESS CA:

As recommended by NCR M-01-9-9-085 dated 8-21-79 which states:
"Use training session to inform all Foremen to take corrective action to prevent improper use of the cable tray installations. All Field Engineers, General Foremen, Superintendents, and QC Engineers should be informed to constantly be on the lookout for any improper use of the cable trays and cables. Proper housekeeping should be a part of all crafts' training on this job."

42. PROCESS CA TO BE TAKEN BY CAG(S) CITED IN BLOCK 41 & DATE OF COMPLETION:

POOR ORIGINAL

43. METHOD OF PROCESS CA VERIFICATION:

44a. SIG. & ORG. RESPONSIBLE FOR PROCESS CA VERIFICATION COMPLETION:

44b. PROCESS CA CONCURRENCE VERIFIED BY/DATE:

1-PHE 1-PHB 1-N(
1-PBA 1-PHF 2-N(
1-PHA 2-PHE
Start Up System: 2-PHA

Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

PAGE 1 OF 6

6. PROJECT NAME:	7. NONCONFORMING PART NO:	8. NONCONFORMING PART NAME:	1. NCR SERIAL NO:
Midland 1 & 2	See Pages 3-6	Cable Installations & Terminations	M-01-9-9-091
9. SERIAL NUMBER:	**10. QUAL. CONDITIONS NO:**	**11. AREA/LOC. OF NC:**	**2. DATE:** 8-28-79
NA	Bechtel QC	Various Locations	**3. DATE OF DET:** NA
			4. ITEM NO: 16.3.6

12. "AS IS" NONCONFORMING CONDITION (NOTE "AS REQUIRED" CONDITION WITH SKETCH):

Inspection Record documentation has been submitted to CPCo QA for review for turnover. This data has been tabulated and appears on pages 3-6 of this report. Drawing revisions referenced on these inspection records reflects those to which the final inspection was made. From review of this documentation, it appears that later revisions to referenced drawings are not being incorporated into the installations after the final inspections have been made or at least there is no evidence or verification of this by Bechtel.

(Contd on Page 3)

13. QA RECOMMENDATION FOR PART QA:

Provide documentary evidence that the installations are in compliance with the latest referenced drawing revision at the time of turnover.

DESIGN/PRODUCT ENG. DISPOSITION REQUIRED [X] NOT REQUIRED [ ]

5. DISTRIBUTION
ACTION COPY:
LADreisbach

INFO COPY:

WLBarclay	DBMiller
WRBird	WGMoring
TCCooke(2)	JFNewgen
JLCorley	JARutgers
RHermeston	RASimanek
SHHowell	DATaggart
DRJohnson	
GSKeeley	
BWMarguglio	
JMilandin	

14. HOLD TAGS APPLIED: YES [ ] NO [X] TAGGED, LOCATION & DATE OF HOLD TAGS APPLIED: NA

15. IS PROCESS QA REQUIRED: YES [X] NO [ ] IF NO, GIVE JUSTIFICATION BELOW:

16. DOES NC AFFECT 4-CERT ITEM: YES [X] NO [ ]	17. IS NC REPORTABLE PER 50.55(e): YES [ ] NO [X]
18. IS NC REPORTABLE PER PART 21: YES [ ] NO [X]	19. IF YES, DATE & TIME OF REPORT TO NRC: NA
20. IF YES, WHO MADE REPORT TO NRC: NA	21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

22. NCR ORIGINATED BY: D. Nott / Paul Kyne

23. VENDOR REPLY REQUIRED BY: 9-11-79
TO ESTABLISH QA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: 8/28/79

25. PART QA DISPOSITION, VERIFICATION & COMPLETION DATE:

POOR ORIGINAL

26. DESIGN/PROJECT ENG. APPL. DISP.:	27. PRO ENG. APPL. DISP.:	28. PROCUREMENT ENG. APPL. DISP.:	29. DATE OF ENG. APPL. FOR QA:
	NA	NA	
30. FAB/CONST. ENG. APPL. DISP. DISP.:	**31. ENG. IF TEST PROG ACCEPT. DISPOSITION:**	**32. FOR VALUE ADD - FIELD ENGR. ENG. APPL. DISP.:**	**33. QA APPL. ENG. TO DISPOSITION:**
NA	NA	NA	

34. METHOD OF PART QA VERIFICATION:

35. ENG. OF ENG. DISP. FOR PART QA REINSPECTING DISPOSITION:	36. ENG. VERIFYING PART QA & HOLD TAG REMOVAL DATE:	37. QA CLOSED NC DATE: (PART & PROCESS QA COMPLETE)

1064 100

Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

M-01-9-9-091

10. CA ASSESSMENT OF ROOT CAUSE(S):

Bechtel's program does not require that drawing compliance be verified after their final inspection.

11. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

12. PROCESS CA REQUIRED FROM:

DESIGN ☐ FABRICATION ☐ CONSTRUCTION ☐ PROCUREMENT ☐ INSPECTION ☐

OTHER _____

13. CA RECOMMENDATION FOR PROCESS CA:

Devise a method to allow certifying to the plan revision in effect just prior to turnover.

POOR ORIGINAL

14. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK #1 & DATE OF COMPLETION:

15. METHOD OF PROCESS CA VERIFICATION:

16. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA IMPLEMENTATION COMPLETION:

17. PROCESS CA COMPLETION VERIFIED BY/DATE:

NCR SERIAL NO: M-01-9-9-091
DATE: 8-28-79
DATE OF REV: NA
FILE NO: 16.3.6

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Contd from Page 1)

The correct cable configuration is indeterminate because drawing changes have occurred since the cables were inspected and there is no documentary evidence to establish that the changes do or do not affect the installation.

NOTE: Of 117 records that were presented to CPCo, only 15 had been inspected to the most current revisions of the referenced documentation. The following list is of the 102 installations that were not inspected or verified to the revision existing at the date of turnover.

		Inspection Criteria Revision Level & Date Inspected											
		E-42			E-900					E-37			Date
S/U System	IR Number	R-39 3/20	R-40 4/25	R-41 6/25	R-30 4/09	R-31 4/30	R-32 5/14	R-33 6/08	R-34 7/05		R-29 7/09	R-30 8/01	Rec By CPCo
1-PHE	0AY3310A		6/07				6/07						8/09
1-PHE	1AB1705M-2		5/29				5/29						8/09
1-PHE	1AB1705M-1		5/29				5/29						8/09
1-PHE	1AB1705F-2		5/12			5/12							8/09
1 PHE	1AB1705F-1		5/13			5/13							8/09
1-PHE	1AB1705E-2	4/26			4/26								8/09
1-PHE	1AB1705E-1		5/13			5/13							8/09
1-PHE	1AB1705D-1		5/13			5/13							8/09
1-PHE	1AB1705D-2	4/26			4/26								8/09
1-PHE	1AB1705M	4/27								R-26 4/27			8/09
1-PHE	1AB1705A			7/20							7/20		8/09
1-PHE	1AB1705B			7/20							7/20		8/09
1-PBA	1AA0001G-1		6/04				6/04						8/09
1-PBA	1AA0001G-2		6/04				6/04						8/09
1-PBA	1AA0001H-1		6/04				6/04						8/09
1-PBA	1AA0001H-2		6/11				6/11						8/09
1-PBA	1AA0001K-1		6/04				6/04						8/09
1-PBA	1AA05001A-1		5/10		5/10								8/09
1-PBA	1AA05001A-2		5/12			5/12							8/09
1-PBA	1AA05001B-1		5/29			5/29							8/09
1-PBA	1AA0501A-1		5/10		5/10								8/09
1-PBA	1AA0501A-2	4/03			R-28 4/03								8/09
1-PBA	1AA0501C-2	4/26			4/26								8/09
1-PBA	1AA0501D-1	4/03			R-28 4/03								8/09
1-PBA	1AA0501E-1		5/10		5/10								8/09
1-PBA	1AA0501D-2	R-38 3/15			R-27 3/15								8/09
1-PBA	1AA0501E-2	4/03			R-28 4/03								8/09
1-PBA	1AA0502H-2	4/26			4/26								8/09
1-PBA	1AA0502J-2	4/26			4/26								8/09

NCR SERIAL NO: M-01-9-9-091
DATE: 8-28-79
DATE OF REV: NA
FILE NO: 16.3.6

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Contd from Page 3)

S/U System	IR Number	E-42 R-39 3/20	E-42 R-40 4/25	E-42 R-41 6/25	E-900 R-30 4/09	E-900 R-31 4/30	E-900 R-32 5/14	E-900 R-33 6/08	E-900 R-34 7/05	E-37	E-37 R-29 7/09	E-37 R-30 8/01	Date Rec B CPCo
1-PBA	1AA0502N-1		5/10		5/10								8/09
1-PBA	1AA0502N-2	4/03			R-28 4/03								8/09
1-PBA	1AA0502P-1		5/10		5/10								8/09
1-PBA	1AA0502P-2	4/03			R-28 4/03								8/09
1-PBA	1AA0502S-1		5/10		5/10								8/09
1-PBA	1AA0502S-2	4/03			R-28 4/03								8/09
1-PBA	1AA0502T-1		5/13			5/13							8/09
1-PBA	1AA0502T-2		5/14			5/14							8/09
1-PBA	1AA0502V-1		5/12			5/12							8/09
1-PBA	1AA0502V-2	R-38 3/15			R-27 3/15								8/09
1-PBA	0AY3307A-2		6/08				6/08						8/09
1-PBA	1AA0500IA	R-36 1/31								R-23 1/31			8/09
1-PBA	1AA0001K		5/25							R-27 5/25			8/09
2-PHA	2AB1702D-2		5/12			5/12							8/20
2-PHA	2AB1702E-2		5/12			5/12							8/20
2-PHA	2AB1702F-2	R-38 3/08			R-27 3/08								8/20
2-PHA	2AB1702M-2		5/12			5/12							8/20
2-PHA	2AB1702M-1		5/12			5/12							8/20
2-PHA	2AB1702M	R-37 2/17								R-24 2/17			8/20
1-PHB	1BB1801D-1		6/06				6/06						8/20
1-PHB	1BB1802D-2	4/03			R-28 4/03								8/20
1-PHB	1BB1802E-2	4/03			R-28 4/03								8/20
1-PHB	1BB1802F-1		6/06				6/06						8/20
1-PHB	1BB1802M-1		5/31				5/31						8/20
1-PHB	1BB1802M-2		5/30				5/30						8/20
1-PHF	1BB1805D-1		6/06				6/06						8/20
1-PHF	1BB1805D-2		6/12				6/12						8/20
1-PHF	1BB1805E-1		6/06				6/06						8/20
1-PHF	1BB1805E-2		6/12				6/12						8/20
1-PHF	1BB1805F-1		6/06				6/06						8/20
1-PHF	1BB1805M-1		5/30				5/30						8/20
1-PHF	1BB1805M-2		5/30				5/30						8/20

NCR SERIAL NO: M-01-9-9-091
DATE: 8-28-79
DATE OF REV: NA
FILE NO: 16.3.6

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Contd from Page 4)

S/U System	IR Number	E-42 R-39 3/20	E-42 R-40 4/25	E-42 R-41 6/25	E-900 R-30 4/09	E-900 R-31 4/30	E-900 R-32 5/14	E-900 R-33 6/08	E-900 R-34 7/05	E-37	E-37 R-29 7/09	E-37 R-30 8/01	Date Rec B CPCo
2-PHE	2AB1705M-1		5/04		5/04								8/20
2-PHE	2AB1705M-2		5/12			5/12							8/20
2-PHE	0AY3312A-2		6/07				6/07						8/20
2-PHE	2AB1705F-2	R-38 3/08			R-27 3/08								8/20
2-PHE	2AB1705D-2	4/30			4/30								8/20
2-PHE	2AB1705M	R-37 2/17								R-24 2/17			8/20
1-PHA	1AB1702D-1		5/13			5/13							8/21
1-PHA	1AB1702D-2		5/12			5/12							8/21
1-PHA	1AB1702E-2		5/12			5/12							8/21
1-PHA	1AB1702F-1		5/13			5/13							8/21
1-PHA	1AB1702M-1		5/12			5/12							8/21
1-PHA	1AB1702M-2		5/24				5/24						8/21
1-PHA	1AB1702M		4/27							R-26 4/27			8/21
1-NGE	1AA0505C-1		5/10		5/10								8/21
1-NGE	1AA0505C-2	4/03			R-28 4/03								8/21
1-NGE	1AA0505E-2	4/03			R-28 4/03								8/21
1-NGE	1AA0505H-2		6/04			6/04							8/21
1-NGE	1AA0505K-1	4/03			R-28 4/03								8/21
1-NGE	1AA0505K-2	R-38 3/15			R-27 3/15								8/21
1-NGE	1AA0505B-1		5/10		5/10								8/21
1-NGE	1AA0505B-2	4/03			R-28 4/03								8/21
1-NGE	1AA0505J		6/21							R-28 6/21			8/21
2-NGE	2AA0505B-2		5/04		5/04								8/21
2-NGE	2AA0505C-2		5/12			5/12							8/21
2-NGE	2AA0505E-2		5/12			5/12							8/21
2-NGE	2AA0505H-2		5/12			5/12							8/21
2-NGE	2AA0505K-1	4/30			4/30								8/21
2-NGE	2AA0505K-2	R-38 3/15			R-27 3/15								8/21
2-NGE	2AA0505L-1	R-38 3/14			R-27 3/14								8/21
2-NGE	2AA0505L-2		5/12			5/12							8/21
2-NGE	2AA0505B	R-36 1/26								R-23 1/26			8/21
2-NGE	2AA0505C	R-36 1/26								R-23 1/26			8/21

NCR SERIAL NO: M-01-9-9-091
DATE: 8-28-79
DATE OF REV: NA
FILE NO: 16.3.6

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Contd from Page 5)

S/U System	IR Number	E-42 R-39 3/20	E-42 R-40 4/25	E-42 R-41 6/25	E-900 R-30 4/09	E-900 R-31 4/30	E-900 R-32 5/14	E-900 R-33 6/08	E-900 R-34 7/05	E-37	E-37 R-29 7/09	E-37 R-30 8/01	Date Rec B CPCo
2-NGE	2AA0505K	R-37 2/16								R-24 2/16			8/21
2-NGE	2AA0505E	R-37 2/14								R-24 2/14			8/21
2-NGE	2AA0505L	R-36 1/26								R-23 1/26			8/21
2-NGE	2AA0505J		6/21							R-28 6/21			8/21
2-NGE	2AA0505H	R-37 2/16								R-24 2/16			8/21
2-NGE	2AA0505B-1	R-38 3/14			R-27 3/14								8/21
2-NGE	2AA0505C-1	R-38 3/14			R-27 3/14								8/21
2-NGE	2AA0505E-1		6/25					6/25					8/21
2-NGE	2AA0505H-1		5/12			5/12							8/21

OEAA
OPHM
Start Up System: OEAB

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-01-9-9-092
Midland 1 & 2	OB-68, OB-69 & 2B-63	States Terminal Blocks	2. DATE: 8-29-79
9. SERIAL NUMBER: NA	10. ORG. CONTRACTING NO: Bechtel Construction	11. AREA/LOC. OF NC: 634' Elevation Service Water Bldg	3. DATE OF INSP: NA
			4. FILE NO: 16.3.4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH DATA:

Tech Spec 7220-E-7, paragraph 6.5.9 states that, "Terminal blocks and terminals shall meet the requirements of the attached drawing, 7220-E-50. Except that type ZWM terminal block shall be used".

Contrary to the requirements of Drawing E-50, terminal blocks indicated in the following equipment are marked and color identified in contrast to the marking and color of terminated cables.

(Contd on Page 3)

5. DISTRIBUTION
ACTION COPY:
LADreisbach

INFO COPY:

WLBarclay	DBMiller
WRBird	WGMoring
TCCooke(2)	JFNewgen
JLCorley	JARutgers
RHermeston	RASimanek
SHHowell	DATaggart
DRJohnson	
GSKeeley	
BWMarguglio	
JMilandin	

13. QA RECOMMENDATION FOR PART 21A:
Construction to determine if the cables are to the correct equipment and, if they are, install the correct terminal block marker strip per Drawing E-50.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [ ] NOT REQUIRED [X]

14. HOLD TAGS APPLIED: YES [ ] NO [X] TAGGED, LOCATION & DATE OF HOLD TAGS APPLIED: NA

15. IS PROCESS QA REQUIRED: YES [X] NO [ ] IF NO, ENTER JUSTIFICATION BELOW:

16. DOES NC AFFECT 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: Stephen L Jones

23. WRITTEN REPLY REQUIRED BY: 9-13-79
TO ESTABLISH QA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: Frank Kuzen

25. PART 21 DISPOSITION, QA RECOMMENDATION & COMPLETION DATE:

POOR ORIGINAL

26. DESIGN/PROJECT ENG. AUTH. DISP.: NA	27. QAD ENG. AUTH. DISP.:	28. PROCUREMENT ENG. AUTH. DISP.: NA	29. ENG. OF ORG. AUTH. FOR N/A:
30. FAB/CONST. ENG. AUTH. DISP.:	31. ENG. OF TEST PROG AUTH. CONCURRENCE: NA	32. PUR MATLS MGR / P.E. DEPT. ENG. AUTH. DISP.: NA	33. QA AUTH. ENG. TO DISPOSITION DISP.:

34. METHOD OF PART 21A RECTIFICATION:

35. ENG. OF ORG. DISP. FOR PART 21A RECTIFYING CONCURRENCE:	36. ENG. VERIFICATION PART 21A & HOLD TAG REMOVAL DATE:	37. NCR CLOSED BY: DATE: (PART 21 PROCESS QA COMPLETE)

Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

M-01-9-9-092

38. QA ASSESSMENT OF ROOT CAUSE(S):

To be determined.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA FEATURES (Mark):

DESIGN ☐ FABRICATION ☐ CONSTRUCTION ☒ PROCUREMENT ☐ INSPECTION ☒

OTHER _____

41. QA RECOMMENDATION FOR PROCESS CA:

It is recommended that construction personnel involved with cable terminations receive training to never terminate a cable to a terminal block that has a different color than the channel identification color shown on the cable and/or permanent cable marker. This should also be included in the QCI by Quality Control.

