

50-329

MIDLAND #1

MONTHLY NONCONFORMANCE REPORT FOR 9/78.

w/letter dated 10-25-78....

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1048	11-10-77	Dwg. 612 sht. 3. After valve was QC inspected and installed, hardware was removed making quality indeter.	Rework	4-24-78	K. Roberge
1049	11-11-77	FPG-F10-56. Sand and grit in climate changers rendering the quality of the units indeterminatel&2VM-55-A&B	Rework	6-7-78	E. Estes
1050	11-11-77	M-106AC. Shopwelds do not conform as called out by applicable sketch for 28 hangers.	Use as is Rework		
1051	11-11-77	C-230. Air entrainment of concrete at point of placement too high. C(787.5)a	Use As Is	12-30-77	S. Kirker
1052	11-14-77	M-326. Grout holes on hanger plates are placed too close to plade edge. Dwgs. 1-603-7-14 & 1-603-8-22	Use As Is	12-28-77	R. A. Moray
1053	11-15-77	Hanger dwgs. 1-612-4-16 & 2-604-7-3. Field fillet welds are undersized or oversized.	Use as is		
1054	11-16-77	C-1031. Rebar dowel mislocated 10" south of what is called out on dwg. Diesel-Generator bldg.	Repair	4-18-78	D. Osborn
1055	11-16-77	C-210. 4A mat'l rec'd on 10-3-77 representing 50 tons of mat'l failed the gradation.	Reject	12-21-77	D. L. Osborn
1056	11-16-77	C-230. High air entrainment in concrete at point of placement. SWI(654.2)a'	Use As Is	9-12-78 12-30-77	S. Kirker
1057	11-17-77	C-97. 2-#6 dowels are not projecting from const. joint and 4-#6 have short splices. SW pump structure.	Repair Use As Is	1-6-78	D. L. Osborn
1058	11-17-77	Dwg. C-96. 4-#6 rebar omitted between El. 632'6" and 634'8". Service Water Intake Structure	Repair		
1059	11-18-77	G-27. Low hydrogen electrodes used to make Struct. Steel Welds were allowed out of ovens for over 4 hours.			
1060	11-21-77	C-208. Water tested on 9-6-77 & 9-19-77 had an initial set time of -25 minutes from the standard (+10)	Use as is	1-5-78	B. T. Cheek
1061	11-21-77	C-37. A-307 slitted bolts were received with no manufacturer's mark.	Reject	12-5-77	C. Gwin
1062	11-22-77	C-233. Embeds received with improper welds, spatter, etc.	Rework Reject	12-14-77	D. L. Osborn
1063	11-22-77	E-42. Raceways and Seismic Supports installed without notification of QC.	Rework	5-17-78	D. Thompson
1064	11-22-77	C-230. Flyash user tests have specific surface variations greater than allowed by ASTM C-618.	Use As Is	1-12-78	B. T. Cheek
1065	11-22-77	C-230. Cement user test results with Tricalcium-Aluminate higher than allowed by ASTM C-150.	Use As Is	1-13-78	B. T. Cheek
1066	11-23-77	E-6. ANSI compliance certification not supplied with circuit breakers.	Use as is	4-6-78	D. C. Thompson



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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1219	2-13-78	F-3106. Five Star Grout, Test SP426 failed Compressive strength, location of 32 bags indeterminate	Use as is	2-14-78	R. Montreuil
1220	2-13-78	M-106AC. 16 pc's. 1 3/4" X 5" SA515 Grade 65 Lugs. Quality Documentation package has not been received.	Doc.Rework	2-21-78	D. Duff
1221	2-13-78	M-106AC. Shop Order E-MD-014, E-MD-084, E-ME-914, E-ME-979, welds do not meet criteria of ITT's Procedure.	Use as is Rework		
1222	2-15-77	M-326. 80 Hangers consisting of 300 Field Welds, undersize welds/defects. Aux. 1 & 2, Cont. #2	Use as is Rework		
1223	2-15-78	M-305. 11,667' 4" of 2" Sch 80 CS Pipe, delivered to jobsite with partial markings, illegible or none at all.	Reject	5-15-78	H. D. Foster
1224	2-15-78	M-104AC. Pipe Spool 2DBC-9-S634-7-4, received at the jobsite dented.	Rework	8-2-78	K. Roberge
1225	2-15-78	M-75AC. Wrong revision of the G-321D form was received with the Quality Verification Documentation for OP-75B	Doc. Rework	3-9-78	D. Delaney
1226	2-16-78	Grout Cubes. 68 cu. feet of grout placed with only 6 sets of cubes made. Liner Plate Repair El. 672'+	Use as is	2-17-78	B. Cheek
1227	2-17-78	Dwg. 00-550-01-BT, Anchor Bolt Sleeve, plate & nut was found to be off-center.	Rework	4-12-78	A. Lamach
1228	2-17-78	M-106AC. Shop Orders E-MD-011, 015, 031, & 033 have welds which do not meet the acceptance criteria.	Rework Use as is		/
1229	2-17-78	E-20. Six Electrical Penetrations, cable chaffing, no inert gas blanket, Doc. not received, blockage.	Repair		
1230	2-20-78	Dwg. C-416. Embed #638-14-21 is not in correct location as called out by dwg.	Use as is	2-27-78	D. Osborn
1231	2-21-78	M-111AC. Flued Hd IZ3, heat code does not agree with Doc. rec'd. IZ18 no impact testing results/w Doc. pkg.	Doc. Rework	3-13-78	J. Slifer
1232	2-22-78	C-233. 2 Tank Support Wall Embeds, received at the jobsite with sheet 3 of the G-321D form missing.	No Nonconformance	2-24-78	J. R. Slifer
1233	2-23-78	C-305. Bundled bars cut without Project or Resident Engineering approval.	Use as is	6-16-78	J. Moyers
1234	2-23-78	C-230. Concrete Air Content, for pour A(659)p placed with high and indeterminate air	Use as is	Telex 3-16-78 3-24-78	S. Kirker D. Osborn
1235	2-21-78	M-305. ASME SA-193 Grade B7 Studs, mat'l marked ASME SA194, Documentation shows mat'l to be SA193.	Reject	6-2-78	T. Christofferson
1236	2-23-78	M-54AC. RB Spray Pumps, 1 radiographic report missing, Motor Operators on pumps tagged wrong.	NA & Doc.Rework		
1237	2-23-78	J-201. Main Control Boards, test reports sent do not agree with specification, finish paint record not certified.	Doc.Rework Use as is	9-13-78	J. Slifer

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1352	5-17-78	E-42. Seismic Cable Tray Support - A325 bolts were torqued with wrench found to be out of calibration. Aux.	Rework	9-27-78	K. Brinster
1353	5-17-78	E-20. Elec. Penetration Assemblies - Doc. Pkg. not received at jobsite. Pent. 22152 has 0 psig reading.	Doc. Rework Std. Repair		
1354	5-18-78	E-20. Elec. Penetration Assemblies - Doc. Pkg not received at jobsite. s/n AS-131-5 Nameplate discrepancy.	Doc. Rework Std. Repair		
1355	5-18-78	Dwg. C-229. FPGW's shown on Dwg. lack details of groove welded joints and preparation of matl's. Aux. El. 704'	Use as is	6-30-78	J. C. Huron
1356	5-18-78	G-27. FSK-MPC-2-2021 - The WR-5 and WR-6s for FSK-MPC-2-2021 Field Weld 4 have been lost during in-process welding.	Use as is	6-7-78	J. C. Huron
1357	5-18-78	C-653. Arc Gouges on Beam, caused by faulty welding cable. Cont. #2 El. 659'	Repair		
1358	5-18-78	M-1.31 & 1.32. B&W QA Data Packages for Instrumentation Cabinets have not been received.	Doc. Rework		
1359	5-18-78	J-202. Welding was begun on Inst. Panel 2C150 with no proper authorization. Elev. 685' Aux. 2	Rework	7-19-78	J. C. Huron
1360	5-22-78	C-304. FAW's found to be unacceptable due to undersize oversize, and other weld defects. Aux. Bldg.	Repair Use as is		
1361	5-23-78	M-104A. Pipe Spool 2FCB-14-S604-5-2 cannot be uniquely identified - 2 spools have same number.	Rework Use as is	8-30-78	R. Moray
1362	5-24-78	C-231. Cadweld test splices were lost exceeding test frequency for production and sister splices.	Use as is	8-4-78	S. Kirker
1363	5-25-78	Dwg. C-651. Angle to E-3 #mbd fillet weld undersized Cont. #2 Elev. 626'	Rework	9-29-78	J.C. Huron
1364	5-30-78	A-13. Compressive strength of Type M mortar does not meet spec. requirements.	Use as is	6-20-78	T. Lieb
1365	5-26-78	M-215. 10 pcs CS Pipe - 2 pcs removed from receiving without QC inspection, traceable heats not marked, no traceable doc.	Reject		
1366	5-26-78	M-123C. Check Valves 2 1/2-CGB-CK-1 S/N 2N-799 & 2 1/2-CGB-CK-1 S/N 2N-789 are missing the Hinge Pin Covers. Aux. 605'	Rework		
1367	5-31-78	Dwg. C-195. MCC Units Fillet Welds - Distance between welds do not agree with that called out on dwg. Aux.	Use as is	6-22-78	J. C. Huron
1368	5-31-78	C-208. Five concrete curing tanks stored in temperatures exceeding requirements called out by ASTM C-31-69.	Use as is	6-15-78	T. Lieb
1369	6-1-78	M-104A. Two Pipe Spools have the same spool number. 1FCB-14-S603-5-2 - Aux. Elev. 600'	Use as is	8-28-78	K. Nilson
1370	6-2-78	M-336. Nuclear Wye Strainers - Code data plates detached from strainers, incorrectly identified, G-321D incorrect.	Doc. Rework		



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1409	7-17-78	Dwg. C-96. Mislocated Anchor Bolts on sluice gate frame extensions.	Repair		
1410	7-18-78	M-1.19. Nuclear Power Generation Division QA Hold placed on C of C for Core Flooding Tank - 1T-63A	Doc. Rework		
1411	7-18-78	M-118A. Numerous documentation problems for main steam isolation valve.	Doc. Rework		
1412	7-18-78	C-198. Rebar dowels broken off during installation of foundations for safeguards chilled water pumps	Repair		
1413	7-19-78	M-132AC. Quality Verification Doc. not rec'd for valve returned from the Vendor on NCR 1216	Doc. Rework		
1414	7-19-78	C-24. G-321-D rec'd w/motor operated lifting devices has revisions that vary from the specification.	Doc. Rework	8-8-78	T. Christofferson
1415	7-20-78	C-94. Use of D 1 Concrete in the Service Water Pump Structure	Use as is	9-1-78	B. T. Cheek
1416	7-21-78	J-201. Certification of compliance not available for Control Boards.	Doc. Rework	8-18-78	K. Deitz
1417	7-21-78	E-19. Required documentation is not available for AC Power Supplies.	Doc. Rework	9-15-78	K. Deitz
1418	7-21-78	C-233 Required Documentation is not available for NPS shipment number NPSI-6837/cc	Doc. Rework	8-4-78	R. Montreuil
1419	7-24-78	C-208. 1 1/2" Aggregate failed to meet gradation test	Use as is	9-19-78	T. Lieb
1420	7-24-78	M-114. Elec. Motor Drivers/Aux. Feedwater Pumps. Seismic calculations have not been supplied to Project prior to shipment release.	Doc. Rework		
1421	7-25-78	M-104. Missing Documentation for Fabricated Pipe 2HCB-50-S614-3-1.	Rework	9-29-78	R. Moray
1422	7-25-78	CRDM'S Position Indicator's - Humidity of storage area to high, making quality of items indeterminate.			
1423	7-25-78	C-304. Wireway Support was fabricated without the use of a design drawing. Elev. 646. Aux.	N/A		
1424	7-25-78	M-104A. Spool 2 HBC-54-614-3-1A - Wall thickness is less than minimum allowable thickness. Elev. 605' 273°			
1425	7-25-78	J-229. Temperature Switch Thermowells - MTR has not been certified by mat'l manufacture as required.	N/A	7-26-78	J. Slifer
1426	7-26-78	FPG -F1-70. Waterstop in storage area not covered - exposed to direct sunlight.	Reject		
1427	7-26-78	M-1.17. Pump stuffing box flange on the same side as the motor coupling-Decay Ht. Rem Pump. 2P60A	Reject	8-22-78	J. Slifer



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11428	7-26-78	Dwg. M-848. C6x10.5 Mechanical Inserts were installed exceeding the 6" tolerance.	Use as is	9-26-78	P. VanderVeer
11429	7-26-78	M-104A. Pipe Spools - 2CCB-24-S604-4-3 radiographic examination not performed, 2GCB-16-S613-2-2 spool dented.	Doc. Rework Std. Repair		
11430	7-26-78	M-104A. Quality Verification Documentation sent is indeterminate. (2 Spools)	N/A	7-31-78	M. Donovan
11431	7-27-78	C-231. Block Wall #18 - Was found with a dry surface Elev. 659'	Use as is	8-30-78	S. Kirker
11432	7-27-78	M-104A. Pipe Spool 1HCB-19-S612-8-4 - No Documentation received for repair work done, rust on the exterior of pipe.	Reject		
11433	7-28-78	M-125C. 3 Nuclear Service Valves - Documentation pkgs contain illegible & untraceable documentation.	Doc. Rework		
11434	7-28-78	J-256AC. Nuclear Service Solenoid Valves - Documentation missing cleaning verification report.	Doc. Rework	8-18-78	D. Delaney
11435	7-28-78	E-7AC. Motor Control Center, MCC-2B23 Sections 1,2,3, 4, & 5 was delivered to the jobsite with the top crushed.	Rework		
11436	7-31-78	Dwg. C-99. AWS W18x55 Beams & Stiffeners - Welded without a Fit up inspection. Ser. Water Pump Struc. Elev. 635'	Use as is	8-7-78	J. C. Huron
11437	7-31-78	M-125C. 2 6" HCC-GT-DL Valves - Actual bore of each valve does not agree with that called out by Vendor Dwg.	Reject	9-21-78	J. Slifer
11438	7-31-78	M-204. Flange Connections - Flanges were torqued up without the use of a lubricant.	N/A	9-8-78	L. Prown
11439	7-31-78	M-305. Certification attached to Albert Pipe Letter does not indicate applicable addendum of the code.	Doc. Rework		
11440	7-31-78	M-104A. Illegible or damaged Code Data Report and associated records- ITT Grinnell	Doc. Rework	8-25-78	K. Deitz
11441	7-31-78	FSK-M-OHCC-72-1. Socket weld made without an IR written or a WR-6 evident.	Use as is		
11442	7-31-78	BQAM, Stock ASME-Sec. NF Mat'l PO's issued to Supplier w/o Procurement Insp. Dept. survey being accomplished.	Use as is	8-22-78	J. Slifer
11443	8-1-78	J-256AC. Nuclear Service Solenoid Valves - Cleaning Verification Reports not included in Doc. Pkg.	Doc. Rework	9-13-78	D. Delaney
11444	8-1-78	F-22282. 3/4" x 4" and 5/8" x 2 3/4 Stud Bolts - are stamped with the wrong heat code.	Doc Rework		
11445	8-1-78	F-28350. 8 pcs. of 1 1/2" x 1'-6" x 1'-4" Shim Plates - Certified Material Test Reports were not received.	Doc. Rework		
11446	8-1-78	F-28055. 20 pcs SS Nuts Grade 8F - Do not meet marking req. <i>Concrete's</i>	Reject	9-28-78	R. Montreuil



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11447	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
11448	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		
11449	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
11450	8-2-78	M-106AC. Pipe Hanger EMD-060-01, No Quality Verification Documentation received on site for this material.	Doc. Rework	9-1-78	R. Montreuil
11451	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
11452	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
11453	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 8-11-78	B. Check
11454	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
11455	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
11456	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
11457	8-3-78	M-117AC. Valve 6"-EPB-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
11458	8-4-78	E-42/ C-305 Expansion anchors not installed with required embedment.			
11459	8-4-78	M-104A. 2 Spools, 1ELB-9-S631-1-9, 2ELB-3-S639-13-1, delivered to site with no desiccant/rust scale.	Rework		
11460	8-8-78	J-256. Valves, No Cleaning Verification Report was included in the documentation pkg.	Doc. Rework		
11461	8-7-78	M-114AC. Turbine Drivers for Aux. Feedwater Pumps 1Po5B & 2Po5B. Doc pkgs & Form G-321D do not agree.	Doc. Rework		
11462	8-8-78	M-61. Makeup Filters & Spare Filter Cartridges - Misc. Documentation problems, no radiographic film received.	Doc. Rework	8-25-78	D. Delaney
11463	8-8-78	M-106AC. Pipe Hanger 657-14-10 is required to be painted in accordance with Spec. FC-49, Mat'l received unpainted.	Rework		
11464	8-9-78	F-3103. Struc. Steel Beams - delivered to the jobsite with re-entrant corners cut past the point of tangency.	Reject		
11465	8-9-78	M-204. Emer. Diesel Oil Supply Lines - have permanent welded attachments for which mat'l cert. has not been furnished.			



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11466	8-10-78	J-204. Salamic Instrument Rack - tagging of rack does not agree with Bechtel Dwg. J-393. (panel 2C166)	Rework	9-8-78	J. Slifer
11467	8-10-78	J-204. Differential Pressure transmitter - Non-Q documentation was delivered. (1LT-2107A & 2LT-2207A)	Reject		
11468	8-11-78	M-305. Material received against M-305 without the required traceability.	Doc. Rework Reject		
11469	8-11-78	F-26182. 2 pcs 2 1/2" 45° CS Elbows - manufactures name and heat number are illegible.	Reject		
11470	8-11-78	M-1.7. Reactor Coolant Pump Motor Flywheel - Data pkg does not have a signed B & W NPGD Cert. of Conformance.	Doc. Rework		
11471	8-15-78	F-18375. Deformed Bar Anchors, do not meet min. tensile strength according to documentation received.	Use as is	9-13-78	T. Christofferson
11472	8-16-78	M-117AC. Nuclear Service Valves - Items # 11.1, 11.2, 11.3, 12.1 have numerous documentation problems.	Doc. Rework		
11473	8-15-78	F-27833. Zone 5A Rip Rap - mat'l received on ticket # 77389 does not meet size requirement called out by PG.	Reject	9-27-78	R. Montreuil
11474	8-17-78	M-125C. Numerous documentation problems on Valve s/n 5205-21-1-9, 10" HCB-GT-DRL	Doc. Rework		
11475	8-17-78	M-185C. Numerous Doc. problems on valves s/n 5205-06-1-1, 2, 3, 4	Doc. Rework		
11476	8-17-78	M-125C. 4 Valves, missing repair verif. reports, paint flaking off valve operator, heat charts not legible/traceable	Doc. Rework		
11477	8-17-78	M-117AC. Doc. problems on 2 valves, s/n 4632-16-1-92 & 4632-16-1-94.	Doc. Rework		
11478	8-17-78	M-117AC. Doc. problems on 4 valves s/n 4632-13-1-90, 88, 89, 87	Rework Doc. Rework		
11479	8-17-78	F-28362. Mainstream Anchors & Restraint Supports - 3 Beams delivered to jobsite with numerous Doc. problems.	Rework		
11480	8-18-78	CRD Primary AC Breaker - Relative humidity at which units were stored exceeded 60% requirement.			
11481	8-21-78	Dwg. C-416. Embeds 601-3-12 & 601-3-13 were installed out of Dwg. design elev.	Use As Is		
11482	8-21-78	Civil QC (Survey) Settlement in the Diesel Generator Foundations and Structure			
11483	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
11484	8-21-78	M-215. 6 pcs 12" Flanges - Form G-321D was not included on documentation pkg.	Doc. Rework	8-31-78	T. Christofferson



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1485	8-21-78	M-104AC. 3" Flange - Form G-321D sent with material was the incorrect form.	Doc.Rework	9-12-78	M. Donovan
1486	8-21-78	C-231. Form Removal - forms were removed after the 24 hour time period. (Pour # DG(662)d')	Use as is	9-8-78	E. Dutton
1487	8-22-78	F-21895. ASME Fittings. No MTR received. Form NM-1. Data Report required - (NM-2 sent)	Doc.Rework		
1488	8-23-78	F-29536. Nelson Studs - material delivered to the jobsite with no Quality Verification Documentation.	Doc. Rework	8-29-78	M. Donovan
1489	8-23-78	M-1.8. Flywheel for RC Pump Motor - Documentation discrepancies.	Doc.Rework		
1490	8-23-78	M-18. Emergency Diesel Generators - No radiographic film was supplied with the Quality Doc. pkgs./wrong reader sheet.	Doc.Rework		
1491	8-24-78	E-532. 2AC024 3" PVC Conduit has been damaged by drilling the concrete slab for anchors under 2D15, Elev. 614.	Repair	9-27-78	A.M. Lobrovich
1492	8-24-78	M-104AC. Spool 1ELB-1-S638-13-5 - radiographic inspection report does not agree with spool received.	Doc.Rework	9-26-78	J.L. Gray
1493	8-24-78	F-27310. 10 pc's 6" Ells - Form G-321D was not completed in accordance with "Supplier Entry Instructions"	Doc.Rework	9-5-78	J. L. Gray
1494	8-24-78	J-201. Main Control Boards - seperation criteria not meet for panel 1C14.			
1495	8-25-78	Dwg. C-666. Stainless Steel Embeds placed in concrete with improper size embeds. Cont. #2 Slab Elev. 619'6'	Use as is	9-26-78	S. Kirker
1496	8-25-78	F-27310. Pipe Fittings - Form G-321D was not completed in accordance with "Supplier Entry Instructions"	Doc.Rework		
1497	8-28-78	C-230. Low Air Entrainment - Aux. Bldg. Roof Deck Pour "5G" had a total of 14cu yd placed with low air. A(704.54)E			
1498	8-28-78	C-305. Contrary to requirements several locations have more than max. bars cut. Aux. Bldg.			
1499	8-30-78	M-204. Spool piece 1CCB-25-S610-1-5 has depressions resulting in minimum wall thickness.	Repair		
1500	8-30-78	M-204. Two Spools - 1HCB-14-612-6-2 & 2HCB-14-613-6-1, wall thickness less than minimum allowable.			
1501	8-30-78	M-305. Nuclear Pipe Fittings - Material is not certified to correct ASME code, G-321D & C of C ref: incorrect spec.	Doc.Rework		
1502	8-30-78	M-305. 319'8" of 1" Sch. 80 Pipe - Pipe has 100% internal rust coverage.			
1503	8-30-78	M-20. Portable Chain Tension Indicator - No Form G-321D & Quality Verification Doc. received	Doc.Rework	9-14-78	D. Delaney



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² NCR NO.	³ DATE	⁴ NONCONFORMANCE DESCRIPTION / REMARKS	⁵ DISPO.	⁶ DATE NCR CLOSED	⁷ CLOSED BY
1504	8-30-78	E-20. Electrical Cable Penetrations - Doc. pkgs & Qualification Test have not been supplied by vendor.	Doc. Rework		
1505	8-30-78	Field Weld #17R2 - Dwg. M612 Sh 8 was excavated & rewelded w/o the W-1.00 being issued to the field.			
1506	8-31-78	M-64. Emergency Diesel Oil Day Tank - Doc. pkgs contain illegible MTR's, Heat number discrepancies.	Doc. Rework		
1507	6-31-78	J-275. Cabinets, Engineered Safety Isolation Sys - Numerous Documentation problems. Aux. Bldg Level 354	Doc. Rework		
1508	9-1-78	E-29237. Wide Flange Beam - One Beam, Heat # 10647 meets neither yield nor tensile requirements.			
1509	9-1-78	E-29202. 1 1/2" A449 Rod - Material is not marked/	Rework	9-12-78	J. Slifer
1510	9-1-78	C-24. Sluice Gates/Stem Guides - Stem Guides received for OM-91 A & B are not correct size.	Reject		
1511	9-1-78	C-24. Sluice Gates/Stem Guides - Stem Guides received for OM-96 ABC & D are not correct size.	Rework		
1512	9-1-78	J-201. Cable Risers - No Quality Verification Documentation has been received.	Doc. Rework		
1513	9-1-78	E-22282. Stud Bolts w/2 nuts - Material received with no G-321D or Quality Verification Documentation.	Doc. Rework		
1514	9-6-78	C-128. Omitted Rebar in the bottom mat of the "Ring Wall" footer. Tank Farm, Tank # 2T-60.	Std. Repair	9-19-78	S. Gelnett
1515	9-6-78	C-384. Struc. Embeds - were moved and are out of tolerance. So. Sec. Shield Wall @ 685', W. Sec. Shield Wall @ 685'		9-13-78	P. Vander Veer
1516	9-6-78	M-204. FSK-M-2HBC-3-3 - Line has been bent, resulting in a approx. 2 degree permanent set.	Use as is	10-13-78	L. Brown
1517	9-6-78	M-204. Min Wall Thickness is not in accordance with requirements.	Rework		
1518	9-7-78	M-611-5. FW #38 Root Pass was welded with a purge gas flow rate of 45 CFH (10-15 CFH required)			
1519	9-7-78	M-611 sht 7 Fieldwelds #11 & 12 - welder not qualified for the thickness of the material welded. Aux. 605'	Use as is		
1520	9-6-78	J-275AC. Analog Isolators - G-321D forms were not received.	Doc. Rework		
1521	9-6-78	J-207AC. Engineered Safety Features Actuation Sys - Panels painted incorrect color/Elec. Test Reports not recd.	Doc. Rework		
1522	9-7-78	M-104A. 6" 90 L/R Elbows - Documentation & Marking problems	Doc. Rework	10-2-78	L. Brown



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² NCR NO.	³ DATE	⁴ NONCONFORMANCE DESCRIPTION / REMARKS	⁵ DISPO.	⁶ DATE NCR CLOSED	⁷ CLOSED BY
1523	9-8-78	J-201. #10 & #14 AWG Wire - G-321D forms were not received from the vendor.	Doc. Rework	10-4-78	D. Delaney
1524	9-11-78	M-163. 60 Pcs. Sta-Kon Terminals - Quality Verification Documentation has not been received from the vendor.	Doc. Rework		
1525	9-11-78	F-3135. Tubetrack - Material Cert. of Compliance has not been received from the vendor.	Doc. Rework	9-14-78	D. Dolanoy
1526	9-11-78	M-104A. Random Lengths - Numerous Documentation problems. (2 1/2" & 3" SS SA 312 material)	Reject		
1527	9-9-78	E-205. Power Circuit Breaker - Center contacts exceed the requirements specified in ITE inst 1B-8.2.7-2E	Repair	10-5-78	A.M. Lobrovich
1528	9-11-78	Dwg. E-607. Pull Boxes Type Nema 1A - Conduits have water in them & Box 2A1349 is starting to rust. Aux. 568'			
1529	9-12-78	J-603. Nuclear Service Solenoid Valves - Valves are not marked with pressure class on the body as req'd by Spec.	N/A	9-18-78	K. Deitz
1530	9-12-78	F-28129. Concentric Reducers - No form G-321D was received.	Doc Rework	9-13-78	J.R. Slifer
1531	9-12-78	F-3139. Swagelock Fittings - Wrong Rev. of G-321D form received, no Certificate of Conformance received.	Doc. Rework	9-28-78	M. Donovan
1532	9-12-78	M-204. Pipe Component - Line 10"-2HBC-109, has been installed with no traceable identification. Unit #2 607'6"	Rework		
1533	9-14-78	F-27426. 6" x 4" x 3/8" x 20' Angle - Material was received with no mill test report.	Doc. Rework		
1534	9-14-78	M-1.8. Flywheel for Reactor Coolant Pump Motors - Numerous documentation problems. 2P51A & 2P51B	Doc. Rework		
1535	9-14-78	E-20. Elec. Cable Penetrations - Qualification Test has not been supplied by the vendor. 1Z102/2Z101	Doc Rework		
1536	9-14-78	M-1.10. Pressurizer Gaskets - no certifications were supplied for Heater Bundle "O" Rings/Manway Gaskets	Doc. Rework		
1537	9-14-78	E-7. Misc. Equip./Motor Control Centers - G-321D forms were not received.	Doc. Rework		
1538	9-14-78	M-20. Pressure Switches - No Form G-321D or Quality Verification Documentation has been received.	DOC Rework	9-15-78	J. Slifer
1539	9-14-78	M-104AC. SS Stock Pipe - Numerous Documentation problems - Mat'l did not have PO# marked on pipe.	Reject		
1540	9-15-78	C-231. Concrete Curing - Pour C(659)a Concrete surface found to be discrepant for 15 hours (dry surface)			
1541	9-15-78	F-29257. Rod Couplings - missing Certificate of Compliance.	Doc. Rework		



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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1542	9-15-78	E-29779. NF Hanger Material - Material received without traceability to the proper purchase Order.			
1543	9-15-78	E-29257. Welded Beam Attachment - Items were shipped with the wrong size bolt & nut.			
1544	9-15-78	E-29779, 29777, 29400. Material arrived without documentation.			
1545	9-15-78	E-29347. Misc. Hanger Components - Quality Verification Documentation has not been supplied by the vendor.			
1546	9-15-78	E-29074. Grade B Pipe - G-321D Forms required by the specifications have not been supplied.			
1547	9-15-78	Dwg. C-272. Aux. Bldg. Removable Plugs - Bent anchor bolt, distorted or damaged lifting rings, grouting not witnessed.			
1548	9-15-78	G-27. Incorrect NDE was performed on Field Welds on Dwg. M-619 Sh.3			
1549	9-18-78	E-3107. Recessed Pins - Certification of heat treatment for pins MK 8.3P2 is illegible.	Doc. Rework		
1550	9-18-78	E-29015. Misc. SS Plates - Form G-321D received was wrong Rev. incorrect no. of pc's listed.	Doc. Rework	9-26-78	C. Gwin
1551	9-18-78	E-29210. Hex. Nuts - Material sent does not agree with what is listed on the Certified Material Test Report.			
1552	9-19-78	E-20. three weld neck flanges have bolt hole wrong position 22-102 and 22-101	Rework		
1553	9-20-78	C-233A-E-28362. The quantities of documentation in the data package does not agree with summaries on G-321-D	Doc Rework		
1554	9-20-78	J-207. Electrical Test Reports have not been supplied for panels 1Ch3 and 1Ch4.			
1555	9-18-78	M-1.6. QA Data pkg. supplied for Main Feedwater Header Assemblies A 122-212-55-1 & 2 - No Hydro.			
1556	9-21-78	E-20. Replacement Cable, Thermofit & Gaskets - No Form G-321D or Quality Doc. has been received.	Doc. Rework		
1557	9-21-78	C-233. Misc. metal-tank farm embeds - Dwg. list metals as 'Q', embeds were field procured & fabbed per non-Q.			
1558	9-22-78	E-30185. Bolt heads not marked with manufacturer's Identification mark.	Reject		
1559	9-22-78	E-7. No documentation or G-321-D was received for for the material - Control Centers designated Class IE	Doc. Rework		
1560	9-25-78	M-14. Hold down holes drilled to wrong diameter.	Repair		



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² NCR NO.	³ DATE	⁴ NONCONFORMANCE DESCRIPTION / REMARKS	⁵ DISPO.	⁶ DATE NCR CLOSED	⁷ CLOSED BY
1561	9-26-78	M-1.1). Bottom rear drain boss was found uncovered during installation. Foreign object in cooler next to Boss	Rework		
1562	9-26-78	F-28509. Material received without any manufacturers mark	Reject		
1563	9-28-78	Elec. Penetrations - No evidence of QC acceptance as to verify the quality, integrity or physical accep. of the inst.			
1564	9-29-78	F-27314. Items were not furnished in accordance with the requirements of Boiler & Press. Vessel Cde. Pipe out of round	Doc. Rework		
1565	9-28-78	F-29257. , Actual eye nut size received is 3/8", while no 1/2" size has been shipped	Doc. Rework		
1566	9-29-78	Osseyville Storage Area. Storage area bay identification markers & numbers are missing, and damaged			
1567	10-2-78	C-230. Excessive slump. 3 cu. yds. on Trk#29 Ticket 29960 were placed in DG Bldg. wall#5 with 6 1/2" slump			
1568	9-29-78	F-25449. Instrument Tubing listed on the IR, with code #'s W040541, W040543, W040593, W040594 hardness below spec.			
1569	10-2-78	F-30536. Carbon steel bolts were received instead of Austenitic Steel as required. no certificate/compliance	Reject		
1570	10-2-78	F-30185. Bolt Heads were not marked by manufacturer 1,712 ea. 3/8"-16x1", A-307 Screws various sizes.	Reject		
1571	10-2-78	C-208. Loss on ignition exceeded the max by -0.6% Type II portland cement.			
1572	10-3-78	C-230. 3 of 6 c.y. from ticket No. 30027 was placed on placement (672) at 9-25-78 with end temp 77°	Use as Is	10-9-78	R. Siple
1573	10-3-78	F-27314. 2 1/2" Sch 40, 3" Sch 160, 4" Sch 10, 4" Sch 40, ASME SA-312 R.L. Pipe Items not furnished in accord with Boiler and Pressure code.	Use As Is	10-9-78	P. VanderVeer
1574	10-4-78	E-21. E-22. E-26 Various P.O. Requirements not met for 600V Cable (Control & Power Cable)			
1575	10-4-78	F-3107. Documentation required is neither traceable or legible- no mill test report for Heat code NA154.			
1576	10-4-78	E-20. Electrical Penetration Assemblies had leak rates greater than allowed, when tested 9-28-78.			
1577	10-5-78	F-27952. No certificate of compliance for covering material			
1578	10-6-78	M-4. Make Up Tanks #IT-58 Lower Boss on west side was was found uncovered.			
1579	10-9-78	C-231. Variation in the plumb Unit #1 North secondary shield Wall			



NONCONFORMANCE REPORT

1. PROJECT NAME		JOB NO.		19. NO. 1500	20. PAGE 1 OF 1
2. UNIT(S)	3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	5. ITEM LOCATION	
6. P.O. OR SPEC NO.	7. SERIAL NO.	8. REPLACEMENT PART	9. SOURCE	10. CONTRACTOR/SUPPLIER	
7220-F-29237	N/A	P/N N/A REV	SER NO.	Paragon Steel Corporation	
11. INSPECTION CRITERIA		IR N°	12. ASME AUTHORIZED INSPECTION REQ'D	13. SKETCH ATTACHED	14. Discovered During
() DWG (x) SPEC () OTHER		NO. 0-33 Rev. 1	() YES (x) NO	() YES (x) NO	(x) Rec'g () Const () Test
16. NONCONFORMING CONDITION:				24. DISPOSITION CONCURRENCE	
Purchase Order 7220-F-29237 Note 1 states: "Material shall conform to the requirements of ASTM-A-36." ASTM-A-36-74 requires a minimum yield strength at 36,000 P.S.I. and tensile requirements must be within 58,000 to 80,000 P.S.I..				rework reject repair use as is	
Contrary to the above, one beam wide Flange 10 @ 39 x 20' Heat # 10647 meets neither yield (30,500) nor tensile (49,000) requirements. Hold pending final disposition.				PROJECT FIELD ENGINEER DATE	
"Q" number is indeterminate. / hold tag(s) applied.				PROJECT ENGINEER DATE	
17. REPORTED BY		DATE	18. VALIDATED BY		DATE
Charles Gurne		9-1-78	[Signature]		9-1-78
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE					
QC ENGINEER					DATE
AUTHORIZED INSPECTOR					DATE

NONCONFORMANCE REPORT

1. PROJECT NAME MOLAND		JOB NO. 7220		19. NO. 1510	20. PAGE 1 OF 1
2. UNIT(S) 1 & 2	3. DRAWING/PART NO. CM-91 A & B	REV. N/A	4. ITEM DESCRIPTION SWICE GATES - STEM GUIDES	5. ITEM LOCATION WHSE #1	
6. P.O. OR SPEC NO. C-024	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N 11A REV	9. SOURCE SUPPLIER	10. CONTRACTOR/SUPPLIER ARMCO STEEL CORPORATION	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. C-190-1	12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO	13. SKETCH ATTACHED () YES () NO	14. DISCOVERED DURING () Rec'y () Const () Test
16. NONCONFORMING CONDITION:		15. Equip Furnished By () Client () Eng () FLD			
24. DISPOSITION CONCURRENCE					
STEM GUIDES RECEIVED ARE NOT CORRECT SIZE. STEM GUIDE INSIDE DIAMETER IS 3 5/8" WHILE STEM OUTSIDE DIAMETER IS 4". "Q" NUMBER IS 1,506. - 4 HOLD TAGS APPLIED					
17. REPORTED BY David L. Monroe 7/4/78		18. VALIDATED BY W. B. Barclay 9-1-78		DATE	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		25. DISPOSITION RESULTS Stem Guides returned to vendor on Shipping Notice. 7220-5621. John R. Liff 12-5-78			
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering PROC. SUPERVISOR TO OBTAIN CORRECT SIZE STEM GUIDES. DOCUMENTATION TO CONFORM TO ORIGINAL P.O. SPECIFICATIONS. John R. Liff 7-4-78 9-1-78 R. Liff 9/27/78					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE					
QC ENGINEER				DATE	
AUTHORIZED INSPECTOR				DATE	

NONCONFORMANCE REPORT

1. PROJECT NAME M. O. AND		JOB NO. 7220		19. NO. 1511	20. PAGE 1 OF 1
2. UNIT(S) 142	3. DRAWING/PART NO. OM-96 ABC & D	REV NA	4. ITEM DESCRIPTION SERVICE GATES - STEM GUIDES		
5. P.O. OR SPEC NO. C-024	7. SERIAL NO. N/E	8. REPLACEMENT PART P/N NA REV	9. SOURCE SER NO.	10. CONTRACTOR/SUPPLIER SUPPLIER ARMO STEEL CORPORATION	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. C-1-92-2	12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO		13. SKETCH ATTACHED () YES (X) NO
14. DISCOVERED DURING () REC'D (X) TEST		15. EQUIP FURNISHED BY () CLIENT (X) ENG () FLD		16. NONCONFORMING CONDITION: STEM GUIDES RECEIVED '02 NOT CORRECT SIZE STEM GUIDE INSIDE DIAMETER IS 3 5/8" WHILE STEM OUTSIDE DIAMETER IS 4" 'Q" NUMBER IS 1506. 8 HOLD AGS APPLIED	
17. REPORTED BY David L. Moore		DATE 7/14/78	18. VALIDATED BY J. B. Barclay		DATE 9-1-78
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering PROC. SUPV. TO OBTAIN CORRECT SIZE STEM GUIDES. DOCUMENTATION TO CONFORM TO ORIGINAL P.O. SPECIFICATIONS. J. B. Barclay 7-14-78 9-1-78 M. O. AND 9/27			
23. PROJECT ENGINEERING DISPOSITION					
24. DISPOSITION CONCURRENCE rework repair use as is J. B. Barclay 9-27-78 PROJECT FIELD ENGINEER DATE PROJECT ENGINEER DATE PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE					
25. DISPOSITION RESULTS STEM GUIDES returned to vendor on shipping Notice 7220-5621 John R. L. 9-12-78					
26. QC ACCEPTANCE					
QC ENGINEER DATE					
AUTHORIZED INSPECTOR DATE					



NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1512	20. PAGE 1 OF 2																								
2. UNIT(S) 1 & 2	3. DRAWING/PART NO. See Block 16	REV N/A	4. ITEM DESCRIPTION Cable Risers	5. ITEM LOCATION O.C. Hold, Whse. # 1																									
6. P.O. OR SPEC NO. 7220-J-201-AC Rev. 8	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV _____ SER NO. _____		9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Magnetics																								
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. R-1.00-3500 NO J-201 Rev. 4	12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO	13. SKETCH ATTACHED (X) YES () NO	14. Discovered During (X) Rec'g () Const () Test																								
15. Equip Furnished By () Client (X) Eng () FLD																													
16. NONCONFORMING CONDITION Specification 7220-J-201 Rev. 4 requires Quality Verification Documentation according to Form G-321-D. Contrary to the above, no Quality Verification Documentation has been received for the cable risers listed on Attachment "A". "C" number is 5,031. Hold pending final disposition. 1 hold tag(s) applied to the nonconforming item(s).				24. DISPOSITION CONCURRENCE <table border="1"><tr><td>rework</td><td>reject</td><td>repair</td><td>use as is</td></tr><tr><td>Doc</td><td></td><td></td><td></td></tr><tr><td colspan="3">PROJECT FIELD ENGINEER <i>[Signature]</i></td><td>DATE 9-12-78</td></tr><tr><td colspan="3">PROJECT ENGINEER <i>[Signature]</i></td><td>DATE 9-11-78</td></tr><tr><td colspan="3">PROJ CONSTR QC ENGINEER</td><td>DATE</td></tr><tr><td colspan="3">AUTHORIZED INSPECTOR</td><td>DATE</td></tr></table>		rework	reject	repair	use as is	Doc				PROJECT FIELD ENGINEER <i>[Signature]</i>			DATE 9-12-78	PROJECT ENGINEER <i>[Signature]</i>			DATE 9-11-78	PROJ CONSTR QC ENGINEER			DATE	AUTHORIZED INSPECTOR			DATE
rework	reject	repair	use as is																										
Doc																													
PROJECT FIELD ENGINEER <i>[Signature]</i>			DATE 9-12-78																										
PROJECT ENGINEER <i>[Signature]</i>			DATE 9-11-78																										
PROJ CONSTR QC ENGINEER			DATE																										
AUTHORIZED INSPECTOR			DATE																										
17. REPORTED BY Dean A. Delaney		DATE 8/31/78		18. VALIDATED BY <i>[Signature]</i>																									
		DATE 9-1-78		25. DISPOSITION RESULTS																									
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)																													
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering																													
Field Procurement Supervisor is to obtain the required documentation from the vendor. <i>[Signature]</i> 9-11-78																													
23. PROJECT ENGINEERING DISPOSITION																													
26. QC ACCEPTANCE <table border="1"><tr><td>QC ENGINEER</td><td>DATE</td></tr><tr><td>AUTHORIZED INSPECTOR</td><td>DATE</td></tr></table>						QC ENGINEER	DATE	AUTHORIZED INSPECTOR	DATE																				
QC ENGINEER	DATE																												
AUTHORIZED INSPECTOR	DATE																												

Cable Risers for Panel #:	1C11/21	Part #:	211, 217, 215, 216, 218, 219
	1C12/22		221, 222, 223, 224, 225
	1C13/23		231, 232, 233, 234
	1C14/24		253, 147, 145, 250, 251, 252,
			245, 248, 249, 244, 243, 242
	2C11/21		212, 213, 216, 214, 211, 217, 215
	2C12/22		221, 222, 223, 224, 225
	2C13/23		231, 232, 233, 234
	2C14/24		247, 249, 251, 250, 244, 245,
			246, 248, 145, 253, 242, 147, 243



NONCONFORMANCE REPORT

1. PROJECT NAME Midland						JOB NO. 7220		19. NO. 1513		20. PAGE 1 OF 3	
2. UNIT(S) Indeter- minate		3. DRAWING/PART NO. N/A		REV N/A		4. ITEM DESCRIPTION per stud Gr. 2H ASME SA-193 Gr. B7 Stud Bolts w/2 nuts				5. ITEM LOCATION O.C. Hold, Wase. #1	
6. P.O. OR SPEC. NO. 7220-F-22282 Rev. 1		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N N/A REV _____ SER NO. _____		9. SOURCE Supplier		10. CONTRACTOR/SUPPLIER Coast Ind. Supply Company			
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER				IR NO. R-1.00-3567 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: 1. Specification 7220-M-305, Rev. 2, Para. 7.0 states in part: "All submittals and documentation will conform to the procedures and quantities specified by Form G-321-D." "Documentation shall be furnished prior to or with arrival of the products at the jobsite." Contrary to the above, the material listed on Attachment "A" was received on jobsite with no G-321-D form or Quality Verification Documentation provided.								24. DISPOSITION CONCURRENCE rework reject repair use as is <i>[Signature]</i> 10/3/78 PROJECT FIELD ENGINEER DATE PROJECT ENGINEER DATE PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE			
17. REPORTED BY <i>Marian Donovan</i>				DATE 9-1-78		18. VALIDATED BY <i>R. Snelley</i>				DATE 9-1-78	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)											
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering Item 1: Procurement Supervisor to expedite missing documentation. Item 2: Return 20 pieces of 3/4" x 3 3/4" stud bolts to supplier. <i>H. N. [unclear] 10-3-78</i> <i>R. Ward 10/3/78</i>											
23. PROJECT ENGINEERING DISPOSITION											
26. QC ACCEPTANCE QC ENGINEER DATE AUTHORIZED INSPECTOR DATE											

Block 16 Continued

2. Specification 7220-M-305 Rev. 2 Para. 3.0 states in part: "All materials and examination procedures shall conform to all applicable portions of the latest issue of the following adopted specifications, standards, codes and addenda where applicable." "ASME B & PV Code Section II Material Specifications." ASME Section II 1977 Edition, Part A, Section SA-193 Para. 15 requires material to be marked with "a symbol for identification of material and manufacturers identification mark." Contrary to the above, 20 Pcs. of 3/4" x 3 3/4" ASME SA-193 Gr. B7 Stud Bolts do not meet the marking requirements, i.e. grade identification is illegible or incomplete, manufacturer's mark is missing or a combination of both.

"Q" number is indeterminate until installation. Hold pending final disposition. / hold tag(s) applied to the nonconforming item(s).

No. of Bolts	Description of Material			
301	1/2" - 13 x 2 1/4"	ASME SA-193 Gr. B7	Stud bolts w/nuts Gr. 2H	
254	1/2" - 13 x 2 1/2"	ASME SA-193 Gr. B7	Stud bolts w/nuts Gr. 2H	
154	1/2" - 13 x 2 3/4"	ASME SA-193 Gr. B7	Stud bolts w/nuts Gr. 2H	
93	1/2" - 13 x 3"	ASME SA-193 Gr. B7	Stud bolts w/nuts Gr. 2H	
198	5/8" - 11 x 2 3/4"	ASME SA-193 Gr. B7	Stud bolts w/nuts Gr. 2H	
169	5/8" - 11 x 3"	ASME SA-193 Gr. B7	Stud bolts w/nuts Gr. 2H	
435	5/8" - 11 x 3 1/4"	ASME SA-193 Gr. B7	Stud bolts w/nuts Gr. 2H	
267	3/4" - 10 x 3 1/2"	ASME SA-193 Gr. B7	Stud bolts w/nuts Gr. 2H	
428	3/4" - 10 x 3 3/4"	ASME SA-193 Gr. B7	Stud bolts w/nuts Gr. 2H	
217	3/4" - 10 x 4"	ASME SA-193 Gr. B7	Stud bolts w/nuts Gr. 2H	
42	7/8" - 9 x 5 1/4"	ASME SA-193 Gr. B7	Stud bolts w/nuts Gr. 2H	

* 2 nuts per stud



NONCONFORMANCE REPORT

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 1516	20. PAGE 1 OF 1
2. UNIT(S) #2	3. DRAWING/PART NO. FSK-M-2HBC-3-3	REV 1	4. ITEM DESCRIPTION YARD PIPING-DIESEL GENERATOR SUPPLY LINE	5. ITEM LOCATION YARD SOUTH OF DIESEL G.F.N.	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE CONSTRUCTION	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. N/A NO. M-204, Rev 9	12. ASME AUTHORIZED INSPECTION REQ'D (X) YES () NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec'g (X) Const () Test
15. Equip Furnished By () Client () Eng (X) FLD					
16. NONCONFORMING CONDITION: SPECIFICATION M-204, REV 9, PARAGRAPH 5.2.1 STATES IN PART; "BECHTEL ISOMETRICS ARE THE GOVERNING DRAWINGS FOR FINAL SPOOL CONFIGURATION AND INSTALLATION. CONTRARY TO THE ABOVE, LINE 1 1/2"-2HBC-3-3 HAS BEEN BENT, RESULTING IN A APPROX. 2 DEGREE PERMANENT SET. THE BENDS ARE APPROX. 1 FOOT EAST OF F.W.'S 11 AND 19 Q-LIST 4.525, TWO Q.C. HOLD TAGS APPLIED. ONE AT F.W. 11 AND ONE AT F.W. 19				24. DISPOSITION CONCURRENCE rework ☐ reject ☐ repair ☐ use as is ☒ 9-14-78 PROJECT FIELD ENGINEER J. Brown DATE PROJECT ENGINEER J. Brown DATE 9-14-78 PROJECT ENGINEER J. Brown DATE 10-6-78 CONSTR. QC ENGINEER J. Brown DATE 10-10-78 AUTHORIZED INSPECTOR J. Brown DATE	
17. REPORTED BY W. Hall		DATE 9-6-78		18. VALIDATED BY J. Brown	
DATE 9-6-78		DATE 9-6-78		25. DISPOSITION RESULTS "Use as is" disposition has been approved by project engineering. J. Brown 10-13-78	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering DISPOSITION RECOMMENDED. 9-13-78					
"Use as is" M-214 Q Para. 4.B.2 & 3 both address allowable deviations from design, Positions which far exceed the above discrepancy Para. 4.2 of Specification M-204 states pipe 2" and under may be field mechanical, cold bent to a bend of approximately 5 nominal pipe diameters; radius bends to be wrinkle free. This denotes					
23. PROJECT ENGINEERING DISPOSITION SPECIFICATION 7220-M-214(Q), PARA. 4.B.3 SPECIFICALLY ALLOWS FOR THE VARIATION OF THE PIPING AS CITED IN BLOCK #16. PROJECT ENGINEERING CONCURS WITH FIELD ENGINEERING TO "USE AS IS". RE PERMANENT SET OF 2 DEGREE OVER APPROXIMATELY 80 FT OF PIPE IS WITHIN ALLOWABLE STRESS LIMITS. A. Sidhu 9/14/78					
26. QC ACCEPTANCE J. Brown QC ENGINEER J. Brown DATE 10-12-78 AUTHORIZED INSPECTOR J. Brown DATE 10/13/78					

SECRET

NONCONFORMANCE REPORT (CONT'D)

1. PAGE 2 OF 3

316
01110

14 NCR NO

1-16

Block 22 cont'd. that cold bending is not detrimental to material. if elongation is not
exceeding.

RM Rudy 9-7-78
Rud 9/2/78

100882

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

QC-633



NONCONFORMANCE REPORT (CONT'D)

1. PAGE 3 OF 314. NCR NO. 16

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
			☒
<u>PROJECT FIELD ENGINEER</u>		<u>DATE</u>	
<u>PROJECT ENGINEER</u>		<u>DATE</u>	
<u>PROJECT CONSTR QC ENGINEER</u>		<u>DATE</u>	
<u>AUTHORIZED INSPECTOR</u>		<u>DATE</u>	

See block 24 - see page one
See block 24 - see page one

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

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

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

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

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

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

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

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

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

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

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

NONCONFORMANCE REPORT

1. PROJECT NAME Holland			JOB NO. 07225			19. NO. 1517		20. PAGE 1 OF 1			
2. UNIT(S) 1 & 2		3. DRAWING/PART NO. H-11-OROC-50-1		REV 0		4. ITEM DESCRIPTION See Bill of Materials		5. ITEM LOCATION 11th St. West for more info.			
6. P.O. OR SPEC NO. N/A		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N 0711 REV 2/2 SER NO. N/A		9. SOURCE Constr.		10. CONTRACTOR/SUPPLIER N/A			
11. INSPECTION CRITERIA () DWG () SPEC () OTHER IR NO. PL 10-1 NOM 204 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 () Eng () FLD	
16. NONCONFORMING CONDITION: Specification K-204 Rev. 9, para. 4.1.3 states that, marking shall be done by any permanent method that will not result in any harmful contamination or sharp discontinuities. Steel indentation stamping shall be done with a round-nose or interrupted dot die. The maximum depth of the indentation shall not infringe upon the minimum wall thickness. Para. 5.2.6 in part states: Minimum wall thickness for fabricated assemblies (Cont'd page 2)						24. DISPOSITION CONCURRENCE rework reject repair use as is PROJECT FIELD ENGINEER DATE PROJECT ENGINEER DATE PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE					
17. REPORTED BY DATE				18. VALIDATED BY DATE KAC 11/16/08 2/6/08				25. DISPOSITION RESULTS			
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)											
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering											
23. PROJECT ENGINEERING DISPOSITION											
26. QC ACCEPTANCE QC ENGINEER DATE AUTHORIZED INSPECTOR DATE											

(Cont'd from page 17, Block #16)

The minimum thickness shall be at least 40 S. The nominal wall thickness, contrary to the minimum thickness, was not met for the 40 S pipe for all 4 purposes. The meter which was used for the measurements are, FW#9 and FW#12. A measurement was taken with a 40 S pipe and the results are as follows:

FW#9 - Affected area approximately .040 deep.

FW#12 - Affected area approximately .020 deep.

The nominal wall for 1/2" schedule 40 S is .109". The allowable minimum wall is .095". The affected area at this present time is .009 and FW#12 area is a minimum wall of .009.

C-11st #4.092.

2 Hard tags applied to pipe.

Hold for engineering disposition.



NONCONFORMANCE REPORT

1. PROJECT NAME <i>SHILAND</i>		JOB NO. <i>72.20</i>		19. NO. <i>1518</i>	20. PAGE <i>1</i> OF <i>1</i>																									
2. UNIT(S) <i>2</i>	3. DRAWING/PART NO. <i>M-611-5</i>	REV. <i>0/1</i>	4. ITEM DESCRIPTION <i>2HCE-8</i>	5. ITEM LOCATION <i>Los Angeles</i>																										
6. P.O. OR SPEC NO. <i>N/A</i>	7. SERIAL NO. <i>N/A</i>	8. REPLACEMENT PART P/N <i>4</i> REV <i>0/1</i> SER NO. <i>0/1</i>		9. SOURCE <i>GENST.</i>	10. CONTRACTOR/SUPPLIER <i>N/A</i>																									
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. <i>M-611-5-38</i> NO. _____	12. ASME AUTHORIZED INSPECTION REQ'D (X) YES () NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec'g (X) Const () Test	15. Equip Furnished By () Client (X) Eng () FLD																								
16. NONCONFORMING CONDITION: <i>M-611-5b.5 1st 38 feet tall was found to be leaning 12-15 ft which requires a major job. Check code 11-15 CMH. Consistent to the above M-611-5b.5 1st 38 feet tall was found to have major gas leak code 11-15 CMH. How to repair and inspection required. How to repair required.</i>					24. DISPOSITION CONCURRENCE <table border="1"><tr><td>rework</td><td>reject</td><td>repair</td><td>use as is</td></tr><tr><td colspan="4"> </td></tr><tr><td colspan="2">PROJECT FIELD ENGINEER</td><td colspan="2">DATE</td></tr><tr><td colspan="2">PROJECT ENGINEER</td><td colspan="2">DATE</td></tr><tr><td colspan="2">PROJ CONSTR QC ENGINEER</td><td colspan="2">DATE</td></tr><tr><td colspan="2">AUTHORIZED INSPECTOR</td><td colspan="2">DATE</td></tr></table>		rework	reject	repair	use as is					PROJECT FIELD ENGINEER		DATE		PROJECT ENGINEER		DATE		PROJ CONSTR QC ENGINEER		DATE		AUTHORIZED INSPECTOR		DATE	
rework	reject	repair	use as is																											
PROJECT FIELD ENGINEER		DATE																												
PROJECT ENGINEER		DATE																												
PROJ CONSTR QC ENGINEER		DATE																												
AUTHORIZED INSPECTOR		DATE																												
17. REPORTED BY <i>Timothy O. Anderson</i>		DATE <i>9-6-78</i>		18. VALIDATED BY <i>William J. ...</i>		DATE <i>9/6/78</i>																								
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)																														
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering																														
23. PROJECT ENGINEERING DISPOSITION <i>...</i>																														
26. QC ACCEPTANCE <table border="1"><tr><td>QC ENGINEER</td><td>DATE</td></tr><tr><td>AUTHORIZED INSPECTOR</td><td>DATE</td></tr></table>							QC ENGINEER	DATE	AUTHORIZED INSPECTOR	DATE																				
QC ENGINEER	DATE																													
AUTHORIZED INSPECTOR	DATE																													

NONCONFORMANCE REPORT

1. PROJECT NAME <i>MILWAUKEE</i>		JOB NO. <i>9830</i>		19. NO <i>1519</i>	20. PAGE <i>1 OF 1</i>
2. UNIT(S) <i>2</i>	3. DRAWING/PART NO. <i>20611507</i>	REV <i>1/1</i>	4. ITEM DESCRIPTION <i>WELDED FIELDWELDERS #11 & 12</i>	5. ITEM LOCATION <i>West Ridge area</i>	
6. P.O. OR SPEC NO. <i>20611507</i>	7. SERIAL NO. <i>213</i>	8. REPLACEMENT PART PIN <i>20611507</i> REV <i>2-1-11</i> SER NO. <i>20611507</i>	9. SOURCE <i>CONST</i>	10. CONTRACTOR/SUPPLIER <i>MLA</i>	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER IR NO. <i>20611507</i> NO. <i>20611507</i> 2-1-11		12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO		13. SKETCH ATTACHED () YES () NO	14. Discovered During () Hloc () Const () Fast
15. Equip Furnished By () Client () Eng () FLD					
16. NONCONFORMING CONDITION: <i>Welded Be qualified for the thickness of the material welded.</i>					
17. REPORTED BY <i>Conrad Stal</i> DATE <i>9/16/78</i>					
18. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY) <i>Project Engineering Recommended Disposition to Project Engineering</i>					
23. PROJECT ENGINEERING DISPOSITION					
24. DISPOSITION CONCURRENCE					
25. DISPOSITION RESULTS					
26. OC ACCEPTANCE					
OC ENGINEER DATE					
AUTHORIZED INSPECTOR DATE					



NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1520	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 Q.C. Hold, Whse. # 1	
6. P.O. INSPECTOR 7220-J-275 AC Rev. 3	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV SER NO.	9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Consolidated Control Corporation	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. R-1,00-3734 NO. J-275 Rev. 3	12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During (X) Rec'g () Const () Test
15. Equip Furnished By () Client (X) Eng () FLD					
16. NONCONFORMING CONDITION: Specification 7220-J-275 Rev. 3 requires engineering documents as summarized on Form G-321-D. Contrary to the above, Form G-321-D for items as listed below were not received.				24. DISPOSITION CONCURRENCE rework reject repair use as is Doc 9-13-78 PROJECT FIELD ENGINEER DATE 9-14-78 PROJECT ENGINEER DATE 9-14-78 PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE	
17. REPORTED BY Tim Christoffersen		DATE 9-6-78		25. DISPOSITION RESULTS	
18. VALIDATED BY APR Barclay		DATE 9-6-78			
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering Field Procurement Supervisor is to obtain the G-321-D form from the vendor. R.J. Lutz 9-21-78					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE QC ENGINEER DATE AUTHORIZED INSPECTOR DATE					

NONCONFORMANCE REPORT (CONT'D)

20 PAGE 2 OF 2

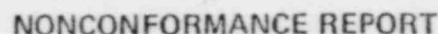
19

1520

Block 16 Continued

<u>Part No.</u>	<u>Quantity</u>	<u>Description</u>
6N249-1	15 Pcs.	0-1 ma Analog Isolators
6N249-2	4 Pcs.	4-20 ma Analog Isolators
6N249-3	2 Pcs.	+ 100 mv Analog Isolators
6N250-1	12 Pcs.	+ 10 v Analog Isolators

"C" number is indeterminate. Hold pending final disposition. ¹⁻²⁶₉₋₁₂₋₇₈ ~~22~~ hold tag(s) applied to the nonconforming item(s).



1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1521		20. PAGE 1 OF 5	
2. UNIT(S) Unit 2		3. DRAWING/PART NO. 7220-J-207-20 (1 thru 6)		4. ITEM DESCRIPTION Engineered Safety Features Actuation System		5. ITEM LOCATION Aux Bldg Safety Related Equipment Room	
6. P.O. ORDER NO. 7220-J-207 AC Rev. 3		7. SERIAL NO. 2035, 2043 2044		8. REPLACEMENT PART P/N H/A REV _____ SER NO. _____		9. SOURCE Supplier	
10. CONTRACTOR/SUPPLIER Automation Industries, Inc.		11. INSPECTION CRITERIA () DWG () SPEC () OTHER		12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO		13. SKETCH ATTACHED () YES () NO	
14. Discovered During QC Rec'g () Const () Test		15. Equip Furnished By () Client () Eng () FLD		16. NONCONFORMING CONDITION: Specification J-207 Rev. 2 Para. 9.A.1 states "Prior to shipment, the completely assembled and wired equipment shall be inspected for conformance to outline and assembly drawings and wiring diagrams, and performance tested at the factory for compliance with the requirements of this specification." Para. 9.A.2 states "Buyers waiving of inspection and tests shall no way relieve Seller from providing equipment in accordance with this specification."		24. DISPOSITION CONCURRENCE #2 N/A	
17. REPORTED BY John R. Alfrey Jr. 9-6-78		18. VALIDATED BY P. J. Barclay 9-6-78		21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering	
23. PROJECT ENGINEERING DISPOSITION		25. DISPOSITION RESULTS Item #2 - Concur with Field Engineering Disposition. Item #1 - Electrical Test Reports received however lacks traceability to the Material. John R. Alfrey Jr. 9-12-78		26. QC ACCEPTANCE QC ENGINEER _____ DATE _____ AUTHORIZED INSPECTOR _____ DATE _____			

Block 16 Continued

Contrary to the above, no Electrical Test Reports have yet been supplied for Panels 2C43 and 2C44. See attachment "A" for waiver request for delivery and see Attachment "B" (Page 1 of G-321-D) authorizing the delivery waiver.