42. PROCESS CA TO BE TAKEN BY ORG(S) ASSIGNED 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 (DATE):

NCR SERIAL NO: M-01-9-9-092
DATE: 8-29-79
DATE OF REV: NA
FILE NO: 16.3.4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Contd from Page 1)

The following table indicates the equipment number, the terminal block number and color. It also indicates the cable numbers and cable channel colors terminated to each block:

Equipment No	Terminal Block No	Terminal Block Color	Cable Scheme No	Cable Channel Color
OB-68	OAB6805	Red	OBB6805A	Green
			OBB6805H	Green
	OAB6803	Red	OBB6803M	Green
			OBB6803N	Green
			OBB6803L	Green
	CAB6804	Red	OBB6804M	Green
			OBB6804L	Green
OB-69	OBB6905	Green	OAB6905H	Red
			OAB6905A	Red
			OAB6905C	Red
	OBB6903	Green	OAB6903N	Red
			OAB6903M	Red
			OAB6903L	Red
	OBB6907	Green	OAB6907C	Red
2B-63	2BB6302	Green	2AB6302G	Red
			OAW031N	Red
	2BB6301	Green	2AW014C	Red
	2BB6304	Green	2AB6304B	Red

These cable terminations had not been inspected by Quality Control.

Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

6. PROJECT NAME:	7. NONCONFORMING PART NO:	8. NONCONFORMING PART NAME:	1. NCR SERIAL NO:
Midland 1 & 2	Panels 2B43, 1B43, 1B23, 1B24, 1B56, 2B55, 2B44, 2B24, 2B56	Space Heaters enclosed in 460 volt	M-01-2-8-082
9. SERIAL NUMBER:	**10. ORG. CONCERNING NC:**	**11. AREA/LOC. OF NC:**	**2. DATE:**
NA	Bechtel Field Eng. & QC	MCC. Aux. Bldg. El. 614	10-16-78
			3. DATE OF REV: Closed 8-17-79
			4. FILE NO: 16.3.4, 16.3.6

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

Maintenance information for 460 volt MCC's, form F-10-95 Rev. 0 Section 2.2.3 requires that the heater be inspected and documented for proper function at intervals not to exceed 90 days. Eighty percent of the panels in the switchgear room were investigated for heat application to the panels. Ten percent of the space heaters were investigated and less than 1% of the space heaters were found satisfactory. Many wires were found corroded with at least ten wires burned off from the heater termination. Also, Bechtel Quality Control had only performed one QC inspection for a six month period. The F-20 form documented on 9/21/78 indicated that the heaters were functionally inspected but judging from the amount of corrosion and burned wires found, it is considered doubtful that this inspection was actually made as required by F-10.

5. DISTRIBUTION

ACTION COPY:

LADreisbach

INFO COPY:

WLBarclay, WRBird, TCCooke, JLCorley, RHermeston, SHHowell, DRJohnson, GSKeeley, BWMarguglio, PAMartinez, JMilandin, DBMiller, WMoring, JFNewgen, DATaggart

13. QA RECOMMENDATION FOR PART A:

1. Provide heat for the 460 volt MCC's where the permanent space heaters are inoperative.
2. Evaluate heater corrosion and wiring failure. Take action to rewire the panels.
3. Inspect all 460 volt panels for possible damage resulting from this nonconforming condition.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [X] NOT REQUIRED [ ]

14. HOLD TAGS APPLIED: YES [ ] NO [X] NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: NA

15. IS PROCESS 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: W.B. Berbert 10/16/78	23. WRITTEN REPLY REQUIRED BY: 11-6-78 TO ESTABLISH CA COMPLETION DATE	24. SUPERVISOR'S SIGNATURE/DATE: Paul Lyon 10/17/78	

25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

LADreisbach letters LAD-523 dated 11-7-78 and LAD-560 dated 11-22-78.

POOR ORIGINAL

26. DESIGN/PROJECT SIG. AUTH. DISP.: LAD-523	27. PMO SIG. AUTH. DISP.: NA	28. [illegible] CONC. DISP.: 523	29. SIG. OF ORG. RESP. FOR C/A: LAD-523
30. FAB/CONST. SIG. AUTH. DISP.: NA	31. SIG. OF TEST GROUP ACTION, CONDITION: NA	32. [illegible] MOD - PLT. SUPT. SIG. AUTH. DISP.: NA	33. QA AUTH. SIG. TO IMPLEMENT DISP.: D. Nadt

34. METHOD OF PART CA VERIFICATION:

Visual inspection to ensure new heaters installed and operating satisfactory.

35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION: LAD-523	36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE: D. Nadt 8/17/79	37. NCR CLOSED BY/DATE: (PART & PROPER CA COMPLETE) 8/17/79

Document Control (1141-31442-73*10*03)

Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT

NCR SERIAL NUMBER: M-01-2-8-082

38. QA ASSESSMENT OF LIKELY CAUSE(S):

(Unknown) possible design/fabrication error for technical problem and QC inspection error for missing inspection.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

LAD-523

40. PROCESS CA REQUIRED FROM:

DESIGN [ ] FABRICATION [ ] CONSTRUCTION [ ] PROCUREMENT [X] INSPECTION [X]

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

1. Project Engineering should make an evaluation to determine the cause of heater wires corroding and the wires being burned off from the heater termination.
2. Bechtel QC should determine the cause for the inspection error and take necessary action to preclude repetition.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

LAD-523 and LAD-560

POOR ORIGINAL

43. METHOD OF PROCESS CA VERIFICATION:

Verified by visual inspection all heaters replaced, Plan E7-71-4 issued with note #3 added which specifies space heater catalog number of new heaters.

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

LAD-560

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

D. Nott 8/17/79

CONSTRUCTION
PART 50-82
FILE NUMBER
SER 2 OF 2

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

JLC	
DRK	
RGW	
XPRK	
XEJS	
QE	
FILE	

Job 7220 Midland Project
CPCo letter 123FQA79 dated
April 11, 1979
LAD-951 Action Item-691

Dear Mr. Corley:

References: CPCo NCR M-01-2-8-082
Bechtel letter LAD-523 dated 11/7/78, Dreisbach to Corley
Bechtel letter LAD-560 dated 11/22/78, Dreisbach to Corley
Bechtel letter LAD-623 dated 1/9/79, Dreisbach to Corley

NCR M-01-2-8-082 reported numerious cases where space heaters in 460 volt motor control centers (MCCs) had malfunctioned. Bechtel resolved these concerns by obtaining larger heaters and installing them in the MCC units, although the new heater's part number was not reflected in the vendor drawings. To resolve this concern CPCo issued the subject letter requesting Bechtel to provide a means to identify the proper space heater.

In response to the subject letter Bechtel has revised vendor print 7220-E7-71 to identify the proper space heater.

This is considered to be a complete response to the subject letter. If further assistance is necessary, please contact the writer.

Very truly yours,

E. Smith

for L. A. Dreisbach
Project Quality Assurance
Engineer

LAD/RCH/bsm

cc: W. Bird
B. Marguglio

CONSUMERS POWER COMPANY
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JUN 21 1979
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MIDLAND, MICHIGAN

CONSUMERS POWER COMPANY
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JAN 12 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640

January 9, 1978

Consumers Power Company
P.O. Box 1963
Midland, MI 48640

Attention: J. L. Corley

Job 7220 Midland Project
CPCo NCR M01-2-8-082 dated 10/16/78
LAD: 623 Action Item: 465

Dear Mr. Corley:

References: Bechtel Letter LAD-523 Dated 11/7/78, Dreisbach to Corley.
Bechtel Letter LAD-560 Dated 11/22/78, Dreisbach to Corley.

This is a partial response to the subject nonconformance report concerning inoperative space heaters located in 460 volt motor control centers.

The replacement of the existing space heaters with the redesigned heaters has been verified by Quality Control as complete. This action has been documented on Quality Control Field Inspection Reports dated 11/2/78 and 12/21/78.

The remaining item to be resolved concerns the up-dating of the vendor print to reflect the space heater identity. Resolution of this concern will be made by 1/26/79.

To preclude repetition of the concerns expressed with the subject NCR, Quality Control made a careful evaluation of the storage and maintenance program. This evaluation resulted in the complete re-organization of the QC storage and maintenance inspection personnel. New personnel have been assigned and instructed in the storage and maintenance program.

If further assistance and/or clarification is necessary, please contact the undersigned.

Very truly yours,

L A Dreisbach

L. A. Dreisbach
Project Quality Assurance Engineer

LAD/RCH/re

cc: W. Bird
B. Marguglio
J. Milandin
P. Martinez
W. Moring
W. Barclay
S. Matthews

JLC
BRK
RGW
PRK
QE
FILE

1064 172

CONSUMERS POWER COMPANY
RECEIVED
NOV 22 1978
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640

November 22, 1978

Consumers Power Company
P.O. Box 1963
Midland, MI 48640

Attention: J. L. Corley

Job 7220 Midland Project
CPCo NCR M01-2-8-082 dated 10/16/78
File: 2610
LAD: 560 Action Item: 465

Dear Mr. Corley:

Reference: Bechtel letter LAD-523 dated 11/7/78, L. A. Dreisbach to J. L. Corley.

This response addresses Part Corrective Action #3 and Process Corrective Action #2 of the subject NCR concerning inoperative space heaters located in 460 volt MCC's. The remaining concerns of the subject NCR were addressed in Bechtel's response referenced above.

All installed 460 volt MCC's were checked by Quality Control Electrical and verified that all space heaters were operational. Results of the inspection are documented in a Field Inspection Report dated 11/2/78 and filed with the maintenance inspection record F-10-95 maintained by the Q.C. Vault.

Investigation of the F-10 records uncovered an incorrectly filed F-20 report for F-10-95 which had not been submitted to the Mechanical Quality Control Engineering Supervisor for initialing. Therefore, the inspection maintenance information record (F-20-1503, dated June 1978) was not turned over to the Quality Control vault for central filing. This document will be forwarded to the vault after completion of the proper Q.C. review.

A final response will be issued when retrofit of the new space heaters are complete, which is expected by January 2, 1979.

Very truly yours,

E. Smith

for L. A. Dreisbach
Project Quality Assurance Engineer

X JLC	
DRK	
RGW	
X PRK	
X WNB	
QE	
FILE	

LAD/RH/re

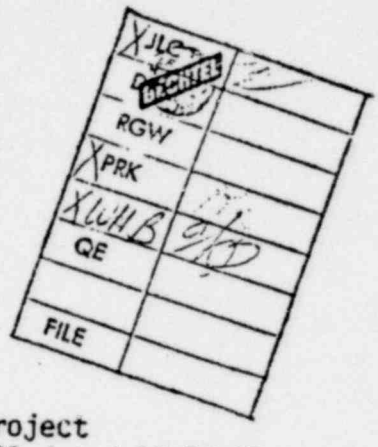
1064 173

CONSUMERS POWER COMPANY
RECEIVED
NOV 7 1978
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640

November 7, 1978



Consumers Power Company
P.O. Box 1963
Midland, MI 48640

Attention: J. L. Corley

Job 7220 Midland Project
CPCo NCR M01-2-8-082 dated 10-16-78
File: 2610
LAD: 523 Action Item: 465

Dear Mr. Corley:

This is a partial response to the subject NCR concerning inoperative space heaters located in 460 volt MCC's.

All existing space heaters in the 460 volt MCC's were checked for proper operation, those with burned wires or corroded connections have been reterminated. This is an interim fix until new space heaters can be installed.

This discrepancy had been identified to the vendor, ITE, who in turn redesigned and fabricated a space heater where the terminal connections are not directly on the heated portion of the strip.

Replacement of the existing space heaters with the redesigned heaters, which are on site, will commence upon receipt of the related "Q" documentation package from ITE.

A complete retrofit of the new heaters is expected by January 2, 1979.

Quality Control will provide surveillance inspection of material maintenance activities to assure that proper verification of heater operation is being performed in accordance with F-10 requirements.

This response addresses Part Corrective Action 1 and 2 and Process Corrective Action 1 of the subject NCR. The remaining concerns will be addressed by Quality Control on or before 11-14-78.

Very truly yours,

LADreisbach

L. A. Dreisbach
Project Quality Assurance Engineer

LAD/RH/re

W. Barclay
W. Bird
T. Cooke
R. Hermeston
R. Simanek
W. Moring
B. Marguglio
P. Martinez
J. Milandin
D. Taggart
J. Newgen

1064.174

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-01-4-8-099
Midland	All Limitorque MOV's	Limitorque MOV's	2. DATE: 11-22-78
9. SERIAL NUMBER:	10. ORG. CONCERNED NC:	11. AREA/LOC. OF NC:	3. DATE OF DISP: Closed 8-20-79
NA	Bechtel F.E.	Warehouse & Plant	4. FILE NO: 16.3.4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

Few "Limitorque" motor operated valve contacts have been sprayed with electrical contact perservative as required by Bechtel storage requirements and manufacturer's instructions. The manufacturer's long term storage procedure dated August 13, 1976 states that "For storage situations of one or two years maximum, spray electrical contacts with CRC No. 2-26 and for storage situations between two and five years, spray electrical contacts with CRC Electra Shield Spray Coating".

5. DISTRIBUTION

ACTION COPY:

LADreisbach

INFO COPY:

WLBarclay	DBMiller
WRBird	WMoring
TCCooke	JFNewgen
JLCorley	RASimanek
RHermeston	DATaggart
SHHowell	
GSKeeley	
BWMarguglio	
PAMartinez	
JMilandin	

13. QA RECOMMENDATION FOR PART QA:

Since the motor operated valve contacts have not been sprayed initially, spray the contacts and revise the maintenance requirement F-10-92 form to include the requirement for spraying electrical contacts and identify which MOV's have been sprayed on the F-20 forms.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [ ] NOT REQUIRED [X]

14. HOLD TAGS APPLIED: YES [ ] NO [X] NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: NA

15. IN 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 ORIGINATED BY: W H Bankert 11/22/78	23. WRITTEN REPLY REQUIRED BY: ~~12-07-78~~ TO ESTABLISH QA COMPLETION DATE 12-29-78
	24. SUPERVISOR'S SIGNATURE/DATE: J K Corley 11/22/78

25. PART QA DISPOSITION, JUSTIFICATION & COMPLETION DATA:

Reviewed forms F-20-2117 on 8-20-79 and found no evidence of corrosion.

POOR ORIGINAL

26. DESIGN/PROJECT RES. AUTH. DISP.:	27. ENG RES. AUTH. DISP.:	28. PROCUREMENT RES. AUTH. DISP.:	29. RES. OF AUTH. DISP. FOR QA:
NA	NA	NA	See Letter LAD-891
30. FAB/CONST. RES. AUTH. DISP.: NA	31. RES. OF TEST GROUP ACCEPT. CONDITION: NA	32. FOR MAJOR MOD - FCR. SUPT. RES. AUTH. DISP.: NA	33. QA AUTH. RES. TO IMPLEMENT DISP.: See Letter LAD-891 Dated 5/15/79

34. METHOD OF PART QA VERIFICATION:

Reviewed F-20-2117 on 8/20/79.

35. RES. OF AUTH. DISP. FOR PART QA SUBSTANTIVE COMPLETION: See Bechtel Letter LAD-891 Dated 5/15/79	36. RES. VERIFYING PART QA & HOLD TAG REMOVAL DATA: Donald C Hendricks	37. ACCEPTED BY/DATE: Paul Byron

1064 175

Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

M-01-4-8-099
NCR SERIAL NUMBER:

38. QA ASSESSMENT OF ROOT CAUSE(S):

Bechtel has taken an exception to the vendor's requirement in a letter by Newgen to Richardson dated March 28, 1978.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY CF [illegible] INITIALS FOR PROCESS CA):

40. PROCESS CA ACQUIRED FROM:

DESIGN [ ] FABRICATION [ ] CONSTRUCTION [X] PROCUREMENT [ ] INSPECTION [ ]

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

Maintenance requirement F-10-92 to include spraying MOV contacts and identify the MOV's that are sprayed and inspected.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

See Bechtel letter LAD-891 dated 5/15/79.

POOR ORIGINAL

43. METHOD OF PROCESS CA VERIFICATION:

Reviewed forms F-20-2117 on 8-20-79 and found no evidence of corrosion.

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SATISFYING COMPLETION:

See Bechtel Letter LAD-891 Dated 5/15/79

45. PROCESS CA COMPLETION [illegible] VERIFIED:

Donald E. Richards 8/22/79

CONSUMERS POWER COMPANY
RECEIVED
MAY 16 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640

May 15, 1979

Consumers Power Company
P.O. Box 1963
Midland, MI 48640

Attention: J. L. Corley

Job 7220 Midland Project
CPCo NCR M-01-4-8-099
Final Response
LAD: 891 Action Item: 511

Dear Mr. Corley:

Reference: Bechtel letter LAD-739 dated March 12, 1979, L. A. Dreisbach to J. L. Corley

The subject NCR concerns the in-place storage and maintenance of Limitorque operators on motor operated valves not meeting manufacturer's instructions.

To resolve the subject concerns the following actions have been taken:

1) Limitorque has responded to a Bechtel request that the storage procedure currently being implemented on the Midland Project meets the intent of Limitorque's storage procedure P-323.
2) Motor operators not located in a heated environment have had the switch contacts cleaned and sprayed with CRC CR2-26 protective coating. This action is documented on Maintenance Inspection report F-20-2117.

This letter is considered to be a complete response to the subject NCR. If further assistance be necessary please contact the writer.