2. Specification J-207 Rev. 2 Para. 6.A.2 requires the panels to be painted the color of circuit channel.

Contrary to the above, all panels (2C35, 2C43, and 2C44) are painted Frequency Green. Note: Subsequent unincorporated revision of the specification has changed the panels' color to Frequency Green.

"Q" number is 5.202. Hold pending final disposition. 8 ^{K13} hold tag(s) applied to nonconforming item(s).

9-8-78

READ INSTRUCTIONS ON BACK BEFORE FILING IN FORM

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

1. Document Category Number	2. Specification Paragraph Reference	3. Kind of Copies	4. ENGINEERING DOCUMENTS				5. QUALITY VERIFICATION DOCUMENTS						12. Remarks
			Quantity Required		Time Allowed Required		6. Quantity Required	7. Date of Release	8. Supplier's Conformance Check	9. Inspection Release	10. Conformance Review	11. Field OCE Check In	
26.2	3.B.9 9.0	Reproducible	1	1	X		1	c	*	Am			See column 12, sheet 1
		Microfilm											
28.0	7.A	Reproducible	1	1	X		1	c	4	Am			
		Microfilm											
2.0	3.B4	Reproducible	1	1			NA	NA					
		Microfilm			X								
		Reproducible											
		Microfilm											
		Reproducible											
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		Microfilm											
		Reproducible											
		Microfilm											

13. Supplier's Order No. 02717	14. Supplier's Part No. 2717-1048-5,6,7,8 2717-1049-3 & 4	15. Supplier's Part Name Engineered Safety Features Act. System	16. Quantity 1 Lot
17. Buyer's Req. Item No. 2 7220-J-207	18. Buyer's Line/Equip., Tag or Code No. 2C43 & 2C44	19. Buyer's Part Name Engineered Safety Features Act. System	20. Traceability 2717-1048-5,6,7,8 2717-1049-3 & 4

21. Supplier's Conformance Statement	We certify that the listed work and required documents meet the requirements of the procuring documents.	Supplier's Signature <i>John F. Madigan</i>	Supplier's Title P.A. Mgr.	Date 6/29/78
--------------------------------------	--	--	-------------------------------	-----------------

22. Inspection Release Statement	Work was released based on satisfactory completion of inspection and review of documentation.	Bechtel Inspector's Signature <i>John F. Madigan</i>	Authorized Deviations ☒ YES, Noted under 12, Remarks ☐ NONE	Date 6-29-78
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23. Engineering Review Statement	The Quality Verification Documents submitted in Engineering with this form have been reviewed for conformance to the specified requirements and are acceptable.	Engineer's Signature _____	Date _____
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24. OCE Check In Statement	This form and the Quality Verification Documents referenced herein have been received and their relationship to the hardware items verified.	CONTROL NO. _____	FILE NO. _____
		OCE Signature _____	Date _____

After OCE Check in Distribute to: Procurement Manager, Field Office Manager, Material Supervisor

 C-321 D AN REV 2 5/76	MIDLAND PLANTS - UNITS 1 & 2 CONSUMERS POWER COMPANY	JOB NO. 7220 P.O./SPEC. NO. 7220-J-207
	ENGINEERING AND QUALITY VERIFICATION DOCUMENT REQUIREMENTS	
REPRODUCTION OF THIS FORM IS AUTHORIZED		SHEET 5 OF 5

READ INSTRUCTIONS ON BACK BEFORE FILLING IN FORM

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

1. Document Category Number	2. Specification Paragraph Reference	3. Kind of Copies	4. Engineering Documents		5. Quality Verification Documents						11. Field OCE Check In	Attachment "B" Page 4 of 5. NCR #1521	
			Quantity Required	Quantity Approved	Quantity Required for Release	Quantity Submitted for Release	Quantity Checked	Quantity Approved	Quantity Released	Quantity Inspected			
7.0		Reproducible Microfilm	1	1									Package of sample Quality Verification Documents showing format and typical content.
1.1	3.B.1	Reproducible Microfilm	1	1	X								SDDR #645, #652, #761
1.4	3.B.2	Reproducible Microfilm	1	1	X								TWX 3243 dtd. 6/22/78
1.5	3.B.3	Reproducible Microfilm	1	1	X								authorizes shipment of material without prior approval of Seismic Test Report, Reliability Analysis and less 24
4.1	3.B.4	Reproducible Microfilm	5	20		X							modules that will remain at Vitro for use in System 1 testing. Documents are to be submitted for approval within one month of delivery date.
4.2	3.B.4	Reproducible Microfilm	5	20		X							Telecon between J. Madigan, SQR, and D. Simpson, Bechtel Engineer, on 6/28/78 authorizes shipment of material 1
4.3	3.B.4	Reproducible Microfilm	5	20		X							document category 26.2, Electrical Test Reports. Test reports to follow within 30 days
4.4	3.B.4	Reproducible Microfilm	5	20		X							
5.0	3.3.5	Reproducible Microfilm	1	1	X								
6.0	2.C.1	Reproducible Microfilm	1	1	X								
7.0	3.B.7	Reproducible Microfilm	1	1	X								
8.0	8.C.1	Reproducible Microfilm	1	1	X								
15.0	6.A.1	repro.	1	1	X								
17.4	5.R.1	repro.	1	1	X								
25.0	9.A	repro.	1	1	X								
8.0	5.U.5	repro.	1	1	X								
13. Supplier's Order No.	14. Supplier's Part No.	15. Supplier's Part Name	16. Quantity										
02717	2717-1048-5,6,7,8 2717-1049-3 & 4	Engineered Safety Features Act. System	1 Lot										
17. Buyer's Req. Item No.	18. Buyer's Line/Equip. Tag or Code No.	19. Buyer's Part Name	20. Traceability										
7220-J-207	2C43 & 2C44	Engineered Safety Features Act. System	2717-1048-5,6,7,8 2717-1049-3 & 4										
21. Supplier's Conformance Statement	We certify that the listed work and required documents meet the requirements of the procuring documents.			Supplier's Signature	Title		Date						
				John F. Madigan	Q.A. Mgr.		6/29/78						
22. Inspection Release Statement	Work was released based on satisfactory completion of inspection and review of documentation.			Bechtel Inspector's Signature	Authorized Deviations		YES, listed under 12, Remarks						
				John F. Madigan	NONE		6-29-78						
23. Engineering Review Statement	The Quality Verification Documents submitted to Engineering with this form have been reviewed for conformance to the specified requirements and are acceptable.			Engineer's Signature	Date								
24. OCE Check In Statement	This form and the Quality Verification Documents referenced herein have been received and their relationship to the hardware items verified.			OCE's Signature	Date								
After OCE Check In Distribute to: Procurement Manager, Field Office Manager, Material Supervisor													
MIDLAND PLANTS - UNITS 1 & 2 CONSUMERS POWER COMPANY													
JOB NO. 7220 P.O. SPEC. 1 7220-J-207													
SHEET 1 OF 2													

JUN 29 1979

02717

VITROLABS SS

VU INFOMASTER

VITROLABS SS

026726C179 1514EST

0627 SILVER SPRING, MD 28 JUNE 79

TLX 230101 SECHTELARB

ATTN: R. L. CASTLEBERRY

SUBJ: P.O. 7220-J-207-AC ESFAS

THE UNIT 2 ESFAS AND QA DATA PACKAGE WILL BE READY FOR SHIPMENT BY THE WEEK OF JULY 3, 1979 EXCEPT FOR THE SYSTEM ELECTRICAL TEST DATA PACKAGE. VITRO DRAINING TP 2717-1041. VITRO REQUESTS THAT THE REQUIREMENT FOR DELIVERY OF THIS TEST DATA PACKAGE WITH THE EQUIPMENT BE WAIVED.

THE ABOVE TEST DATA PACKAGE WILL BE SUBMITTED WITHIN ONE MONTH AFTER EQUIPMENT DELIVERY.

VERY TRULY YOURS,

C. E. SUER
ASSISTANT DEPARTMENT HEAD
AUTOMATION INDUSTRIES, INC.
VITRO LABORATORIES DIVISION
(TX NO. 710-825-9642)

ACCEPTED
00527

1-PC

*Contracts / R. Lopez
W. L. Friedman
M. J. Clume
C. E. Suer
W. C. Chandler
J. E. Schaeffer*



NONCONFORMANCE REPORT

1. PROJECT NAME		JOB NO.		19. NO. 1524	20. PAGE 1 OF 1
2. UNIT(S)	3. DRAWING/PART NO.	REV 1	4. ITEM DESCRIPTION (Cable Terminations)		5. ITEM LOCATION
6. P.O. OR SPEC NO. 7220-H-163-10		7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV SER NO.		9. SOURCE
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. R-1-00-3773 NO. H-103 Rev. 6	12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO		13. SKETCH ATTACHED () YES () NO
14. Discovered During () Rec'g () Const () Test		15. Equip Furnished By () Client () Eng () FLD		16. NONCONFORMING CONDITION:	
Specification 7220-H-163 Rev. 6, Para. 0.4 states in part: "Distribution of the required documentation shall be made in accordance with Para G-321-D. All documentation shall be furnished upon or prior to the arrival of the components at the jobsite. ..." Contrary to the above, no Para G-321-D or Quality Verification documentation for the Sta-Ken Terminals has been received from the vendor. "Q" numbers are 4.534 and 4.504. Hold pending final disposition. 1 Hold tag(s) applied to the nonconforming item(s).		24. DISPOSITION CONCURRENCE			
17. REPORTED BY		DATE		18. VALIDATED BY	
19. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		20. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering		21. PROJECT ENGINEERING DISPOSITION	
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering		23. PROJECT ENGINEERING DISPOSITION		24. DISPOSITION RESULTS	
25. DISPOSITION RESULTS		26. QC ACCEPTANCE			
QC ENGINEER		DATE		AUTHORIZED INSPECTOR	
AUTHORIZED INSPECTOR		DATE			



NONCONFORMANCE REPORT

1. PROJECT NAME Hiland		JOB NO. 7220		19. NO. 1526	20. PAGE 1 OF 6
2. UNIT(S) Inter- minate	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION Random Lengths 2 Pgs. 2 1/2" x 8 1/2" x 3 1/2" TP 304 Ht. 4 1/2" 835975, 2 Pgs. 3" x 8 1/2" x 3 1/2" TP 304 Ht. 4 1/2" 835975	5. ITEM LOCATION Roseville, F-16N	
6. P.O. OR SPEC NO. 7220-M-104A-AC Rev. 10	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV SER NO.		9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER ITT Grinnalls, Kernersville
11. INSPECTION CRITERIA () DWG () SPEC (x) OTHER		IR NOR-1,00-3735 NO See Blk. 16		12. ASME AUTHORIZED INSPECTION REQ'D () YES (x) NO	13. SKETCH ATTACHED () YES (x) NO
				14. Discovered During (x) Rec'g () Const () Test	15. Equip Furnished By () Client (x) Eng () FLD
16. NONCONFORMING CONDITION: 1. Material Requisition 7220-M-104A Rev. 7 Documentation Submittal Para. 3 states in part: "The seller shall complete Form G-321D in detail with the list of documentation which verifies the use of required materials, performance of inspections, tests and procedures required by Form G-321-D." Contrary to the above, Form G-321-D was not completed as per instructions. (See Attachment "A")				24. DISPOSITION CONCURRENCE rework reject repair use as is PROJECT FIELD ENGINEER DATE PROJECT ENGINEER DATE PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE	
17. REPORTED BY J. L. Dool 9-8-78		18. VALIDATED BY J. L. Dool 9/11/78		25. DISPOSITION RESULTS	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE QC ENGINEER DATE AUTHORIZED INSPECTOR DATE					

See Mock 16

2. Purchase Order 7220-M-104A-AC Rev. JC FR. # 3 Note 3 states: "Shop Inspection required." Contrary to the above, the Quality Verification Documentation Package received for the material listed above indicates no Bechtel Shop Inspection was performed.
3. Spec. 7220-M-20 Rev. 8, Para. 5.2 states in part "All materials, fabrication, testing and examination shall be in accordance with the latest issue of the ASME Boiler and Pressure Vessel Code Section III." Latest issue of such specifications, standards, and codes means the issue (including latest published addenda) in force at date of award of order." Purchase Order 7220-M-104A-AC FR. # 3 was placed Sept. 1976 indicating the applicable edition of the ASME Section III is the 1974 Edition, thru Winter 1975 Addenda. Contrary to the above, the Material Test Reports certify the material listed above to the 1971 Edition Summer 1973 Addenda. (See Attachment "B" & "C")
4. Purchase Order 7220-M-104A-AC FR. #3 Rev. 1, Note 2 states in part: "All items shall be furnished in accordance with ASME Section III Class 2." Contrary to the above, A. The Material Test Reports certify the material to ASME Section III Class 3. (See Attachment "B" & "C") B. The 2 1/2" material listed above is marked ASME Section III Class 3.

"Q" number is indeterminate. Held pending final disposition. 4 hold tag(s) applied to the nonconforming material.

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

Page 3 of 6

1. Document Control Number	2. Specification Paragraph Reference	3. Kind of Copies	ENGINEERING DOCUMENTS		QUALITY VERIFICATION DOCUMENTS						17. Remarks
			4. Quantity Required	5. Date Approval Required	6. Quantity Required for Release	7. Date Release Code	8. Control System (Lot #)	9. Inspection Review	10. Engineering Review	11. Field GEC (A, B, C)	
1.1	2-12 8.0	Reproducible Masterfilm	2 2	X							
1.3	2-12 8.0	Reproducible Masterfilm	2 2	X							
6.0	9-1 G-23	Reproducible Masterfilm	2 2	X							
12.0	6.4	Reproducible Masterfilm	2 2	X							
13.0	6.4	Reproducible Masterfilm	2 2	X	1	C					
14.0	6.4.5	Reproducible Masterfilm	2 2	X	1	C					
15.0	6.5	Reproducible Masterfilm	2 2	X	1	C					
16.0	6.4.6	Reproducible Masterfilm	2 2	X	1	C					
17.1	9.0	Reproducible Masterfilm			1	C					
17.2	9.0	Reproducible Masterfilm			1	C					
17.3	9.0	Reproducible Masterfilm			1	C					
17.4	9.0	Reproducible Masterfilm			1	C					
18.0	9.0				1	C					
19.0	7.3.2		2 2	X	1	C					

12. Supplier's Order No.	14. Supplier's Part No.	15. Supplier's Part Name	16. Quantity
17. Buyer's App. Item No.	18. Buyer's Description, Tag or Code No.	19. Buyer's Part Name	20. Traceability

21. Supplier's Confirmation Statement: We certify that the listed work and required documents meet the requirements in the preceding statements. Supplier: _____ Signature: _____ Title: _____ Date: _____

22. Inspection Release Statement: Work was released based on initial factory inspection of inspection and review of documentation. Authorized Disposition: ☐ YES, Listed under 12, Remarks ☐ NO. Ex-Plant Inspector: _____ Signature: _____ Title: _____ Date: _____

23. Engineering Review Statement: The Quality Verification Documents submitted by Engineering with this form have been reviewed for compliance to the preceding requirements and are acceptable. Engineer: _____ Signature: _____ Title: _____ Date: _____

24. GEC Check in Statement: This form and the Quality Verification Documents referenced hereon have been reviewed and their relationship to the hardware has been verified. GEC: _____ Signature: _____ Title: _____ Date: _____

25. QA Audit Statement: The Quality Verification Documents furnished with this form have been audited. QAE: _____ Signature: _____ Title: _____ Date: _____

After GEC Check in Distribution to: Procurement Manager, Field Office Manager, Material Supervisor

HIGHLAND PLANT UNITS 1 & 2
 CONSUMERS POWER COMPANY

FORM 7220

FORM 7220

7220-R-101A(6)

1 of 2

ENGINEERING AND QUALITY VERIFICATION DOCUMENT REQUIREMENTS

READ INSTRUCTIONS ON REVERSE SIDE OF COVER

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

1.	2.	3.	ENGINEERING DOCUMENTS				QUALITY VERIFICATION DOCUMENTS						11.
			4.	5.	6.	7.	8.	9.	10.				
										Initial	Final	Yes	
70.0	7.3.1	Reproducible	2	2	X		1	C					
		Macrofilm											
21.0	7.3.2	Reproducible	2	2	X		1	C					
		Macrofilm											
22.0	7.3.4	Reproducible	2	2			1	C					
		Macrofilm			X								
28.0	6.6	Reproducible	2	2		X							
		Macrofilm											
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11. Supplier's Order No.	14. Supplier's Part No.	15. Supplier's Part Name	16. Quantity
17. Supplier's Item No.	18. Buyer's Line/Equip. Tag or Code No.	19. Buyer's Part Name	20. Traceability

21. Supplier's Conformance Statement: We certify that the listed work and required documents meet the requirements of the preceding documents. Supplier Signature: _____ Title: _____ Date: _____

22. Inspection Release Statement: Work was released based on satisfactory completion of inspection and review of documentation. Authorized Director: ☐ YES, Listed under 17, Remarks: ☐ NONE. Inspector Signature: _____ Date: _____

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

24. OCE Check-in Statement: This form and the Quality Verification Documents referenced herein have been received and their relationship to the hardware items verified. CONTROL NO. _____ FILE NO. _____ OCE Signature: _____ Date: _____

25. OAE Audit Statement: The Quality Verification Documents furnished with this form have been audited. OAE Signature: _____ Date: _____

After OCE Check-in Distribute to: Procurement Manager, Field Office Manager, Material Department

 6-321-D	MIDLAND PLANT UNITS 1 & 2 CONSUMERS POWER COMPANY ENGINEERING AND QUALITY VERIFICATION DOCUMENT REQUIREMENTS	JOB NO. 7220 PROJECT NUMBER (Q) 7220-N-104A SHEET 2 OF 2
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CRUCIAL ELECTRONICS
EAST TOWN, WASHINGTON D.C.

NO. 1526 Page 5 of 6

17104A

ALUMINUM, INC.
1000 W. 100th AVE
MINNEAPOLIS, MINN. 55427

FORCHTEL POWER CLERK
1000 W. 100th AVE
MINNEAPOLIS, MINN. 55427

STANDARD

PRICE IN EFFECT AT TIME OF SHIPMENT

RECEIVED FROM
DATE 08-15-78

207 1000 W. 100th AVE
2-1/2" 20 13 RAL
FULL 1000 W. 100th AVE
FREIGHT 1000 W. 100th AVE
ALUMINUM 1000 W. 100th AVE
TYPE 1000 W. 100th AVE

43' 43.500
232 253
100 2
30/20/73
07/31/78

SPEC: 1000 W. 100th AVE
SEE CONTAINER CONFIRMING FOR ALL DETAILS

C Packed with 75088
DATE 08-15-78
B/L NO. P-6648-02
Mtr Transport c/o Int.
Systems @ Milw. PPD

Aug 15 1978 #MP-7350-6 ITEM 2
Rush

1 COPY THIS WITH SHIPMENT, 1 WITH INVOICE
ALL ITEMS MUST BE SIGNED & NOTARIZED
1 COPY OF FREIGHT RECEIPT WITH INVOICE

835975

Boxed With 75088

ITEM	FOOTAGE	GROSS	TARE	NET	HEAT NO.
1	43'6"				
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
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17					
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19					
20					

ITEM	PIECES	FOOTAGE	GROSS	TARE	NET	HEAT NO.
1	2	43'6"			253	835975
2						
3						
4						
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M-104A

[illegible]

120 = 2 x 2 x 3 x 5 x 2

19/FT SOURCE	41.500
3/8	317
PCS	2
86/20/78	685
87/31/78	

C 1 BOX
DATE 08-15-78
B/L NO. P-6648-01
Motor Transport c/o
MT. SYSTEMS @ Milw. SPD
HEATS

85394.5

1 CONT. HYD'S RED WITH SHIPMENT, & WITH INVOICE
ALL HYD'S MUST BE SIGNED & NOTARIZED
1 COPY OF FREIGHT RECEIPT WITH INVOICE.

Boxes WITH 75087

[illegible][illegible]



NONCONFORMANCE REPORT

1. PROJECT NAME <i>MILKLAND 1 & 2</i>		JOB NO. <i>7220</i>		19. NO. <i>1527</i>	20. PAGE <i>1</i> OF <i>1</i>																																				
2. UNIT(S) <i>1</i>	3. DRAWING/PART NO. <i>50382-F-8-7-88</i>	REV	4. ITEM DESCRIPTION <i>POWER CIRCUIT BREAKER TYPE SHK 48KV 1200A 250MVA</i>	5. ITEM LOCATION <i>WHSE 1</i>																																					
6. P.O. OR SPEC NO. <i>E-205-R8</i>	7. SERIAL NO. <i>Same as 3</i>	8. REPLACEMENT PART P/N <i>N/A</i> REV <i>N/A</i> SER NO. <i>N/A</i>	9. SOURCE <i>Vender</i>	10. CONTRACTOR/SUPPLIER <i>ITE INDUSTRIAL CORP</i>																																					
11. INSPECTION CRITERIA () DWG () SPEC ☒ OTHER <i>VP</i>		IR NO. <i>E6-0-3</i> NO. <i>E205-297.2</i>	12. ASME AUTHORIZED INSPECTION REQ'D () YES ☒ NO	13. SKETCH ATTACHED () YES (☒) NO	14. Discovered During () Rec'g ☒ Const () Test	15. Equip. Furnished By () Client ☒ Eng () FLD																																			
16. NONCONFORMING CONDITION: <i>The breaker is scheduled for 1A06 and has been scheduled for 611. Crafts men have not been able to service this unit. The center contacts exceed the requirements specified in ITE INST 18-8.2.7-2 E Q-List # 3.101. Hold for engineering disposition. L Hold Tag Applied to breaker whse #1.</i>			24. DISPOSITION CONCURRENCE <table border="1"><tr><td>rework</td><td>reject</td><td>repair</td><td>use as is</td></tr><tr><td></td><td></td><td>☒</td><td></td></tr><tr><td colspan="4"><i>C. Thoma</i> <i>9-13-78</i></td></tr><tr><td colspan="4">PROJECT FIELD ENGINEER DATE</td></tr><tr><td colspan="4"><i>B. Stashinsky</i> <i>9-13-78</i></td></tr><tr><td colspan="4">PROJECT ENGINEER DATE</td></tr><tr><td colspan="4"><i>B. Stashinsky</i> <i>9-13-78</i></td></tr><tr><td colspan="4">PROJ CONSTR QC ENGINEER DATE</td></tr><tr><td colspan="4">AUTHORIZED INSPECTOR DATE</td></tr></table>			rework	reject	repair	use as is			☒		<i>C. Thoma</i> <i>9-13-78</i>				PROJECT FIELD ENGINEER DATE				<i>B. Stashinsky</i> <i>9-13-78</i>				PROJECT ENGINEER DATE				<i>B. Stashinsky</i> <i>9-13-78</i>				PROJ CONSTR QC ENGINEER DATE				AUTHORIZED INSPECTOR DATE			
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PROJ CONSTR QC ENGINEER DATE																																									
AUTHORIZED INSPECTOR DATE																																									
17. REPORTED BY <i>Dee Woolworth</i> <i>9-9-78</i>		18. VALIDATED BY <i>B. Stashinsky</i> <i>9-9-78</i>		25. DISPOSITION RESULTS																																					
21. ROUTING: ☒ TO FIELD ENGINEERING () TO OTHERS (SPECIFY)																																									
22. ☒ Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering																																									
<i>PROJECT PROCUREMENT SUPERVISOR TO ARRANGE FOR VENDOR TO INSPECT & REPAIR</i>																																									
<i>Blum Matthew 9-9-78</i>																																									
23. PROJECT ENGINEERING DISPOSITION																																									
26. QC ACCEPTANCE QC ENGINEER DATE AUTHORIZED INSPECTOR DATE																																									

NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 07220		19. NO. 1528	20. PAGE 1 OF 2
2. UNIT(S) 1&2	3. DRAWING/PART NO. E-607(Q)	REV 11	4. ITEM DESCRIPTION Pull Boxes Type Nema 1A	5. ITEM LOCATION Aux. Bldg. El. 568'	
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. E1.0-84 Rev 11 NCE-607 Rev 11	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: Pull boxes 2AJ349, 1AJ152, 2AJ348 and 2AJ346 are located at El. 568', between 5.6 and 6.9 and F to G lines. They have 3" GRS conduits entering from the bottom, these conduits have water in them. These conduits become embedded at El. 568', numbered 1AA011, 2AA012, 2AA013, 2AA014, 2BA013. Box 2AJ349 is starting to rust due to the amount of water laying in the bottom of the box. Also, there is a white substance		
(Continued on page 2)			24. DISPOSITION CONCURRENCE		
			rework reject repair use as is		
			PROJECT FIELD ENGINEER DATE B. M. Miller 9-12-78		
			PROJECT ENGINEER DATE		
			PROJ CONSTR QC ENGINEER DATE		
			AUTHORIZED INSPECTOR DATE		
17. REPORTED BY J.R. K. 9-11-78			18. VALIDATED BY B. M. Miller 9-11-78		
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering Prior to cable pulling Remove water from the conduits and box. Remove rust from the conduits and reglvanize. Remove white substance from box. If water returns after cable pulling, recommend conduits be plugged with Haliburton-Gel. B. M. Miller 9-12-78 G. New 9-13-78					
23. PROJECT ENGINEERING DISPOSITION PROJECT ENGINEERING HAS REVIEWED THE NCR AND CONCURS WITH THE FIELD RECOMMENDATION FOR RECALVANIZING AND CLEAN-UP, IN PLACE OF THE HALIBURTON-GEL IT IS RECOMMENDED THAT O-Z GEDNEY CONDUIT SEALING BUSHINGS BE UTILIZED DUE TO FLUID PRESSURE IF THE WATER RETURNS. B. M. Miller 9/12/78					
25. DISPOSITION RESULTS					
26. QC ACCEPTANCE QC ENGINEER DATE AUTHORIZED INSPECTOR DATE					

(Continued from page 1, block 16)

building up in the bottom of this box and the inside wall of conduit 2BA011.

Q-list #3.006.

4 Hold tags attached to boxes.

Hold for engineering disposition.