Very truly yours,

L. A. Dreisbach
Project Quality Assurance Engineer

LAD/RCH/cb

cc: W. Bird
B. Marguglio

X JLC	
DRK	
BGW	
X PRK	
X AMB	
QE	
FILE	

(F-20-247)

BECHTEL

FIELD INSPECTION REPORT

3. RECORD CONTROL
CONTROL NO. _____
FILE NO. F-10-9

1. PROJECT NO. 7220 2. DATE 11/21/78 PAGE 1 OF 1

4. ITEM INSPECTED Inspection of Fusion Operated Valves 2 in the Fuel Handling Bldg 2 in Pit West of the Generator Bldg. Valves were closed Between seats and exposed Contacts to visual examination. No Corrosion was existing on operators. CRC was to be sprayed on contacts after and the enclosure again installed in Valves. Valves are Limitorque SMB-0"

5. LOCATION Fuel Handling Bldg & Pit West of Generator Bldg

6. TYPE OF INSPECTION Opened up the contacts portions of the Valve and Visually checked the contacts

7. STANDARD / CODE / PROCEDURE / DRAWING / SPECIFICATION Inspection is conducted every 2 days to determine if condition of contacts is satisfactory. Contacts are sprayed with CRC contact protector and closed

8. INSPECTION EQUIPMENT USED Visual

POOR ORIGINAL

9. RESULTS OF INSPECTION. SATISFACTORY ☒ UNSATISFACTORY ☐

10. ACTION TAKEN IF UNSATISFACTORY _____

Inspected Bill Millus
Bill Bankston
Dick Hollis
Paul Kraus

1064 178

Distribution:
White – QC Files
Canary – Originator

11. ENGINEER Paul Lebrun

2514 (7-73)

QC-G1

(s): Motor Operated Valves

Equip. No. (s): See P.O.'s or Valve Identification Index

Sheet 1 of

Quality Classifi: [X] Q [ ]

P.O. No. or Spec. See Para. 2.3

CIRC WATER EL: 623 WELL PIT EL: 615.8

CHECK LIST

DESCRIPTION

POOR ORIGINAL

1.0 Maintenance and Inspection Activities

1.1 Perform and document the following at intervals not to exceed 90 days.

1.1.1 Visually inspect valves for the presence of identification and its legibilit

1.1.2 Visually inspect for physical damage.

1.1.3 Assure all conduit openings are plugged or taped.

1.1.4 Correct any deficiencies.

1.2 Perform and document the following on 3 valves in one of the areas (areas 1 through 4 when applicable) at 90 day intervals. A different area shall be selected for each inspection to assure that all areas will be inspected.

1.2.1 Remove contact compartment cover and visually inspect for the presence of a corrosion free condition on the contacts and the compartment cover gasket bearing surfaces of the cover and the valve body. (See Paragraph 2.1). Replace cover and gasket.

2.0 Notes

2.1 If any action is considered necessary, the recommendations shall be submitted t the material maintenance engineer for disposition. The recommendations shall b twofold. First, a recommendation shall be made to increase the number of valve to be inspected (based upon the total number of valves installed in a given area second, upon completion of the expanded inspection, corrective action shall be outlined and the valves requiring corrective action shall be identified. (See paragraph 3.0 of F-1-390).

2.2 Space heaters in motor limit switch compartment are not to be energized.

2.3 This F-10 Form includes all motor operated valves received on P.O.'s 7210-M117, M120, M123A, B, and C, M125, A, B, and C, M127C, M129B, M132, M134 and 32553.

3.0 Reference Information

3.1 FPG-5.000.

3.2 Letter BCCC-3191R from J. F. Newgen to T. C. Cooke (CPCo) dated March 24, 1978.

1.2.1 { CIRC WTR BLDG U-46036 U-46046 S-245761 S-245767 }

1.21 { WELL PIT U-46052 U-46056 S-247910 S-247909 }

Check List Code:
X Requirement(s) Accomplished
G See Comments
C Disposition Required

Documented & Verified by

QC [illegible] 11/21/78

QC [illegible] 11/24/78

F-10-2.117 Sheet 1 of 1

QC INSPECTION REQ.

ITEM	CODE	QCI	DATE
1.1.1	I-V	F.I.	11-21-78
1.1.2	S-V	F.I.	
1.1.3	S-V	F.I.	
1.1.4	W	N/A F.I.	
1.2	S-B	F.I.	
1.2.1	S-V	F.I.	4

F-10 Approvals

ME [signature]

PROCE [signature]

EE [signature]

1064 179

Start Up System: Non-Testable
Unit #1

Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

6. PROJECT NAME:	7. NONCONFORMING PART NO:	8. NONCONFORMING PART DESC:	1. NCR SERIAL NO:
Midland 1 & 2	NA	Concrete Represented by Ticket 31425	M-01-9-9-051
9. SERIAL NUMBER:	**10. ORG. CONCERNED:**	**11. AREA/LOC. OF NC:**	**2. DATE:**
NA	Bechtel Field Engr, Proj Engr, & QC	Containment I Pour C(687.75)a	6-6-79
			3. DATE OF DISP: Closed 8-16-79
			4. REF NO: 16.3.1, 16.3.4, 16.3.6

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION (WHY KEPT):

Section 17.1.1.13 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 drums are turned at agitating speeds and not at mixing speed because the concrete is completely mixed before being loaded, as evidenced by the mixer uniformity tests of ASTM C-94".

Contrary to the above, the Quality Control In-Process 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)

13. QA RECOMMENDATION FOR PART CA:

Project Engineering should evaluate the concrete in place per this NCR for its ability to satisfy the design requirements.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [X] NOT REQUIRED [ ]

5. DISTRIBUTION

ACTION COPY:

LADreisbach

INFO COPY:

WLBarclay	JMilandin
WRBird	DBMiller
RLCastleberry	WGMoring
TCCooke	JFNewgen
JLCorley	ERumbaugh
RHermeston	RASimanek
SHHowell	DATaggart
DRJohnson	
GSKeeley	
BWMarguglio	
PAMartinez	

14. HOLD TAGS APPLIED: YES [X] NO [ ] NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: 8 Bechtel Hold Tags - 4 on lifting lug and 4 on hold down bolts

15. IS PROCESS CA REQUIRED: YES [X] NO [ ] IF NO, ENTER JUSTIFICATION BELOW:

16. DOES NC AFFECT 2-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: 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: Michael J Dameron

23. VERIFIED REPLY REQUIRED BY: 6-20-79 TO ESTABLISH CA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: Donald E. Stevenson 6-6-79

25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

Bechtel's Part CA disposition is "use as is" with justification as indicated in Bechtel Nonconformance Report 1931 (Closed).

POOR ORIGINAL

26. DESIGN/PROJECT SIG. AUTH. DISP.:	27. PMO SIG. AUTH. DISP.:	28. PROCUREMENT SIG. AUTH. DISP.:	29. SIG. OF SUB. RESP. FOR N/A:
Refer to NCR 1931	NA	NA	Refer to LAD-1021
30. FAB/CONST. SIG. AUTH. DISP. DISP.:	**31. SIG. OF TEST GROUP ACCEPT. CONDITION:**	**32. FOR VALVES ONLY - PSE CONST. SIG. AUTH. DISP.:**	**33. QA AUTH. SIG. TO DOCUMENT DISP.:**
Refer to LAD-1021	NA	NA	Michael J Dameron 8-17-79

34. METHOD OF PART CA VERIFICATION:

Reviewed NCR 1931 and LAD-1021.

1064 180

35. SIG. OF QAG. VERIF. FOR PART CA VERIFYING COMPLETION:	36. SIG. VERIFYING PART CA & HOLD TAG REMOVAL DATE:	37. NCR CLOSED BY/DATE: (PART A PROCESS CA COMPLETE)
Refer to LAD-1021	3 tags removed 1 lost, 4 unknown Michael J Dameron 8-17-79	Michael J Dameron 8-17-79

Document Control (1141-1-00210-0200A-73X10X03)

Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

M-01-9-9-051

38. CA ASSESSMENT OF ROOT CAUSE(S):

Unknown, to be determined.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

Since this is a specification requirement and the responsible field engineer was aware of this requirement at the time, it appears that the load was mistakenly remixed instead of agitated.

40. PROCESS CA RECEIVED FROM:

DESIGN [X] FABRICATION [ ] CONSTRUCTION [X] PROCUREMENT [ ] INSPECTION [X]

OTHER

41. CA RECOMMENDATION FOR PROCESS CA:

Unknown, to be determined.

POOR ORIGINAL

42. PROCESS CA TO BE TAKEN BY ORG(S) CITED IN BLOCK 41 & DATE OF COMPLETION:

Project Engineering has issued a memorandum stating that increasing the agitating speed of the drum, after the concrete has been added, is an unacceptable solution for concrete with high sump and/or high air content. Specification 7220-C-230 sets forth ASTM C94-1972 as one of the governing standards for ready mixed concrete, unless otherwise specified.
The Lead QCE conducted a training session on 8/6/79 on remixing of concrete. The subject was mixing speeds vs agitating speeds. Remixed concrete is not to be placed.

43. METHOD OF PROCESS CA VERIFICATION:

Reviewed training session (QCFM 6472) held by QC on 8/6/79, Project Engineering Memorandum BEBC-2844, and LAD-1021.

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA IDENTIFYING COMPLETION:

Refer to LAD-1021

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

Richard J. Ramsey 8-17-79

NCR SERIAL NO: M-01-9-9-051
DATE: 6-6-79
DATE OF REV: Closed 8-16-79
FILE NO: 16.3.1, 16.3.4, 16.3.6

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED CONDITION WITH REFS:

(Contd from Page 1)

The batch plant delivery ticket 31425 indicated 358 revolutions from time of batching to time of complete discharge of 1 hour 6 minutes. The average discharge revolutions for other trucks in this pour were 24 and average times between batching and complete discharge were 22.5 minutes.

CONSUMERS POWER COMPANY
RECEIVED
JUL 24 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640

JLC	
DRK	
RGW	
PRK	
XDEH	
QE	
XMSO	
FILE	

July 23, 1979

Consumers Power Company
P. O. Box 1963
Midland, MI 48640

Attention: J. L. Corley

Job 7220 Midland Project
CPCo NCR M-01-9-9-051
Complete Response
LAD-1021 Action Item 825

Dear Mr. Corley:

Reference: Bechtel Nonconformance Report 1931 (Closed).

The subject CPCo NCR identified that contrary to project requirements, concrete represented by ticket number 31425 was remixed for approximately 30 minutes.

Bechtel's recommended Part Disposition (Block 25) is "use as is" with justification as indicated in the referenced Bechtel Nonconformance Report.

Root Cause (Block 38): Specification C-230 references ASTM C94 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, it appears that the load was mistakenly remixed instead of agitated.

For Process Corrective Action (Block 42), Project Engineering has issued a memorandum stating that 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. 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 C94-1972. 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 C94-1972, Section 9.6. Therefore, a

1061 193

change in the specification is unnecessary and would create confusion by implying an exception to or a variation of the governing standard.

I believe this response addresses all of your concerns expressed in the subject NCR. Should you have additional questions, please contact this office.

Very truly yours,

L A Dreisbach

L. A. Dreisbach
Project Quality Assurance
Engineer

LAD/LHS/kjk

cc: W. Bird
B. Marguglio

1064 184

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 Rev 14		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 ( )Eng ( )FLD

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: Paul VanderVen — DATE: 3/6/79

18. VALIDATED BY: T.A. Barclay — 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

(cont. page 2)

24. DISPOSITION CONCURRENCE

rework	reject	repair	use as is
			X

J.C. Belmonte PE — PROJECT FIELD ENGINEER — DATE 4/25/79

R.R. Easley SLC — PROJECT ENGINEER — DATE 4-26-79

T.A. Barclay — PROJ CONSTR QC ENGINEER — DATE 4-26-79

AUTHORIZED INSPECTOR — DATE

25. DISPOSITION RESULTS

JLC
DRK
FGW
FRK
CE
FILE

CONSUMERS POWER COMPANY
RECEIVED
MAY 2 1979
FIELD QUALITY ASSURANCE
MIDLAND

26. QC ACCEPTANCE: Paul VanderVen — QC ENGINEER — DATE 5/1/79

AUTHORIZED INSPECTOR — DATE

BECHTEL

NONCONFORMANCE REPORT (CONT'D) 1. PAGE 2 OF 3 3/14/79 14. NCR NO. 1931

Block 22 continued:

receipt of the forementioned nonconforming test results to insure subsequent batches of concrete were acceptable. Concrete placed at this pour (ticket no. 31421) had an average compressive strength of 3925 psi at 7 days of age for batch plant cylinders and 4175 psi at 7 days of age for field cast cylinders.

R. Kowalczyk 3/14/79
D. Hamrick 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". BEM C-2184

No drawing change required.

J. Hartmann Jr. 1-20-79 RB

10098-2

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

QC-G3-3

1064 186

CA1931

IN-PROCESS CONCRETE TEST REPORT

Q.C. Acceptance	Date
Control No.	File No.

1. Inspection Record No. C-1.30-746 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 2-6

8. Slump Working Limits 3" 9. Inadvertancy Margin 2"

10. Concrete Placing Temperature Limits 40°-60° 11. Weather Conditions Applicable Hot ☐ Cold ☒

12 Ticket No.	Truck No.	13 Time	14 Cum. Yardage	15 Sampling Point	16 Slump ASTM C-143-74	17% Air Ent. ASTM C-231-74	18°F Conc. Temp.	19°F Air Temp.	20 Unit Wt. ASTM C-138-74	21 Conc. Cyls ASTM C-31-69 Test No.	Amt
31422	51	1002	(1)	GROUT							
				TAILGATE	4¼"	5.6	45	34			
				TD	4¼"	4.8	47				
31421		1001	6	EOL	4½"	4.6	48				
31423		1023	12	EOL	6"/5¼"						
31424		1031	18	EOL	6"/5¼"						
[illegible]			24	TD	6" -	8.0	45				
[illegible]			24	TD	4¾"	6.2	46				
31425		1041	24	EOL	3¼" -	5.4	51				
			30	TD	2¼"	5.2	44				
31426		1053	30	EOL	3¼" -	4.6	46				
31427		1121	36								
31428		1145	42					Y			

POOR ORIGINAL

22. TESTING EQUIPMENT

* THIS TRUCK PULLED TO THE SIDE AND REMIXED FOR APPROX. 30 MINUTES.

Slump Rod	N/A	Calibration Due Date	
Slump Cone	N/A	Calibration Due Date	
Air Meter No.	TD - 89 / 315 - EOL	Calibration Due Date	4/20/79 / 4/20/79
Unit Wt. Cont. No.	N/A	Calibration Due Date	
Scale No.	N/A	Calibration Due Date	
Thermometer No.	429 / 427	Calibration Due Date	8/21/79 / SAME

23. Concrete Rejected Cu. Yards 0

24. Concrete Sampled & Tested by R.H.

25. Quality Control Engineer [signature] 26. Date 3/2/79

7220-QCF-15 Rev. 1

1064 187

3/4/79

Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

6. PROJECT NAME:	7. DESIGN CONTROL PART NO:	8. NONCONFORMING PART NAME:	1. NCR SERIAL NO:
Midland 1 & 2	See Attached List	Class 1E and non-Class 1E Conduits	M-01-9-9-059
			2. DATE: 5-25-79
9. SERIAL NUMBER:	10. ORG. CONDITION NO:	11. AREA/LOC. OF NC:	3. DATE OF DET: Closed 8-6-79
NA	Design/Proj Engr	Aux Bldg and Cont Bldg #2	4. FILE NO: 16.3.4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

Paragraph 4.6 of IEEE Standard 279-1971 states, "Channels that provide signals for the same protective function shall be independent and physically separated to accomplish decoupling of the effects of unsafe environmental factors, electric transients, and physical accident consequences documented in the design basis, and to reduce the likelihood of interactions between channels during maintenance operations or in the event of channel malfunction".

(Contd on Page 3)

5. DISTRIBUTION:

ACTION COPY:

LADreisbach

INFO COPY:

WLBarclay	DBMiller
WRBird	NGMoring
TCCooke	JFNewgen
JLCorley	RASimanek
RHermeston	DATaggart
SHHowell	RLCastleberry
DRJohnson	ERumbaugh
GSKeeley	
BWMarguglio	
PAMartinez	
JMilandin	

13. CA RECOMMENDATION FOR PART CA:

Use separate supports for redundant Class 1E conduits.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [X] NOT REQUIRED [ ]

14. HOLD TAGS APPLIED: YES [ ] NO [X] LOCATION, LOCATION & TYPE OF HOLD TAGS APPLIED: NA

15. IS PROCESS CA REQUIRED: YES [X] NO [ ] IF NO, ENTER JUSTIFICATION BELOW:

16. DOES NC AFFECT S-LIST ITEM? YES [X] NO [ ]	17. IS NC REPORTABLE PER 50.55(e)? YES [ ] NO [X]
18. IS NC REPORTABLE PER PART 21? YES [ ] NO [X]	19. IF YES, DATE & TIME OF REPORT TO NRC: NA
20. IF YES, WHO MADE REPORT TO NRC: NA	21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

22. NCR GENERATED BY: Stephen A Jones	23. VERIFICATION REVIEW PERFORMED BY: 6-8-79 TO ESTABLISH CA COMPLETION DATE	24. SUPERVISOR'S SIGNATURE/DATE: Paul Kuper 5-26-79

25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

See Bechtel letter LAD-989 dated 7-2-79.

POOR ORIGINAL

26. DESIGN/PROJECT SUB. AUTH. DISP.: See Letter LAD-989 Dated 7-2-79	27. PRO SUB. AUTH. DISP.: NA	28. PROCUREMENT SUB. CONT. DISP.: NA	29. SUB. OF QA/QC AUTH. DISP.: See Letter LAD-989 Dated 7-2-79
30. FAB/CONST. SUB. AUTH. DISP.: See Letter LAD-989 Dated 7-2-79	31. SUB. OF TEST PROG AUTHOR. DISPOSITION: NA	32. FOR WASTE MGT - FAB. SUPT. SUB. AUTH. DISP.: NA	33. QA AUTH. SUB. TO DESIGN AUTH.: See Letter LAD-989 Dated 7-2-79

34. METHOD OF PART CA VERIFICATION:

See Bechtel letter LAD-989 dated 7-2-79.