NONCONFORMANCE REPORT

1. PROJECT NAME		JOB NO.		19. NO. 1530	20. PAGE 1 OF 1				
2. UNIT(S) Inspector-	3. DRAWING/PART NO. H/A	REV H/A	4. ITEM DESCRIPTION Heat # 61151 10 Pcs 2 x 3 Concentric Reducers 9A-234 WED		5. ITEM LOCATION Q.C. H-13, West. # 1				
6. P.O. OR SPEC NO. 7220-8-20129	7. SERIAL NO. H/A	8. REPLACEMENT PART P/N H/A REV _____ SER NO. _____		9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER In-Junkin Corporation				
11. INSPECTION CRITERIA () DWG (x) SPEC () OTHER		IR NO. H-1-60-5807 NO. H-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: Specification H-305 Rev. 3 para. 7.1 states "All submittals and documentation will conform to the procedures and quantities specified by Form Q-321-D." Contrary to the above, no Form Q-321-D was received with the Quality Verification Documentation package supplied for the ten 2 x 3 concentric reducer. "q" number is indeterminate until installation. Hold pending final disposition. Hold tag(s) applied to the nonconforming item(s).					24. DISPOSITION CONCURRENCE <table border="1"><tr><td>work</td><td>reject</td><td>repair</td><td>use as is</td></tr></table> PROJECT FIELD ENGINEER _____ DATE _____ PROJECT ENGINEER _____ DATE _____ PROJ CONSTR QC ENGINEER _____ DATE _____ AUTHORIZED INSPECTOR _____ DATE _____	work	reject	repair	use as is
work	reject	repair	use as is						
17. REPORTED BY John L. Diferio		DATE 9-11-78	18. VALIDATED BY A. D. Fort		DATE 9-12-78				
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)									
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering									
23. PROJECT ENGINEERING DISPOSITION									
26. QC ACCEPTANCE QC ENGINEER _____ DATE _____ AUTHORIZED INSPECTOR _____ DATE _____									

NONCONFORMANCE REPORT

1. PROJECT NAME <i>MIDLAND</i>		JOB NO. <i>7220</i>		19. NO. <i>1532</i>	20. PAGE <i>1</i> OF <i>1</i>																																				
2. UNIT(S) <i># 2</i>	3. DRAWING/PART NO. <i>M-619-SH1</i>	REV. <i>5/F4</i>	4. ITEM DESCRIPTION <i>PIPE COMPONENT OF LINE 10"-2HBC-109</i>	5. ITEM LOCATION <i>UNIT-2 ELEV. 607'-6"</i>																																					
6. P.D. OR SPEC NO. <i>N/A</i>	7. SERIAL NO. <i>N/A</i>	8. REPLACEMENT PART P/W <i>N/A</i> REV <i>N/A</i> SER NO. <i>N/A</i>		9. SOURCE <i>CONSTRUCTION</i>	10. CONTRACTOR/SUPPLIER <i>N/A</i>																																				
11. INSPECTION CRITERIA () DWG ☒ SPEC () OTHER		IR NO. <i>P-110-619-1-5</i> NO. <i>M-204-REV 9</i>	12. ASME AUTHORIZED INSPECTION REQ'D ☒ YES () NO	13. SKETCH ATTACHED () YES ☒ NO	14. Discovered During () Rec'g ☒ Const () Test																																				
15. Equip. Furnished By () Client () Eng ☒ FLD																																									
16. NONCONFORMING CONDITION: <i>SPECIFICATION M-204, REV 9, PARA 4.1.3 STATES IN PART:</i> <i>"PIPE SHALL BE MARKED WITH A HEAT NUMBER OR A HEAT CODE, AND SHALL RETAIN THIS IDENTIFICATION UNTIL IT IS FABRICATED INTO SUB-ASSEMBLIES OR INSTALLED IN THE PIPING SYSTEM, AND THE IDENTIFICATION HAS BEEN RECORDED." CONTRARY TO THE ABOVE, A PIPE COMPONENT OF LINE 2HBC-109 ON DRAWING M619-SH1, BETWEEN F.W.s 35 & 37, HAS BEEN INSTALLED WITH NO TRACEABLE IDENTIFICATION. (Q# 4.192) 1 Q.C. HOLD TAG APPLIED AT F.W. #37</i>				24. DISPOSITION CONCURRENCE																																					
				<table border="1"> <tr> <td>rework</td> <td>reject</td> <td>repair</td> <td>use as is</td> </tr> <tr> <td colspan="3"><i>[Signature]</i></td> <td><i>9/21/78</i></td> </tr> <tr> <td colspan="3">PROJECT FIELD ENGINEER</td> <td>DATE</td> </tr> <tr> <td colspan="3"><i>[Signature]</i></td> <td><i>9-21-78</i></td> </tr> <tr> <td colspan="3">PROJECT ENGINEER</td> <td>DATE</td> </tr> <tr> <td colspan="3"><i>[Signature]</i></td> <td><i>9-22-78</i></td> </tr> <tr> <td colspan="3">PROJECT CONSTR. QC ENGINEER</td> <td>DATE</td> </tr> <tr> <td colspan="3"><i>[Signature]</i></td> <td><i>9-22-78</i></td> </tr> <tr> <td colspan="3">AUTHORIZED INSPECTOR</td> <td>DATE</td> </tr> </table>		rework	reject	repair	use as is	<i>[Signature]</i>			<i>9/21/78</i>	PROJECT FIELD ENGINEER			DATE	<i>[Signature]</i>			<i>9-21-78</i>	PROJECT ENGINEER			DATE	<i>[Signature]</i>			<i>9-22-78</i>	PROJECT CONSTR. QC ENGINEER			DATE	<i>[Signature]</i>			<i>9-22-78</i>	AUTHORIZED INSPECTOR			DATE
rework	reject	repair	use as is																																						
<i>[Signature]</i>			<i>9/21/78</i>																																						
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<i>[Signature]</i>			<i>9-22-78</i>																																						
AUTHORIZED INSPECTOR			DATE																																						
17. REPORTED BY <i>[Signature]</i>		DATE <i>9-12-78</i>		18. VALIDATED BY <i>[Signature]</i>																																					
				DATE <i>9/12/78</i>																																					
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)																																									
22. ☒ Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering																																									
Cut out Non-traceable pipe from service water line 2-HBC-109 and replace with traceable material. Transfer of heat number to be witnessed by Q.C. Piping/Mechanical Inspector.																																									
<i>Wes/Genther 9-19-78</i>																																									
<i>RW and 9/20/78</i>																																									
23. PROJECT ENGINEERING DISPOSITION																																									
26. QC ACCEPTANCE																																									
QC ENGINEER				DATE																																					
AUTHORIZED INSPECTOR				DATE																																					

NONCONFORMANCE REPORT

1. PROJECT NAME		JOB NO.		19. NO. 1533	20. PAGE 1 OF 1
2. UNIT(S)		3. DRAWING/PART NO.	REV	4. ITEM DESCRIPTION	
				6" x 4" x 3/8" x 20' - 0" Angle	
5. P.O. OR SPEC NO.		7. SERIAL NO.	8. REPLACEMENT PART		9. SOURCE
P-27426		N/A	P/N N/A REV _____ SER NO. _____		Supplier U.S. Steel Corporation
10. CONTRACTOR/SUPPLIER		11. INSPECTION CRITERIA			
		() DWG () SPEC () OTHER IR NO. R-1 CO-3491 NO. N/A			
12. ASME AUTHORIZED INSPECTION REQ'D		13. SKETCH ATTACHED		14. Discovered During	
() YES (X) NO		() YES (X) NO		(X) Rec'g () Const () Test	
15. Equip Furnished By					
() Client () Eng (X) FLD					
16. NONCONFORMING CONDITION:					
Purchase Order Number 7220-P-27426 Note 3 requires a certified Mill Test Report for all material. Contrary to the above, 10 pcs. of angle 6" x 4" x 3/8" x 20' was received at the jobsite with no mill test report. Hold pending final disposition. "Q" number is indeterminate. <u>/hold tag(s) applied to the nonconforming item(u).</u>					
24. DISPOSITION CONCURRENCE					
rework reject repair use as is					
PROJECT FIELD ENGINEER DATE					
PROJECT ENGINEER DATE					
PROJ CONSTR QC ENGINEER DATE					
AUTHORIZED INSPECTOR DATE					
25. DISPOSITION RESULTS					
26. QC ACCEPTANCE					
QC ENGINEER DATE					
AUTHORIZED INSPECTOR DATE					



NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1534	20. PAGE 1 OF 2
2. UNIT(S) Unit II	3. DRAWING/PART NO. B & W QRM 48-1218-02	REV N/A	4. ITEM DESCRIPTION Flywheel for Reactor Coolant Pump Motors	5. ITEM LOCATION Motor Bldg. B	
6. P.Q. OR SPEC NO. M 1.8	7. SERIAL NO. See Blk. 16	8. REPLACEMENT PART P/N N/A REV _____ SER NO. _____		9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Babcock & Wilcox
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. See Blk. 16 NO See Blk. 16	12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During (X) Rec'g () Const () Test
15. Equip Furnished By (X) Client () Eng () FLD					
16. NONCONFORMING CONDITION: 1. PQCI R-2.00 Rev. 4 Act 2.1 requires the review of the Material Certificate of Conformance and Code Data (if applicable) or TWX identifying the material and stating that the missing documentation has been sent prior to the release of the equipment to storage. PQCI R-2.20 Rev. 4 Act 2.1 states: "Review the contents of the B & W Data Package for availability, legibility, and traceability in accordance with the requirements of the B & W Quality Requirements Matrix (QRM)." Cont. on Page 2				24. DISPOSITION CONCURRENCE rework reject repair use as is <i>[Signature]</i> 9-27-78 PROJECT FIELD ENGINEER DATE PROJECT ENGINEER DATE PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE	
17. REPORTED BY <i>[Signature]</i> 9-13-78		18. VALIDATED BY <i>[Signature]</i> 9-14-78		25. DISPOSITION RESULTS	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
1. Mr. Walter Lee, B&W technical representative will insure the required documentation is obtained. (Proc. Supervisor to coordinate)					
2. Mr. Lee has requested the vendor to provide an equipment tag with B&W Mark No. and Bechtel equipment No. for RC Pump motor 2P51A. Tag to be applied upon receipt.					
23. PROJECT ENGINEERING DISPOSITION <i>[Signature]</i> 9/27					
26. QC ACCEPTANCE QC ENGINEER DATE AUTHORIZED INSPECTOR DATE					

Block 16 Continued

Contrary to the above, no Certificate of Conformance or TWX was supplied to allow release of the R.C. Pump Motor for storage. Nor has the QA Data package been received for the R.C. Pump Motor & Flywheel that would allow release of the motor for installation. Pump Motors affected are:

<u>B & W Mark No.</u>	<u>Bechtel Eq. No.</u>	<u>G.E. S/N</u>	<u>IR R-2.00</u>	<u>IR R-2.20</u>
2RC-PIB1	2P51A	8384562	66	48
2RC-PIB2	2P51B	8384561	69	48

2. PQCI R-2.00 Rev. 4 & R-2.20 Rev. 4 both require the verification of the B & W number and Equipment S/N on the equipment of containers to the supplied documentation and Certificate of Conformance. Contrary to the above, R.C. Pump Motor 2P51A does not have an equipment tag with B & W Mark No. and Bechtel Equipment No.

"Q" number is 4,027. Hold pending final disposition. 2 hold tag(s) applied to the R.C. Pump Motors.

NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1535	20. PAGE 1 of 1										
2. UNIT(S) 1 & 2	3. DRAWING/PART NO. 7220-E-20-6-8	REV N/A	4. ITEM DESCRIPTION Electrical Cable Penetrations	5. ITEM LOCATION Warehouse #1											
6. P.O. OR SPEC NO. 7220-E-20-AC Rev. 8	7. SERIAL NO. See Blk. 16	8. REPLACEMENT PART P/N N/A REV _____ SER NO. _____	9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Amphenol Sams Division, Tanker Ramo											
11. INSPECTION CRITERIA () DWG (x) SPEC () OTHER		IR NO. R-1,00-3839 NO. E-20 Rev. 5	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 (x) Eng () FLD															
16. NONCONFORMING CONDITION: Specification 7220-E-20 Rev. 5, Para. 12.1 states: "Written certification and/or certified test reports shall be submitted as required by Form G-321-D." Contrary to the above, the Qualification Test required by document category 27.0 of the Form G-321-D (reference SDDR 498) has yet to be supplied by the vendor to the jobsite for penetrations 17102 and 22101. "Q" number is 3.002. Hold pending final disposition. 2 hold tag(s) applied to nonconforming item(s).				24. DISPOSITION CONCURRENCE											
				<table border="1"> <tr> <td>rework</td> <td>reject</td> <td>repair</td> <td>use as is</td> </tr> <tr> <td>Doc</td> <td></td> <td></td> <td></td> </tr> </table>		rework	reject	repair	use as is	Doc					
rework	reject	repair	use as is												
Doc															
				<table border="1"> <tr> <td>PROJECT ENGINEER</td> <td>DATE</td> </tr> <tr> <td>J. Boon</td> <td>9-15-78</td> </tr> <tr> <td>PROJECT ENGINEER</td> <td>DATE</td> </tr> <tr> <td>J. Barclay</td> <td>9-18-78</td> </tr> <tr> <td>AUTHORIZED INSPECTOR</td> <td>DATE</td> </tr> </table>		PROJECT ENGINEER	DATE	J. Boon	9-15-78	PROJECT ENGINEER	DATE	J. Barclay	9-18-78	AUTHORIZED INSPECTOR	DATE
PROJECT ENGINEER	DATE														
J. Boon	9-15-78														
PROJECT ENGINEER	DATE														
J. Barclay	9-18-78														
AUTHORIZED INSPECTOR	DATE														
17. REPORTED BY John R. Miller		DATE 9-13-78		18. VALIDATED BY J. Barclay											
				DATE 9-14-78											
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.															
B. Muller 9-15-78															
23. PROJECT ENGINEERING DISPOSITION															
26. QC ACCEPTANCE															
QC ENGINEER _____ DATE _____															
AUTHORIZED INSPECTOR _____ DATE _____															

Block 16 (cont.)

A conditional release is granted to install Electrical Penetrations 1Z102 and 2Z101. Corrections or removal can be accomplished without causing damage or contamination to the associated plant equipment or structure.

PFE	<i>Q. Boon</i>	9-15-78	<i>A. Birely</i>	2-15-78
		Date	PFQCE	Date
	Not	<i>LA Davis, back</i>	9-15-78	
	LQAE			Date

Block 5 Confirmed

Per 2Z101 Conditional Released to field for installation, 9/19/78

NONCONFORMANCE REPORT

[illegible]

Block 16 Continued

The asbestos filler material shall be certified to contain no more than 250 PPM fluoride and 250 PPM chlorides.

The closure seals for the heater bundle assemblies shall be silver plated, Ni-Cr-Fe O-rings. The silver plating shall be 0.002 to 0.003 inches thick." Contrary to the above, no certifications were supplied for the following

Unit I & II Pressurizer Gaskets:

<u>Gasket Description</u>	<u>Part No.</u>	<u>Serial No.</u>
Heater Bundle "O" Rings	2139-2	131-2013-59-1
	2139-3	131-2013-59-2
	2139-4	131-2013-59-3
	2139-5	131-2013-59-4

Manway Gaskets S/N 10-70-2012-59-1 thru 3

"Q" numbers are 4.0111 and 4.0211. Hold pending final disposition. / hold tag(s) applied to the nonconforming item(s).



NONCONFORMANCE REPORT

1. PROJECT NAME Island		JOB NO. 7220		19. NO. 1537	20. PAGE 1 OF 2
2. UNIT(S) T. S. IT	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION Miscellaneous Equipment for Motor Control Centers	5. ITEM LOCATION Q.C. Hold, Whse. #1	
6. P.O. (R) SPEC. NO. 7220-1-7-AC REV. 1	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A, REV. 3806, 3808	9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER ITE Gould	
11. INSPECTION CRITERIA () DWG (x) SPEC () OTHER		IR NO. R-1.00-3804 NO. E-7 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 E-7 Rev. 4 para. 3.2 states "Written document- ation and/or certified test reports showing that the control centers and individual components designated Class IE meet the requirements of the tests outlined in Section 8 of the specification and documentation tabulated on Form C-321-D."				24. DISPOSITION CONCURRENCE rework reject repair use as is Doc 9-15-78 PROJECT FIELD ENGINEER DATE PROJECT ENGINEER DATE PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE	
17. REPORTED BY John L. Alf Jr. 9-11-78		18. VALIDATED BY J. Barclay 9-14-78		25. DISPOSITION RESULTS	
21. ROUTING: (x) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. (x) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering Field Procurement Supervisor to obtain proper documentation. J. Duckering 9-15-78 B. Matthews 9-15-78					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE QC ENGINEER DATE AUTHORIZED INSPECTOR DATE					

Block 16 Continued

Contrary to the above, no documentation or Form G-321-D was received for 180 Belleville Washers (IR R-1.00-3804) on Gould Sales Order No. 84-56122-M, 108 Rodent Proof End Covers (IR R-1.00-3806) on Gould Sales Order No. 84-56122-F, and 340 Belleville Washers (IR R-1.00-3808) on Gould Sales Order No. 84-56122-N.

"Q" number is 3.104. Hold pending final disposition. 3 hold tag(s) applied to the nonconforming item(s).

NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1539	20. PAGE 1 OF 1								
2. UNIT(S) Indeter- minate	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION S.S. Stock Pipe	5. ITEM LOCATION FM & FM Poseyville Laydown									
6. P.O. OR SPEC. NO. FR # 1 Rev. 1 7220-M-104A-AC	7. SERIAL NO. Rev. 10 N/A	8. REPLACEMENT PART P/N N/A REV _____ SER NO. _____	9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER ITT Grinnell, Kornersville, N.C.									
11. INSPECTION CRITERIA () DWG (x) SPEC (x) OTHER		IR NO. R-1.00-3660 NO. See Flk. 16	12. ASME AUTHORIZED INSPECTION REQ'D () YES (x) NO	13. SKETCH ATTACHED () YES (x) NO	14. Discovered During (x) Rec'g () Const () Test								
15. Equip. Furnished By () Client (x) Eng () FLD													
16. NONCONFORMING CONDITION: Material Description: A. 2 pcs. (39' 4") of 12" Sch 40 S.S. ASME SA-312, type 304 Pipe Ht. # F80398. B. 1 pc. (20.167') of 4" Sch 40 S.S. ASME SA-312 type 304 Ht. # 8654452 and 1 pc. (20.583') of 6" Sch 40 S.S. ASME SA-312 type 304 Ht. # 655291. I. Purchase Order 7220-M-104A-AC Rev. 10 requires Quality Verification Documents in accordance with Form G-321-D. Contrary to the above,				24. DISPOSITION CONCURRENCE									
				<table border="1"> <tr> <td>rework</td> <td>reject</td> <td>repair</td> <td>use as is</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>		rework	reject	repair	use as is				
rework	reject	repair	use as is										
Continued on Page 2				<table border="1"> <tr> <td>PROJECT FIELD ENGINEER</td> <td>DATE</td> </tr> <tr> <td>PROJECT ENGINEER</td> <td>DATE</td> </tr> <tr> <td>PROJ CONSTR QC ENGINEER</td> <td>DATE</td> </tr> <tr> <td>AUTHORIZED INSPECTOR</td> <td>DATE</td> </tr> </table>		PROJECT FIELD ENGINEER	DATE	PROJECT ENGINEER	DATE	PROJ CONSTR QC ENGINEER	DATE	AUTHORIZED INSPECTOR	DATE
PROJECT FIELD ENGINEER	DATE												
PROJECT ENGINEER	DATE												
PROJ CONSTR QC ENGINEER	DATE												
AUTHORIZED INSPECTOR	DATE												
17. REPORTED BY Marian Duvon		DATE 9-13-78		18. VALIDATED BY W. S. V. by									
DATE 9-13-78		DATE 9-14-78											
21. ROUTING: (x) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)													
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering													
23. PROJECT ENGINEERING DISPOSITION													
26. QC ACCEPTANCE													
QC ENGINEER				DATE									
AUTHORIZED INSPECTOR				DATE									

Block 16 Continued

- A. The G-321-D form for the material listed under A above is the incorrect form to be used. (See Attachment "A" Pages 1 & 2 of 2)
- B. There was no G-321-D form received for the material listed under B above.
- II. Purchase Order 7220-M-104A-AC, FR # 3 Rev. 1, NOTE 3 states: "Shop Inspection required." Contrary to the above, the Quality Verification Documentation Package for the material listed above indicates no Pachtel Shop Inspection was performed.
- III. Specification 7220-M-201 Rev. 8, Para. 5.2 states in part: "All materials, fabrication, testing and examination shall be in accordance with the latest issue of the ASME Boiler and Pressure Vessel Code Section III." "Latest issue of such specifications, standards, and codes means the issue (including latest published addenda) in force at date of award of order." Purchase Order 7220-M-104A-AC FR # 3 was placed Sept. 1976 indicating the applicable edition of the ASME Code Section III was the 1974 Edition, thru Winter '75 Addenda. Contrary to the above, the Material Test Reports certify the material listed above to the 1971 Edition, Summer '73 Addenda.
- IV. Purchase Order 7220-M-104A-AC FR # 3 Rev. 1, NOTE 2 states in part: "All items shall be furnished in accordance with ASME Section III Class 2." Contrary to the above, for the material listed above:
- A. The Material Test Reports certify the material to ASME Section III Class 3.
- B. Quality Verification Documentation indicates material was not examined in accordance with ASME Section III Class 2, Para. NC-2551(b).
- V. Purchase Order 7220-M-104A-AC FR # 3 Rev. 1, NOTE 2 states in part: "All lengths of pipe must be marked with Purchase Order no. and ends capped for shipment." Contrary to the above:
- A. The material listed above did not have the Purchase Order no. on the pipe, and
- B. The material listed under A. above was received on site with no end caps.

Block 16 Continued

VI. ASME Section III Subsection NA, 1974 Edition, thru Winter '75 Addenda, Para. NA-3766.6 states in part:

"The identification of material shall consist of marking the material with the applicable specification and grade of material, heat number or heat code..." Contrary to the above, the material listed under A. above is marked with heat number 80398, Quality Verification Documentation indicates heat number as 80398.

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

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

1. Document Category Number	2. Specification Paragraph Reference	3. Kind of Exam	ENGINEERING DOCUMENTS				QUALITY VERIFICATION DOCUMENTS						12. Remarks
			4. Quantity Required		5. Price Approval Required		6. Quantity Required for Process	7. Dimension Case	8. Inspection Method	9. Inspection Method	10. Engineering Review	11. Field OCE Check In	
1.1	2.12	Representable	2	2	X								NA SA-312
	3.0	Microfilm											
1.3	2.12	Representable	2	2	X								NA SA-312
	3.0	Microfilm											
		Representable											
		Microfilm											
12.0	5.4	Representable	2	2	X								NA SA-312
		Microfilm											
13.0	5.4	Representable	2	2	X		1	C					NA SA-312
		Microfilm											
14.0	6.4.5	Representable	2	2	X		1	C					NA None
		Microfilm											
15.0	6.5	Representable	2	2	X		1	C					STAINLESS - PICKLED
		Microfilm											& PASSIVATED
16.0	6.4.4	Representable	2	2	X		1	C					HEAT TREAT STATEMENT
		Microfilm											ON MTR
17.1	8.3	Representable	1	1			1	C					MTR
		Microfilm											
17.2	8.3	Representable					1	C					NA SA-312
		Microfilm											
17.3	8.3	Representable					1	C					NA SA-312
		Microfilm											
17.4	8.3	Representable					1	C					MTR
		Microfilm											
18.0	8.0						1	C					MTR

13. Supplier's Order No. X C-1059	14. Supplier's Part No. X N/A	15. Supplier's Part Name X Welded Pipe SS	16. Quantity X 40ft
17. Buyer's Rec. Item No. X N/A	18. Buyer's Line Item No. Try or Code No. X N/A	19. Buyer's Part Name X MP-2356-5	20. Trenchability X SEE TIR.

21. Supplier's Confirmation Statement	I certify that the total work and required documents meet the requirements of the preceding documents.	Supplier Signature	Date
---------------------------------------	--	--------------------	------

22. Inspection Release Statement	Work was released based on satisfactory completion of inspection and review of documentation.	Authorized Inspection	☐ YES, Name and No. 17, Serial No. ☐ NONE	Signature	Date
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23. Engineering Review Statement	The Quality Verification Documents submitted to Engineering with this form have been reviewed for conformance to the specified requirements and are acceptable.	Engineer Signature	Date
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24. OCE Check-in Statement	The form and the Quality Verification Documents referenced herein have been received and their relationship to the hardware items verified.	OCE Signature	CONTROL NO. _____ FILE NO. _____	Date
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25. Final Audit Statement	The Quality Verification Documents furnished with this form have been audited.	CAE Signature	Date
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After OCE Check-in Distribute to: Purchasing Manager, Field Office Manager, Material Supervisor

HIGHLAND PLANT UNITS 1 & 2
CONSUMERS POWER COMPANY

ENGINEERING AND QUALITY VERIFICATION DOCUMENT REQUIREMENTS

JULY NO E 7220
EDDIE ADAMS
7220-X-1046

DATE 1 07 2

NOR # 1539 Page 4 of 5 Attachment "A" Page 1 of 1

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

Supplier's failure to comply with their requirements may result in:													
1. Item's Category Number	2. Specification Paragraph Reference	3. Kind of Copies	ENGINEERING DOCUMENTS				QUALITY VERIFICATION DOCUMENTS						17. Remarks
			4. Quantity Required		5. Price Appraisal Required		6. Quantity Required for Release	7. Date Entry Code	8. Supplier's Confirmation Check	9. Inspection Release	10. Engineering Review	11. Field DCE Check In	
			Initial	Final	Yes	No							
	8.0	Reproducible	2	2	X		1	C					NA-3A-312 NR.
20.0	7.3.1	Microfilm					1	C					NA-3A-312
	8.0	Reproducible	2	2	X								
21.0	7.3.2	Microfilm											
	8.0	Reproducible	2	2	X		1	C					NA-3A-312 NR.
22.0	7.3.3	Microfilm											
		Reproducible	2	2		X							PIPE-NR
28.0	6.6	Microfilm											
		Reproducible											
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13. Supplier's Order No. X	14. Supplier's Part No. X	15. Supplier's Part Name X	16. Quantity X
17. Buyer's Req. Item No. X	18. Buyer's Line/Equip., Tag or Code No. X	19. Buyer's Part Name X	20. Tolerability X

21. Supplier's Confirmation Statement	We certify that the listed work and required documents meet the requirements of the preceding documents. Supplier		
22. Inspection Release Statement	Work was released based on satisfactory completion of inspection and review of documentation.	Inspected Inspector	Date
23. Engineering Review Statement	The Quality Verification Documents submitted to Engineering on this form have been reviewed for conformance to the specified requirements and are acceptable.	Engineer	Date
24. DCE Check In Statement	This form and the Quality Verification Documents referenced herein have been received and their relationship to the hardware items verified.	DCE	Date
25. DAE Audit Statement	The Quality Verification Documents furnished with this form have been audited.	DAE	Date

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



G 321-D

MIDLAND PLANT UNITS 1 & 2
CONSUMERS POWER COMPANY

ENGINEERING AND QUALITY VERIFICATION DOCUMENT REQUIREMENTS

JOB NO. 7220

PROJECT NUMBER

7220-M-104B

SHEET 2 OF 2

QUALITY VERIFICATION DOCUMENT TRANSMITTAL

NONCONFORMANCE REPORT

1. PROJECT NAME <i>111. Dknd</i>		JOB NO. <i>7220</i>		19. NO. <i>1510-</i>	20. PAGE <i>1-OF-2</i>
2. UNIT(S) <i>CONC. #1</i>	3. DRAWING/PART NO. <i>A/A</i>	REV <i>A/A</i>	4. ITEM DESCRIPTION <i>CONCRETE CURING</i>	5. ITEM LOCATION <i>POUR C (659) a</i>	
6. P.O. OR SPEC NO. <i>C231-REV 16</i>	7. SERIAL NO. <i>A/A</i>	8. REPLACEMENT PART P/N <i>A/A</i> REV <i>A/A</i> SER NO. <i>A/A</i>	9. SOURCE <i>CONST</i>	10. CONTRACTOR/SUPPLIER <i>N/A</i>	
11. INSPECTION CRITERIA () DWG M SPEC () OTHER IR NO. <i>C140 564</i> NO. <i>---</i>		12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO		13. SKETCH ATTACHED () YES () NO	
14. Discovered During () Rec'g K () Const () Test					
15. Equip. Furnished By () Client () Eng (X) FLD					
16. NONCONFORMING CONDITION: <i>C.231-REV 16 states in part 14.1</i>					
<i>Agely placed concrete shall be kept wet by the continuous presence of water with a nozzle, sponges or wet burlap for the first several days.</i>					
<i>Contrary to the above Unit #1 Pour C (659) a, burlap was found hanging 3-3" from faces, and concrete left surfaced.</i>					
<i>Concrete surfaces were dry, the condition described above was</i>					
17. REPORTED BY <i>Edwin Rutter</i>		DATE <i>9-15-78</i>		18. VALIDATED BY <i>W. Barlow</i>	
21. ROUTING: <i>M</i> TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		DATE <i>9-15-78</i>			
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE					
QC ENGINEER				DATE	
AUTHORIZED INSPECTOR				DATE	

NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1541	20. PAGE 1 of 1																								
2. UNIT(S) Indeterminate	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION Rod Couplings	5. ITEM LOCATION Standish																									
6. P.O. OR SPEC NO. 7220-F-29257	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV SER NO.	9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER NPS Industries, Portland																									
11. INSPECTION CRITERIA () DWG () SPEC (X) OTHER		IR NCR-1,00-3852 NO See below	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-29257 states that materials furnished by the supplier be certified in accordance with the ASME B & PV Code Section III, subsection NF, Article 2000. Contrary to the above, 20(twenty) 1 inch rod couplings were shipped without Certificate of Compliance. "Q" number is indeterminate. Hold for final disposition. / hold tag(s) applied.			24. DISPOSITION CONCURRENCE <table border="1"><tr><td>rework</td><td>reject</td><td>repair</td><td>use as is</td></tr><tr><td colspan="4"></td></tr><tr><td colspan="2">PROJECT FIELD ENGINEER</td><td colspan="2">DATE</td></tr><tr><td colspan="2">PROJECT ENGINEER</td><td colspan="2">DATE</td></tr><tr><td colspan="2">PROJ CONSTR QC ENGINEER</td><td colspan="2">DATE</td></tr><tr><td colspan="2">AUTHORIZED INSPECTOR</td><td colspan="2">DATE</td></tr></table>			rework	reject	repair	use as is					PROJECT FIELD ENGINEER		DATE		PROJECT ENGINEER		DATE		PROJ CONSTR QC ENGINEER		DATE		AUTHORIZED INSPECTOR		DATE	
rework	reject	repair	use as is																										
PROJECT FIELD ENGINEER		DATE																											
PROJECT ENGINEER		DATE																											
PROJ CONSTR QC ENGINEER		DATE																											
AUTHORIZED INSPECTOR		DATE																											
17. REPORTED BY Ken Hanchuan 9/10/78		18. VALIDATED BY A. J. Barlow 9-15-78		25. DISPOSITION RESULTS																									
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)																													
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering																													
23. PROJECT ENGINEERING DISPOSITION																													
26. QC ACCEPTANCE <table border="1"><tr><td>QC ENGINEER</td><td>DATE</td></tr><tr><td>AUTHORIZED INSPECTOR</td><td>DATE</td></tr></table>						QC ENGINEER	DATE	AUTHORIZED INSPECTOR	DATE																				
QC ENGINEER	DATE																												
AUTHORIZED INSPECTOR	DATE																												

NONCONFORMANCE REPORT

1. PROJECT NAME		JOB NO.		19. NO. 1542		20. PAGE 1 OF 1	
2. UNIT(S)		3. DRAWING/PART NO.		4. IT' DESCRIPTION		5. ITEM LOCATION	
6. P.O. OR SPEC NO.		7. SERIAL NO.		8. REPLACEMENT PART		9. SOURCE	
11. INSPECTION CRITERIA		12. ASME AUTHORIZED INSPECTION REQ'D		13. SKETCH ATTACHED		14. Discovered During	
16. NONCONFORMING CONDITION:		24. DISPOSITION CONCURRENCE		25. DISPOSITION RESULTS		26. QC ACCEPTANCE	

NONCONFORMANCE REPORT

1. PROJECT NAME <u>Midland</u>		JOB NO. <u>7220</u>		19. NO. <u>1513</u>	20. PAGE <u>1 of 1</u>								
2. UNIT(S) <u>Indeter-</u> <u>minate</u>	3. DRAWING/PART NO. <u>N/A</u>	REV <u>N/A</u>	4. ITEM DESCRIPTION <u>Welded Beam Attachment</u>	5. ITEM LOCATION <u>Standish</u>									
6. P.O. OR SPEC NO. <u>7220-F-29257</u>	7. SERIAL NO. <u>N/A</u>	8. REPLACEMENT PART P/N <u>N/A</u> REV <u> </u> SER NO. <u> </u>		9. SOURCE <u>Supplier</u>	10. CONTRACTOR/SUPPLIER <u>NPS Industries, Portland</u>								
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. <u>B-1.00-3821</u> NO. <u>See Below</u>	12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO	13. SKETCH ATTACHED () YES () NO	14. Discovered During () Rec'g () Const () Test								
				15. Equip Furnish'ed By () Client () F.g () FLD									
16. NONCONFORMING CONDITION: <u>Purchase Order 7220-F-29257 calls for 75 (seventy-five) 1" welded beam attachments with bolt & nut per NPS part code BBD-08. Contrary to the above, 33 (thirty-three) of the items were shipped with the wrong size bolt & nut (1" rather than 1 1/8" diameter) "Q" number indeterminate. Hold pending final disposition. 1 hold tag(s) applied.</u>				24. DISPOSITION CONCURRENCE									
				<table border="1"> <tr> <td>rework</td> <td>reject</td> <td>repair</td> <td>use as is</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>		rework	reject	repair	use as is				
rework	reject	repair	use as is										
17. REPORTED BY <u>[Signature]</u> DATE <u>9-15-78</u>		18. VALIDATED BY <u>[Signature]</u> DATE <u>9-15-78</u>		25. DISPOSITION RESULTS									
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)													
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering													
23. PROJECT ENGINEERING DISPOSITION													
26. QC ACCEPTANCE													
				QC ENGINEER DATE									
				AUTHORIZED INSPECTOR DATE									

NONCONFORMANCE REPORT

1. PROJECT NAME		JOB NO.		19. NO. 1544	20. PAGE 1 OF 2
2. UNIT(S) Inches	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION Structural Steel	5. ITEM LOCATION Standish	
6. P.O. OR SPEC NO. See Below	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV 3044 & 3043	9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER NPS Industries, Portland	
11. INSPECTION CRITERIA () DWG () SPEC (x) OTHER		IR NO. 1.00-3843, NO.	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 Orders 7220-F-29779 Rev. 1, 7220-F-29777 & 7220-F-29760 require that materials be shipped with Certificates of Compliance. Contrary to the above, a truckload of material arrived (bearing material from the P.O.'s listed above) without any documentation. The materials supplier ID numbers & corresponding P.O. numbers are as follows:				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 L. H. Lawrence dated 9/15/78				18. VALIDATED BY J. B. B. dated 9-15-78	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE					
QC ENGINEER				DATE	
AUTHORIZED INSPECTOR				DATE	

Block 16 Continued

P.O. #	Item #	Block #	WTS ID #	Description
7220-P-29777 Q	5	1	WT 117	1/2 x 8 x 10 Tube Steel
	9	2	WT 118	5/8 x 10 x 40 Tube Steel
7220-P-29779 Q	9	1	NA 240	3/4 x 4 x 6 Angle Iron
7220-P-29780 Q	14	1	W 360	W 8 x 10 Beam
	32	3	WT 135	1/2 x 4 x 6 Tube Steel
	34	3	WT 136	3/16 x 3 x 4 Tube Steel
	36	3	WT 137	1/2 x 5 x 5 Tube Steel
	37	3	WT 115	1/2 x 7 x 7 Tube Steel
	38	5	WT 116	1/2 x 6 x 10 Tube Steel
	40	2	WT 138	1/2 x 8 x 8 Tube Steel
	23	4	NA 239	3/8 x 2 1/2 x 2 1/2 Angle

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



NONCONFORMANCE REPORT

[illegible]

Block 16 Continued

The packing slip is incorrect thus invalidating the Certificate of Compliance. Thus, Contrary to the above, the supplier has not submitted the proper Quality Verification Documentation.

"Q" number is indeterminate. Hold pending final disposition. 4 hold tag(s) applied.



NONCONFORMANCE REPORT

1. PROJECT NAME Miller?		JOB NO. 7226		19. NO. 1516	20. PAGE 1 OF 1
2. UNIT(S) Inches	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION Various Sizes of 82-100 Gr. B Pipe	5. ITEM LOCATION Stanish	
6. P.O. Q. SPEC. NO. 7226-P-20074 Rev. 0	7. SERIAL NO. E/A	8. REPLACEMENT PART P/N N/A REV _____ SER NO. _____		9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Chicago Tube & Iron
11. INSPECTION CRITERIA () DWG (X) SPEC (X) OTHER		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 7226-P-20074 Rev. 0 states that all pipe supplied under that P.O. be furnished with documentation as required per Specification 7226-M-215 Rev. 1 and M-305 Rev. 3. Contrary to the above, all pipe received on this Purchase Order has been supplied without the G-321-D Form required by the specifications. "Q" number is indeterminate. Hold pending final disposition. 5 hold tag(s) applied to the nonconforming item(s).				24. DISPOSITION CONCURRENCE rework reject repair use as is	
17. REPORTED BY K. Henschel				18. VALIDATED BY W. Barelay	
DATE 9-15-78				DATE 9-15-78	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE QC ENGINEER DATE AUTHORIZED INSPECTOR DATE					

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1547	20. PAGE 1 OF 2
2. UNIT(S) COMMON	3. DRAWING/PART-NO. C-272	REV. 4	4. ITEM DESCRIPTION Aux. Bldg. Removable Plugs		
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART PIN N/A REV N/A SER NO. N/A	9. SOURCE Construction	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA W DWG () SPEC () OTHER		12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO	13. SKETCH ATTACHED () YES () NO	14. Discovered During () Rec'g () Const () Test	15. Equip Furnished By () Client () Eng () FLD
16. NONCONFORMING CONDITION: Several nonconforming items were noted for the Aux. Bldg. removable plugs as called out on Aug. C-272 Rev. 4. Item 41: During lifting and turning for painting, two lifting rings on a Type II #5 plug broke. The anchor bolt for one of these rings was bent approx. 3/4" in 3". The concrete on the bottom of this plug was spalled for an area of approx. 5" diameter and a maximum of 1/2" deep.					
17. REPORTED BY Robert M. Gentry		18. VALIDATED BY Robert M. Gentry		25. DISPOSITION RESULTS	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE					
QC ENGINEER				DATE	
AUTHORIZED INSPECTOR				DATE	

Item #1 (cont) The outside metal flange of two other plays were damaged when the play fell.

Item #2: Two 1" diameter lifting and lowering, several plays were noted to have dirt that was damaged with spalling. Other plays had dirt and dirt in the metal flange from too close against each other. (Note: the following notes for the 1" diameter swivel lifting plays were not back welded or all plays as shown in the section view on page C-277.)

Item #3: One 1-inch diameter anchor bolt for a lifting ring was broken, and later repaired per 7220f 28-24-660(c) Rev. 1. However, the grinding required at the anchor bolt and concrete was not addressed by quality control.

Item #4: Weld fins and protrusions on the play frames were not ground smooth prior to painting.

Hold for Engr. Disposition. Q' List No. 1202 One held by app'd.

NONCONFORMANCE REPORT

1. PROJECT NAME		JOB NO.		19. NO. 1548		20. PAGE 1 OF 1	
2. UNIT(S)		3. DRAWING/PART NO.		4. ITEM DESCRIPTION		5. ITEM LOCATION	
6. P.O. OR SPEC NO.		7. SERIAL NO.		8. REPLACEMENT PART		9. SOURCE	
11. INSPECTION CRITERIA		12. ASME AUTHORIZED INSPECTION REQ'D		13. SKETCH ATTACHED		14. Discovered During	
16. NONCONFORMING CONDITION:		17. REPORTED BY		18. VALIDATED BY		24. DISPOSITION CONCURRENCE	
21. ROUTING:		22. () Field Engineering Disposition		23. PROJECT ENGINEERING DISPOSITION		25. DISPOSITION RESULTS	
26. QC ACCEPTANCE		QC ENGINEER		AUTHORIZED INSPECTOR		DATE	

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1549		20. PAGE 1 OF 1					
2. UNIT(S) 1 & 2		3. DRAWING/PART NO. N/A		REV 7220		4. ITEM DESCRIPTION Recessed Pins		5. ITEM LOCATION Warehouse # 2			
6. P.O. OR SPEC NO. 7220-P-3167 Rev. 14		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N N/A REV. 13		9. SOURCE Supplier		10. CONTRACTOR/SUPPLIER NPS Industries, Inc.			
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. R-1.00-3813 NO. C-233 Rev. 13		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: Specification 7220-C-233A Rev. 13 requires Quality Verification Documentation according to Form G-321-D. POCI-R-1.00 Rev. 7 requires Documentation required by Form G-321-D to be available, legible and traceable. Contrary to the above, the certification of heat treatment for recessed pins MK 8.3P2 is illegible. "Q" number is indeterminate. Hold pending final disposition. <u>4</u> hold tag(s) applied to the nonconforming item(s).						24. DISPOSITION CONCURRENCE rework reject repair use as is DOC PROJECT FIELD ENGINEER DATE 9-20-78 PROJECT ENGINEER DATE PROJ CONSTR QC ENGINEER DATE 9-22-78 AUTHORIZED INSPECTOR DATE					
17. REPORTED BY Charles Guvin		DATE 9-15-78		18. VALIDATED BY J. H. Berry		DATE 9-18-78		25. DISPOSITION RESULTS			
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)											
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering Material Procurement Supervisor to obtain documentation requirements. J. H. Berry 9-19-78 J. H. Berry 9-19-78											
23. PROJECT ENGINEERING DISPOSITION											
26. QC ACCEPTANCE QC ENGINEER DATE AUTHORIZED INSPECTOR DATE											



NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOR NO. 7220		19. NO. 1551	20. PAGE 1 OF 3
2. UNIT(S) Indeter- minate	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION SA-194 10,000 Pcs. of 1/2"	5. ITEM LOCATION Q.C. Hold, Whse. #1	
6. P.O. OR SPEC NO. 7220-F-29210 Rev. 0	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 (x) OTHER		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. P.O. 7220-F-29210 Rev. 0 states in part "Item number 1 to be 10,000 1/2" heavy hex nuts SA-307 or SA-194 grade 2H." Contrary to the above, the above material is listed on the Certified Material Test Report as being 1/3 - 13 nuts (See Attachment "A"). 2. Specification SA-194 '77 Edition, Summer '77 Addenda Table 1 under "Chemical Requirements" states for grade 2H nuts "phosphorus 0.040% maximum" and "Sulfur Cont. on Page 2					24. DISPOSITION CONCURRENCE rework reject repair use as is DCC PROJECT FIELD ENGINEER DATE 7-27-78 PROJECT ENGINEER DATE PROJ CONSTR QC ENGINEER DATE 10-3-78 AUTHORIZED INSPECTOR DATE
17. REPORTED BY James L. Hay 9-18-78		18. VALIDATED BY W. Barclay 9-18-78		25. DISPOSITION RESULTS	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering Procurement Supervisor to obtain correct documentation. Supplier has verified That Sulfur and Phosphorus contents shown on matl. test report is a typo. error. L Ward 9/28/78					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE QC ENGINEER DATE AUTHORIZED INSPECTOR DATE					

Block 16 Continued

0.050% maximum."

Contrary to the above, the Certified Material Test Report for the above listed material, shows under chemical analysis that the phosphorus level is 2.1% and that the sulfur level is 1.5%. (See Attachment "A")

3. Specification SA-194 '77 Edition, Summer '77 Addenda Table 2 and 3 list values for "Hardness Requirements" and "Proof Load Test" values for grade 2H nuts. The Certified Material Test Report received lists the range of values and not the actual values. Also, the hardness range values given on the Certified Material Test Report are Brinnell Hardness values listed as Rockwell C values. (See Attachment "A")

"Q" number is indeterminate. Hold pending final disposition. ³ / hold tag(s) applied.



CERTIFICATE OF ANALYSIS AND TESTS

ATTACHMENT "A"

PAGE 3 OF 3

DATE August 30, 1978

NCR 1551

CUST. ORDER NO.

7220-F-29210Q

OUR ORDER NO.

F.O. # 1750

To: Bechtel Power Corp.
P.O. Box 2167
3500 E. Miller Road
Midland, Michigan 48640
Attn: Jack Jones

DESCRIPTION OF MATERIAL AND SPECIFICATIONS

1. SA194 Gr. 2H Heavy Hex Nuts Sub-Section
NF Article 2000-Section III

Item # 1: 1/3-13 Trace Code PR

2.

3.

4.

CHEMICAL ANALYSIS

Manufacturer	Heat Number	Carbon	Mang.	Phos.	Sulphur	Silicon	Nickel	Chromium	Moly.
1. Shigeyama 1/2	A70706	.46	.76	<u>2.1</u>	<u>1.5</u>	.21	1	2	1
2.									
3.									
4.									

MECHANICAL PROPERTIES

Yield Lbs./Sq. In.	Tensile Strength Lbs./Sq. In.	Elongation % in	Reduction of Area %	Hardness	Bend Test	Tempering Temp.
1.						
2. Proof Load	per table 3 at	<u>24,830</u> lbs.		<u>RC 248/352</u>		850 Deg. F
3.						
4.						

SPECIAL TESTS

1. We hereby certify that the material supplied fully conforms to the
2. specifications as outlined in your order and drawings indicated. This
3. material was 100% visual examined and found to be satisfactory.
- 4.

We hereby certify that the foregoing data is a true copy of the data furnished us by the producing mill or testing laboratory.

R. E. C. CORPORATION

Mina Carraturó
Mina Carraturó

R. E. C. CORPORATION

47 CEDAR ST., NEW ROCHELLE, N.Y.

NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 07220		19. NO. 1552	20. PAGE 1 of 1
2. UNIT(S) 2	3. DRAWING/PART NO. E-660(Q)	REV 3	4. ITEM DESCRIPTION Weld Neck Flanges	5. ITEM LOCATION Cont. See blk. #16	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE Constr.	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. E-6.6-2a NCE-20-102 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			15. Equip. Furnished By () Client (X) Eng () FLD		
16. NONCONFORMING CONDITION: Specification 7220/E-20-102 Rev. 8 para. 3.6.1.2 states weld neck flange top two bolt holes shall be 15° east and west of top dead center. Contrary to the above, three weld neck flanges have a bolt hole at top dead center. 2Z-101 (el. 653', 203.5° radial) 2Z-102 (el. 653', 200° radial) and 2Z-103 (el. 649', 203.5° radial). Q-list #3.002. Hold for engineering disposition. 3 Hold tags applied to flanges.			24. DISPOSITION CONCURRENCE rework reject repair use as is W. J. Allen (Absced) 9-21-78 PROJECT FIELD ENGINEER DATE S. J. Barclay 9-21-78 PROJECT ENGINEER DATE PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE		
17. REPORTED BY [Signature] 9-19-78		18. VALIDATED BY W. J. Barclay 9-19-78		25. DISPOSITION RESULTS	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering Rework weld neck flanges to proper orientation, by removing flange, refacing and rework per P1-AT-1h, P1-T-1-0-1 Rev 1, P1-A-c-1h Rev. 3 (Leak Check) B. J. H. 9-21-78					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE QC ENGINEER DATE AUTHORIZED INSPECTOR DATE					

NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1553		20. PAGE 1 OF 3	
2. UNIT(S) Common		3. DRAWING/PART NO. (See Page 2) F-7220-C-233A-F-28362-30-4		REV N/A		4. ITEM DESCRIPTION Mainsteam Anchors & Restraints	
5. ITEM LOCATION Poseyville, Grid IIN-2		6. P.O. OR SPEC. NO. 7220-F-28362 Rev. 5		7. SERIAL NO. See Blk. 16		8. REPLACEMENT PART P/N N/A REV _____ SER NO. _____	
9. SOURCE Supplier		10. CONTRACTOR/SUPPLIER Schreiber Manufacturing Co., Inc.		11. INSPECTION CRITERIA () DWG (x) SPEC () OTHER		12. ASME AUTHORIZED INSPECTION REQ'D () YES (x) NO	
13. SKETCH ATTACHED () YES (x) NO		14. Discovered During (x) Rec'g () Const () Test		15. Equip Furnished By () Client () Eng (x) FL		16. NONCONFORMING CONDITION: Specification 7220-C-233 Rev. 13 Appendix A Para. 3.0 states	
17. REPORTED BY John R. Shipe		DATE 9-20-78		18. VALIDATED BY J. B. Barelay		DATE 9-20-78	
21. ROUTING: () 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	
Procurement supervisor to obtain correct documentation.		S. Hawey 9-20-78		J. B. Barelay 9-20-78		rework reject repair use as is	
						25. DISPOSITION RESULTS	
						26. QC ACCEPTANCE	
						QC ENGINEER DATE	
						AUTHORIZED INSPECTOR DATE	

Block 16 Continued

- 1.) The quantities of documentation in the Data Package for Document Categories 17.4 (Certificate of Compliance) 21.0V (Magnetic Particle Examination Verification Reports), and 19.0V (Ultrasonic Examination Verification Reports) does not agree with summaries supplied on the G-321-D Form.
- 2.) Document Category 21.0 (Magnetic Particle Examination Verification Reports) referencing Specification paragraphs 8.4 & 5.11 was left blank on Form G-321-D in columns 8 & 9.
- 3.) The mark number stamped into the bearing plates and shown on drawing F7220-C233A-F28362-25-4 as BP1-1, BP1-2, BP1-3, and BP1-4 does not agree with the documentation which has them listed throughout the Documentation Package as BP-1, BP-2, BP-3, BP-4 respectively.

"Q" numbers are 4.311 and 4.321. Hold pending final disposition. 78 hold tag(s) applied to the nonconforming item(s).

Block 3 Continued

F-7220-C233A-F28362-31-4, 25-4, 24-5, 34-2, 36-4, and 35-2

Block 16 (Cont)

A conditional release is granted to allow installation of said material on this NCR. Corrections or removal can be accomplished without causing damage or contamination to associated plant equipment or structure.

PFE

Date

9-20-78

PFQCE

Date

9-20-78

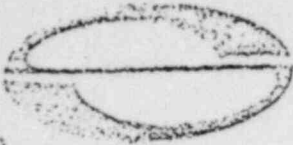
LOAE

NAA

LA Dreibach

Date

9-20-78



SCHREIBER MANUFACTURING CO., INC.

1400 West Fourteen Mile Road - Clawson, Michigan 48017 - (313) 435-7100

DOCUMENTATION PACKAGE

FOR

BECHTEL POWER CORPORATION

Purchase Order # 7220-F-28362-Q Rev. 5

DRAWINGS NUMBERED:

7220-F-28362-Q-1 Rev. 2
7220-F-28362-Q-2 Rev. 2
7220-F-28362-Q-3 Rev. 2
7220-F-28362-Q-4 Rev. 2
7220-F-28362-Q-5 Rev. 1
7220-F-28362-Q-6 Rev. 1
7220-F-28362-Q-7 Rev. 1

SERIAL NUMBERS:

B8-1	WA1-1	B14-1	B1-1 - Spacer Plate
B8-2	WA1-2	B14-2	B1-2 - Spacer Plate
B8-3	WA1-3	B18-1	B1-3 - Spacer Plate
B8-4	WA1-4	B18-2	2B1-1 - Spacer Plate
B8-5	WA1-5	B19-1	2B1-2 - Spacer Plate
B8-6	WA1-6	B19-2	2B1-3 - Spacer Plate
B8-7	WA1-7	B19-3	B15-1 - Support Plate
B8-8	WA1-8	B19-4	B15-2 - Support Plate
B20-1	WA2-1	B9	B15-3 - Support Plate
B20-2	WA2-2	B11	B15-4 - Support Plate
B20-3	WA2-3	B12	SB1-1 - Support Plate
B20-4	WA2-4	B13-1	SB1-2 - Support Plate
B20-5	WA2-5	BP-1	SB2-1 - Support Plate
B20-6	WA2-6	BP-2	SB2-2 - Support Plate
B20-7	WA2-7	BP-3	SB3-1 - Support Plate
B20-8	WA2-8	BP-4	SB3-2 - Support Plate
B7-3	B-10	B16-1	B5
2B1-3	B13-2	B16-2	B6
B17-1	B16-AA (8) pcs	B7-2	
B17-2	B7-1	B7-4	

BECHTEL
SSS

NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1554	20. PAGE 1 OF 3																
2. UNIT(S) Unit 1	3. DRAWING/PART NO. 722-J-207-20 (1 thru 6)	REV 3	4. ITEM DESCRIPTION Engineered Safety Features Actuation System	5. ITEM LOCATION Whse. # 1 Class "A"																	
6. P.O. OR SPEC NO. 7220-J-207 AC Rev. 3	7. SERIAL NO. 1C35, 1C43, 1C44	8. REPLACEMENT PART P/N N/A REV _____ SER NO. _____		9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Automation Industries, Inc.																
11. INSPECTION CRITERIA () DWG (x) SPEC () OTHER		IR NO. R-1.00-3853 NO. J-207 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: 1. Specification J-207 Rev. 2 Para. 9.A.1 states "Prior to shipment, the completely assembled and wired equipment shall be inspected for conformance to outline and assembly drawings and wiring diagrams, and performance tested at the factory for compliance with the requirements of this specification." Para. 9.A.2 states "Buyers waiving of inspection and tests shall no way relieve Seller from providing equipment in accordance with this specification."				24. DISPOSITION CONCURRENCE																	
				<table border="1"> <tr> <td>rework</td> <td>reject</td> <td>repair</td> <td>use as is</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>		rework	reject	repair	use as is												
rework	reject	repair	use as is																		
Cont. on Page 2				<table border="1"> <tr> <td>PROJECT ENGINEER</td> <td>DATE</td> </tr> <tr> <td><i>A. Brown</i></td> <td>9-20-78</td> </tr> <tr> <td>PROJECT FIELD ENGINEER</td> <td>DATE</td> </tr> <tr> <td><i>A. Barclay</i></td> <td>9-20-78</td> </tr> <tr> <td>PROJ CONSTR QC ENGINEER</td> <td>DATE</td> </tr> <tr> <td><i>A. Barclay</i></td> <td>9-20-78</td> </tr> <tr> <td>AUTHORIZED INSPECTOR</td> <td>DATE</td> </tr> <tr> <td></td> <td></td> </tr> </table>		PROJECT ENGINEER	DATE	<i>A. Brown</i>	9-20-78	PROJECT FIELD ENGINEER	DATE	<i>A. Barclay</i>	9-20-78	PROJ CONSTR QC ENGINEER	DATE	<i>A. Barclay</i>	9-20-78	AUTHORIZED INSPECTOR	DATE		
PROJECT ENGINEER	DATE																				
<i>A. Brown</i>	9-20-78																				
PROJECT FIELD ENGINEER	DATE																				
<i>A. Barclay</i>	9-20-78																				
PROJ CONSTR QC ENGINEER	DATE																				
<i>A. Barclay</i>	9-20-78																				
AUTHORIZED INSPECTOR	DATE																				
17. REPORTED BY <i>John R. Slifer Jr</i>		DATE 9-19-78		25. DISPOSITION RESULTS Item #1 - Electrical Test Reps received however lack traceability to the material.																	
18. VALIDATED BY <i>A. Barclay</i>		DATE 9-20-78		<i>John R. Slifer Jr</i> 9-10-78 9-20-78																	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)																					
22. (x) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering																					
(1) Procurement Supervisor to obtain correct Documentation.																					
(2) Procurement Supervisor to contact Vendor for replacement glass for panel 1C35 Subsection CCB. <i>R. L. Lutz</i> 9-20-78																					
23. PROJECT ENGINEERING DISPOSITION																					
26. QC ACCEPTANCE																					
QC ENGINEER				DATE																	
AUTHORIZED INSPECTOR				DATE																	

Continue Block 16

Contrary to the above, no Electrical Test Reports have yet been supplied for Panels 1C43 and 1C44. See Attachment "A" for TWX 3488 from R.L. Castleberry authorizing shipment of the above panels.

2. Specification J-207 Rev. 2 Para. 7.B.6 states "Seller shall be responsible for, and shall repair or replace at his own expense, any and all damage equipment where damage was due to improper preparation for shipment."

Contrary to the above, the glass in panel door for Panel 1C35, Subsection CCB is cracked.

"Q" number is 5.202. Hold pending final disposition. 7 hold tag(s) applied to the panels.

Block 16 (Cont)

A conditional release is granted to allow installation of panels 1C35, 1C43, 1C44. Corrections or removal can be accomplished without causing damage or contamination to associated plant equipment or structure.

PFE

Date

9-20-78

PFQCE

Date

9-20-78

LQAE

RCH

L.A. Dreisbach

Date

9-20-78

LV IV
JL JK
WC _____

AUG 15 1978

(Handwritten signature)

VITROLABS SS

BECHTEL ARR
310-223-6032 CLG 710-825-9642
TWX 3483 8/16/78 9:44
ATTN: C, E, SUEP/ J.C. SCHUESSLER

02717

SUBJECT: CPCO/MIDLAND PLANT -JOB 7220
P.O. 7220-J-207-AC, ENGINEERED SAFETY FEATURES
ACTUATION SYSTEM
FILE: J-207-PR

IN RESPONSE TO VITRO TWX TO BECHTEL DATED 8/10/78, BE ADVISED
THAT BECHTEL ENGINEERING APPROVES THE SHIPMENT OF UNIT 1 SENSOR
CABINET A (SCA) SHORT ONE (1) SOLATION AMPLIFIER ASSUMING
ALL OTHER EQUIPMENT AND DOCUMENTATION IS FOUND TO BE IN ORDER.

SO BE ADVISED THAT BECHTEL WAIVES THE REQUIREMENT FOR THE
ELECTRICAL PERFORMANCE TEST RESULTS (CATEGORY 26.2, VERIFICATION
REPORT) TO BE SUBMITTED WITH THE UNIT 1 ESFAS CABINETS WHEN
SHIPPED. THE ELECTRICAL PERFORMANCE TEST VERIFICATION REPORT
IS TO BE SUBMITTED WITHIN 3 WEEKS OF EQUIPMENT DELIVERY.

IN ADDITION TO THE UNIT 1 ESFAS CABINETS, THE UNIT 2 MODULES
RETAINED AS TEST SPARES FOR UNIT 1 TESTING (SEE TWX FROM BECHTEL
TO VITRO DATED 6/22/78) SHOULD BE SHIPPED WITH THE UNIT 1
EQUIPMENT.

R.L. CASTLEBERRY
ANN ARBOR/7PE2118/97220-001/ER

VITROLABS SS

*Contracts/R. D. Brown
W. J. Fricke
M. J. Chaves
C. E. Suer
W. C. Chandler
J. C. Schuessler*



NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1555	20. PAGE 1 OF 2
2. UNIT(S) Unit II	3. DRAWING/PART NO. B & W ORM 206570 E	REV 2	4. ITEM DESCRIPTION Steam Generator Feedwater Header Assemblies	5. ITEM LOCATION Poseyville, Grid P 31	
6. P.O. OR SPEC NO. M 1.6	7. SERIAL NO. See Blk. 16	8. REPLACEMENT PART P/N N/A REV. 1	9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Babcock & Wilcox	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. R-2.20-MRI-83 NO PQCI-R-2.20 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 (X) Client () Eng () FLD					
16. NONCONFORMING CONDITION: PQCI R-2.20 Rev. 4, Act 2.0 states "Review the contents of the B & W Data Package for availability, legibility and traceability in accordance with the requirements of the B & W Quality Requirements Matrix (QRM)." Contrary to the above, the QA Data Package supplied for Main Feedwater Header Assemblies Mark Nos. A 122-212-55-1 & 2 and A 123-212-55-1 & 2 showed no indications of a Hydro Test being performed or Impact Test data being supplied per the requirements of the QRM.				24. DISPOSITION CONCURRENCE	
				rework reject repair use as is	
				D.C.	
				PROJECT FIELD ENGINEER DATE 9-24-78	
				PROJECT ENGINEER DATE	
				PROJ CONSTR QC ENGINEER DATE 10-2-78	
				AUTHORIZED INSPECTOR DATE	
17. REPORTED BY John R. Lile, Jr. DATE 9-18-78				18. VALIDATED BY D. Barclay DATE 9-20-78	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)				25. DISPOSITION RESULTS	
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
Mr. Walter Lee, B&W Technical site representative, will insure that required documentation is obtained.					
23. PROJECT ENGINEERING DISPOSITION					
				26. QC ACCEPTANCE	
				QC ENGINEER DATE	
				AUTHORIZED INSPECTOR DATE	

NONCONFORM/

REPORT (CONT'D)

20 PAGE 2 OF 2 19

555

Block 16 Continued

"Q" number is 4.021. Hold pending final disposition. 4 hold tag(s) applied to the header assemblies.



NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1556	20. PAGE 1 OF 1
2. UNIT(S) 1 & 2	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION Replacement Cable, Thermofit & Gaskets	5. ITEM LOCATION Q.C. Hold, Whse. #1	
6. P.O. OR SPEC. NO. 7220-E-20-AC Rev. 8	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV _____ SER NO. _____		9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Amphenol Sams/Bunker Ramo
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. R-1.00-3801 NO. E-20 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-20 Rev. 5, Para. 12.1 states: "Written certification and/or certified test reports shall be submitted as required by Form G-321-D."	
Contrary to the above, no Form G-321-D or Quality Verification Documentation has been received for the replacement material listed in Block # 4. "Q" number is 3.002. Hold pending final disposition. / hold tag(s) applied to the nonconforming item(s).				24. DISPOSITION CONCURRENCE rework reject repair use as is DOC 9-27-78 PROJECT FIELD ENGINEER DATE 9-28-78 PROJECT ENGINEER DATE 9-28-78 PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE	
17. REPORTED BY Dean A. Delaney 9/19/78		18. VALIDATED BY B. Matthews 9-21-78		25. DISPOSITION RESULTS	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering Procurement Supervisor to obtain proper documentation. B. Matthews 9-27-78					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE QC ENGINEER DATE AUTHORIZED INSPECTOR DATE					

NONCONFORMANCE REPORT

[illegible]



Corrected Copy

NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1558	20. PAGE 1 OF 2
2. UNIT(S) Indeter- minate	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION ASTM A-307 Hex Head Bolts	5. ITEM LOCATION Q.C. Hold, Whse. # 1	
6. P.O. ORDER NO. 7220-F-30185 Rev. 0	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV _____ SER NO. _____		9. SOURCE Supplier	10. CONTAINER/SUPPLIER Talley Fasteners Inc.
11. INSPECTION CRITERIA () DWG () SPEC (x) OTHER		IR NO. R-1.00-3856 NO. ASTM A-307-74	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 Specification A 307-74 Para. 8.0 states: "Bolt heads shall be marked (by raised or depressed mark at the option of the manufacturer) to identify the manufacturer." Contrary to the above, the following were not marked with the manufacturer identification mark.				24. DISPOSITION CONCURRENCE	
				rework reject repair use as is	
				PROJECT FIELD ENGINEER DATE 9-26-78	
				PROJECT ENGINEER DATE 9-28-78	
				PROJ CONSTR QC ENGINEER DATE	
				AUTHORIZED INSPECTOR DATE	
17. REPORTED BY Tim Christoffersen 9-21-78				18. VALIDATED BY K. Barclay 9-22-78	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. (x) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
Reject: Field Procurement Supervisor is to return the nonconforming items to the Vendor. 9-25-78 By Jeff 10-10-78					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE					
QC ENGINEER DATE					
AUTHORIZED INSPECTOR DATE					

NONCONFORMA REPORT (CONT'D)

20 PAGE 2

OF

2

19A

1558

Continue Block 16

800 EACH $\frac{1}{2}$ " - 13 X 2" A-307 BOLTS ¹⁰⁻⁹⁻⁷⁸
1,200 each $\frac{1}{4}$ " - 20 x $\frac{3}{4}$ " A-307 Bolts
792 each $\frac{1}{4}$ " - 20 x 1" A-307 Bolts
5,000 each $\frac{1}{4}$ " - 20 x 2" A-307 Bolts
288 each $\frac{3}{8}$ " - 16 x 1" A-307 Bolts
290 each $\frac{3}{8}$ " - 16 x 2" A-307 Hex Bolts
315 each $\frac{7}{16}$ " - 20 x 1" A-307 Hex Bolts
204 each $\frac{7}{16}$ " - 14 x $1\frac{1}{2}$ " A-307 Hex Bolts

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

Corrected Copy



NONCONFORMANC. PORT (CONT'D)

1. PAGE 3 OF 3

14. NCR NO.

1

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

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

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

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

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

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

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

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

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

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

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

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



NONCONFORMANCE REPORT

1. PROJECT NAME L'Idland		JOB NO. 7220		19. NO. 1559	20. PAGE 1 of 1
2. UNIT(S) I & II	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION Misc. Equipment for Motor Control Centers	5. ITEM LOCATION Q.C. Hold, Whse. # 1	
6. P.O. OR SPEC NO. 7220-E-7 AC Rev. 4	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV _____ SER NO. _____		9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER ITE Gould
11. INSPECTION CRITERIA () DWS (X) SPEC () OTHER		IR NO. R-1.00-3904 NO. E-7 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 E-7 Rev. 4 Para. 3.2 states: "Written documentation and/or certified test reports showing that the control centers and individual components designated Class IE meet the requirements of the tests outlined in Section 8 of the specification and documentation tabulated on Form G-321-D. Contrary to the above, no documentation or Form G-321-D was received for the material listed on Attachment "A" page 1,2,3. "Q" number is 3.1C+. Hold pending final disposition. 1 hold tag(s) applied to the nonconforming item(s).				24. DISPOSITION CONCURRENCE rework reject repair use as is LTC C. J. Soren 9-26-78 PROJECT FIELD ENGINEER DATE PROJECT ENGINEER DATE A. J. Storey 9-28-78 PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE	
17. REPORTED BY John R. Lifer 9-22-78		18. VALIDATED BY * J. Barclay 9/22/78		25. DISPOSITION RESULTS	
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. Bruce Matthews 9-26-78					
23. PROJECT ENGINEERING DISPOSITION					
28. QC ACCEPTANCE QC ENGINEER DATE AUTHORIZED INSPECTOR DATE					

Manufacturer of I-T-E and Rowan Products

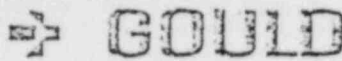
NCR # 1559 Page 2 of 4

84 -56122-X

PARTIAL	COMPLETE	FINAL

~~STORAGE~~

PACKING LIST



Gould Inc., Control and Systems Division
P.O. Box 306, Westminster, Md. 21157

Manufacturer of I.T.E and Rowan Products

Attachment "A" Page 2 of 3
NCR # 4559 Page 3 of 4

PURCHASE ORDER NUMBER		DATE ENTERED		TERMS:		SALES ORDER NUMBER		Cr. NO.	
				2 1/2 10th Prox Net 30th Prox.		84			
C/O CONSUMERS POWER CO. INTERSTATE HWY. I-75 HWY. 10 MIDLAND TOWNSHIP, MICH.				F.O.B. WEST, MD. CARS POINT OF SHIPMENT:		INVOICE NO.			
				PPD Allow. PPD Chg. Collect		INVOICE DATE 9/8/78			
BECHTEL CORP. AGENTS FOR CONSUMERS POWER CORP. P.O. BOX 2167 MIDLAND, MICH. 48640				REC'D SHIPPING DATE:		VIA:			
				SHIPPING SCHEDULE: 7/14/78		B/L No.			
Engr. Off.		Dest. Off.		C.M.		Tax Code		Cl. of Cust.	
0520600								C. V.	
TOTAL PIECES		TOTAL WEIGHT		B/L No.		TOTAL PIECES		TOTAL WEIGHT	
1578						PARTIAL COMPLETE FINAL			

Quantity Ordered	Catalog Number	DESCRIPTION (Page of)	Product Code	Back Ordered	Quantity Shipped
100	5500-WATTSON SPACE HEATER 120V		84-79	60	46
	150W-120V				
	036576800 N/2 D				
350	5500-810 FLATWASHERS		24-79	0	350
	700250550 N/2 D				
125	5500-810 LOCKWASHERS		84-79	0	125
	700250950 N/2 D				
NOTE: ABOVE MATERIAL TO BE INSTALLED IN MCC'S THAT ARE ACCESSABLE FROM THE REAR.					

VENDOR I.T.E. IMPERIAL CORP
P.O. NO. E-7-AC MRI NO. _____
MRR NO. 7235 DATE REC'D. 9-14-78
VIA CF - FGT. NO. 905-75682-1
CHECKED BY F. CHRISTIAN
FIELD INSPECTION BY D. DUCKERING
PARTIAL ☐ COMPLETE ☒
STORAGE 10/1/78

1. DRAWINGS FOR APPROVAL WILL BE FORWARDED BY _____
2. DRAWINGS FOR APPROVAL AND SHIPPING RELEASE MUST BE RECEIVED BY _____
OR IT WILL BE NECESSARY TO RESCHEDULE THE ABOVE SHIPPING DATES IN ACCORDANCE WITH
PRODUCTION SCHEDULES IN EXISTENCE AT THE TIME OF RECEIPT.

ATTN: MR. D. DUCKERING

VIA:
KINGS:

PACKING LIST



Gould Inc., Control and Systems Division
P.O. Box 306, Westminster, Md. 21157
Manufacturer of I-T-E and Rowan Products

Attachment "A" Page 3 of 3
HCR #1559 Page 4 of 4

PURCHASE ORDER NUMBER 100-100-100	DATE ENTERED 10/1/78
--------------------------------------	-------------------------

TERMS:

2% 10th Prox. Net 30th Prox.	Net 30 Days to 30th Prox.	2% 15th Prox. Net 25th Prox.
---------------------------------	------------------------------	---------------------------------

SALES ORDER NUMBER 84-50124-1	COO# NO.
----------------------------------	----------

TO: CONSUMERS POWER CO.
INDUSTRIAL HWY. 1-75 HWY. 10
HIGHLAND TOWNSHIP, MICH.

F.O.B.
CARS POINT
OF SHIPMENT:

PPD Allow.	PPD Chg.	Collect
------------	----------	---------

INVOICE NO.

INVOICE DATE
9/12/78

DATE SHIPPED

VIA:

B/L No.

TOTAL PIECES
100

TOTAL WEIGHT

PARTIAL COMPLETE FINAL

FROM: TTE IMPERIAL CORP.
AGENT FOR CONSUMERS POWER CO.
P.O. BOX 2167
HIGHLAND, MICH. 48640

REQ'D SHIPPING DATE:

RUSH

SHIPPING SCHEDULE:

7/15/78

Customer Account 2285-01	Order Off. 510500	Engr. Off.	Dest. Off.	C.M.	Tax Code 262-100	Cl. of Cust.	C. V.
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Quantity Ordered	Catalog Number	DESCRIPTION (Page of)	Product Code	Back Ordered	Quantity Shipped
48	5500-WATTLOW SPACE HEATER	532 23A			48
	150W-120V				
	226576800	N/2 D	80-79		
	5500-810				
	200250750	N/2 D			
	5500-810				
	200250750	N/2 D			
NOTE: ABOVE MATERIAL TO BE IN STOCK IN MCC'S THAT ARE NECESSARY IN THE REAR.					
VENDOR <u>TTE IMPERIAL</u>					
P.O. NO. <u>E7-AC</u> MRR NO. <u>7256</u> DATE REC'D. <u>9-19-78</u>					
MRR NO. <u>7256</u> DATE REC'D. <u>9-19-78</u>					
VIA <u>CF</u> FRGT. NO. <u>905-76081-1</u>					
CHECKED BY <u>C. Va. Norman</u>					
FIELD INS. DESIGN BY <u>D. Deschamps</u>					
PARTIAL ☐ COMPLETE ☐					
STORAGE <u>WHSE. #1</u>					

1. DRAWINGS FOR APPROVAL WILL BE FORWARDED
2. DRAWINGS FOR APPROVAL AND SHIPPING RELEASE MUST BE RECEIVED BY
OR IT WILL BE NECESSARY TO RESCHEDULE THE ABOVE SHIPPING DATES IN ACCORDANCE WITH
PRODUCTION SCHEDULES IN EXISTENCE AT THE TIME OF RECEIPT.

VIA:
KINGS:

PACKING LIST



NONCONFORMANCE REPORT

10-10
3122

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 1560	20. PAGE 1 OF 2	
2. UNIT(S) 1 & 2	3. DRAWING/PART NO. 1P-05B & 2P-05B	REV N/A	4. ITEM DESCRIPTION STEAM DRIVEN AUX. FEEDWATER PUMPS	5. ITEM LOCATION AUX. BLD INSTALLED EL. 58		
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV --- SER NO. ---	9. SOURCE CONSTRUCTION	10. CONTRACTOR/SUPPLIER N/A		
11. INSPECTION CRITERIA ☒ DWG ☐ SPEC ☐ OTHER		IR NO. M1.00-1/2P-05 NO. 7220-M14-16-7	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 VENDOR'S DWG. NO. 7220-M14-16-7 SPECIFIES PIEDestal HOLE DOWN BOLT HOLES TO BE 3/4" DIAMETER. CONTRARY TO THIS HOLES HAVE BEEN DRILLED TO 7/8" DIAMETER.				24. DISPOSITION CONCURRENCE rework ☐ reject ☐ repair ☒ use as is ☐ W.B. Barclay 9-29-78 PROJECT FIELD ENGINEER DATE W.B. Barclay 9-29-78 PROJECT ENGINEER DATE W.B. Barclay 10-2-78 PROJECT CONSTRUCTION ENGINEER DATE W.B. Barclay 10-2-78 AUTHORIZED INSPECTOR DATE		
17. REPORTED BY Frank Malala		DATE 9-25-78		18. VALIDATED BY KAN 9/25/78 W.B. Barclay 9-25-78 BS7 Check for W.B. Barclay		
21. ROUTING: ☒ TO FIELD ENGINEERING ☐ TO OTHERS (SPECIFY)						
22. ☒ Field Engineering Disposition ☒ Field Engineering Recommended Disposition to Project Engineering Disposition Requested By: 10-4-78						
Correct oversize holes as follows: a) Check mounting base for flatness b) Drill out 4 holes presently tapped to 7/8" to 1 1/4" c) Weld backing plates to bottom of holes per Fig. A. d) Fill in holes with weld metal use weld procedure Pl-A-LH e) Grind top of holes flat f) Recheck mounting base for flatness g) retap holes per installation manual.						
23. PROJECT ENGINEERING DISPOSITION Project Engineering concurs with Field Engineering disposition and the method of repair as described in Block 22 which is in accordance with vendor Telex No. BWC 15210278/9 dated 9/20/78 from Bingham Willamette Division to Bechtel Midland.						
Note-Copy of Telex referenced above attached to NCR No. 1560.						
26. QC ACCEPTANCE QC ENGINEER A. G. Shaw 9/28/78 DATE AUTHORIZED INSPECTOR DATE						

Block 22 continued;

Ref: TWX dated 9/20/78 from Bingham Willamet attached.

Ward 9/27/78

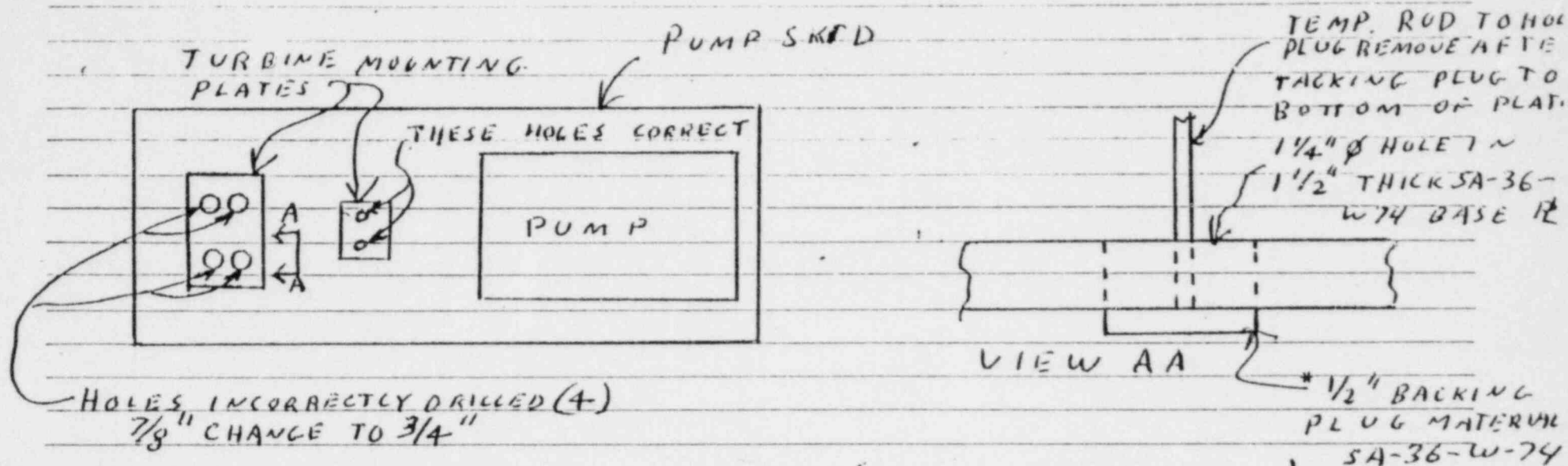


FIG A (TYP 1 + 2 POS B)

* Note: 1/2" backing plug will be permanent part of repair. Q.C. must be assured it is in fact SA-36-W-74 material.

ATTACHMENT TO NCR. NO. 1560

1560 M.14



RECHTEL M14

WING WILL DV

CT 15/20/78

ATTN: MR. SKIP SCHWARTZ

REF: P.O. 7220-M-14-AC

BWC 15210276/0

CONFERRED TELECON TODAY WITH CHIEF MR. JEAN MICHEL
WE ACKNOWLEDGE THAT THE TAPPED HOLES FOR TURBINE MOUNTING
BOLTS WERE ALL SIX DRILLED AT 7/8" RATHER THAN 2 AT 7/8"
AND 4 AT 3/4". YOUR EFFORTS TO OBTAIN LARGER BOLTS FROM
TUBES TURBINE HAS BEEN LESS THAN SATISFACTORY.

OUR RECOMMENDATION IS TO DRILL THE FOUR (4) OVERSIZE
HOLES TO APPROXIMATELY 1-1/4"; WELD COMPLETELY WITH
APPROVED PROCEDURES - QUALIFIED WELDERS - AND
APPROPRIATE WELD METAL (A36-W74); THEN DRILL AND TAP TO
CORRECT 3/4" SIZE. APPROPRIATE NDE TO ACCOMMODATE YOUR SITE
NEEDS SHOULD BE EMPLOYED.

R.H. LOGAN

WING WILL DV

1. PROJECT NAME <i>Widland</i>		JOB NO.		19. NO. 1561		PAGE 1 OF 1	
2. UNITS <i>1</i>		3. DRAWING/PART NO. <i>1E-59B</i>		4. ITEM DESCRIPTION <i>REACTOR COOLANT PUMP SEAL WATER RETURN COOLER</i>		5. ITEM LOCATION <i>Area Bldg. 6L. 614'</i>	
6. P.O. OR SPEC NO. <i>7220-M1.14</i>		7. SERIAL NO. <i>NA</i>		8. REPLACEMENT PART <i>PIN NA REV</i>		9. SOURCE <i>UNKNOWN</i>	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. <i>100-1E-548</i> NO. <i>NA-VA-2</i>		12. ASME AUTHORIZED INSPECTION REC'D ☒ YES () NO		13. SKETCH ATTACHED () YES () NO	
15. NONCONFORMING CONDITION: <i>PQCI 7220/M-1.00, Activity 2.4 REQUIRES</i>		14. Discovered During () Rec'g () Const () Test		10. CONTRACTOR/SUPPLIER <i>ATLAS INDUSTRIAL</i>		15. Equip Furnished By () Client () Eng () FLD	
24. DISPOSITION CONCURRENCE							
20. REVIEW		21. REJECT		22. REPAIR		23. USE AS IS	
<i>10/15/78</i>		<i>10/15/78</i>		<i>10/15/78</i>		<i>10/15/78</i>	
25. PROJECT ENGINEER		26. PROJECT ENGINEER		27. PROJECT ENGINEER		28. PROJECT ENGINEER	
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157. PROJECT ENGINEER		158. PROJECT ENGINEER		159. PROJECT ENGINEER		160. PROJECT ENGINEER	
161. PROJECT ENGINEER		162. PROJECT ENGINEER		163. PROJECT ENGINEER		164. PROJECT ENGINEER	
165. PROJECT ENGINEER		166. PROJECT ENGINEER		167. PROJECT ENGINEER		168. PROJECT ENGINEER	
169. PROJECT ENGINEER		170. PROJECT ENGINEER		171. PROJECT ENGINEER		172. PROJECT ENGINEER	
173. PROJECT ENGINEER		174. PROJECT ENGINEER		175. PROJECT ENGINEER		176. PROJECT ENGINEER	
177. PROJECT ENGINEER		178. PROJECT ENGINEER		179. PROJECT ENGINEER		180. PROJECT ENGINEER	
181. PROJECT ENGINEER		182. PROJECT ENGINEER		183. PROJECT ENGINEER		184. PROJECT ENGINEER	
185. PROJECT ENGINEER		186. PROJECT ENGINEER		187. PROJECT ENGINEER		188. PROJECT ENGINEER	
189. PROJECT ENGINEER		190. PROJECT ENGINEER		191. PROJECT ENGINEER		192. PROJECT ENGINEER	
193. PROJECT ENGINEER		194. PROJECT ENGINEER		195. PROJECT ENGINEER		196. PROJECT ENGINEER	
197. PROJECT ENGINEER		198. PROJECT ENGINEER		199. PROJECT ENGINEER		200. PROJECT ENGINEER	
201. PROJECT ENGINEER		202. PROJECT ENGINEER		203. PROJECT ENGINEER		204. PROJECT ENGINEER	
205. PROJECT ENGINEER		206. PROJECT ENGINEER		207. PROJECT ENGINEER		208. PROJECT ENGINEER	
209. PROJECT ENGINEER		210. PROJECT ENGINEER		211. PROJECT ENGINEER		212. PROJECT ENGINEER	
213. PROJECT ENGINEER		214. PROJECT ENGINEER		215. PROJECT ENGINEER		216. PROJECT ENGINEER	
2							

26. QC ACCEPTANCE

QC ENGINEER

DATE _____

AUTHORIZED INSPECTOR

DATE _____



NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1562	20. PAGE 1 OF 1
2. UNIT(S) Indeterminate	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION Heat # L00060 Hvy. Hex 296 Pcs. of 1 3/4" - 8 ASTM A-194 Gr. 2H Nuts		5. ITEM LOCATION Q.C. Hold, Wisc. # 1
6. P.O. OR SPEC NO. 7220-F-28509 Rev. 0	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV SER NO.		9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Aciment Manufacturing
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. R-1.00-3892 NO. C-306 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: Specification 7220-C-306 Rev. 3 Section 5 Para. 5.2 states "Nuts shall be heavy semi-finished, hex nuts and shall conform to ASTM A-307 or ASTM A-194, Grade 2H." ASTM Spec. A-194 '76 Edition under "Marking" states that "All nuts shall bear the manufacturer's identification mark." Contrary to the above, the material described above, was received without any manufacturer's mark. "Q" number is indeterminate. Hold pending final disposition. 3 hold tag(s) applied.				24. DISPOSITION CONCURRENCE rework reject repair use as is C. Boon 10/3/78 PROJECT FIELD ENGINEER DATE D. Barclay 10-6-78 PROJECT ENGINEER DATE PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE	
17. REPORTED BY James L. May 9-21-78		18. VALIDATED BY D. Barclay 9-26-78		25. DISPOSITION RESULTS	
21. ROUTING: (X) TO FIELD/ENGINEERING () TO OTHERS (SPECIFY)					
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering Reject: Procurement Supervisor to return to supplier. C. Ward 10/3/78					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE QC ENGINEER DATE AUTHORIZED INSPECTOR DATE					

NONCONFORMANCE REPORT

[illegible]

NONCONFORMANCE REPORT

[illegible]

Block 16 Continued

awarded. (See Attachments "A" & "B")

2. Purchase Order 7220-F-27314 Rev. 2, quoted above, shows the material shall meet Class 2 requirements. Spec. 7220-M-215 Rev. 1 states that the G-321-D Form is required in the Documentation Package. The G-321-D Form received is page 3 for Class 3 material. Also, the G-321-D Form received is from Rev. 0 and not Rev. 1 of Spec. 7220-M-215 Rev. 1. (See Attachment "C")

3. Material listed above was received with a substantial amount of shipping damage. End caps are missing, split, or not affixed properly. The 3" Sch 10 (Ht. 93735) material listed above, is out of round and scraped on the ends from mis-handling during shipment (See Attached Photos).

"Q" number is indeterminate. Hold pending final disposition. 29 JH 9-29-78
44 hold tag(s) applied.

AL TECH

Willowbrook Av

nknrk, N.Y. 14040

ATTACHMENT "A"
PAGE 3 OF 5 NCR# 15

OF TEST

PURCHASE ORDER NO. AND DATE -15075 04/06/78	NOT BEFORE	INQUIRY NO. AND DATE	ACCEPTING MILL WATERVLIT	MILL ORDER NO. 0-0-96367	DATE SHIP PL 8/18/78	INVOICE NO.
MCJUNKIN CORP P O BOX 513 CHARLESTON W VA 25322			SHIP TO MCJUNKIN CORP NITRO W VA 25143			

PRODUCT SPECIFICATIONS

AL TECH STAINLESS STEEL TYPE 304
COLD DRAWN ANLD & PICKLED SMLS PIPE TO ASTM A-312/SA-312
ASME SECT III NC-2000 CL 2 & ND-2000 CL 3 74 EDITION THRU
WINTER 75 ADDENDA TO INCL CHECK ANAL TO PARA 7.1 OF SA-312

DESCRIPTION	QUANTITY	POUNDS	C/P	TEST PCS.	COPIES SOLD TO	C	P	COPIES SHIP TO	C
T 3.5000 .1200 20/27 3" SCH 10 PART #6560-0196						2	2		3

CHEMICAL ANALYSIS

STANDARD ELEMENTS & PERCENTAGES

ADDITIONAL ELEMENTS

HEAT NO.	C	MN	P	S	SI	CR	NI	AL	MO	CU	Co
93735	.070	1.74	.026	.023	.36	18.17	8.77	-	.07	.10	.13 (LADLE)
	.065	1.75	.024	.023	.35	18.09	8.75	-	.06	.09	.13 (CHECK)

PHYSICAL PROPERTIES

HEAT NO.	TENSILE PSI	YIELD PSI	ELONG %
93735	86,770	34,800	58.0
	90,840	37,620	55.0
	88,000	36,000	55.0



8/24/78

BRINELL / ROCKWELL

Rb80/81
Rb83/85
Rb82/83

TEST NO.

01-001
01-008
01-009

McJUNKIN CORPORATION

ASME CERTIFICATIONS

N-1029 & N-1029-1

EXPIRES 3-3-81

FLATTENING TEST: OK
HYDROSTATIC TEST: OK

MATERIAL IS IN THE SOLUTION ANNEALED CONDITION AS A RESULT OF BEING HEATED ABOVE 1900F AND
WATER QUENCHED TO LESS THAN 800F IN THREE MINUTES OR LESS.

General Power Corp
GO-7220-F-2734-Q

W. B. Ackerman

W. B. ACKERMAN, TEST ENGINEER 8/18/78

ANALYSES AND RESULTS CERTIFIED AS ABOVE

AL TECH SPECIALTY STEEL CORPORATION



AL Tech Specialt el Corpora"on

Willowbrook Avenue, New York, N.Y. 14048

ATTACHMENT "B"

PAGE 4 OF 5

NCR #1564

MICATE
F TEST

PURCHASE ORDER NO. AND DATE -15358 04/06/78		NOT BEFORE	INQUIRY NO. AND DATE		ACCEPTING MILL WATERVLIET	MILL ORDER NO. 0-0-96339	DATE SHIPPED 7/26/78	INVOICE NO.
MCJUNKIN CORP P O BOX 513 CHARLESTON W VA 25322					SHIP TO MCJUNKIN CORP NITRO W VA 25143			

DUCT SPECIFICATIONS

AL TECH STAINLESS STEEL TYPE 304
 EXTRUDED SEAMLESS PIPE TO ASTM A-312-76 & SA-312 ASME SECT
 III NC-2000 CL 2 & ND-2000 CL 3 74 EDITION THRU WINTER 75
 ADDENDA TO INCLUDE CHECK ANALYSIS TO PARA 7.1 OF SA-312

DESCRIPTION	QUANTITY	POUNDS	C/P	TEST PCS.	COPIES SOLD TO	C	P	COPIES SHIP TO	C	P
T 3.5000 .2160 17/24 3" SCH 40 PART #6560-0447						2	2		3	3

CHEMICAL ANALYSIS

STANDARD ELEMENTS & PERCENTAGES

ADDITIONAL ELEMENTS

EAT NO.	C	MN	P	S	SI	CR	NI	AL	MO	CU	Co	
93571	.055	1.75	.025	.023	.38	18.31	8.10	-	.30	.19	.13	(LADLE)
	.053	1.78	.024	.021	.37	18.07	8.03	-	.29	.19	.13	(CHECK)

PHYSICAL PROPERTIES

EAT NO.	TENSILE PSI	YIELD PSI	ELONG %	RED. AREA %	BRINELL / ROCKWELL	TEST NO.
93571	90,600	41,400	50.0		Rb87/88	01-002
93571	84,700	41,400	50.0		Rb79/80	01-003

MATERIAL IS IN THE SOLUTION ANNEALED CONDITION AS A RESULT OF BEING HEATED ABOVE 1900F AND
 WATER QUENCHED TO LESS THAN 800F IN THREE MINUTES OR LESS.

FLATTENING TEST: OK
 HYDROSTATIC TEST: OK

McJunkin Power Corp
 D-7220-F-27314-Q



McJUNKIN CORPORATION

ASME CERTIFICATIONS

N-1029 & N-1029-1

EXPIRES 3-3-81

U.B. Ackerman

W.B. ACKERMAN, TEST ENGINEER 7/26/78

ANALYSES AND RESULTS CERTIFIED AS ABOVE

Supplier's failure to comply with these requirements may result in order cancellation or withholding of payment until compliance is established.

13. Supplier's Order No. 31-78-99-31	14. Supplier's Part No. NA	15. Supplier's Part Name Seawater Steel/Sails Pipe	16. Quantity See Packing List
17. Buyer's Reg. Item No. IK-2 F2 R6 R8 7220 F27314-Q	18. Buyer's Line/Equip. Tag or Code No. NA	19. Buyer's Part Name Seawater Steel/Sails Pipe	20. Traceability 17.4V
21. Supplier's Conformance Statement I/We certify that the listed work and required documents meet the requirements of the procuring documents. Supplier: <u>James M. Holmes</u> Q. A. Inspector <u>Sept 6, 1978</u> Signature Title Date			
22. Inspection Release Statement Work was released based on satisfactory completion of inspection and review of documentation. Authorized Deviations ☐ YES, listed under 12, Remarks ☐ NONE Bechtel Inspector: _____ Signature Date			
23. Engineering Review Statement The Quality Verification Documents submitted in Engineering with this form have been reviewed for conformance to the specified requirements and are acceptable. Engineer: _____ Signature Date			
24. QEE Check In Statement This form and the Quality Verification Documents referenced hereon have been received and their relationship to the hardware item verified. CONTROL NO. _____ FILE NO. _____ QEE: _____ Signature Date			

After DCE Check-in Distribute to: Procurement Manager, Field Office Manager, Material Supervisor



22 NOV 1964

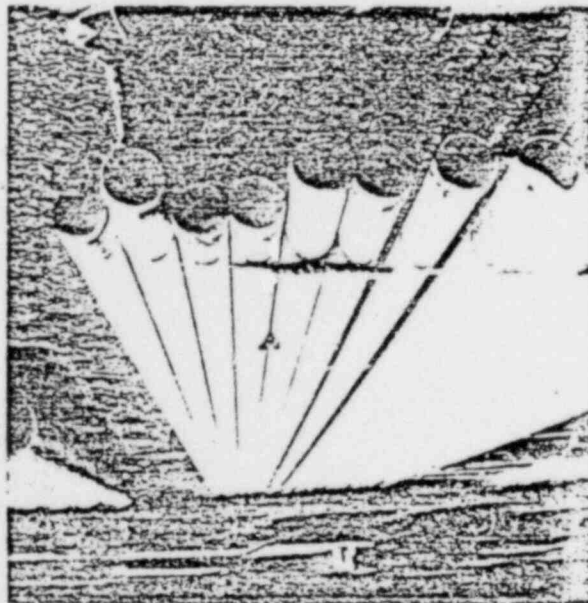
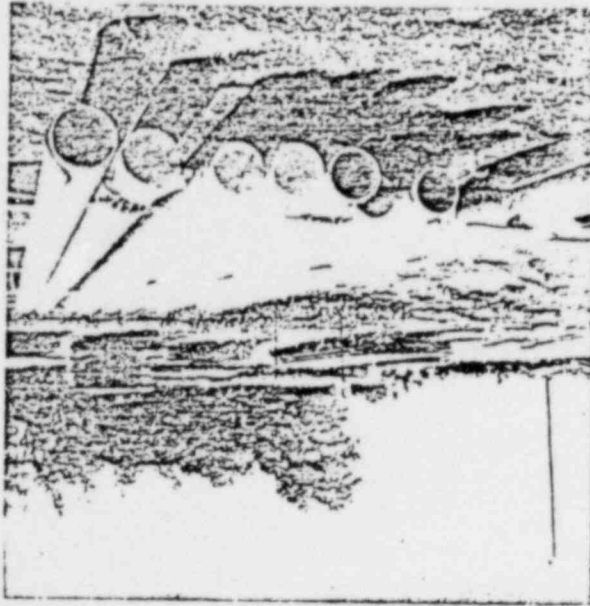
MIDLAND PLANTS - UNITS 1 & 2
CONSUMERS POWER COMPANY

ENGINEERING AND QUALITY VERIFICATION DOCUMENT REQUIREMENTS

FOI/SEC. NUMBER
7220-M-215

SHEET	3	OF	3	0
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ATTACHMENT "D"
PAGE 6 of 6
NCR# 1564



NONCONFORMANCE REPORT

[illegible]

Block 15 Continued

P.O. #	Item #	Pcs. Received	NPI #	Description
1234-1-234567 Q	20	70	RSC-08	1" Clevis
	21	40	RSC-09	1 1/8" Clevis
	22	30	RSC-10	1 1/4" Clevis
	23	20	RSC-12	1 1/2" Clevis

In addition to the above, the supplier shipping list indicates that item # 1 is A 3/8" weldless eye nut (KEN-03). However, the Purchase Order requests 1/2" weldless eye nuts (KEN-04). The actual eye nut size received is 3/8", while no 1/2" size has been shipped.

"Q" number is indeterminate. Hold pending final disposition. 4 hold tag(s) applied.