35. SUB. IF ORG. DISP. FOR PART 21A REQUIRING COMPLETION: See Letter LAD-989 dated 7-2-79	36. SUB. VERIFYING PART 21A & HOLD TAG REMOVAL DATE: Stephen A Jones 8/6/79	37. QA VERIFIED BY (DATE): (DATE OF PART 21A VERIFICATION): Stephen A Jones 8/6/79

CC Document Control (1141 - ~~37100~~ - ~~30000~~ - ~~73*01*07~~) 05000 - 37100 - 73*1063) ELG 8/27/79

1064 188

Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT
N-01-9-9-059
NCR SERIAL NUMBER:

18. QA ASSESSMENT OF ROOT CAUSE(S):

Unknown, to be determined.

19. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

20. PROCESS CA ASSIGNED FROM:

DESIGN ☐ FABRICATION ☐ CONSTRUCTION ☐ PROCUREMENT ☐ INSPECTION ☐

OTHER X

21. QA RECOMMENDATION FOR PROCESS CA:

Include the requirements of paragraph 4.6 of IEEE-279-1971 in drawing E-47(Q).

22. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 21 & DATE OF COMPLETION:

POOR ORIGINAL

23. METHOD OF PROCESS CA VERIFICATION:

See Bechtel letter LAD-989 dated 7-2-79.

1064 189

24. ORG. OF IND. RESPONSIBLE FOR PROCESS CA RECURRENCE VERIFICATION:

See Letter LAD-989 Dated 7-2-79

25. PROCESS CA COMPLETION VERIFIED BY/DATE:

8/6/79

NCR SERIAL NO: M-01-9-9-059
DATE: 5-25-79
DATE OF REV: Closed 8-6-79
FILE NO: 16.3.4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Contd from Page 1)

Contrary to the above, the following conduits are located on the same supports as indicated.

Conduit No		Inspection Status
1BTD002		Partial Inspection
1BTD003		Partial Inspection
1NJA017		NA
1NC108	On Same Support	NA
2AC091		No Inspection
2AC092		No Inspection
2EC024		IR Not Open
2EC021	On Same Support	IR Not Open
2AC101		No IR
2BC069	On Same Support	IR Not Open
2EC009		Partial Inspection
2AC115		Partial Inspection
2AC100		No IR
2AC101	On Same Support	No IR
1AC099		No Inspection
1BC064	On Same Support	No Inspection
1BC065		No Inspection
1N1P004	On Same Support	NA
1AC085		Partial Inspection
1EC038	On Same Support	Partial Inspection
1AJD025		IR Not Open
1NC218	On Same Support	NA
2AVA010		Partial Inspection
2BVA014		No Inspection
2AC075	On Same Support	Partial Inspection

The above condition was mentioned by an NRC inspector as a possible violation of 10CFR50 Appendix A.

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640

July 2, 1979

JLC	
DRK	
RGW	
PRK	
ELS	
QE	
MSS	
FILE	

Consumers Power Company
P. O. Box 1963
Midland, MI 48640

Attention: J. L. Corley

Job 7220 Midland Project
CPCo NCR #M-01-9-9-059
Complete Response
LAD-989 Action Item-798

Dear Mr. Corley:

Reference: IOM dated June 25, 1979, R. L. Castleberry to L. A. Dreisbach

The subject NCR concerns conduits of redundant channels being located on the same supports. Per paragraph 4.6 of IEEE Standard 279-1971 "Channels that provide signals for the same protective function shall be independent and physically separated to accomplish decoupling of the effects of unsafe environmental factors, electric transients and physical accident consequences documented in the design basis, and to reduce the likelihood of interactions between channels during maintenance operations or in the event of channel malfunction".

In response Project Engineering has evaluated the subject concerns and determined that the use of separate supports for redundant class IE conduit is not required. Refer to referenced IOM (attached) for justification.

This is considered to be a complete response to the subject NCR. If further assistance and/or clarification is necessary please contact the writer.

Very truly yours,

L. A. Dreisbach
Project Quality Assurance
Engineer

CONSUMERS POWER COMPANY
RECEIVED
JUL 3 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

LAD/RCH/bsm

Attachment

cc: W. Bird
B. Marguglio

1064 191

Bechtel Associates Professional Corporation

Inter-office Memorandum

Job 7220-QA-Received 6/26/79
Log No. 1662 File No.
Response Req'd NO Date
QA Action Item No. 793

Route	Info	Act	Comment
PQAE	NO		
Resp. Cor.	CB	X	
Elect (1)		X	
Elect (2)			
Civil/Stch			
Piping/Weld			
Inst.			
Trn Ovr			
Trend			
Corr.		X	

cc: Dick Hall w/att. NCR.

To L.A. Dreisbach

Date June 25, 1979

Subject Midland Plant Units 1 & 2
Job 7220
NCR M-01-9-9-059
QPRR 798

From R.L. Castleberry

Of Engineering

At Ann Arbor

Copies to File: 0274, 0545.1

W. Moring
W. Terrell
R. Baltazar
Com Log

This is a complete response to NCR M-01-9-9-059 and QPRR 798.

The use of separate supports for redundant Class 1E conduits is not required. Routing of Class 1E conduits is designed to provide the physical separations necessary to meet the criteria for a particular location. The need for channels to be in close proximity is usually due to equipment location or physical space constraints. The routing of these conduits is examined for environmental factors and physical accident consequences such as missiles, jet impingement, pipe whip and/or a seismic event. Pipe restraints and barriers for protection from missiles and jet impingement will be installed when any of these hazards exist. The remaining factor is the design base seismic event for which the support is designed.

From a seismic standpoint all structural features of the plant are coupled. When an earthquake motion disturbs the soil upon which the building rests, the entire building including all equipment, piping, duct, raceway and associated supports respond to the input motion. Whether two conduits are supported by the same support, separate supports attached to the same beam or separate supports attached to separate inserts in the same concrete surface, a coupling factor still exists. Having the two conduits attached to the seismically designed support would prevent the conduits from damaging each other by any seismically induced motion. Likewise, for the seismic class two over one case a properly designed seismic support would provide protection to safety related circuit and conduit from the non-safety related conduit.

Seismic Category 1 structures will not fail for a design base earthquake. The support for Class 1E conduit is a seismic Category 1 designed structural member.

for R.L. Castleberry

PP/jt
6/20/2

POOR ORIGINAL

1/1/X

Start Up System: 2BHA

Consumers Power Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

6. PROJECT NAME:	7. NONCONFORMING PART NO:	8. NONCONFORMING PART NAME:	1. NCR SERIAL NO:
Midland	14-CCB-GT 1MO-1001B-PRLT	Motor Operated Valve	M-01-9-9-062 2. DATE: 6-12-79
9. SERIAL NUMBER:	10. SEC. CONSTRUCTION NO:	11. AREA/BLDG. IF NO:	3. DATE OF REV: 6-14-79 Closed 8-9-79
410-054	Babcock & Wilcox/ Bechtel Construction	Elev 607'-0" Unit 1 R/B Approx 270°	4. ITEM NO: 16.3.4, 16.4.4

12. AS IS" NONCONFORMING CONDITION (CITE "AS REQUIRED" CONDITION WHERE KNOWN):

Valve No 410-054 is supported by rigging to line number 1-HBD-446-S-616-1-4 at elevation 623'-0" approximately 6' north of the vent at approximately 270° az. The rigging is attached to the valve at the top of the yoke and the base of the operator. Additionally, line 1HBD-446-S-616-1-5 has what appears to be approximately a 2" bow centering at the rigging attach point (FW-17). This valve is rigged contrary to requirements in Specification M-204 Rev 10, paragraph 6.3.2 which states in part, "Basic rigging applied to the valve body, not to the yoke or valve operator".

5. DISTRIBUTION

ACTION COPY:

LADreisbach
RWShope

INFO COPY:

WLBarclay	JMilandin
WRBird	DBMiller
TCCooke	WGMoring
JLCorley	JFNewgen
RHermeston	RASimanek
SHHowell	DATaggart
DRJohnson	VNAsgaonkar
GSKeeley	AWDePatie
BWMarguglio	JWLillywhite
PAMartinez	CDThompson

13. CA RECOMMENDATION FOR PART CA:

1. Take immediate action to properly rig the valve.
2. Provide assurance there will be no adverse effect on valve operation.
3. Provide assurance there is no adverse effect, including stress, on the pipe.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [X] NOT REQUIRED [ ]

14. HOLD TAGS APPLIED: YES [ ] NO [X] NUMBER, LOCATION & TIME 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 ORIGINATED BY:	23. VERIFIED REPLY REQUIRED BY: 6-19-79 TO ESTABLISH CA COMPLETION DATE	24. SUPERVISOR'S SIGNATURE/DATE:
Donald K. Martin		6/13/79

25. PART CA DISPOSITION, JUSTIFICATIONS & COMPLETION DATE:

1. An inspection was made of the changed rigging and the rigging is now satisfactory.
2. There is no visible evidence of valve damage. Valve operation will be verified during testing.
3. CPCo PMO has been notified of the NCR and actions taken by Bechtel QA relative to the non-Q pipe.

26. DESIGN/PROJECT RES. ACTIV. DISP.:	27. PMO RES. ACTIV. DISP.:	28. PROCUREMENT RES. ACTIV. DISP.:	29. RES. OF ENG. DISP. FOR CA: Bechtel Letter LAD-1038 Dated 8-1-79
NA	NA	NA	
30. FAB/CONST. RES. ACTIV. DISP.:	31. RES. OF TEST GROUP ACTION. CONCURRENCE:	32. PER MAJOR NCR - FIELD SUPT. RES. ACTIV. DISP.:	33. QA ACTIV. RES. TO DOCUMENT DISP.: Donald K. Martin
NA	NA	NA	

34. METHOD OF PART CA VERIFICATION: 1. Inspection accomplished by CPCo QA.
2. Bechtel letter LAD-1038 (Action Item 841) dated 8-1-79 with attachments was verified by CPCo QA. 3. CPCo QA furnished CPCo PMO with copies of the NCR with Bechtel's response.

35. RES. OF DISP. FOR PART CA REQUIRING COMPLETION:	36. RES. VERIFYING PART CA & HOLD TAG REMOVAL DATE:	37. NCR CLOSED BY: (PART & PROCESS CA COMPLETE):
Bechtel Letter LAD-1038 Dated 8-1-79	Donald K. Martin 8/9/79	Donald K. Martin 8/9/79

Document Control (1141 - 02217 - 13100 - 410-054 - 73*10*03)

1064 193

Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

NCR NUMBER: M-01-9-9-062

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):

It appears there was a lack of awareness of requirements in Specification M-204 Rev 10 paragraph 6.3.2 by craft personnel, especially in areas where there is an interface between subcontractors.

40. PROCESS CA RESULTED FROM:

DESIGN [ ] FABRICATION [ ] CONSTRUCTION [X] PROCUREMENT [ ] INSTALLATION [X]

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

1. Conduct training for all personnel, associated with rigging of hardware, in the proper practices of rigging.
2. Provide management emphasis for supervisory personnel on proper rigging.
3. Provide management emphasis for QC personnel on surveillance activities to include proper rigging.
4. Provide objective evidence that all Subcontractors are aware of, and adhere to, proper rigging practices.

42. PROCESS CA TO BE TAKEN BY ORG(S) CITED IN BLOCK 41 & DATE OF COMPLETION:

1. Training for personnel was conducted on rigging July 2, 1979.
2. Letter of direction for all superintendents was issued July 5, 1979.
3. The training referenced in 1 above is QC applicable.
4. A letter was sent to all subcontractors July 25, 1979.

43. METHOD OF PROCESS CA VERIFICATION:

1. A review of subject letter for tool box safety meeting was conducted by CPCo QA. The signed attendance sheets for the safety meeting was also reviewed.
2. The letter issued to superintendents was reviewed.
3. Item 1 above is QC applicable.
4. B&W has a copy of the letter issued to them by Bechtel as well as their reply. Both were reviewed by CPCo QA.

44. ORG. OF ORG. RESPONSIBLE FOR PROCESS CA VERIFYING COMPLETION:

Bechtel Letter LAD-1038 Dated 8-1-79

45. PROCESS CA COMPLETION VERIFIED BY, DATE:

Donald K. Martin 8/9/79

CONSUMERS POWER COMPANY
RECEIVED
AUG 6 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

Consumers Power Company
P. O. Box 1963
Midland, MI 48640

Attention: J. L. Corley

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640

August 1, 1979

Job 7220 Midland Project
CPCo NCR M01-9-9-062
Complete Response
LAD-1038 Action Item-841

Dear Mr. Corley:

Reference: (a) Bechtel IOM LAD-[illegible]

The subject NCR identified that Bechtel valve No. 410-054 was improperly rigged to a Non "Q" pipe (1-HBD-446-S-616-1-4). The rigging was attached to the valve operator in violation of Specification M-204 Rev. 10 paragraph 6.3.2 and had caused a bow in the pipe of approximately 2".

We have evaluated the condition reported in the NCR with the following results.

Block 13 - Part Corrective Action

1. Field Engineering advises in Field Engineers Report dated 6/26/79 (attached) that the improper rigging has been corrected.

2. Field Engineering advises in FER dated 6/26/79 (attached) there was no visible damage done to the valve.

3. I have advised the Bechtel site manager, by Ref. (a) of the abnormal loading placed on the "Non-Q" pipe spool and requested he advise CPCo through his normal channels for Non-Q matters of the status of the spool.

Block 41 - Process Corrective Action

4. Bechtel Subcontracts made all applicable site Subcontractors aware of this particular incident and requested training be conducted on rigging. An example of the typical letter sent to all subcontractors is attached.

JLC	
DRK	DRK
RGW	
PRK	
[illegible]	[illegible]
QE	
FILE	

1064 195

CC Document Control (1141 - 73*10*03)

In summary, the improper rigging has been corrected, there was no apparent damage to the valve, the Non-Q pipe will be handled as a Non-Q matter, and all subcontractors have been appraised of this problem.

I believe this completes Bechtel's action relative to the subject NCR. Should you have additional questions please contact Gene Smith of my office.

Very truly yours,

LA Dreisbach

L. A. Dreisbach
Project Quality Assurance
Engineer

LAD/GS/bsm

Attachments

cc: W. Bird

B. Marguglio

JUL 2 5 1979

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640

July 25, 1979

Reco Constructors Inc.
P. O. Box125189
Richmond, Virginia 23260

Attention: Jerry Smith

Job 7220 Midland Project
Subcontract 7220-C-53
Proper Rigging Practices
C-53-L-B-9

Dear Mr. Smith:

A Subcontractor was recently cited by a Non Conformance Report for lifting a heavy valve assembly by the yoke.

This letter is a reminder that all rigging is to be performed in a safe and proper manner under the direct supervision of qualified and knowledgeable personnel.

It is requested that upon receipt of this letter, that you conduct a discussion covering rigging practices at your next regularly scheduled Gang Box Safety Meeting. Upon completion of this request, please confirm in writing to Bechtel Power Corporation Subcontracts Department that the discussion has been accomplished.

Very truly yours,

J. F. Newgan
Site Manager

JFN/JWL/CWC/km

1061 197

FIELD ENGINEER'S REPORT FORM

MIDLAND UNITS 1 & 2

JOB 7220 DATE 6/26/79 PAGE 1 OF 1

ITEM NO.	INSPECTION DESCRIPTION	ACTION REQUIRED/TAKEN
1)	14" VALVE 410-054 WAS LIFTED INTO PLACE BY PUTTING A SLING AROUND THE MOTOR OPERATOR AND LIFTING UP UNTIL CRIBBING COULD BE PLACED UNDERNEITH IT. AFTER WELDING OUT THE CRIBBING WAS REMOVED AND AGIAN THE PIPE AND THE VALVE WERE HUNG ON THE MOTOR OPERATOR. IT WAS BROUGHT TO B&W'S ATTENTION THAT THIS COULD DAMAGE THE VALVE OPERATOR AND THEY RE-HUNG IT AROUND THE BODY. THE UPPER PORTION OF THE SLING WAS WRAPPED AROUND 10" 1-HBD-446-616-1-S WHICH SEEMED TO SAG SLIGHTLY WHILE UNDER TENSION. B&W RE-HUNG THE VALVE FROM A TEMPORARY STRUCTURE AND THE LINE RETURNED TO NORMAL WITH NO APPERENT DAMAGE. ALTHOUGH B&W DID NOT HANG THE VALVE ACCORDING TO M-204 ITEM 6.3.2 THERE IS NO VISABLE EXTERNAL DAMAGE.	REF P.O. M-123A

POOR ORIGINAL

REMARKS:

ROUTE

GENE SMITH
LEON BROWN

D J McKay

SIGNATURE

FILE

1 X

Start Up System: 2-BBC

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-01-9-9-064
Midland	2-P-51A	RC Pump Studs	2. DATE: 6-25-79
9. SERIAL NUMBER: NA	10. ORG. CONTROLLING NC: B&W Nuclear Services	11. AREA/LOC. OF NC: NA	3. DATE OF NCR: Closed 8-2-79
			4. FILE NO: 16.6

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION (CITE REFS):

Paragraph 3.3 of B&W Inservice Inspection Procedure ISI-271, Rev 0 states in part, "The area of interest shall be the entire outside surface of part under examination".

Contrary to the above, magnetic particle inspection performed on subject reactor coolant pump studs did not provide adequate coverage as required by the Inservice Inspection Procedure.