NONCONFORMANCE REPORT

1. PROJECT NAME MIL-400		JOB NO. 1220		19. NO. 1566	20. PAGE 1 OF 2
2. UNIT(S) M-1	3. DRAWING/PART NO. M-1	REV M-1	4. ITEM DESCRIPTION 1220ville 51496 inc - E.D. J. F. 71	5. ITEM LOCATION Beyville	
6. P.O. OR SPEC NO. M-1	7. SERIAL NO. M-1	8. REPLACEMENT PART P/N 422 REV 422 SER NO. 422		9. SOURCE C. 1220ville	10. CONTRACTOR/SUPPLIER M-1
11. INSPECTION CRITERIA () DWG () SPEC (X) OTHER		12. ASME AUTHORIZED INSPECTION BY ID () YES (X) NO		14. Discovered During () Rec'g (X) Const () Test	15. Equip Furnished By () Client (X) Eng () FLD
16. NONCONFORMING CONDITION: EPC-4.111, rev 3, paragraph 6.4.3 states in part: "A-listed items as their storage area, shall be properly marked so that they are easily identified without the use of marking or labeling or covers, or covers." In this, storage area by identification markers and this section markers are missing, damaged, or have (SEE CONT. SHEET)				24. DISPOSITION CONCURRENCE rework reject repair use as is	
17. REPORTED BY Randy Mahala		DATE 9-29-78		18. VALIDATED BY Randy Mahala	
DATE 9-29-78		DATE 9-29-78			
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					

ANALYSIS OF THE DATA

It was found that the data is in good agreement with the theory.

The data was collected over a period of 10 days.

The data was collected over a period of 10 days.

The data was collected over a period of 10 days.

The data was collected over a period of 10 days.

The data was collected over a period of 10 days.



NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1567	20. PAGE 1 OF 3
2. UNIT(S) COMMON	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION Concrete - Excessive slump	5. ITEM LOCATION DG(662)G'	
6. P.O. OR SPEC NO. C-230 Rev.13	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A	9. SOURCE Subcontractor	10. CONTRACTOR/SUPPLIER Champion, Inc.	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO NO C-1.30-664	12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO	13. SKETCH ATTACHED () YES () NO	14. Discovered During () Rec'g () Const () Test
15. Equip Furnished By () Client () Eng () FLD		16. NONCONFORMING CONDITION: Spec. C-230 Rev.13 section 9.1.2. states in part - Concrete shall meet the following requirements, C-1c concrete slump @ P.O.P. 3" with a 2" inadvertency margin, with a 5" rejection limit. Contrary to the above, approx. 3 cu. yds. on TRK # 29 Ticket 29960 were placed in the Diesel Can.Bld. wall # 5 with a 6 1/2" slump (6 1/2" Backup test). Hold for Eng. Disposition "Q" listed 1.405 - 1 Hold Tag applied.			
17. REPORTED BY <i>[Signature]</i>		DATE 9/29/78	18. VALIDATED BY <i>[Signature]</i>	DATE 9-29-78	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		24. DISPOSITION CONCURRENCE rework reject repair use as is			
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering		25. DISPOSITION RESULTS			
23. PROJECT ENGINEERING DISPOSITION		26. QC ACCEPTANCE QC ENGINEER DATE AUTHORIZED INSPECTOR DATE			

Ticket No.	Truck No.	13 Time	14 Cum. Yardage	15 Sampling Point	16 Stamp ASTM C-143-74	17 Fall EOL ASTM C-211-74	18 Cond. Temp.	19 Abs. Temp.	20 Fall Weight ASTM C-152-74	21 Cond. ASTM C-131-64 Test No. AME
29934	29	811	(3)	GROUT						
29933	30	804	6	TG TD	4"	2 1/2"	5.0%	62°	620	57°
				EOL	3"	4.0	58°			3713F 4
29935	29	828	12							
29936	30	836	18							
29937	29	846	24							
29938	30	856	30							
29940	29	905	36							
29942	56	914	42							
29943	29	921	48							
29944	56	930	54	TD	2"	1 1/2"	4.6	68°	62°	58°
29946	29	940	60							
29947	56	948	66							
29949	29	958	72							
29950	56	1006	78							
29952	29	1015	84							
29953	56	1022	90							
29955	29	1033	96							
29956	56	1040	102	TD	6 1/2"	5"	5.5	66°	65°	
29958	56	1215	108							
29957	29	1206	114							
29960	29	1223	120							
29963	29	1251	126	TD	6 1/2" (6 1/2")					NCR #
				EOL	4 1/2"	4 1/2"				

24. GUNSHOT SAMPLES TESTED BY D.W. SAT, B.W.
25. GUNSHOT CONTROL EQUIPMENT Shirley V. Lee DATE 9/27/76
7220-GCF-15

CR# 1567 page 3 of 3 29960

CHAMPION, INC.

MIDLAND NUCLEAR POWER PLANT

BECHTEL JOB 7220

PLACEMENT AG(642)G

ALL WEIGHTS IN LBS. UNLESS OTHERWISE INDICATED.
ALL ADMIX'S PRINTED IN OUNCES.

BATCH	27
FORMULA	2.3
BATCH SIZE (YDS.)	6.00
STONE 1	10720
STONE 2	
SAND	5060
% MOISTURE IN SAND	3.0
CEMENT	3695
FLYASH	
WATER (GALS.)	JOG 11 150
ADMIX 1 (AEA)	23
ADMIX 2 (WRA-D)	94
ADMIX 3 (WRA-A)	

TIME (24 HOUR CLOCK) 1217

TRUCK 29

TRUCK OUT TIME 12:40 REVS 20

TRUCK IN TIME 12:23 REVS 8

REMARKS 3cy sand

3cy cement 6 1/2 1/2 Ea

HEATED ☐ - COOLED ☒

RECEIVED BY Odell

Automation K.R.

(1489501)

C2537

NONCONFORMANCE REPORT

1568

1. PROJECT NAME		JOB NO.		19. NO. <u>1568</u>	20. PAGE <u>1</u> OF <u>1</u>
2. UNIT(S) <u>Welded</u>	3. DRAWING/PART NO. <u>7220</u>	REV <u>11/A</u>	4. ITEM DESCRIPTION <u>Instrument Tubing</u>	5. ITEM LOCATION <u>Weld # 2</u>	
6. P.O. OR SPEC. NO. <u>7220-F-25449</u>	7. SERIAL NO. <u>W/A</u>	8. REPLACEMENT PART P/N <u>11/A</u> REV <u>W/A</u>	9. SOURCE <u>Supplier</u>	10. CONTRACTOR/SUPPLIER <u>Sanivik, Inc.</u>	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER <u>IR NO. 1.00-3333</u> <u>NO-710 Rev. 2</u>		12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO	13. SKETCH ATTACHED () YES () NO	14. Discovered During () Rec'y () Const () Test	15. Equip Furnished By () Client () Eng () FLD
16. NONCONFORMING CONDITION: <u>Item 1. Specification 7220-J-710 Rev. 2, Para. 6.B.1 states in part: "Stainless steel tubing shall be seamless annealed, ASME SA-213 Grade TP 304. Stainless steel tubing shall be within hardness range 70-74 Rockwell B." Actual WTX 2348 (See Attachment "A") raised hardness range to Rockwell 80B.</u>				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 <u>Donald J. ...</u> DATE <u>7/22/78</u>		18. VALIDATED BY <u>...</u> DATE <u>9-29-78</u>		25. DISPOSITION RESULTS	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE					
				QC ENGINEER	DATE
				AUTHORIZED INSPECTOR	DATE

Continued on Page 2

Block 16 Continued

Contrary to the above, the Instrument Tubing listed on the IR, with code numbers WO 40541, WO 40543, WO 40593 and WO 40594 were supplied with a Rockwell hardness range below that specified. (See Attachments "B", "C", "D" & "E")
-X 10/2/10

"C" number is 5.034. Hold pending final disposition. 8 hold tag(s) applied to the nonconforming item(s).

BECHTEL MIDL

BECHTEL ARB

810-223-6032 CLG 810-266-9497

TXN 2348 12/1/77 16:05

ATTN MR. J. F. NEWGEN

BBBC-1969

SUBJECT: CPCO/MIDLAND PLANT - JOB 7220

SPECIFICATION J-710

SANDVICK, INC. QUOTE

FILE: 0274, J-232(Q) P-R

REFERENCES: 1) BCBE-1654R

2) BCBE-1682

THE FOLLOWING IS THE RESOLUTION WITH M&S CONCURRENCE FOR THE
EXCEPTIONS IN SUBJECT QUOTATION BY ITEM:

1. HEAT TREATMENT RESOLVED BY REFERENCE 2
2. SECTION 6B1 - ROCKWELL 90B MAXIMUM IS ACCEPTABLE.
3. SECTION 7A4 - THE MARKING MATERIALS PROPOSED ARE ACCEPTABLE.
4. SECTION 7B2 - THE DEMINERALIZED WATER PROPOSED FOR FINAL RINSE
IS ACCEPTABLE.
5. SECTION 8B3 - THE CAP OR PLUG MATERIALS PROPOSED ARE ACCEPTABLE.

SPECIFICATIONS WILL BE REVISED AFTER THE VENDOR IS SELECTED.

R. L. CASTLEBERRY

AMN ARD02/7PER113/7220-001/LSU

BECHTEL MIDL

9



NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1056	20. PAGE 1 OF 2
2. UNIT(S) Common	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION Concrete -- High Air Entrainment	5. ITEM LOCATION SWI(654.2)a'	
6. P.O. OR SPEC NO. C-230, Rev. 11	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, 30-395 NO. C-230, Rev. 11	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: Specification C-230, Rev. 11 states in part that "Entrained air shall not be less than 3% nor more than 6% by volume....." Contrary to the above 6 cu. yd. of non-conforming concrete, Ticket #24105 -- Truck #30, were placed in the Service Water Walls. End of Line air was 9.1% (Truck Discharge Test was 9.4% with 8.7% Back Up). Hold for Engineering Disposition. "Q"-List #1.505. 1 Hold Tag Applied, @ intersection of west & south walls, outside face, El. 655' In addition, end of line slump was 6-1/4" for the same ticket.				24. DISPOSITION CONCURRENCE rework reject repair use as is 12/28/77 PROJECT FIELD ENGINEER DATE PROJECT ENGINEER DATE PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE	
17. REPORTED BY DATE 11/16/77		18. VALIDATED BY DATE 11-16-77		25. DISPOSITION RESULTS	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering Disposition required by: 12/23/77 "Use As Is" concrete was placed on truck 30, ticket #24105 based on a truck discharge air content of 8.7%. Due to standard air losses thru the pump line, E.O.L. air content should have been acceptable. However, E.O.L. air content resulted in a high E.O.L. air content of 9.1%. Also, note that concrete was pumped with a truck dis- charge slump of 5". Test results at E.O.L. (Co.'t on page 2)					
23. PROJECT ENGINEERING DISPOSITION High air content will tend to lower compressive strength while increasing the potential for resisting freeze-thaw cycles. High slump will also tend to lower compressive strength while reducing durability. 28 day strength results for ticket 24105 averaged 2580 psi for cylinders cast at the batch plant. The nonconforming concrete represents only 6 cubic yards out of the 106 cubic yard placement. Since 90 day strength results are estimated to exceed design strength requirements. Project Engineering concurs with the Field Engineering recommended disposition to "use as is".					
26. QC ACCEPTANCE QC ENGINEER AUTHORIZED INSPECTOR				DATE 9/19/78 12/30/77 DATE	

IN-PROCESS CONCRETE TEST REPORT

QC ACCEPTANCE	DATE
CONTROL NO.	FILE NO.

1. Inspection Record No C-130-395 2. Date 11/15/77 3. Page 1 of 1

CONCRETE & PLACEMENT IDENTIFICATION

Placement Identification SWI (654.2) C Thin Section ☒ Thick ☐ Mass ☐
 Concrete Class I 6. Mix No. C-1 7. Entrained Air Content Limits 3% to 6%
 Slump Working Limit 3" 9. Inadvertancy Margin 2"
 Concrete Placing Temperature Limits 60° ± 10° 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 Conc. Temp.	19 Amb. Temp.	20 Unit Weight ASTM C-138-74	21 Comp. Cyls. ASTM C-31-59 Test No. Amt.
24106	56	0910	2 CU.YD. GRUNT							
24105	30	0952	6	TD EOL	5"	9.4% (9.2%)	54°	52°	39°F	S.A.T.
24110	51	10:00	12	TD EOL	3 3/4"	6.1% (4.5%)	52°	52°	40°F	INFO-SLUMP & AIR
24113	56	10:14	18							
24115	30	10:24	24	TD EOL	2 1/2"	3.6% (3.1%)	55°	53°		
24117	51	10:54	30	TD EOL	N/A	4.0% (2.7%)	N/A			INFO AIR
24118	56	11:55	36	TD EOL	N/A	3.3% (2.6%)	54°	49°F		INFO AIR
24122	30	12:05	42	TOO STIFF - SENT TO MUD MAT						
24123	51	12:16	48	TD EOL	N/A	4.3% (3.2%)	N/A			INFO AIR
24130	56	12:30	54	TD EOL	2"	4.0% (3.3%)	58°F	58°F	46°F	SAT
24133	51	12:55	60							
			64	NOTE: 4 CU.YD. SENT TO MUDMAT ON THIS FREQUENCY						
24134	56	13:05	70							
24136	51	13:17	76							
24138	30	13:32	82					46°F		
24139	29	13:42	88							NCR1056
24140	51	13:51	94							
24142	30	14:01	100	TD EOL	3 1/4"	7.2% (5.6%)	62°F	62°F	46°F	
24143	29	14:09	106							
24144	51	14:18	112							
24146	29	14:41	115	NOTE: 2 CU.YD. USED - 1 CU.YD. SENT TO MUDMAT						

TESTING EQUIPMENT:

Air Meter No. 88 (314 EOL) Calibration Due Date 2/14/78 (2/14/78)
 UNIT WT. CONTAINER No. N/A Calibration Due Date N/A
 SCALE No. N/A Calibration Due Date N/A
 THERMOMETER No. 335 (296 EOL) Calibration Due Date 2/24/78 (4/27/78)
 13. CONCRETE REJECTED CU YDS. NONE

14. CONCRETE SAMPLED & TESTED BY D.W. R.B. J.N.M.

15. QUALITY CONTROL ENGINEER [Signature] 26. DATE 11/15/77

NCR 1056 Page 2

REC'D 11-28-77

Block #22 Continued:

resulted in a nonconforming slump of 6 1/4". Improper sampling is suspected to be the reason for both higher values of air content and slump at E.O.L. with respect to the truck discharge values. A total of 6 cy of nonconforming concrete was placed out of a total of 106 cy.

7 day test results for this C-1 concrete placed 11/15/77 are contained below. NOTE: Cyl. set #2821 was cast on the nonconforming concrete.

Ticket #	Cyl. #	Cyl. # 1	Cyl. #2	Are. Strength (psi)
24105	2821	1680	1860	1770
24142	2822	2200	2130	2165

J. Boor for F. Teague
11-28-77

Block 16 Continued

In addition to the above nonconformances, the following 12 c.u. of concrete are also lower than the specified limits for air entrained concrete: Truck #51, Ticket #24117 (6 c.u.), EOL Air of 2.7% and Truck #56, Ticket #24118 (6 c.u.) EOL Air of 2.6%. These tests⁸⁻²⁵⁻⁷⁸ were taken for information only and no backup data⁸⁻²⁵⁻⁷⁸ is available.

Handwritten signature 8/25/78

Block 22 Continued:

In Addition to the 6 c.y. of concrete placed with high Slump and High Air Content represented by Ticket No. 24105, 12 c.y. of concrete, Ticket No.'s 24117 and 24118 was placed with low E.O.L. Air Contents of 2.7% and 2.6% respectively. Based on the fact that this nonconformance and the previously noted nonconformance on 11/16/77 have offsetting effects, and since the 90 day compressive strength for the C-1 concrete placed exceeded the design strength, Field Engineering recommends "use as is".

Handwritten signatures 9/6/78
9/6/78

Block 23 Continued:

Project Engineering has reevaluated the NCR based upon the additional information provided and concurs with the Field Engineering Recommended Disposition to "Use As Is."

Handwritten signatures M D Reeves R Schulman

REM C-1719 9-14-78 9/15/78

NONCONFORMANCE REPORT (CONT'D)

1. PAGE 5 OF 514. NCR NO. 1056

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
			X
<i>W. Boon</i> PROJECT FIELD ENGINEER <i>J. R. Bauman/Ric</i> PROJECT ENGINEER <i>M. Barclay</i> PROJECT CONSTR QC ENGINEER AUTHORIZED INSPECTOR		DATE 9-18-78 DATE 9-19-78 DATE	

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

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

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

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

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

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

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

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

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

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

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

NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1237	20. PAGE 1 OF 2
2. UNIT(S) 1 & 2	3. DRAWING/PART NO. See block 16	REV	4. ITEM DESCRIPTION Main Control Boards	5. ITEM LOCATION Whse #1-Class A storage	
6. P.O. OR SPEC NO. J-201 Rev. 4	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 Magnetics Div. of Spang Ind.	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. N/A NO. J-201 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: The Main Control Boards were found to have the following nonconforming conditions: (1) Spec. J-201 Rev. 4 para. 12.3.1.b states "Apply 1000 volts, 60 Hz between conductors and from conductors to ground for one minute." Contrary to this, the test reports included in the documentation packages for the Main Control Boards listed below, indicate that the panel wiring has been Hi-Pot tested per NEMA (Continued on page 2)			24. DISPOSITION CONCURRENCE ITEM 1 rework ☒ reject ☐ repair ☐ use as is ☐ DATE 4-5-78 PROJECT FIELD ENGINEER DATE 3-24-78 PROJECT ENGINEER DATE 3-24-78 PROJECT QC ENGINEER DATE 3-24-78 AUTHORIZED INSPECTOR DATE		
17. REPORTED BY James M. Reynolds 2-23-78		18. VALIDATED BY ECJ E. Bureley 2-23-78		25. DISPOSITION RESULTS Item 2: Corrected documentation received for all Panels. Item 1: Corrected documentation (Magnetics letter and 2000-CL test results) received for all panels except 1C15/1C25 and 2C15/2C25 (Correcting Magnetics letter only received for these two panels). John P. Hilfer 2-5-78 Continuing 2000-CL test results 10/15/78 12/15/78 1/15/78 2/15/78 3/15/78 4/15/78 5/15/78 6/15/78 7/15/78 8/15/78 9/15/78 10/15/78 11/15/78 12/15/78 1/15/79 2/15/79 3/15/79 4/15/79 5/15/79 6/15/79 7/15/79 8/15/79 9/15/79 10/15/79 11/15/79 12/15/79 1/15/80 2/15/80 3/15/80 4/15/80 5/15/80 6/15/80 7/15/80 8/15/80 9/15/80 10/15/80 11/15/80 12/15/80 1/15/81 2/15/81 3/15/81 4/15/81 5/15/81 6/15/81 7/15/81 8/15/81 9/15/81 10/15/81 11/15/81 12/15/81 1/15/82 2/15/82 3/15/82 4/15/82 5/15/82 6/15/82 7/15/82 8/15/82 9/15/82 10/15/82 11/15/82 12/15/82 1/15/83 2/15/83 3/15/83 4/15/83 5/15/83 6/15/83 7/15/83 8/15/83 9/15/83 10/15/83 11/15/83 12/15/83 1/15/84 2/15/84 3/15/84 4/15/84 5/15/84 6/15/84 7/15/84 8/15/84 9/15/84 10/15/84 11/15/84 12/15/84 1/15/85 2/15/85 3/15/85 4/15/85 5/15/85 6/15/85 7/15/85 8/15/85 9/15/85 10/15/85 11/15/85 12/15/85 1/15/86 2/15/86 3/15/86 4/15/86 5/15/86 6/15/86 7/15/86 8/15/86 9/15/86 10/15/86 11/15/86 12/15/86 1/15/87 2/15/87 3/15/87 4/15/87 5/15/87 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NONCONFORMANCE REPORT (CONT'D)

8 ICEB 4-6-78

9 AS 5-18-78

20 PAGE 2 OF 2

19 NL

1237

(Continued from page 1)

Standard IC 1-2.42 (1965). The test voltage and duration are not specified on the Test Report. The supplier's request to use the NEMA Standard was rejected on Bechtel SDDR 310.

(2) Form G-321-D requires a certificate of finish paint to be included in the Quality Documentation. Contrary to this, the Applicator's Product Identity Record has not been certified by a supplier representative for the Main Control Boards listed below.

The boards referenced in items (1) and (2) are the following:

1C11/1C21, 1C12/1C22, 1C13/1C23, 1C15/1C25

2C11/2C21, 2C12/2C22, 2C13/2C23, 2C15/2C25.

Q-list #5.031.

☒ Hold tags attached.

Hold for engineering disposition.

A conditional Release is granted to install panels 1C15/1C25, & 2C15/2C25. These units are retrievable at any time during construction.

W. New
PFE

5-18-78
DATE

P. Barely
PFCE

5-18-78
DATE

REC'D G. L. Richards
LPHE

5/18/78
DATE

NONCONFORMANCE REPORT (CONT'D)

1. PAGE 3 OF 8 4-6-78 NCR NO. 1237

24. 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			
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PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

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

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

$$T = \frac{R}{r} (234.5 + t) - 234.5$$

Where—

- t—reference temperature in degrees C.
r—resistance at the reference temperature.
R—observed resistance.
T—temperature sought.

NOTE—This formula is derived from the experimentally determined relation between temperature and resistance of copper:

$$\frac{R}{r} = \frac{234.5 + T}{234.5 + t}$$

The temperature rise is the difference between the calculated temperature T and the temperature of the cooling medium at the time of test.

D. AMBIENT TEMPERATURE

1. Value of Ambient Temperature During Tests—

The temperature test may be made at any ambient temperature, preferably not below 10 C. It shall be assumed that the temperature rise is the same for all ambient temperatures between the limits of 10 and 40 C.

2. *Placing of Thermometers*—The ambient temperature shall be measured by means of several thermometers placed at different points around the apparatus at a distance of 1 to 2 meters (3 to 6 feet) and protected from drafts and abnormal heat radiation. Thermometers shall be located in the path of the cooling medium.

3. *Mean Temperature*—The value to be adopted for the ambient temperature during a test is the mean of the readings of the thermometers (placed as specific in par. 2) taken at equal intervals of time during the last quarter of the duration of the test.

E. ALTITUDE

For apparatus intended for operation at an altitude of 6000 feet or less, the temperature test shall be made at any altitude within this range, and no correction shall be applied to the observed temperature rise.

F. COVERING OF GLASS THERMOMETERS

The bulbs of glass thermometers used for taking temperatures shall be covered by felt pads cemented to the apparatus, by oil putty or by cotton waste.

The dimensions of felt pads for use with large apparatus shall be 4 cm by 5 cm by 3 mm thick (1.5 inch by 2 inches by 1/8 inch thick). The use of smaller pads is permissible on small apparatus.

NOTE—The most suitable method of covering glass thermometers depends upon:

- Whether the temperature is being observed during the progress of the test and whether the thermometer is subjected to moving air. In this case, the thermometer covering should be a good heat insulator since the principal purpose of the covering is to protect the thermometer bulb from the cooling air.
- Whether the temperature is being observed during the test with the thermometer in still air or after the completion of the test run. In this case, the purpose of the thermometer covering is to improve the contact between the thermometer bulb and the surface whose temperature is being measured.

G. MEASUREMENT OF TEMPERATURE OF THE DEVICE DURING TESTS

The temperatures of all stationary parts shall be measured during the progress of the test. Temperatures of movable parts shall be taken during the

test if practicable and, in any case, as soon after the completion of the test run as possible. When the temperature of a part is measured during the test, the temperature shall also be measured after the completion of the test run, and the highest figure obtained shall be used.

H. DURATION OF TEST

When ratings require tests for very short periods or at very heavy loads, the specified rating may be replaced for test purposes by an equivalent continuous rating or by an equivalent periodic rating having a longer duration than that specified in par. 1 and 2.

1. *Continuous Rating*—The temperature test shall be continued until the temperature rise has attained a steady final value or until sufficient evidence is available to show that the temperature rise would not exceed those specified in these standards if the test were to be prolonged until the attainment of steady final values.

2. *Periodic Rating*—The temperature test shall be made in accordance with the periods of load and rest specified by the rating of the apparatus and shall be continued for the total time required by the rating. The test shall commence only when the windings and other parts of the apparatus are within 5 C of the cooling air temperature.

I. ENCLOSED APPARATUS

If enclosures are provided as part of the apparatus, temperature tests shall be made with the enclosures in position. In the event that the manufacturer has made tests on duplicate apparatus, with and without enclosures, the test may be made without the enclosures, and a suitable correction shall be made in the results.

J. MADE BY MANUFACTURER

Control apparatus is ordinarily an assembly of standard parts or devices, and temperature tests are necessary only on those devices which embody new designs. Unless otherwise specified in these standards, no temperature tests shall be made on control apparatus at the factory when the manufacturer can furnish records of temperature tests made in accordance with these standards on duplicate devices.

NEMA Standard T-21-1954.

IC 1-2.42 Dielectric Tests

A. WHERE MADE

Dielectric tests shall be made at the factory.

B. TEST VOLTAGES

1. *Apparatus Rated at 600 Volts or Less*—The test voltage shall be 1000 volts plus twice the rated voltage (see par. 3 for exception).

2. *Apparatus Rated Above 600 Volts*—The test voltage shall be 2000 volts plus 2 3/4 times the rated voltage.

NOTE—As a supplementary test, devices for outdoor use should be capable of withstanding for 10 seconds a dielectric wet test at 1500 volts plus twice the rated voltage.

3. *Apparatus Connected into Circuits Where Power is Limited, Etc.*—Control apparatus which is built in accordance with the spacings given in Group D of the table in IC 1-2.73 shall be tested at twice the circuit voltage or at twice the circuit-to-ground voltage (as determined by the method described in Note 11 following the table), whichever is higher. In no case shall the test voltage be less than 1000 volts.

If control apparatus includes devices which are properly applicable to this equipment under these standards but which do not normally fall within the scope of the *Industrial Control Standards* and which require dielectric test voltages lower than those specified in par. 1, 2 and 3, such devices shall be disconnected and the remainder of the equipment subjected to the test. Typical examples are meters, instruments and pilot motors, lamp holders, snap switches, solid-state devices, diodes and capacitors.*

*This paragraph has been approved as Authorized Engineering Information.

4. *Assembled Apparatus*—Where a number of pieces of apparatus are assembled and tested as an electrical unit, the test voltage for this unit shall be 15 per cent lower than the lowest test voltage required on any of the individual pieces of apparatus.

C. FREQUENCY AND WAVE SHAPE OF TEST VOLTAGE

The frequency may be of any convenient value, and the shape of the wave shall be approximately a sine wave. Experience has shown that, with the

IC 1-2.43 Temperature Rise of Coils†

The temperature rise of coils above the ambient temperature, when the coils are tested in accordance with their ratings while mounted in the device with which they are intended to function, shall not exceed the values given in the following table. The temperature rise of shunt coils shall be determined by the resistance method. The temperature rise of series coils shall be determined by either the resistance or the thermometer method, whichever method is more practicable.

Limit of Temperature Rise Above Ambient Temperature, Degrees C (40 C Maximum)

Type of Coil	Method of Temperature Determination (See IC 1-2.41.B)	Class of Insulation†				
		O	A	B	C	II
Insulated shunt coils	Resistance	70	85	105	No limit specified	160
Insulated series coils	Thermometer	50	65	85	No limit specified	125
	Resistance	70	85	105	No limit specified	160
Single-layer series coils with uninsulated or enameled exposed surfaces	Thermometer		90*		No limit specified	

*This applies to coils having a fiber or some other similar insulating sleeve or collar which insulates the coil from the frame or core.

†The temperature rises shown in the table are based on many years of satisfactory experience and many tests by the industrial control industry with coils designed to, and operated at, temperature rise limits as indicated.

Suggested Standard for Future Design 3-15-1961.

Magnet coil insulation meeting the Class A temperature rise limits of IC 1-2.43 qualifies under the Class E definition of IEC Publication No. 85.

Authorized Engineering Information 7-12-1961.

IC 1-2.44 Temperature Rise of Contacts

A. The temperature rise of contacts above the ambient temperature, when the contacts are tested in accordance with their ratings, shall not exceed the following:

1. Laminated contacts—50 C.

comparatively low test voltages used for control apparatus, moderate variations in wave form or frequency have no appreciable influence on the effect of the test voltage.

D. MEASUREMENT OF TEST VOLTAGE

The test voltage shall be measured by a voltmeter.

In measuring the voltage, the voltmeter should derive its voltage from the high-voltage circuit either directly or through an auxiliary ratio transformer, or by means of a voltmeter coil placed in the testing transformer.

E. TEMPERATURE AT WHICH TESTS ARE TO BE MADE

Dielectric tests shall be made at the temperature attained under normal operation or at the temperature attained under the conditions of commercial testing.

F. POINTS OF APPLICATION OF VOLTAGE

The test voltage shall be successively applied between each electric circuit and all other electric circuits and metal parts grounded.

G. DURATION OF TEST

The test voltage for all switching and control apparatus shall be applied continuously for a period of 60 seconds. If the test voltage is 2500 volts or less, the apparatus or devices may be tested for one second with a test voltage which is 20 per cent higher than the one-minute test voltage.

Autotransformers for motor starters shall be tested with the same voltage as the test voltage of the apparatus to which they are to be connected.

NEMA Standard 9-29-1960.

2. Solid contacts—65 C.

B. The temperature rise shall be determined by the thermometer method (see IC 1-2.41.B).

C. This standard does not apply to contacts which are mounted directly on resistor elements.

NEMA Standard 3-12-1962

Suppl or Deviation Disposition Request

K-2000-21-6-75

FOR SUPPLIER USE

Supplier SDDR No.

Date Submitted

017

July 21, 1977

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

FOR BECHTEL USE

Bechtel SDDR No.

Date Received

310

7-29-77

1. Supplier

Name: Magnetics Address: Sandy Lake City & State: PA Zip: 16145

2. Supplier's Order No.

K-2000

3. Supplier's Part No.

4. Supplier's Part Name

Electrical Test

5. Date Deviation Determined

July 18, 1977

6. Previous SDDR (No. & Date)

None

7. Buyer's P.O. No.

7220-J-201-AC

8. Buyer's Part No.

9. Buyer's Part Name

Electrical Test

10. Bechtel Inspector Notified

Present July 18

11. Bechtel Eng. Notified

Present July 18

12. Qty or Serial No.

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

Specification 12.3.1 b and c as written are not practical for a single phase system but are written to accommodate a three phase switch gear. Conductor testing is not possible.