5. DISTRIBUTION

ACTION COPY:
GNavratil

INFO COPY:
WRBird
TCCooke
JLCorley
GSKeeley
BWMarguglio
DBMiller
CRush
HWSlager
FJSattler
JLWood
SHHowell

13. QA RECOMMENDATION FOR PART QA:

Re-examine all studs.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [ ] NOT REQUIRED [X]

14. HOLD TAGS APPLIED: YES [ ] NO [X] JUSTIFY, LOCATION & TIME OF HOLD TAGS APPLIED: NA

15. IS PROCESS QA REQUIRED: YES [X] NO [ ] IF NO, ENTER JUSTIFICATION BELOW:

16. DOES NC AFFECT A-LIST ITEM: YES [X] NO [ ]

17. IS NC REPORTABLE PER 50.55(e): YES [ ] NO [X]

18. IS NC REPORTABLE PER PART 21: YES [ ] NO [X]

19. IF YES, DATE & TIME OF REPORT TO NRC: NA

20. IF YES, WHO MADE REPORT TO NRC: NA

21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

22. NCR ORIGINATED BY: R.F. Stumbi

23. WRITTEN REPLY REQUIRED BY: 7-9-79
TO ESTABLISH QA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE: D.R. Keating 6-25-79

25. PART QA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

1. Studs reinspected July 9, 10, 1979 per ISI-271 Rev 0.

POOR ORIGINAL

26. DESIGN/PROJECT ENG. AUTH. DISP.: NA	27. PRO ENG. AUTH. DISP.: NA	28. PROCUREMENT ENG. CONC. DISP.: NA	29. ENG. OF ORG. RESP. FOR N/A: Review of B&W Letter 7-16-79 FJSattler
30. PAR/CONST. ENG. AUTH. DISP. DISP.: B&W Letter 7-16-79 FJSattler	31. ENG. OF TEST GROUP ACCEPT. CONDITION: NA	32. FOR MATLS MGR - FLD. ENGR. ENG. AUTH. DISP.: NA	33. QA AUTH. ENG. TO DOCUMENT DISP.: NA

34. METHOD OF PART QA VERIFICATION:

1. Observed adequate reinspection of subject RC Pump Studs.

35. ENG. OF ORG. RESP. FOR PART Q/A SIGNIFYING COMPLETION: Review of B&W Letter 7-16-79 FJSattler	36. ENG. VERIFYING PART Q/A & HOLD TAG REMOVAL DATE: R.F. Stumbi 7-10-79	37. NCR CLOSED BY: (PART A PROCESS QA COMPLETE) R.F. Stumbi 8-2-79

CC Document Control (1141 - 2 - 02340 - 11330 - 2P-51A - 78*10*03)

1064 199

Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

M-01-9-9-064

NCR SERIAL NUMBER:

38. QA ASSESSMENT OF ROOT CAUSE(S):

To be determined later.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

NA

40. PROCESS CA REQUIRED FROM:

DESIGN ☐ FABRICATION ☐ CONSTRUCTION ☐ PROCUREMENT ☐ INSPECTION ☒

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

Review of technique needed prior to examination.

42. PROCESS CA TO BE TAKEN BY ORG(S) CITED IN BLOCK 41 & DATE OF COMPLETION:

See B&W letter 7-16-79 FJSattler.

POOR ORIGINAL

43. METHOD OF PROCESS CA VERIFICATION:

Review of procedure with personnel performing inspection provided assurance that they were aware of requirements of ISI-271 Rev 0.

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA IDENTIFIED COMPLETION:

B&W Letter 7-16-79 FJSattler

45. PROCESS CA CONCURRENCE SIGNATURE: 8-2-79

1064 203

Document Control (1141 - 73*10*03

Babcock & Wilcox

Power Generation Group

P.O. Box 1260, Lynchburg, Va. 24505
Telephone: (804) 384-5111

CONSUMERS POWER COMPANY
RECEIVED
JUL 18 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

July 16, 1979

Mr. J. L. Corley
Midland Site I.E. and
T. V. Section Head
Consumers Power Company
P. O. Box 1963
Midland, MI 48640

REF: NCR M-01-9-9-064 dated
6-25-79 regarding RC Pump
Stud Inspection

Dear Mr. Corley:

The magnetic particle inspection performed on the Subject RC Coolant pump studs did not provide adequate coverage as required by the Inservice Inspection Procedure ISI-271 revision 0. This is a new procedure. It was not adequately reviewed which resulted in insufficient field overlap during the magnetization of the studs.

The technicians have subsequently reviewed the procedure extensively and are now cognizant of the specific requirements of ISI-271 revision 0.

All the studs examined prior to the NCR are being reexamined with the correct magnetic particle technique.

If we can be of any further assistance in this matter please call at your convenience.

JLC	
DRK	
RGW	
PRK	
KKC	
QE	
FILE	

Prepared by: Gary E. Abell
Gary Abell, Technical Specialist

Approved by: Frank J. Sattler
Frank J. Sattler, Manager - ISI

1064 201

X

Start Up System: Indeterminate

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-01-2-9-069
Midland 1 & 2	NA	Native Pit Run Sand (Yellow Sand)	2. DATE: 7-19-79
9. SERIAL NUMBER: NA	10. ORG. CONSTRUCTION NC: Bechtel FE & QC	11. AREA/LOC. OF NC: Sand Stockpile South of Main Guardhouse	3. DATE OF REV: Closed 8-16-79
			4. FILE NO: 16.3.4, 16.3.6

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION AND 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
RHermeston	DATaggart
SHHowell	NTheil
DRJohnson	JWanzeck
GSKeeley	GKrzisnik
BWMarguglio	
PAMartinez	
JMilandin	

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.

(Contd on Page 4)

DESIGN/PROJECT ENG. DISPOSITION REQUIRED [X] NOT REQUIRED [ ]

14. HOLD TAGS APPLIED: YES [X] NO [ ] SURVEY, 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 "Q" listed backfill.

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 GENERATED BY:	23. VERIFIED REPLY REQUIRED BY: 8-4-79	24. SUPERVISOR'S SIGNATURE/DATE:
Robert M. Kerr Donald E. Horn	TO ESTABLISH CA COMPLETION DATE	Donald E. Horn / 7-20-79

25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

1. PO 7220-F-3160 Q which incorporated the requirements of Revision 7 to C-211, has been issued replacing PO 7220-F-18367.
2. All future Field Material Requisitions will be initiated from this new "Q" purchase order and will be designated exclusively "Q".
3. The material purchased under the old purchase order is no longer stockpiled on-site as it has been placed in various non-"Q" locations.

26. DESIGN/PROJECT ENG. AUTH. DISP.:	27. PQD SIG. AUTH. DISP.:	28. PROCUREMENT SIG. AUTH. DISP.:	29. SIG. OF SIG. AUTH. FOR N/A:
NA	Donald E. Horn	NA	Refer to Letter LAD-1046
30. FAB/CONST. SIG. AUTH. DISP.:	31. SIG. OF TEST GROUP ACCEPT. CONDITION:	32. FOR VALVE NCR - FLT. SUPT. SIG. AUTH. DISP.:	33. QA AUTH. SIG. TO APPROVE DISP.:
Refer to Letter LAD-1046	NA	NA	Donald E. Horn

34. METHOD OF PART CA VERIFICATION:

Reviewed PO 7220-F-3160 Q, FMR CY-4341 letter LAD-1046, and material receipts G59579, G59580, G59587, and G59598 for material purchased to PO 7220-F-3160 Q.

35. SIG. OF SIG. AUTH. FOR PART CA VERIFYING COMPLETION:	36. SIG. VERIFYING PART CA & HOLD TAG REMOVAL DATE:	37. NCR CLOSED BY/DATE: (PART A PROCESS CA COMPLETE)
Refer to Letter LAD-1046	Donald E. Horn / 8-16-79	Donald E. Horn 8/16/79

Consumers Power Company

NONCONFORMANCE REPORT
PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

M-01-2-9-069

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):

Until recently the yellow sand had been purchased under non-"Q" PO 7220-F-18367 meeting the requirements of C-210. This practice continued with the concurrence of CPCo PMO personnel after Revision 6 to C-211 (5/18/79) incorporated the non-"Q" yellow sand requirements into it because Revision 6 did not accurately reflect the sand to be used. There were some delays in the review process for the issuance of PO 7220-F-3160 Q which incorporated the requirements of Revision 7 to Specification C-211 and replaced PO 7220-F-18367.

40. PROCESS CA RESULTED 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) CITED IN BLOCK 41 & DATE OF COMPLETION:

None required.

43. METHOD OF PROCESS CA VERIFICATION:

Review of LAD-1046.

44. ORG. OF ORG. RESPONSIBLE FOR PROCESS CA ASSURING COMPLETION:

Refer to LAD-1046

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

Donald E Storm 5/16/79

1061 203

NCR SERIAL NO: M-01-2-9-069
DATE: 7-19-79
DATE OF REV: Closed 8-16-79
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: Closed 8-16-79
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.

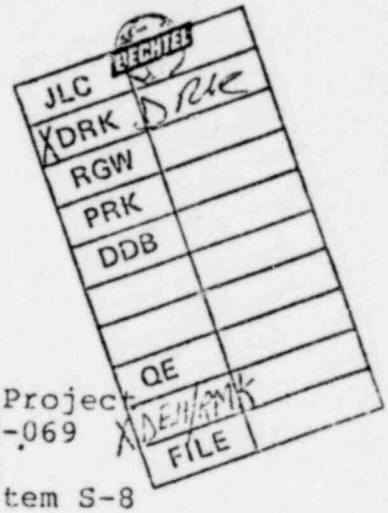
1064 205

CONSUMERS POWER COMPANY
RECEIVED
AUG 8 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640

August 8, 1979



Consumers Power Company
P. O. Box 1963
Midland, MI 48640

Attention: J. L. Corley

Job 7220 Midland Project
CPCo NCR M-01-2-9-069
Complete Response
LAD-1046 Action Item S-8

Dear Mr. Corley:

The subject CPCo NCR identified several nonconformances relating to the purchase, inspection, and testing of non-"Q" yellow sand.

Until recently the non-"Q" yellow sand has been purchased under P.O. 7220-F-18367 meeting the requirements of C-210. This practice continued with the concurrence of CPCo PMO personnel (Don Sibbold) after Revision 6 to C-211 (5/18/79) incorporated the non-"Q" yellow sand requirements into it because Revision 6 did not accurately reflect the sand to be used. Subsequently, Revision 7 was issued (6/27/79) which contains the correct requirements.

After some delays in the review process, P.O. 7220-F-3160 Q, which incorporated the requirements of Revision 7 to C-211, was issued (7/24/79) replacing P.O. 7220-F-18367. The issuance of the new purchase order updated the user's test requirements because PQCI R-1.00, Revision 8, references the requirements in P.O. 7220-F-3160 Q and the purchase order incorporates the requirements of C-211 Revision 7.

The material purchased under the old purchase order is no longer stockpiled on-site as it has been placed in various non-"Q" locations. All future Field Material Requisitions will be initiated from this new purchase order and will be designated exclusively "Q". However, Bechtel takes exception to the NCR statement that only "Q" material can be purchased with a "Q" specification. C-211 specifically states that the backfill material in this specification contains both "Q"-listed and non-"Q" listed work. This has been confirmed by Project Engineering to mean that non-"Q" yellow sand can be purchased with C-211.

cc Document Control (1141 - 73*10*03)

I believe this response addresses all of your concerns expressed in the subject NCR. Should you have additional questions, please contact this office.

Very truly yours,

/s/ L. A. Dreisbach

L. A. Dreisbach
Project Quality Assurance
Engineer

LAD/LHS/kjk

cc: W. Bird
B. Marguglio

1061 207

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 5.3.1.e of FPG-6.000 states that the "Instrument shall be returned not later than the end of the day shift preceeding the calibration expiration date".

Contrary to the above, 11 pieces of M&T Equipment of the total 88 on the monthly recall list for July should have been in the Laboratory prior to the end of the day shift on July 25 had still not been returned on July 26, 1979. The following table indicating the M&T No, description, due date, and name of individual responsible:

M&T No	Description	Due Date	Signed For
BPC-489	RTD Bridge	7-25-79	Stotynsky
BPC-2275	Crimper MR-4-C	7-12-79	R Courliss
BPC-2306	Torque Wrench	7-11-79	T Lupo
BPC-2421	Torque Wrench	7-08-79	P Duffy
BPC-2422	Torque Wrench	7-25-79	R Courliss
BPC-2432	Torque Wrench	7-26-79	P Duffy
BPC-2007	Surface Thermometer	7-26-79	J Huron
BPC-2571	Crimper MR-8-4	7-08-79	C Sisson
BPC-2578	Pocket Thermometer	7-26-79	E Dutton
BPC-2579	Pocket Thermometer	7-26-79	H Berg
BPC-2581	Pocket Thermometer	7-26-79	S Zambola

AFR SER NO: M-01-21-9-01

PROJ/DEPT AUDITED: Bechtel Calibration

DATE OF ORIGINATION: 7-26-79

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 recall notification be made not less than three working days prior to the due date. It is further recommended that notification for recall be made through the supervisor of each individual concerned. Action must be taken to have all the M&T Equipment from the above table returned immediately to the Calibration Laboratory for recertification.

CORRECTIVE ACTION COMMITMENT: 9-7-79

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A: Bechtel Construction, Bechtel QC

PERSON MAKING C/A COMMITMENT: VRGraden

METHOD OF VERIFICATION:

IS AF REPORTABLE PER 50.55(e): YES [ ] NO [X]

IF "YES", DATE OF REPORT TO NRC: NA

IF "YES", TIME OF REPORT TO NRC: NA

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

IF "YES", WHO MADE REPORT: NA

AFR ORIGINATOR'S SIGNATURE: Eleanor A Jones

SUPERVISOR'S SIGNATURE: F S Conley 8/2/79

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:

1064 208

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 5.7.2 of FPG-6.000 states "When records indicate that an unsatisfactory pre-calibration condition existed, the PFQCE shall determine what systems or components were accepted using faulty test equipment. The PFQCE shall identify and process those systems as nonconforming in accordance with PSP G-3.2".

Contrary to the above, crimping tool BPC-2398 (DAT) had not been processed as nonconforming for the following terminations: 1BB1801 F-2; 1BB1802 M-1; 1BB1805 M-1; 1BB2401 E-1; 1BB2412 D-1; 1BB5601 E-1; 1BB5643 E-1; 1BB6405 D-1; 1AB5531 C-2.

Three additional terminations with this tool were previously reported on CPCo AFR M-01-20-9-01.

AFR SER NO: M-01-21-9-02

PROJ/DEPT AUDITED: Bechtel Calibration

DATE OF ORIGINATION: 7-24-79

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 an information copy of the notification document be given to Quality Control before it goes through the normal administrative process. This would prevent the excessive delay in processing nonconformance reports on possible faulty terminations. Reinspection of the terminations should include, as a minimum, "Pull Test" on 100% of the listed terminations.

CORRECTIVE ACTION COMMITMENT: 9-7-79

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A: Bechtel QC

PERSON MAKING C/A COMMITMENT: VRGraden

METHOD OF VERIFICATION:

IS AF REPORTABLE PER 50.55(e): YES [ ] NO [X]

IF "YES", DATE OF REPORT TO NRC: NA

IF "YES", TIME OF REPORT TO NRC: NA

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

IF "YES", WHO MADE REPORT: NA

AFR ORIGINATOR'S SIGNATURE: Edgar A Jones

SUPERVISOR'S SIGNATURE: 8/7/79

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:

1067 209

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, Schedule I calls for 2.0 to 4.0 mils DFT of primer for System No 1. 8.4.3 states, "Acceptance Standards - dry film paint thickness readings exceeding the maximum by 20% and below the minimum by 20% 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.

The QCE misunderstood the intent of the Specification and attended training session on 7/24/79 per Bechtel response LAD-1036 dated 7/31/79.

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:

Reviewed QCFM-6354 documenting above stated training session.

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: [signature]

VERIFICATION DATE: 8/2/79

1064 210

Consumers Power Company

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

"AS IS" CONDITION VERSUS "AS REQUIRED" /"AS WELDED" 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	JFNewgen
WRBird	RASimanek
TCCooke	DATaggart
JLCorley	
LADreisbach	
RHermeston	
SHHowell	
DRJohnson	
GSKeeley	
BWMarguglio	
PAMartinez	
JMilandin	
DBMiller	
WGMoring	

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-8.50-227 was corrected prior to the issuance of this AFR.

Review of C-8.50 IR's indicated this was an isolated case and QCE has been instructed to review and update reference criteria daily.

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:

Response LAD-1035 dated 7/31/79 and questioned the QCE involved.

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 G T Black

SUPERVISOR'S SIGNATURE: 7/12/79

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE: 8/2/79

1061 211

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:

PQCI C-8.50 will be revised to reflect necessary changes.

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:

Reviewed and commented on the request for approval of PQCI C-8.50 to Revision 5. Verified approval letter dated 7/30/79 by CPCo approving Revision 5 to PQCI C-8.50.

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", 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: [signature] 7/12/79

C/A VERIFICATION SIGNATURE: [signature]

VERIFICATION DATE: 8/2/79

Consumers Power Company

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

"AS IS" CONDITION VERSUS "AS REQUIRED" /"AS NEEDED" CONDITION WITH REFERENCES:

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:

PQCI C-8.50 will be revised to reflect necessary changes.

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:

Reviewed and commented on the request for approval of PQCI C-8.50 to Revision 5. Verified approval letter dated 7/30/79 by CPCo approving Revision 5 to PQCI C-8.50.

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: 7/31/79

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE: 8/2/79

1064 213

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 (I/A) 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:

PQCI C-8.50 will be revised to reflect necessary changes.

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:

Reviewed and commented on the request for approval of PQCI C-8.50 to Revision 5. Verified approval letter dated 7/30/79 by CPCo approving Revision 5 to PQCI C-8.50.

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: R G Wollney for G T Black

SUPERVISOR'S SIGNATURE: 7/12/79

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE: 8/2/79

1064 214

Consumers Power Company

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

"AS IS" CONDITION VERSUS "AS REQUIRED" /"AS NEEDED" CONDITION WITH REFERENCES:

M-

Specification 7220-E-20 requires in electrical penetration engineering data, paragraph 7.3.4 of D-3 that a periodic test be performed at intervals on penetrations.

There was no approved procedure found describing how the above periodic test is to be performed.

AFR SER NO: 01-48-8-09

PROJ/DEPT AUDITED: Bechtel Construction

DATE OF ORIGINATION: 12-19-78

FILE NUMBER: 18.4.3.6

DISTRIBUTION:

WLBarclay
WRBird
TCCooke
JLCorley
LADreisbach
RHermeston
SHHowell
GSKeeley
BWMarguglio
PAMartinez
JMilandin
DBMiller
WMoring
JFNewger
RASimanek
DATaggart

RECOMMENDED CORRECTIVE ACTION:

Issue procedure or delete from specification.

CORRECTIVE ACTION COMMITMENT:

LADreisbach letter, LAD: 684 dated February 5, 1979.

DATE OF C/A COMPLETION: 7-31-79

DATE OF C/A EFFECTIVENESS: NA

ORG. RESP FOR C/A: Bechtel Engineering

PERSON MAKING C/A COMMITMENT: LADreisbach

METHOD OF VERIFICATION:

Review of Specification 7220-E-20 reveals "Periodic Test" has been deleted.

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: Harold J Watt

SUPERVISOR'S SIGNATURE: Paul Kyner

C/A VERIFICATION SIGNATURE: H J Watt

VERIFICATION DATE: 8/2/79

1064 215

Consumers Power Company

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

"AS IS" CONDITION VERSUS "AS REQUIRED" /"AS NEEDED" CONDITION WITH REFERENCES:

Electrical Penetration Specification 7220-E-20 Rev. 9, paragraph 6.2.4 Rev. 0 specifies the use of compression type ring-torque terminals having insulated ferrules.

Contrary to the above, Bechtel Construction is installing uninsulated burndy YAV hylugs on the vendor wiring which they are terminating in the EPA's. REM RE-E-868 was written to authorize the use of the optional lug; however, changing previously approved material by REM and TWX is questionable. This practice does not provide traceability within the engineering system, i.e. will the REM and TWX be available to those in the future who consult drawings and/or other vendor documents for material verification.

AFR SER NO: M-01-48-8-10

PROJ/DEPT AUDITED: Bechtel Construction

DATE OF ORIGINATION: 12-19-78

FILE NUMBER: 18.4.3.6

DISTRIBUTION:

WLBarclay, WRBird, TCCooke, JLCorley, LADreisbach, RHermeston, SHHowell, GSKeeley, BWMarguglio, PAMartinez, JMilandin, DBMiller, WMoring, JFNewgen, RASimanek, DATaggart

RECOMMENDED CORRECTIVE ACTION:

Provide engineering traceability.

CORRECTIVE ACTION COMMITMENT:

LADreisbach letter, LAD-684 dated February 5, 1979.

DATE OF C/A COMPLETION: 7-31-79

DATE OF C/A EFFECTIVENESS: NA

ORG. RESP FOR C/A: Bechtel Engineering

PERSON MAKING C/A COMMITMENT: LADreisbach

METHOD OF VERIFICATION:

Review of Specification 7220-E-20 reveals paragraph 6.2.4 revised to indicate uninsulated lugs may be used on outboard terminations.

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: Donald Nott

SUPERVISOR'S SIGNATURE: Paul Lyner

C/A VERIFICATION SIGNATURE: Donald Nott

VERIFICATION DATE: 8/17/79

1067 216

CORRECTIVE ACTION REPORT

P.C.

① Unit S/U System Discip Serial: -/0/-/-/018

② **Description of Deficiency** No information in designated M/R file for below listed instruments.

O-GLH ✓
OMC 147-6506A } M/R J-288
OMC-6506B }

O-GLA ✓
OFSL 116-5417 }
OFSL-5418 } M/R M-170
OFSL-5419 }

2-APA
2TE 069-4931 - M/R J233

O-GLB
OTX 022-6826A }
OTX-6826B }
OTX-6826C } M/R M-167
OTX-6826D }
OTX-6826E }
OTX-6826F }

2-EAE
2TE 038-2051 } M/R M3.3 and M3.7
2TE-2053 }
2TE-2054 }

O-GLK ✓
OKY 129-6636 M/R-M16

O-GLN
OPDI 151-5475 A+B M/R M1

☐ (✓) Con't on Attachment

③ **Recommended Corrective Action and Retest** Investigate and request information from Vendor such as Manufacturer, Model number, and specifications.

☐ (✓) Con't on Attachment

④ **Related Documents and References**
M/R M3.3 Rev 2
M/R M3.7 Rev 2
Inst. Index J700 Rev 8
M/R J-233 Rev 7
M/R M-170 Rev 7
M/R M-162 No Rev
DR # HLD-79-26
LR # HLD-79-45

☒ Deficiency ⑤
~~☒ Design Chg~~
☐ Troubleshoot
☐ Maintenance
☐ Retest Only

⑥ Initial
Subseqnt
ACTION

⑦ Cause 03
Category 05
☐ Retest Req
☒ Q-Listed

NRC Reportability 10CFR50.55e
☒ Not Reportable Walt Williams 7/20/79 ⑧
☐ Reportable; QA Notified
Name Date

⑨ Signature JTC

	Signature	Date	Time
Orig:	Wm Rusk	8/3/79	0734
FE/TE:			
PS/PTS:	[illegible]	10/11/79	1300

⑩ **Corrective Action or Response:**

Action Organization Representative
Date

CONSUMERS POWER COMPANY
RECEIVED
AUG 13 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

☐ (✓) Con't on Attachment

⑪ Retest Complete TE: Date

Completion Review Signature Date
QA:
TE:
PS/PTS:

1064 217

181 (D.C.)

CORRECTIVE ACTION REPORT MUP

(1) Unit S/U System Discip Serial: 2 - BG C - I - 003

(2) Description of Deficiency: ERROR IN INSTRUMENT INDEX J700. INSTRUMENT INDEX J700 GIVES LOCATION FOR 2TE 0427 AS IT-58. LOCATION SHOULD BE 2T-58 ACCORDING TO P+ID M404 SHEET 2 (Q).

John Arnold 6/6/79 1109

☐ (√) Con't on Attachment

(3) Recommended Corrective Action and Retest: CORRECT LOCATION FOR 2TE 0427 IN INSTRUMENT INDEX J700 TO 2T-58.

☐ (√) Con't on Attachment

(4) Related Documents and References
P+ID M404 SHEET 2 "Q" REV 7
INSTRUMENT INDEX J700 REV 6

☒ Deficiency (5) P+W
~~☒ Design Chg~~
☐ Troubleshoot
☐ Maintenance
☐ Retest Only

(6) Initial
Subseqnt
ACTION

(7) Cause 03
Category 05
☐ Retest Req
☒ Q-Listed

NRC Reportability 10CFR50.55e (8)
☒ Not Reportable Rob R Wells 7/20/79
☐ Reportable; QA Notified

(9) Signature	Name	Date	Time
Orig:	C J Dibble II	6/7/79	1100
FE/TE:	[illegible]	6/20/79	900
PS/PTS:	Rob R Wells	10/4/79	1300

(10) Corrective Action or Response:

Action Organization Representative
Date

CONSUMERS POWER COMPANY
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MIDLAND, MICHIGAN

☐ (√) Con't on Attachment

(11) Retest Complete	Date
TE:	
Completion Review Signature	Date
QA:	
TE:	
PS/PTS:	

1064 218

CORRECTIVE ACTION REPORT

(1) Unit S/U System Discip Serial: 2 - B G C - M - 0 0 5

(2) **Description of Deficiency**

THE DIPSTICKS FOR EACH OF THE MAKEUP PUMP LUBE OIL RESERVOIRS IS JUST A FIT LOOSELY INTO A HOLE IN THE TOP OF THE RESERVOIR. THE SITUATION IS ONE WHERE DIRT COULD EASILY ENTER THE LUBE OIL SYSTEM.

ALSO APPLIES TO UNIT 1

☐ (√)Con't on Attachment

(3) **Recommended Corrective Action and Retest** PROVIDING SOME PERMANENT WAY OF SEALING THE DIPSTICK IN THE HOLE THAT WILL ALLOW THE STICK TO BE REMOVED TO CHECK OIL LEVEL. (PRESENTLY THE DIPSTICK IS TAPED IN PLACE WITH DUCT TAPE BUT THIS IS NOT ADEQUATE)

☐ (√)Con't on Attachment

(4) **Related Documents and References**

NONE

(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

(8) NRC Reportability 10CFR50.55e
☒ Not Reportable — Name: Fred K Williams — Date: 8/13/79
☐ Reportable; QA Notified — Name — Date

(9) Signature

	Signature	Date	Time
Orig:	Christine Kay Wood	8/14/79	12:00
FE/TE:	Raymond A Kryske	8/21/79	2:45PM
PS/PTS:	Fred K Williams	8/16/79	1100

(10) **Corrective Action or Response:**

Action Organization Representative

Date

CONSUMERS POWER COMPANY
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AUG 23 1979
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MIDLAND, MICHIGAN

☐ (√) Con't on Attachment

(11) Retest Complete — Date
TE:

Completion Review Signature — Date
QA:
TE:
PS/PTS:

1064 219

P.C.

CORRECTIVE ACTION REPORT

(1) Unit 1 - SAB - I - 001 (Unit 1/0 System Discip Serial)

(2) **Description of Deficiency**

Schematic diagram E-375 Sheets 61-64, 68-71, and 75-77 show relay interlocks T1-M1 and R3-M3 as normally open contacts. These relay developments do not agree with Vendor drawing J 207-220 (1). In reference to J 207-220 (1) and E-375, the note on sheets 63 and 71 need clarification

This deficiency also applies to Unit 2.

☐ (√) Con't on Attachment

(3) **Recommended Corrective Action and Retest**

Revise E-375 to show the correct relay information

☐ (√) Con't on Attachment

(4) **Related Documents and References**

E-375, J. 207-220 (1)

~~Potential~~ DEFICIENCY

(5) ☒ ~~Deficiency~~
☒ ~~Design Chg~~
☐ Troubleshoot
☐ Maintenance
☐ Retest Only

(6) Initial: B,P,D
Subseqnt:
ACTION

(7) Cause: 0,3
Category: 0,5
☐ Retest Req
☒ Q-Listed

NRC Reportability 10CFR50.55e
☒ Not Reportable — Paul K Wellin 8/21/79 (8)
☐ Reportable; QA Notified _____ (Name) _____ (Date)

(9) Signature

	Signature	Date	Time
Orig:	R O Frisch /FDO	7/25/79	-
FE/~~PE~~:	E M Burns	8/21/79	0730
PS/PTS:	Paul K Wellin	8/21/79	1100

(10) **Corrective Action or Response:**

Action Organization Representative

_____ Date _____

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☐ (√) Con't on Attachment

(11) Retest Complete — Date
TE: _____

Completion Review Signature — Date
QA: _____
TE: _____
PS/PTS: _____

1067 220

CORRECTIVE ACTION REPORT

(1) Unit S/U System Discip Serial: 2 - BTB - M - 004

(2) Description of Deficiency ON DRAWING M-422 Sheet 1

GLOBE VALVE 422 ON 2HCB-61, GRID LOCATION F-7 HAS SAME BECHTEL IDENTIFCATION NUMBER AS GATE VALVE 422 ON 2HCB-65, GRID LOCATION F-4.

☐ (√)Con't on Attachment

(3) Recommended Corrective Action and Retest

CHANGE THE IDENTIFICATION NUMBER OF GATE VALVE 422, GRID LOCATION F-4 TO 424

☐ (√)Con't on Attachment

(4) Related Documents and References

NONE

(5) ☒ Deficiency
~~☒ Design Chg~~
☐ Troubleshoot
☐ Maintenance
☐ Retest Only

(6) Initial: B,P,D
ACTION Subseqnt:

(7) Cause: 03
Category: 05
☐ Retest Req
☒ Q-Listed

NRC Reportability 10CFR50.55e
☒ Not Reportable — Walt Williams 13 Aug 79 (8)
☐ Reportable; QA Notified _____
Name Date

(9) Signature

	Signature	Date	Time
Orig:	William J. Stewart	8/16/79	0745
FE/TE:	Dwight D. Kanipe	8-20-79	7:30A
PS/PTS:	W. W. Williams	8/20/79	1100

(10) Corrective Action or Response:

Action Organization Representative

Date

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☐ (√) Con't on Attachment

(11) Retest Complete — Date
TE:

Completion Review Signature — Date
QA:
TE:
PS/PTS:

1061 221

CORRECTIVE ACTION REPORT

(1) Unit S/U System Discip Serial: 0 - ANB - M - 008

(2) Description of Deficiency ON DRAWING M-422, SHEET 1 GATE VALVE 432 PN 2HCB-72, GRID LOCATION G-6, HAS THE SAME BECHTEL IDENTIFICATION NUMBER AS GATE VALVE 432 ON 2HCB-123, GRID LOCATION G-5.

☐ (√) Con't on Attachment

(3) Recommended Corrective Action and Retest
CHANGE THE IDENTIFICATION OF GATE VALVE 432, GRID LOCATION G-5, TO 423.

☐ (√) Con't on Attachment

(4) Related Documents and References
NONE

(5) ☒ Deficiency P.F.W.
☒ ~~Design Chg~~
☐ Troubleshoot
☐ Maintenance
☐ Retest Only

(6) Initial: B.P.D
ACTION Subseqnt:

(7) Cause: 03
Category: 05
☐ Retest Req
☒ Q-Listed

NRC Reportability 10CFR50.55e
☒ Not Reportable Ralph Wellington 8/31/79 (8)
☐ Reportable; QA Notified _____ Name _____ Date

(9) Signature

	Signature	Date	Time
Orig:	William L Stewart	8/31/79	12:15
FE/TE:	D Kapeller	9/4/79	0850
PS/PTS:	Ralph Wellington	9/4/79	1100

(10) Corrective Action or Response:

Action Organization Representative
_____ Date _____

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☐ (√) Con't on Attachment

(11) Retest Complete — Date
TE: _____

Completion Review Signature — Date
QA: _____
TE: _____
PS/PTS: _____

1061 222

CORRECTIVE ACTION REPORT

(1) Unit S/U System Discip Serial: 0 - GLC - E - 001

(2) Description of Deficiency

On E-485-7 Rev 1 the adapter table refers to the Component Cooling Water pump while the title on the main body of the drawing refers to the Aux. Feedwater pump.

☐ (√)Con't on Attachment

(3) Recommended Corrective Action and Retest

Recommend changing AFW Motor to CCW Motor adapter review of drawing it is found that this is the correct change, otherwise the adapter table should be changed.

☐ (√)Con't on Attachment

(4) Related Documents and References

P&ID M-454-2 Rev 2.

☒ Deficiency (5)
☐ Design Chg
☐ Troubleshoot
☐ Maintenance
☐ Retest Only

(6) Initial: B,P,D

ACTION — Subseqnt:

(7) Cause: 0,3

Category: 0,5

☐ Retest Req
☒ Q-Listed

NRC Reportability 10CFR50.55e (8)
☒ Not Reportable Paul R Wells 21NOV79
☐ Reportable;QA Notified

(9)

Signature	Name	Date	Time
Orig: Mark F Hickman		8-15-79	0900
FE/TE: [illegible]		[illegible]	[illegible]
PS/PTS: Paul R Wells	29NOV79		0900

(10) Corrective Action or Response:

Action Organization Representative

Date

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☐ (√) Con't on Attachment

(11) Retest Complete — Date

TE:

Completion Review Signature — Date

QA:

TE:

PS/PTS:

1064 225

126

CORRECTIVE ACTION REPORT

AHV

(1) Unit S/U System Discip Serial: O - GLH - I - 009

(2) Description of Deficiency: Inaccuracy Between P&ID's and Instrument Index.
P&ID, M-465 Sh. 1 (Q) Shows the below listed instruments but the J-700 Instrument Index does not.

~~OTI-6527A1~~ *
~~OTI-6527B1~~ *
OTI-6528A1
~~OTI-6528B1~~ *
~~OTI-6536A1~~ *
OTI-6536B1
OTI-6537A1
OTI-6537B1

B. A. Thad

POOR ORIGINAL

☐ (✓) Con't on Attachment

(3) Recommended Corrective Action and Retest
Investigate & Correct appropriate Document.

☐ (✓) Con't on Attachment

(4) Related Documents and References
M-465 Sh. 1 (Q) Rev. 2 of P&ID's
J-700 Instrument Index Rev. 8 PK

☒ Deficiency (5)
☐ Design Chg
☐ Troubleshoot
☐ Maintenance
☐ Retest Only

(6) Initial: B.P.D
Subsequent:
ACTION

(7) Cause: 03
Category: 05
☐ Retest Req
☒ Q-Listed

NRC Reportability 10CFR50.55e (8)
☒ Not Reportable Paul K Wells 9/5/79
☐ Reportable; QA Notified _____
Name Date

(9)

Signature	Date	Time
Orig: P E Nicholson	5-22-79	0842
FE/TE: S M Srinivas	9/5/79	0950
PS/PTS: Paul K Wells	9/5/79	1200

(10) Corrective Action or Response:
* J-700 Inst. Index Rev 8, NOW LISTS OTI 6527A1
OTI 6527B1
OTI 6528B1
OTI 6536A1

7/17/79

Action Organization Representative
Date

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(11) Retest Complete
TE: Date

Completion Review Signature
QA: Date
TE:
PS/PTS:

☐ (✓) Con't on Attachment

1064 224

173

CORRECTIVE ACTION REPORT

AHV

(1) Unit S/U System Discip Serial: 0 - GLH - - 007

(2) Description of Deficiency

Discrepency between P&ID and Loop Diagram. Loop Diagram J-365-Q-1 shows a loop consisting of OFT 6539 A&B, OFSH 6539 A&B, OFSL 6539 A&B and OFYL 6539 A&B. P&ID M465-1 shows a loop consisting of OFT 6539 A&B OFR 6539 A&B, OFSL 6537 A&B and OFY 6539 A&B. Instrument Index lists NO OFY 6539 A&B, OFSH 6539 A&B and OFYL 6539 A&B.

NOTE: Drawings revised to address some of the above. P&ID & loop diagram still differ in some areas and index does not list all instruments on these dwgs.

EN Evans 9/5/79

Ron Lieb 5-22-79 1440

☐ (√) Con't on Attachment

(3) Recommended Corrective Action and Retest

Investigate and determine correct instrument loop and change P&ID, loop diagram or instrument index to reflect changes.

☐ (√) Con't on Attachment

(4) Related Documents and References

Instrument Index J-700 Rev X 8 PKG
Loop Diagram J-365-Q-1 Rev X 1 SUF
P&ID M465-1 Rev X 3 SUF

(5) ☒ Deficiency
☐ Design Chg
☐ Troubleshoot
☐ Maintenance
☐ Retest Only

(6) Initial: B P D

Action Subseqnt:

(7) Cause: 03

Category: 05

☐ Retest Req
☒ Q-Listed

NRC Reportability 10CFR50.55e

☒ Not Reportable — Paul K Wells 9-5-79

☐ Reportable; QA Notified _____ (8) Name Date

(9)

	Signature	Date	Time
Orig:	T. F. Bertalli Jr	5/22/79	1440
FE/TE:	Ron Evans	9/5/79	0945
PS/PTS:	Paul K Wells	9/6/79	1200

(10) Corrective Action or Response:

POOR ORIGINAL

Action Organization Representative

Date

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FIELD QUALITY ASSURANCE
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(11) Retest Complete
TE: Date

Completion Review Signature Date
QA:
TE:
PS/PTS:

☐ (√) Con't on Attachment

1061 225

148

CORRECTIVE ACTION REPORT

AHU

(1) Unit S/U System Discip Serial: 0 - GLH - I - 005

(2) Description of Deficiency

Discrepancy between P&ID and loop diagram. Loop Diagram J-365-2 shows a loop consisting of OMT 6578 A&B, OMC 6578 A&B and OMY 6506 A&B. P&ID M465-1 shows a loop consisting of OME 6506 A&B OMC 6506 A&B, OMY 6506 A&B and OMSH 6506 A&B. Instrument Index J-700 lists no instrument numbers for OMT 6578 A&B and OMC 6578 A&B.

Roger Sieff 5-25-79 0855

☐ (√)Con't on Attachment

(3) Recommended Corrective Action and Retest

Investigate and determine correct loop diagram and change either P&ID, Loop Diagram or Instrument Index to reflect change.

☐ (√)Con't on Attachment

(4) Related Documents and References

Instrument Index J-700 Rev X 8 pc
P&ID M 465-1 Rev X 3
Loop Diagram J-365-2 Rev X 2

POOR ORIGINAL

(5) ☒ Deficiency
☐ Design Chg
☐ Troubleshoot
☐ Maintenance
☐ Retest Only

(6) Initial: B.P.D
Action Subseqnt:

(7) Cause: 03
Category: 05
☐ Retest Req
☒ Q-Listed

NRC Reportability 10CFR50.55e
☒ Not Reportable Paul K Wells 4 Sept 79
☐ Reportable; QA Notified _____ (Name) _____ (Date)

(8)

(9) Signature

	Signature	Date	Time
Orig:	J. F. Corbett/dp	5/25/79	0858
FE/TE:	C M Evans	9/5/79	0830
PS/PTS:	Paul K Wells	6 Sept 79	1200

(10) Corrective Action or Response:

Action Organization Representative _____ Date _____

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MIDLAND, MICHIGAN

☐ (√) Con't on Attachment

(11) Retest Complete

		Date
TE:		
	Completion Review Signature	Date
QA:		
TE:		
PS/PTS:		

1061 226

F-037

CORRECTIVE ACTION REPORT

AHV

(1) Unit S/U System Discip Serial: 0 - GLH - I - 006

(2) Description of Deficiency

Discrepency between data sheet and MR. Instruments OFC 6505A/B and OFC 6520 A/B model numbers are, according to data sheet (M-349 Q attachment C, sheet 11 of 11) 400-1-20-31-55-A104; M 349-4-2 indicates it to be 440-1-20-31-55-A104, which corresponds to Leeds & Northrup vendor information.

☐ (✓) Con't on Attachment

(3) Recommended Corrective Action and Retest

Investigate and determine correct model number and correct appropriate reference material

☐ (✓) Con't on Attachment

(4) Related Documents and References

M-349- Attachment C, 11 of 11, Rev 3

M-349-2

POOR ORIGINAL

(5) ☒ Deficiency
☐ Design Chg
☐ Troubleshoot
☐ Maintenance
☐ Retest Only

(6) Initial: B P D

Action — Subseqnt:

(7) Cause: 0 3

Category: 0 5

☐ Retest Req
☒ Q-Listed

NRC Reportability 10CFR50.55e

☒ Not Reportable Paul K Miller 4 Sept 79

☐ Reportable; QA Notified _____ (Name / Date)

(8)

(9) Signature		Date	Time
Orig:	Roger Smith	5/14/79	1531
FE/TE:	[illegible]	9/5/79	1010
PS/PTS:	Paul K Miller	6/11/79	1200

(10) Corrective Action or Response:

Action Organization Representative

Date

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MIDLAND, MICHIGAN

☐ (✓) Con't on Attachment

(11) Retest Complete TE:	Date
Completion Review Signature	Date
QA:	
TE:	
PS/PTS:	

1064 227

29AUG79

CORRECTIVE ACTION REPORT

(1) Unit S/U System Discip Serial: 1 - GMA - E - 002

(2) Description of Deficiency (1) PRESENT SCHEME CANNOT BE PUT INTO AUTO MODE WITHOUT STARTING FAN DUE TO INCORRECT CS ON H&V PANEL 1C17S (2) RELAY 62-2 CONTACTS 3-5 SHOULD BE N.O. NOT N.C. AS SHOWN IN E-468 SH 53 REV 1 & SHOULD BE TDO. REVISION REQUIRED TO E-468 SH 55 REV 2 ALSO. (3) RELAY 62-2 CONTACTS 4-6 SHOULD BE N.C. - E 468 SH 55 REV 2 - NOT N.O. ACCORDING TO AGASTAT DATA SHEETS CONTACTS 1-5 OR 2-6 SHOULD BE UTILIZED INSTEAD OF 4-6. RELAY SHOULD BE TDC NOT TDO. (4) POSITION SWITCH ZS-1 (C-D) ON E-468 SH 53 REV 1 SHOULD BE REFERENCED TO SH 56 NOT SH 55 (5) J 423 SH 1 of 2 REV 1 SHOULD BE AS FOLLOWS BECAUSE CS1 & CS2 ARE IN SERIES:

START — CS 'start' ICP1X / CS 'start' ICP2X → EXISTING DIAGRAM SHOWS 'OR' GATE

☐ (✓) Con't on Attachment

(3) ~~Recommended Corrective Action and Retest~~ (6) LOGIC, J 423 SH 2 REV 1, INDICATES THAT THERE IS A COMPUTER INPUT ASSOCIATED WITH D/G SUPPLY FAN SCHEME BUT SCHEME E-468 DOES NOT INDICATE INPUT. (7) E-468 SH 54 REV 2, 74 & CS2 CONTACTS ARE REFERENCED TO E 402 SH 7 SHOULD BE SH. 5.

☐ (✓) Con't on Attachment

(4) Related Documents and References

E 468 SH 53 REV 1; SH 54 REV 2; SH 55 REV 2; SH 56 REV 2

J 423 SH 2 REV 1; SH 1 REV 1

POOR ORIGINAL

☒ Deficiency (5)
☐ Design Chg
☐ Troubleshoot
☐ Maintenance
☐ Retest Only

(6) Initial: B,P,D
Subseqnt:
ACTION

(7) Cause: 0,0,3
Category: 0,0,2
☐ Retest Req
☒ Q-Listed

NRC Reportability 10CFR50.55e (8)
☒ Not Reportable — GW Rowe
☐ Reportable; QA Notified — Paul K Wellings

(9) Signature	Name	Date	Time
Orig:	R Bradder / GW Rowe	9-24-79	11:45
FE/TE:	GW Rowe	9-24-79	11:45
PS/PTS:	Paul K Wellings	29AUG79	900

(10) Corrective Action or Response:

Action Organization Representative

Date

CONSUMERS POWER COMPANY
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☐ (✓) Con't on Attachment

(11) Retest Complete	Date
TE:	
Completion Review Signature	**Date**
QA:	
TE:	
PS/PTS:	

1067 228

0 30NS

CORRECTIVE ACTION REPORT

(1) Unit S/U System Discip Serial: 1 - 3 C A - I - 0 1 0

(2) Description of Deficiency

THE NAMEPLATE FOR DHR PUMP 1P-60A/B TEST FLOW INDICATOR 1FI-1051 READS INCORRECTLY (eg. form instead of flow).

☐ (√) Con't on Attachment

(3) Recommended Corrective Action and Retest

REPLACE NAMEPLATE WITH ONE READING IN ACCORDANCE WITH NP-J-730 PAGE 3 NAMEPLATE No. 1C014-03A

☐ (√) Con't on Attachment

(4) Related Documents and References

NP-J-730 Rev 1 NAMEPLATE LIST FOR CONTROL BOARD 1C14

(5) ☒ Deficiency
☐ Design Chg
☐ Troubleshoot
☐ Maintenance
☐ Retest Only

(6) Initial: B,P,C
ACTION Subseqnt:

(7) Cause: 01
Category: 02
☐ Retest Req
☒ Q-Listed

NRC Reportability 10CFR50.55e
☒ Not Reportable Paul Willing 30NS 79 (8)
☐ Reportable; QA Notified _____ Name _____ Date

(9) Signature

	Signature	Date	Time
Orig:	[illegible]	8/30/79	1300
FE/TE:	[illegible]	[illegible]	~1500
PS/PTS:	Paul Willing	9SEP79	1100

(10) Corrective Action or Response:

Action Organization Representative

_____ Date _____

CONSUMERS POWER COMPANY
RECEIVED
SEP 7 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

☐ (√) Con't on Attachment

(11) Retest Complete TE:	Date
Completion Review Signature	Date
QA:	
TE:	
PS/PTS:	

1064 229

107

CORRECTIVE ACTION REPORT

AHU

(1) Unit S/U System Discip Serial: 0 - GLH - I - 011

(2) **Description of Deficiency**

Discrepency between P&ID and Instrument Index. Instrument Index J-700 lists ~~two~~ three Flow elements, OFE 6575 and OFE 6575A ~~&B~~. P&ID shows only one flow element OFE 6575, also Instrument Index J-700 lists no MR For OFE 6575. Instrument Index lists MR J 232 and data Sheet 1232-28 for OFE 6575A ~~&B~~ but MR J 232 data sheets only go as high as 1232-27.

(*)

☐ (√) Con't on Attachment

(3) **Recommended Corrective Action and Retest**

Investigate and determine the correct flow element or elements and change P&ID or Instrument Index to reflect change. Also investigate and provide manufacter, model number and specifications on correct element or elements.

☐ (√) Con't on Attachment

(4) **Related Documents and References**

Instrument Index J-700 Rev X 8 pkg
MR J 232 Rev 6
P&ID M-465 Sh 2 Rev ~~5~~ 3

POOR ORIGINAL

☒ Deficiency (5)
☐ Design Chg
☐ Troubleshoot
☐ Maintenance
☐ Retest Only

(6) Initial: B.P.D
ACTION Subseqnt:

(7) Cause: 03
Category: 05
☐ Retest Req
☒ Q-Listed

NRC Reportability 10CFR50.55e
☒ Not Reportable Paul K Williams 9/5/79 (8)
☐ Reportable; QA Notified _____ Name _____ Date

(9) Signature

	Signature	Date	Time
Orig:	[illegible]	[illegible]	[illegible]
FE/TE:	[illegible]	9/5/79	1105
PS/PTS:	Paul K Williams	9/5/79	1200

(10) **Corrective Action or Response:**

* Rev. 8 to J-700 has ~~added~~ deleted OFE6575B.

RDS 7/24/79

Action Organization Representative

Date

CONSUMERS POWER COMPANY
RECEIVED
SEP 10 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

(11) Retest Complete TE: _____ Date

Completion Review Signature — Date

QA: _____
TE: _____
PS/PTS: _____

☐ (√) Con't on Attachment

1064 230

155

CORRECTIVE ACTION REPORT AHU

(1) Unit S/U System Discip Serial: 0 - 6 L H - I - 0 1 0

(2) Description of Deficiency
Discrepency between P&ID and instrument index. P&ID shows instrument OPIT 6524A, but Instrument Index J-700 lists the instrument as OPDI 6524A. Bechtel Drawing M150-138-4 lists the instrument as OPDI 6524A.

Roger Smith 5-30-79 0950

☐ (√)Con't on Attachment

(3) Recommended Corrective Action and Retest
Investigate and determine correct instrument number and change either P&ID, Instrument Index or Bechtel drawing.

☐ (√)Con't on Attachment

(4) Related Documents and References
Instrument Index J-700 Rev 4 & 5 PR
P&ID M465-1 Rev 3
Bechtel Drawing M150-138-4 Rev 0

POOR ORIGINAL

(5) ☒ Deficiency ☐ Design Chg ☐ Troubleshoot ☐ Maintenance ☐ Retest Only

(6) Initial: B P D
Subsequt:
ACTION

(7) Cause: 03
Category: 05
☐ Retest Req ☒ Q-Listed

NRC Reportability 10CFR50.55e
☒ Not Reportable
☐ Reportable; QA Notified

(8) Paul K Wellings 9/5/79
Name Date

(9)

Signature	Date	Time
Orig: C. F. Ciriello II	9/7/79	1450
FE/TE:		
PS/PTS:		

(10) Corrective Action or Response:
Rev 3 of M465 sh 1 has corrected this.

CAR-15 complete/cancelled 9/4/79
Lynn Svaan
Action Organization Representative Date

CONSUMERS POWER COMPANY
RECEIVED
SEP 10 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

☐ (√) Con't on Attachment

(11) Retest Complete
TE: NA Date

Completion Review Signature Date
QA: NA
TE: See Block #10 —
PS/PTS: Paul Wellings 6/4/79

1061 231

-045

CORRECTIVE ACTION REPORT

(1) Unit S/U System Discip Serial: 1 - E A O - I - 0 0 5

(2) Description of Deficiency

The input range for transmitters LFT 1211 and LFT 1241 is incorrect in Instrument Index I-200. The Instrument Index lines 0-100" H2O as the range. Panel mounted Data Sheet (I-1245 (4 Enclosure 1) gives the range as 0-50" H2O and a Flow Elements Data Sheet (I-1232-4 Enclosure 2) gives the range as 0-50" H2O as the correct range.

Both LFT's read. are

☐ (√) Con't on Attachment

(3) Recommended Corrective Action and Retest

Change Instrument Index I-200 to show correct range, 0-50" H2O.

☐ (√) Con't on Attachment

(4) Related Documents and References

Instrument Index I-200, Rev 8
Data Sheet I-1245-14 Rev 1
Data Sheet I-1232-4 Rev 4

D.F. 1412-79-12

(INT AK)

☒ Deficiency (5)
☐ Design Chg
☐ Troubleshoot
☐ Maintenance
☐ Retest Only

(6) Initial: A PP

Subseqnt:

ACTION

(7) Cause: A 3

Category: 0 5

☐ Retest Req
☒ Q-Listed

NRC Reportability 10CFR50.55e (8)
☒ Not Reportable
☐ Reportable; QA Notified

(9) Signature	Name	Date	Time
Orig:			
FE/TE:			
PS/PTS:			

(10) Corrective Action or Response:

POOR ORIGINAL

Action Organization Representative

Date

(BR)

CONSUMERS POWER COMPANY
RECEIVED
SEP 11 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

☐ (√) Con't on Attachment

(11) Retest Complete — TE: — Date

Completion Review Signature — Date

QA:
TE:
PS/PTS:

1064 232

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APPLICATION	ELOW	ELEMENT	TYPE	CAPACITANCE	ELECTRICAL	POWER SUPPLY	24 VDC	PNEUMATIC	
TYPE	ELECTRONIC		CONNECTION SIZE & TYPE	½" NPT		INTEGRAL AMPLIFIER	YES		
BLIND OR INDICATING	BLIND.								
MOUNTING	BRACKET					ENCLOSURE MATL.	ALUM		
OUTPUT RANGE	4-20 MADC					CONDUIT CONN. SIZE	½" NPT		
"Q" STATUS	NUCLEAR BOUNDARY					HERMETIC SEAL	NO	PURCH.	M.R./P.O. No. 7220-J-245
LOCATION (D)	AUX. BLDG								MFR.

INSTRUMENT TAG NO.	SERVICE	PROCESS FLUID	MAX. OF	NORM. PSIG	MAX. PSIG	SCALE RANGE	CALIB. RANGE	ENG. UNITS	SUPPR. SPRING SETTING	ELEV. SPRING SETTING	BODY MATL.	ELEM. MATL.	WETTED PARTS MATL.	MODEL NO. *	REV. LEVEL	NOTE
FT-1426B	FUEL POOL HT. EXCH	WATER	212	100	100		0-100	INCHES W.C	—	—	316SS	316SS	316SS		2.7	
FT-1426B	↓	↓	↓	↓	↓		↓	↓	—	—	↓	↓	↓		2.7	
FT-1427	↓	↓	122	115	139		↓	↓	—	—	↓	↓	↓		2.7	
FT-1951A	RS AIR COOLER		105	56	105		0-50		—	—					2.7	
FT-1951B	↓		241	↓	109		↓		—	—					2.7	
FT-1914A	↓		105	↓	105		↓		—	—					2.7	
FT-1914B	↓		241	↓	109		↓		—	—					2.7	
FT-1944A	↓		105	66	105		↓		—	—					2.7	
FT-1944B	↓		241	↓	116		↓		—	—					2.7	
FT-1921A	↓		105	↓	105		↓		—	—					2.7	
FT-1921B	↓		241	↓	115		↓		—	—					2.7	
FT-2995A	AUX. F.W. FLOW		316	1400	1600		0-600		—	—				1152DP5A22FF	2.7	
FT-2995B	↓		↓	↓	↓		↓		—	—				↓	2.8	
FT-2995A	↓		↓	↓	↓		↓		—	—				↓	2.8	
FT-2995B	↓	↓	↓	↓	↓		↓	↓	—	—	↓	↓	↓	↓	2.8	

POOR ORIGINAL

ORIGIN AAO

NOTES:
1. * SUPPLIED BY VENDOR
2. FOR LOCATION REFER 7220-E-1544 SH 3

NO	DATE	REVISIONS
1	4/79	ISSUED FOR PURCHASE
0	2/79	ISSUED FOR B.I.D.

DIFFERENTIAL PRESSURE TRANSMITTERS

MIDLAND PLANT UNITS 1 & 2
CONSUMERS POWER COMPANY

JOB # No. 7220

DATA SHEET NUMBER: J-1245-1A

REV: 1

FORM NO. J 10501

1064 233

Instrument No.	1FE-1914B	1FE-1921A	1FE-1921B	2FE-1944A	2FE-1944B
Service	RB AIR CLR SW OUTL 1VM-56A/C	SW INLT 1VM-56C/D	SW OUTL 1VM-56C/D	SW INLT 2VM-56B/D	SW OUTL 2VM-56B/D
Line or Equipment Ref	10"-1HBC-96	10"-1HBC-100	10"-1HBC-101	10"-2HBC-100	10"-2HBC-101
Commodity	WATER				
D-ass/temp max	110/241	110/105	110/241	110/105	110/241
Temperature oper °F	101	95	101	95	101
Press upstrm oper psig	50	60	50	60	50
Press dnstrm oper psig	49.1	59.1	49.1	59.1	49.1
Flow @ oper gpm	1080				
Flow @ max gpm	1440				
SP GR @ 60°F/@ flow temp	1.0				
Viscosity @ flow temp					
Solids %					
Qualities of flow					
Water diff "H 0"	50				
Pressure head loss psig	0.9				
Element: type	ORIFICE				
Size or thickness	1/8"				
Material	316 SS				
Construction	CONCENTRIC				
Pipe id (D) inches	10.07				
Bore (d)	7.173	7.172	7.173	7.172	7.173
Bore ratio (β)	0.7158	0.7157	0.7158	0.7157	0.7158
Flanges: type orifice	WELD NECK				
Pipe Material	SA-106 GrB				
Pipe size	10 INCH				
Pipe sched No.	40				
Rating & facing	300# RF				
Meter connection size	1/2" NPT				
Gaskets	FLEXITALLIC ?				
Accessories	STYLE CG (4) (300 #				
P.O. (& Item) No. J-232	2	2	2	2	2
PURCH. MANUFACTURER					
PURCH. MODEL NO.					
GENERAL P. & I. D. NUMBER	M-419	M-419	M-419	M-419	M-419
GENERAL SERVICE					

POOR ORIGINAL

NO.	DATE	REVISIONS				NOTES
4	29DEC78	REVISED AND REDRAWN	DNS	DHT		
3	21DEC78	REVISED TO ADD VENDOR INFO	DAT DWL	GAW	HMM	
0	11-17-76	ISSUED FOR BID	WSR	GTR	EDA	

ORIGIN C.S. AAO

BECHTEL

ORIFICE PLATE DETAILS

MIDLAND PLANT UNITS 1&2
CONSUMERS POWER COMPANY

JOB No. 7220

DATA SHEET NUMBER J-1232-6

FORM NO. J 333 (8/68)

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Enclosure 2

CORRECTIVE ACTION REPORT

(1) Unit S/U System Discip Serial: 1 - 1 4 0 - . . - 0 0 4

(2) **Description of Deficiency**

Incorrect information in Instrument Index. Instrument Index J-100 gives the range for 1FT 1914 AFB as 0-500 "H2O. The Transmitter data sheet (J-1241-14 Enclosure 1) gives 0-[illegible] and Flow element data sheet (J-1232-05, J-1232-06 Enclosure 3 [illegible]) gives 0-50" H2O which is the correct range.

☐ (√) Con't on Attachment

(3) **Recommended Corrective Action and Retest**

Change the Instrument Index J-100 to the correct range specified.

☐ (√) Con't on Attachment

(4) **Related Documents and References**

Instrument Index J-100 Rev 3 PK
Data Sheet J-1241-14 Rev 1
Data Sheet J-1232-5&6 Rev 3

☒ Deficiency (5)
☐ Design Chg
☐ Troubleshoot
☐ Maintenance
☐ Retest Only

(6) Initial: B. P. S.
Subseqnt:
ACTION

(7) Cause: 03
Category: 05
☐ Retest Req
☒ Q-Listed

NRC Reportability 10CFR50.55e (8)
☒ Not Reportable Paul K. Shiller 9/10/79
☐ Reportable; QA Notified _____
Name Date

(9) Signature

	Signature	Date	Time
Orig:	T. C. Cooke	9/9	1115
FE/TE:	[illegible]	[illegible]	[illegible]
PS/PTS:	[illegible]	09/09/79	0700

(10) Corrective Action or Response:

POOR ORIGINAL

Action Organization Representative

_____ Date _____

CONSUMERS POWER COMPANY
RECEIVED
SEP 11 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

(11) Retest Complete — Date

TE: _____

Completion Review Signature — Date

QA: _____
TE: _____
PS/PTS: _____

☐ (√) Con't on Attachment

1064 235

FORM NO. J 0710 (8/69)

GENERAL		ELEMENT		ELECTRICAL		PNEUMATIC	
APPLICATION	FLOW	TYPE	CAPACITANCE	POWER SUPPLY	24 VDC		
TYPE	ELECTRONIC	CONNECTION SIZE & TYPE	½" NPT	INTEGRAL AMPLIFIER	YES		
BLIND OR INDICATING	BLIND.						
MOUNTING	BRACKET			ENCLOSURE MATL.	ALUM		
OUTPUT RANGE	4-20mADC			CONDUIT CONN. SIZE	½" NPT		
"Q" STATUS	NUCLEAR BOUNDRY			HERMETIC SEAL	NO	PURCH.	M.R.P.O. No. 7220
LOCATION (2)	AUX. BLDG						MFR.

REV.	INSTRUMENT TAG NO.	SERVICE	PROCESS FLUID	PROCESS MAX. °F	PROCESS NORM. PSIG	PROCESS MAX. PSIG	SCALE RANGE	CALIB. RANGE	ENG. UNITS	SUPPR. SPRING SETTING	ELEV. SPRING SETTING	BODY MATL.	ELEM. MATL.	WETTED PARTS MATL.	MODEL NO.	
1	IFT-1436A	FUEL POOL HT. EXCH	WATER	212	100	100		0-100	INCHES W.C	—	—	316SS	316SS	316SS	[illegible]	1
1	IFT-1436B									—	—					2
1	IFT-1447			122	115	139				—	—					3
1	IFT-1401A	RB AIR COOLERS		105	56	105		0-50		—	—					4
1	IFT-1401B			241		109				—	—					5
1	IFT-1417A			105		105				—	—					6
1	IFT-1414B			241		109				—	—					7
1	IFT-1417A			105	66	105				—	—					8
1	IFT-1414B			241		116				—	—					9
1	IFT-1421A			105		105				—	—					10
1	IFT-1421B			241		116				—	—					11
1	IFT-3975A	AUX. F.W. FLOW		316	1400	1600		0-600		—	—				[illegible]	12
1	IFT-3975B									—	—					13
1	IFT-3975A									—	—					14
1	IFT-3975B									—	—					15

POOR ORIGINAL

ORIGIN AAO

NOTES
1. * SUPPLIED BY VENDOR
2. FOR LOCATION REFER 7220-I-1544 SH 3

NO.	DATE	REVISIONS
1	4/79	ISSUED FOR PURCHASE
0	12/78	ISSUED FOR B.I.D.

DIFFERENTIAL PRESSURE TRANSMITTERS

MIDLAND PLANT UNITS 1 & 2
CONSUMERS POWER COMPANY

JOB No. 7220
DATA SHEET NUMBER J-1245-14
REV 1

FORM NO. J 0710 (8/69)

Enclosure 1

Enclosure 2

POOR ORIGINAL

INSTRUMENT NO.	2FE-1951B	1FE-1841	1FE-1846	2FE-1251	1FE-1014
SERVICE	BB AIR CLR 2V14-5GA/C	DIESEL GEN CLR 1E-28A SW OUTL	DIESEL GEN CLR 1E-28B SW OUTL	DIESEL GEN CLR 2E-28A SW OUTL	UR AIR CL 1VM-5GA SW INLT
LINE OR EQUIPMENT REF.	10"-2HBC-96	8"-1HBC 311	8"-1HBC 82	8"-2HBC 82	10"-1HBC 95
COMMODITY	WATER	WATER	WATER	WATER	WATER
PRESSURE/TEMP. MAX.	110/241	110/130	110/130	110/150	110/105
TEMPERATURE OPERAT. °F	101	120	120	130	95
PRESS. UPSTREAM OPERAT. PSIG	50	65	65	70	60
PRESS. DOWNSTR. OPERAT. PSIG	49.1	41.1	41.1	41.1	51.1
FLOW @ OPERATING	1080	1800	1800	1080	1080
FLOW @ MAX.	1440	2200	2200	1440	1440
SP. GR. @ 50°F/ @ FLOW TEMP.	1.0/	1.0/0.987	1.0/0.987	1.0	1.0
VISCOSITY @ FLOW TEMP.					
SOLIDS % PPM	3	≤ 5000	≤ 5000		
QUALITY OF FLOW					
METER DIFFERENTIAL H=0	50	200	200	200	50
UNRECOVERED HEAD LOSS	0.4 PSIG	3.4 PSIG	4.5 PSIG	3.4 PSIG	0.1 PSIG
ELEMENT: TYPE	ORIFICE				
☆ SIZE OR THICKNESS	2 1.5"				
MATERIAL	SS316				
CONSTRUCTION	CONCENTRIC				
PIPE I. D. (D)	10.02"	7.981			10.02"
☆ BORE (d)	7.173	5.122	6.194	5.922	7.172
☆ BETA RATIO (B)	3 0.7155	0.7430	0.6182	0.7420	0.7157
FLANGES: TYPE ORIFICE	WELD NECK				
MATERIAL	SA-105 GRB				
PIPE SIZE	10"	8"			10"
PIPE SCHEDULE NO.	40				
RATING & FACING	150# R.F.				
METER CONN. : SIZE	1/2" NPT				
GASKETS	FLEXITALLIC				
ACCESSORIES:	STYLE CG				

NOTE: ☆ VENDOR SUPPLIED INFORMATION

MANUFACTURER					
MODEL NO.					
VENDOR					
P. O. (& ITEM) NO. J-232	2	3	3	3	2
FOREIGN PRINT NO.					
INSTRUM. STD. REF. NO.					
P. & I. DIAGRAM REF. NO.	M-417	M-418	M-419	M-419	

NO.	DATE	REVISION	BY	CHK	DESIGN SUPV.
3	12/5/78	REVISED TO RTD VENDOR INFO.	DMT	MW	DK
2	8/9/77	REVISED 1 REDRAWN	TK	MW	KMG
1	4/22/77	ISSUED FOR USE	MW	BYHR	DK
0	11-17-76	Issued for Bid	MW	CMC	KMG

SCALE | DESIGNED | DRAWN

ORIGIN CS

Consumers Power Co.
FLOW ELEMENTS

1064237

JOB NO. 7220

REV.

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Enclosure 3

POOR ORIGINAL

INSTRUMENT NO.	1FE-1914B	1FE-1921A	1FE-1921B	2FE-1944	2FE-1
SERVICE	RB AIR CLR	RB AIR CLR	RB AIR CLR	RB AIR CLR	RB AI
	1VM-5A/C	1VM-5B/D	1VM-5A/D	2VM-5A/D	2VM-5
	SW OUTL	SW INTL	SW OUTL	SW INTL	SW O
LINE OR EQUIPMENT REF.	10"-1WBC-96	10"-1WBC-100	10"-1WBC-101	10"-2WBC-100	10"-2 101
COMMODITY	WATER	WATER	WATER	WATER	WATE
PRESSURE/TEMP. MAX.	110/241	110/105	110/241	110/105	110/
TEMPERATURE OPERAT. °F	101	95	101	95	10
PRESS. UPSTREAM OPERAT. PSIG	3 50	60	50	60	50
PRESS. DOWNSTR. OPERAT. PSIG	49.1	59.1	49.1	59.1	49.1
FLOW @ OPERAT. GPM	1080				
FLOW @ MAX. GPM	1240				
SP. GR. @ 60°F/ @ FLOW TEMP.	1.01	1.01	1.01	1.01	1.0
VISCOSITY @ FLOW TEMP.					
SOLIDS %	3				
QUALITY OF FLOW					
METER DIFFERENTIAL "H2O	50	50	50	50	50
UNRECOVERED HEAD LOSS	3 0.9 PSIG	0.9 PSIG	0.9 PSIG	0.9 PSIG	0.9
ELEMENT: TYPE	ORIFICE				
SIZE OR THICKNESS	3 1"				
MATERIAL	SS				
CONSTRUCTION	CONCENTRIC				
PIPE I. D. (D)	10.02				
BORE (d)	3 7.174	7.172	7.173	7.172	7.17
BETA RATIO (B)	0.7155	0.7157	0.7154	0.7157	0.715
FLANGES: TYPE	ORIFICE	WELD NECK			
MATERIAL	SA-106, GR.B				
PIPE SIZE	10"	10"	10"	10"	10"
PIPE SCHEDULE NO.	40	40	40	40	40
RATING & FACING	150# R.F.				
METER CONN. : SIZE	1/2" NPT				
GASKETS	FLEXITALLIC				
ACCESSORIES:	STYLE CG				
	150.#				
NOTE:	⊠ VENDOR SUPPLIED INFORMATION				
MANUFACTURER					
MODEL NO.					
VENDOR					
P. O. (& ITEM) NO. J-232	2	2	2	2	2
FOREIGN PRINT NO.					
INSTRUM. STD. REF. NO.					
P. & I. DIAGRAM REF. NO.	M-419	M-419	M-419	M-419	M-41

NO.	DATE	REVISION	BY	CH'K
2	12/5/77	REVISED TO ADD VENDOR INFO.	DH	MK
1	8/9/77	REVISED & REWRITTEN	TS	MK
0	4/22/77	ISSUED FOR USE	TS	CMR
	11-17-76	ISSUED FOR BID	WPK	CMR

SCALE | DESIGNED | DRAWN | DESIGN SUPV.

ORIGIN CS ARO

CONSUMERS POWER Co.
FLOW ELEMENTS
ORIFICE PLATES (NUCLEAR)

JOB NO. 7220
MIDLAND UNITS 1 & 2

1061 238

J-FOI (11/73)

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3/11/79

CORRECTIVE ACTION REPORT

(1) Unit S/U System Discip Serial: 2 - PNA - E - 002

(2) Description of Deficiency

Control board V109B Serial #317 was used in the checkout of Battery Charger 2D27 and was found to be bad. At the present time we have used SCR2 from this board to replace SCR3 on Control Board V109B Serial #378 which had a bad SCR3 (located in Battery Charger 1D36)

Control Board V109B Serial#317 is out of Battery Charger 2D15

☐ (√)Con't on Attachment

(3) Recommended Corrective Action and Retest

Send Control Board V109B Serial#317 to Solid States Control Co. to be repaired & checked out. This Circuit Board will be checked when Battery Charger 2D15 is check out.

☐ (√)Con't on Attachment

(4) Related Documents and References

E-11-3-3

(5) ☒ Deficiency ☐ Design Chg ☐ Troubleshoot ☐ Maintenance ☐ Retest Only

(6) Initial: B.P.C

Action Subseqnt:

(7) Cause: 4.0

Category: 5.0

☐ Retest Req ☒ Q-Listed

(8) NRC Reportability 10CFR50.55e

☒ Not Reportable

☐ Reportable;QA Notified

(9)

Signature	Name	Date	Time
Orig:			
FE/TE:			
PS/PTS:			

(10) Corrective Action or Response:

POOR ORIGINAL

Action Organization Representative

Date

CONSUMERS POWER COMPANY
RECEIVED
SEP 11 1979
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

☐ (√) Con't on Attachment

(11) Retest Complete — Date

TE:

Completion Review Signature — Date

QA:

TE:

PS/PTS:

1064 239

1/2

CORRECTIVE ACTION REPORT

AHV

(1) Unit S/U System Discip Serial: 0 - S L H - I - 0 0 8

(2) **Description of Deficiency**

Discrepency in instrument loop between P&ID and Diagram J-365(Q) Sh 6 & 7. P&ID M465 Sh 2 shows a instrument loop of OFT 6575 A&B, OFSH 6575 A&B, OFC 6575 A&B and OPDIC 6575 A&B. OPDIC 6575 A&B has two inputs shown, one from OFC 6575 A&B the other one from OPDT 6575 A&B. Diagram J-365 (Q) Sh 6 shows a square root ext. OFY 6575 A&B, but does not show OFSH 6575 A&B, or an output from OFC 6575 A&B to OPDIC 6575 A&B. Diagram J-365 (Q) Sh 7 shows OPDT 6575 A&B as the only input to OPDIC 6575 A&B. Instrument Index J-700 lists no OFY 6575 A&B

↳ answered by J-365 sh 6&7 rev 1. T.M. Evans

Rec'd 9-5-79 1104

(√) Con't on Attachment

(3) **Recommended Corrective Action and Retest**

Investigate and determine correct instrument loop and change P&ID or J-365 (Q) Sh 6 & 7. Also correct Instrument Index J-700 if change is needed

(√) Con't on Attachment

(4) **Related Documents and References**

Instrument Index J-700 Rev 8 Pen
Diagram J-365 (Q) 7 Rev 0
Diagram J-365 (Q) 6 Rev 0
P&ID M 465 Sh 2 Rev 2

POOR ORIGINAL

(5) ☒ Deficiency
☐ De ign Chg
☐ Troubleshoot
☐ Maintenance
☐ Retest Only

(6) Initial: B.P.D
ACTION — Subseqnt:

(7) Cause: 03
Category: 05
☐ Retest Req
☒ Q-Listed

NRC Reportability 10CFR50.55e
☒ Not Reportable — (8) 9/11/79
☐ Reportable; QA Notified

(9) Signature	Name	Date	Time
Orig:			1504
FE/TE:			0830
PS/PTS:			0700

(10) **Corrective Action or Response:**

J-365 sheets 6 & 7 are now rev 1 & address the deficiencies. Instrument index has not been revised to include "FY." T.M. Evans

Action Organization Representative

Date

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Completion Review Signature — Date
QA:
TE:
PS/PTS:

(√) Con't on Attachment

1064 240