14. Supplier's Disposition Classification:

☐ Accept As Is☐ Repair☒ Modify Buyer's Requirement

15. Proposed Disposition and Technical Justification:

Test the unit per the attached NEMA standard IC 1-2.42 for Hi-Pot and add a 1500 V Meggar to ground.

16. Associated Supplier Document Change (s):

17. Suppliers Authorized Representative

Signature: L. C. McClellandName: L. C. McClellandTitle: Project EngineerDate: July 21, 1977

18. Bechtel Engrg. Action:

Engrg. Follow-up:

☐ Design Change☐ Other☒ Spec. Change☐ Discipline of Suppliers Affected☐ Accepted☒ Rejected☐ Rejected-Resubmit

19. Bechtel Disposition Statement (including justification (attach extra sheets, sketches, etc. as necessary).

COMPLIANCE WITH SEC 12-3-1 D & E IS REQUIRED. CLARIFICATION, DELINEATING FROM SPEC. IS THAT ALL POINTS NEED NOT BE CHECKED. WHILE MAINTAINING THE SPECIFIED TEST METHOD, 20% OF THE POINTS MUST BE INDIVIDUALLY TESTED WIRES ON EACH TERMINAL SHOULD BE BUNDLED AND TESTED AGAINST AT LEAST TWO WIRES FROM THE SAME BLOCK.

20. Bechtel Engineering Approval

Date

Verification Sign.

Date

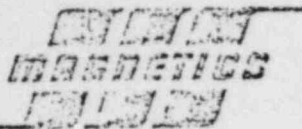
8-1-77

21. Supplier

8-18-77

22. Bechtel Engrg.

8/18/77



A Division of Spang Industries Inc.

INDUSTRIAL CONTROL DIVISION

Sandy Lake, Pennsylvania - 16145

Telephone 412-376-7515

March 14, 1978

2000-CL

Bechtel Power Corporation
P.O. Box 2167
Midland, Michigan 48640

Attention: Quality Control Engineer

Subject: Consumer Power Company
Midland Plant - Job 7220
Main Control Boards
P.O. # 7220-J-201-AC
Magnetics Ref: K-2000

Gentlemen:

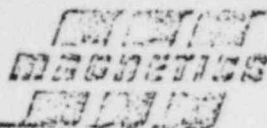
Per Tech. Specification 7220-J-201, Revision 4, Section 4.2 (should conflict between statutes, codes, standards, and specifications exist, the more stringent requirements, as determined by the buyer, shall govern. Such conflicts shall be brought to the buyer's attention in writing, for disposition). Magnetics submits the following clarification.

- I. Hi-Pot test was performed in accordance with Tech. Specification 7220-J-201, Revision 4, Section 12.3, sub-paragraph 12.3.1 for the following panels:

Panel Number : 1C11 - 1C21
1C12 - 1C22
1C13 - 1C23
2C11 - 2C21
2C12 - 2C22
2C13 - 2C23

(See Test Report # M 2C, Sec. 3.0, para. 3.1 in Q.V.D.)

- II. Attached are Material Certifications more legible than the Material Certifications sent with Q.V.D. package. (2 copies) For G.E. Sis Wire.



A Division of Spang Industries Inc.

INDUSTRIAL CONTROL DIVISION

Sandy Lake, Pennsylvania - 16145
Telephone 412-376-7515

March 14, 1978

2000-CL
Page 2

Panel Number: 1C11 - 1C21
1C12 - 1C22
1C13 - 1C23
2C11 - 2C21
2C12 - 2C22
2C13 - 2C23

If there are any further questions, please advise.

Very truly yours,

MAGNETICS
INDUSTRIAL CONTROL DIVISION

Robert Augustine

R.L. Augustine
Quality Control

RLA:cg

NCR 1237

Page 8 of 8

8 of 8
5-12-78

MAGNETICS
A Division of Spang Industries Inc.

NICK 1237
PAGE 19 of 9
INDUSTRIAL CONTROL DIVISION

Sandy Lake, Pennsylvania - 16145
Telephone 412-376-7515

May 8, 1978

2000-CF

Bechtel Power Corporation
Post Office Box 2167
Midland, Michigan 48640

Attention: Quality Control Engineer

Subject: Consumer Power Corporation
Midland Plant - Job 7220
Main Control Boards
P.O. # 7220-J-201-AC
Magnetics Reference - K-2000

Gentlemen:

To correct omission of panels 1C15-1C25 and 2C15-2C25 from Magnetics letter # 2000-CL, Magnetics submits the following clarification:

- I. Hi-Pot test was performed in accordance with tech. spec., 7220-J-201, revision 4, section 12.3, sub-paragraph 12.3.1 for the following panels:

1C15-1C25

2C15-2C25

If there are any further questions, please advise.

Very truly yours,

RECEIVED

MAY 10 1978

QUALITY CONTROL
BECHTEL JOB 7220
SIGNATURE *[Signature]*

MAGNETICS
INDUSTRIAL CONTROL DIVISION

Robert L. Augustine
Robert L. Augustine
Quality Control

RBA/eg

c/c: Ed O'Hara
L.C. McClelland

NICK 1237
PAGE 19 of 9



NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1352	20. PAGE 1 OF 2								
2. UNIT(S) Common	3. DRAWING/PART NO. E-42	REV 31	4. ITEM DESCRIPTION Seismic Cable Tray Support	5. ITEM LOCATION Aux. Bldg.									
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE Construction	10. CONTRACTOR/SUPPLIER N/A								
11. INSPECTION CRITERIA ☒ DWG ☐ SPEC ☐ OTHER		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: Drawing E-42 Rev. 31, Sh. 100, Note 3.E states in part: "using the following torque values: 1/2" ASTM A325 Bolts 105 ft/lb." Contrary to the above, the A325 Bolts on seismic supports in various locations and elevations of the Aux. Bldg. were Torqued/Tested to less than 105 ft/lb using Torque Wrench #BPC 2365. This wrench was found out of calibration, low by a value of 10 ft/lb. The required accuracy for this wrench is ±8 ft/lb CW. Continued on page 2.				24. DISPOSITION CONCURRENCE <table border="1"><tr><td>rework</td><td>reject</td><td>repair</td><td>use as is</td></tr><tr><td>☒</td><td>☐</td><td>☐</td><td>☐</td></tr></table> PROJECT FIELD ENGINEER DATE P.R. Brown 5/16/78 PROJECT ENGINEER DATE PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE		rework	reject	repair	use as is	☒	☐	☐	☐
rework	reject	repair	use as is										
☒	☐	☐	☐										
17. REPORTED BY K.W. Brown		DATE 5-16-78		18. VALIDATED BY OC J.R. Tibbels									
DATE 5-17-78		19. ROUTING: ☐ TO FIELD ENGINEERING ☒ TO OTHERS (SPECIFY) BY 8-11-78		25. DISPOSITION RESULTS The 1/2" A325 bolts were retorqued per E-42 Rev. 33 Sh. 100-35 and Spec. C-304, and documented on the attached Bolting Inspection Records. During retorquing, it was discovered that IR E2.1-37a was not affected by this NCR, but IR E2.1-33a was. E2.1-33a was reinspected per the continued on page 2.									
22. Field Engineering Disposition ☐ Field Engineering Recommended Disposition to Project Engineering Disposition Reg. 802 BY 8-11-78 Field must re-torque the referenced bolts to 105 ft/lb. See 8-7-78 J.M. P. 8-7-78 J.M. P. 8-7-78 J.M. P. 8-7-78 J.M. P. 8-7-78 Field Engineering NCR-1352 "Use As Is" 8-7-78		SEE PAGE TWO		26. QC ACCEPTANCE QC ENGINEER DATE AUTHORIZED INSPECTOR DATE									
23. PROJECT ENGINEERING DISPOSITION Project Engineering has evaluated the conditions described in Block 16 and has determined that the subject 1/2" ASTM A 325 bolts shall be retorqued to the specified value. M.D. Rives BY J. Richardson be reinspected in accordance with 9-18-78 REM #E-897 Spec. C-304. M.D. Rives 9-21-78 R. Schulman 9-22-78 J.R. REME-916 DATE: 9-22-78		DATE: 9-18-78		27. AUTHORIZED INSPECTOR DATE									

Continued from page 1, block 16.

The following is a list of the Inspection Records covering the supports on which this wrench was used:

E2.1 - 11	E2.1 - 29	E2.1 - 46	E2.1 - 122	E2.1 - 126	E2.1 - 30a
E2.1 - 15	E2.1 - 39	E2.1 - 88	E2.1 - 124	E2.1 - 149	E2.1 - 31a
E2.1 - 28	E2.1 - 42	E2.1 - 108	E2.1 - 125	E2.1 - 27a	E2.1 - 34a
E2.1 - 45					

64 Hold tags applied.

Hold for engineering disposition.

Q-list #3.005.

Block 22 Continued:

Field Engineering recommends ~~REPAIR~~ "Use As Is". The actual torque value falls in the calibration range of the wrench. We have still maintained structural reliability.

Bruce Matthews 8-7-78

BLOCK 25 CONTINUED:

above criteria, and the Bolting Inspection Record is included. (A Type 8 hanger at ELEV 599', 13 Ft. West of G.6 line and 1 Ft. South of G. Line, identified on IR E2.1-45, had a longitudinal brace removed due to pipe interference. There is no attached Bolting Inspection Record for IR E2.1-45 because no other supports on it were affected by this N.E.R.)

Kenneth J. Brimster 9-27-78



NONCONFORMANCE REPORT (CONT'D)

1. PAGE 3 OF 814. NCR NO. 1352

22 JAN 7-27-75

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
X			
PROJECT FIELD ENGINEER		DATE	
P.K. Barman / RLC		9-22-78	
PROJECT ENGINEER		DATE	
J. W. Barclay		9-27-78	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

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

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

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

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

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

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

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

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

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

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

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

Torque Wrench

BPC 243.1

was checked on
9-26-78 & is
within Tolerance

Stacy Conklin

Cal. Lab.

NCR No. 1352

Pg 4 of 22

File No. _____
QCIR No. 52.1-11
Lo' No. 4342
Page 1 of 18

DATE 9-28-78

Page 1 of 18

1. 700-35	5. N/A	9. N/A
2. 700-39	6. N/A	10. N/A
3. 700-40	7. N/A	11. N/A
4. N/A	8. N/A	12. N/A

NCTE:

G. Harmon

File No. _____
QCTR No. E2.1 - 15
Log No. 4427
Page 2 of 15

QCE 500-70 DATE 7-22-75

③	ITEM
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1. <u>70 G - 16</u>	5. <u>N/A</u>	9. <u>N/A</u>
2. <u>70 G - 17</u>	6. <u>N/A</u>	10. <u>N/A</u>
3. <u>70 G - 18</u>	7. <u>N/A</u>	11. <u>N/A</u>
4. <u>N/A</u>	8. <u>N/A</u>	12. <u>N/A</u>

Item No.	Act. No.	Calibrated Instr. No.	Cal. Due Date	Torque Val		< 2 bolts/conn or min. 10%	QCE Accept.	Remarks
				A307	A325			
1	25	BPC-2431	11/79	A325 1/2" F 165 FT LBS		100% of 10	KB 7-22-78	
2	25	BPC-2431		A325 1/2" F 165 FT LBS		100% of 12	KB 9-20-78	
3	25	BPC-2431		A325 1/2" F 165 FT LBS		100% of 4	KB 9-22-78	
4								
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NOTES:

WIL NO. 1552 Pg. 6

⑬ Reviewed By G. Hoffman

BOLTING INSPECTION RECORD
FOR ELECTRICAL INSTALLATION

① File No. _____
QCIR No. F 2.1-28
Log No. 4907
Page 3 of 18

② QCE 850070 DATE 7-25-78

③ ITEM

1. <u>712-5</u>	5. <u>N/A</u>	9. <u>N/A</u>
2. <u>712-6</u>	6. <u>N/A</u>	10. <u>N/A</u>
3. <u>N/A</u>	7. <u>N/A</u>	11. <u>N/A</u>
4. <u>N/A</u>	8. <u>N/A</u>	12. <u>N/A</u>

Item No.	Act. No.	Calibrated Instr. No.	Cal. Due Date	Torque Val		2 bolts/conn or min. 10%	QCE Accept.	Remarks
				A307	A325			
1	2-5	BPC 2431	1/1/79	A325 1/2" ϕ	105 FT LBS	100% of 4	9-25-78 J/S	
2	2-5	BPC 2431	1/1/79	A325 1/2" ϕ	105 FT LBS	100% of 4	7-25-78 J/S	
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④ NOTE:

⑤ Reviewed By G. Hoffmann

NCR NO. 1852 Pg 7

BOLTING INSPECTION RECORD
FOR ELECTRICAL INSTALLATION

File No. _____
QCIR No. E2-1-29
Log No. 4965
Page 4 of 14

QCE 58-1-2431 DATE 9-25-78

ITEM

1. <u>7/2-7</u>	5. <u>N/A</u>	9. <u>N/A</u>
2. <u>N/A</u>	6. <u>N/A</u>	10. <u>N/A</u>
3. <u>N/A</u>	7. <u>N/A</u>	11. <u>N/A</u>
4. <u>N/A</u>	8. <u>N/A</u>	12. <u>N/A</u>

Item No.	Act. No.	Calibrated Instr. No.	Cal. Due Date	Torque Val		< 2 bolts/conn or min. 10%	QCE Accept.	Remarks
				A307	A325			
1	25	BPC 2431	1/11/79	A325 1/2" ϕ	1.5 FT LBS	100% OK 2	9-25-78 -KB	
2								
3								
4								
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6								
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10								
11								
12								

NOTE:

Reviewed By G. Hoffman

NCR NO. 1352 Pg 8

File No. _____
QCIR No. 12.1 - 37
Log No. 5446
Page 5 of 18

Page 5 of 18

1. 711 - 5	5. N/A	9. N/A
2. 711 - 6	6. N/A	10. N/A
3. 711 - 12	7. N/A	11. N/A
4. 711 - 13	8. N/A	12. N/A

NOTE:

⑬ Reviewed By G. Hoffman

BOLTING INSPECTION RECORD
FOR ELECTRICAL INSTALLATION

File No. _____
QCIR No. E2-1-88
Log No. 8433
Page 6 of 18

QCE 3.5mm/75 DATE 9-25-78

ITEM

- | | | |
|------------------|------------------|-----------------------|
| 1. <u>717-24</u> | 5. <u>717-30</u> | 9. <u>717-34</u> |
| 2. <u>717-18</u> | 6. <u>717-31</u> | 10. <u>717-36 + F</u> |
| 3. <u>717-28</u> | 7. <u>717-32</u> | 11. <u>717-36 + F</u> |
| 4. <u>717-29</u> | 8. <u>717-33</u> | 12. <u>N/A</u> |

Item No.	Act. No.	Calibrated Instr. No.	Cal. Due Date	Torque Val		42 bolts/conn or min. 10%	QCE Accept.	Remarks
				A307	A325			
1	2.5	BPC 2431	11/1/79	A325 1/2" Ø	105 FT LBS	100% of 10	3.5 9-25-78	
2	2.5	BPC 2431	11/1/79	A325 1/2" Ø	105 FT LBS	100% of 1	3.5 9-25-78	
3	2.5	BPC 2431	11/1/79	A325 1/2" Ø	105 FT LBS	100% of 12	3.5 9-25-78	
4	2.5	BPC 2431	11/1/79	A325 1/2" Ø	105 FT LBS	100% of 10	3.5 9-25-78	
5	2.5	BPC 2431	11/1/79	A325 1/2" Ø	105 FT LBS	100% of 2	3.5 9-25-78	
6	2.5	BPC 2431	11/1/79	A325 1/2" Ø	105 FT LBS	100% of 2	3.5 9-25-78	
7	2.5	BPC 2431	11/1/79	A325 1/2" Ø	105 FT LBS	100% of 2	3.5 9-25-78	
8	2.5	BPC 2431	11/1/79	A325 1/2" Ø	105 FT LBS	100% of 2	3.5 9-25-78	
9	2.5	BPC 2431	11/1/79	A325 1/2" Ø	105 FT LBS	100% of 10	3.5 9-25-78	
10	2.5	BPC 2431	11/1/79	A325 1/2" Ø	105 FT LBS	100% of 10	3.5 9-25-78	
11	2.5	BPC 2431	11/1/79	A325 1/2" Ø	105 FT LBS	100% of 6	3.5 9-25-78	
12								

NOTE:

Reviewed By G. Hoffman

BOLTING INSPECTION RECORD
FOR ELECTRICAL INSTALLATION

File No. _____
QCIR No. E2-1-46
Log No. 5921
Page 7 of 15

QCE 7/1/78

DATE 9-25-78

ITEM

1. <u>713-37</u>	5. <u>N/A</u>	9. <u>N/A</u>
2. <u>N/A</u>	6. <u>N/A</u>	10. <u>N/A</u>
3. <u>N/A</u>	7. <u>N/A</u>	11. <u>N/A</u>
4. <u>N/A</u>	8. <u>N/A</u>	12. <u>N/A</u>

Item No.	Act. No.	Calibrated Instr. No.	Cal. Due Date	Torque Val		42 bolts/conn or min. 10%	QCE Accept.	Remarks
1	2-5	BPC 2431	11/1/77	A307	A325	A325 1/2" F 165 FT LBS	3/5 9-25-78	
2								
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5								
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NOTES:

Reviewed By G. Hoffman

BOLTING INSPECTION RECORD
FOR ELECTRICAL INSTALLATION

File No. _____
QCIR No. 82-1-13
Log No. 8-191
Page 8 of 15

QCE 7220-23 DATE 9-25-78

ITEM

1. <u>716-2</u>	5. <u>N/A</u>	9. <u>N/A</u>
2. <u>716-3</u>	6. <u>N/A</u>	10. <u>N/A</u>
3. <u>N/A</u>	7. <u>N/A</u>	11. <u>N/A</u>
4. <u>N/A</u>	8. <u>N/A</u>	12. <u>N/A</u>

Item No.	Act. No.	Calibrated Instr. No.	Cal. Due Date	Torque Val		< 2 bolts/conn or min. 10%	QCE Accept.	Remarks
				A307	A325			
1	25	RPL 2431	10/1/79	A325 1/2" x 10.5 FT 105		100% of 3	9-25-78 JB	
2	25	RPL 2431	10/1/79	A325 1/2" x 10.5 FT 105		100% of 3	9-25-78 JB	
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NOTES:

Reviewed By G. Hoffmann

NCR NO. 1352 Pg 12

BOLTING INSPECTION RECORD
FOR ELECTRICAL INSTALLATION

File No. _____
QCIR No. 521-132
Log No. 10554
Page 9 of 18

QCE 532-572 DATE 7-25-78

1. <u>710-35</u>	5. <u>N/A</u>	9. <u>N/A</u>
2. <u>710-36</u>	6. <u>N/A</u>	10. <u>N/A</u>
3. <u>710-37</u>	7. <u>N/A</u>	11. <u>N/A</u>
4. <u>710-38</u>	8. <u>N/A</u>	12. <u>N/A</u>

Item No.	Act. No.	Calibrated Instr. No.	Cal. Due Date	Torque Val		2 bolts/conn or min. 10%	QCE Accept.	Remarks
				A307	A325			
1	2-5	RPC 2431	7/1/79	A325 1/2" x 10.5 FT LBS		100% of 3	7-25-78 RB	
2	2-5	RPC 2431	7/1/79	A325 1/2" x 10.5 FT LBS		100% of 3	7-25-78 RB	
3	2-5	RPC 2431	7/1/79	A325 1/2" x 10.5 FT LBS		100% of 3	7-25-78 RB	
4	2-5	RPC 2431	7/1/79	A325 1/2" x 10.5 FT LBS		100% of 3	7-25-78 RB	
5								
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12								

NOTE:

Reviewed By G. Hoffman

File No. _____
QCIR No. 121-124
Log No. 10550
Page 10 of 15

QCE 7-3-1975

DATE 9-25-75

Page 10 of 18

1. 710-30	5. N/A	9. N/A
2. 710-32	6. N/A	10. N/A
3. 710-33	7. N/A	11. N/A
4. N/A	8. N/A	12. N/A

Item No.	Act. No.	Calibrated Instr. No.	Cal. Due Date	Torque Val		42 bolts/conn or min. 10%	QCE Accept.	Remarks
				A307	A325			
1	25	BPC 2431	4/1/79	A325 1/2" x 105 FT LBS		100% of 2	7-25-75 75	
2	25	BPC 2431	4/1/79	A325 1/2" x 105 FT LBS		100% of 11	7-25-75 75	
3	25	BPC 2431	4/1/79	A325 1/2" x 105 FT LBS		100% of 11	7-25-75 75	
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(19) NCTE:

⑫ Reviewed By G. Halpmon

NCR No. 1352 Pg 17

BOLTING INSPECTION RECORD
FOR ELECTRICAL INSTALLATION

File No. _____
QCIR No. 521.1.5
Log No. 10957
Page 11 of 18

QCE 545 DATE 9-25-78

ITEM

1. <u>7/2 - 2.9</u>	5. <u>N/A</u>	9. <u>N/A</u>
2. <u>N/A</u>	6. <u>N/A</u>	10. <u>N/A</u>
3. <u>N/A</u>	7. <u>N/A</u>	11. <u>N/A</u>
4. <u>N/A</u>	8. <u>N/A</u>	12. <u>N/A</u>

Item No.	Act. No.	Calibrated Instr. No.	Cal. Due Date	Torque Val		< 2 bolts/conn or min. 10%	QCE Accept.	Remarks
				A307	A325			
1	25	BTC 243		A325 1/2"	105 FT LBS	100% of 11	9-25-78 JB	
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9								
10								
11								
12								

NOTE:

Reviewed By G. Hoffmann

NCR No. 1352 Pg 15 of

P. # 13 of 15

QCE

DATE 9-25-75

ITEM

716-17

3. _____

10. R/A

2. 710 - 18

6. 12/110. 15. 12. 21

710 - 10

7. *112*

11. _____

3. 716-2

8. 11/11

12. _____

① NCTS:

⑫

Reviewed By

G. Hoffman

① File No. _____
QCIR No. EC-1-145
Log No. 14513
Page 13 of 18

ITEM		
1. 7/16 - 5/8	5. 1/2	9. 11/16
2. 1/4	6. 1/16	10. 1/16
3. 1/16	7. 1/16	11. 1/16
4. 1/16	8. 1/16	12. 1/16

Item No.	Act. No.	Calibrated Instr. No.	Cal. Due Date	Torque Val		42 bolts/conn or min. 10%	QCE Accept.	Remarks
				A307	A325			
1	25	BPC-2431	11/74	4315 1/2" ϕ	105 FT LBS	100% OK 1	9-25-76 F.B.	
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

NOTE:

NCR NO. 1352 Pg 17 of 18

⑫ Reviewed By G. Hoffmann

File No. _____
QCIR No. PC 1-27a
Log No. 7687
Page 14 of 15

DATE 7-26-78

1. 712-3	5. N/A	9. N/A
2. N/A	6. N/A	10. N/A
3. N/A	7. N/A	11. N/A
4. N/A	8. N/A	12. N/A

Item No.	Act. No.	Calibrated Instr. No.	Cal. Due Date	Torque Val		42 bolts/conn or min. 10%	QCE Accept.	Remarks
				A307	A325			
1	25	BPC 2431	1/11/78	A325 1/2" F 105 FT/LB		100 % of 2	9-26-78 323	
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

(12) NOTE:

⑬ Reviewed By G. Hoffmann

NCR NO 1552 Pg. 18 of

BOLTING INSPECTION RECORD
FOR ELECTRICAL INSTALLATION

File No. _____
QCIR No. 7220-1352
Log No. 769
Page 15 of 18

QCE 7220-1352 DATE 7-26-78

ITEM		
1. <u>712-9</u>	5. <u>N/A</u>	9. <u>N/A</u>
2. <u>N/A</u>	6. <u>N/A</u>	10. <u>N/A</u>
3. <u>N/A</u>	7. <u>N/A</u>	11. <u>N/A</u>
4. <u>N/A</u>	8. <u>N/A</u>	12. <u>N/A</u>

Item No.	Act. No.	Calibrated Instr. No.	Cal. Due Date	Torque Val		42 bolts/conn or min. 10%	QCE Accept.	Remarks
				A307	A325			
1	2-5	BPC 2431	4/11/79	A325 1/2" x 1.5 FT 165		100% CF 4	9-26-78 KB	
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

NOTE:

Reviewed By G. Hoffman

NCR NO. 1352 8/11/78

BOLTING INSPECTION RECORD
FOR ELECTRICAL INSTALLATION

File No. _____
 QCIR No. E2.1-312
 Log No. 7691
 Page 13 of 18

QCE 381-1-10 DATE 9-26-78

ITEM

1. <u>7/2 8</u>	5. <u>N/A</u>	9. <u>N/A</u>
2. <u>N/A</u>	6. <u>N/A</u>	10. <u>N/A</u>
3. <u>N/A</u>	7. <u>N/A</u>	11. <u>N/A</u>
4. <u>N/A</u>	8. <u>N/A</u>	12. <u>N/A</u>

Item No.	Act. No.	Calibrated Instr. No.	Cal. Due Date	Torque Val		2 bolts/conn or min. 10%	QCE Accept.	Remarks
				A307	A325			
1	25	BPC 2431	1/11/77	4325 1/2"	105 FT LBS	KC 70 of 4	9-26-78 JB	
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

NOTE:

Reviewed By G. Hoffmann

NCR NO 1552 8920

BOLTING INSPECTION RECORD
FOR ELECTRICAL INSTALLATION

File No. _____
QCIR No. 501-380
Log No. 7693
Page 17 of 18

QCE 753-1111 DATE 9-26-78

ITEM

1. <u>712-11</u>	5. <u>N/A</u>	9. <u>N/A</u>
2. <u>N/A</u>	6. <u>N/A</u>	10. <u>N/A</u>
3. <u>N/A</u>	7. <u>N/A</u>	11. <u>N/A</u>
4. <u>N/A</u>	8. <u>N/A</u>	12. <u>N/A</u>

Item No.	Act. No.	Calibrated Instr. No.	Cal. Due Date	Torque Val		42 bolts/conn or min. 10%	QCE Accept.	Remarks
				A307	A325			
1	2	BPC 2751	7/11/79	4305 1/2"	105 FT LBS	100% of 2	4-26-78 KB	
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

NOTE:

Reviewed By G. Hoffma

NCR NO. 1352 of 21

① File No. _____
QCIR No. 571-42
Log No. 5560
Page 18 of 18

QCE 3.32 meter

DATE 9-26-78

Page 18 of 18

③ ITEM	DATE	DESCRIPTION	AMOUNT
1	1/1/19	...	...
2	1/1/19	...	...
3	1/1/19	...	...
4	1/1/19	...	...
5	1/1/19	...	...
6	1/1/19	...	...
7	1/1/19	...	...
8	1/1/19	...	...
9	1/1/19	...	...
10	1/1/19	...	...
11	1/1/19	...	...
12	1/1/19	...	...
13	1/1/19	...	...
14	1/1/19	...	...
15	1/1/19	...	...
16	1/1/19	...	...
17	1/1/19	...	...
18	1/1/19	...	...
19	1/1/19	...	...
20	1/1/19	...	...
21	1/1/19	...	...
22	1/1/19	...	...
23	1/1/19	...	...
24	1/1/19	...	...
25	1/1/19	...	...
26	1/1/19	...	...
27	1/1/19	...	...
28	1/1/19	...	...
29	1/1/19	...	...
30	1/1/19	...	...
31	1/1/19	...	...
32	1/1/19	...	...
33	1/1/19	...	...
34	1/1/19	...	...
35	1/1/19	...	...
36	1/1/19	...	...
37	1/1/19	...	...
38	1/1/19	...	...
39	1/1/19	...	...
40	1/1/19	...	...
41	1/1/19	...	...
42	1/1/19	...	...
43	1/1/19	...	...
44	1/1/19	...	...
45	1/1/19	...	...
46	1/1/19	...	...
47	1/1/19	...	...
48	1/1/19	...	...
49	1/1/19	...	...
50	1/1/19	...	...
51	1/1/19	...	...
52	1/1/19	...	...
53	1/1/19	...	...
54	1/1/19	...	...
55	1/1/19	...	...
56	1/1/19	...	...
57	1/1/19	...	...
58	1/1/19	...	...
59	1/1/19	...	...
60	1/1/19	...	...
61	1/1/19	...	...
62	1/1/19	...	...
63	1/1/19	...	...
64	1/1/19	...	...
65	1/1/19	...	...
66	1/1/19	...	...
67	1/1/19	...	...
68	1/1/19	...	...
69	1/1/19	...	...
70	1/1/19	...	...
71	1/1/19	...	...
72	1/1/19	...	...
73	1/1/19	...	...
74	1/1/19	...	...
75	1/1/19	...	...
76	1/1/19	...	...
77	1/1/19	...	...
78	1/1/19	...	...
79	1/1/19	...	...
80	1/1/19	...	...
81	1/1/19	...	...
82	1/1/19	...	...
83	1/1/19	...	...
84	1/1/19	...	...
85	1/1/19	...	...
86	1/1/19	...	...
87	1/1/19	...	...
88	1/1/19	...	...
89	1/1/19	...	...
90	1/1/19	...	...
91	1/1/19	...	...
92	1/1/19	...	...
93	1/1/19	...	...
94	1/1/19	...	...
95	1/1/19	...	...
96	1/1/19	...	...
97	1/1/19	...	...
98	1/1/19	...	...
99	1/1/19	...	...
100	1/1/19	...	...

1. <u>712 - 14</u>	5. <u>N/A</u>	9. <u>N/A</u>
2. <u>712 - 15</u>	6. <u>N/A</u>	10. <u>N/A</u>
3. <u>712 - 17</u>	7. <u>N/A</u>	11. <u>N/A</u>
4. <u>N/A</u>	8. <u>N/A</u>	12. <u>N/A</u>

Item No.	Act. No.	Calibrated Instr. No.	Cal. Due Date	Torque Val		42 bolts/conn or min. 10%	QCE Accept.	Remarks
				A307	A325			
1	2-5	BPC-2431	1/11/79	A325 1/2" Ø 105 FT LBS		100% of 12	9-26-78 KB	
2	2-5	BPC-2431	1/11/79	A325 1/2" Ø 105 FT LBS		100% of 4	9-26-78 KB	
3	2-5	BPC-2431	1/11/79	A325 1/2" Ø 105 FT LBS		100% of 2	9-26-78 KB	
4								
5								
6								
7								
8								
9								
10								
11								
12								

NOTE:

⑬ Reviewed By G. Holman

NCK NO. 1552
Pg 22



NONCONFORMANCE REPORT

1. PROJECT NAME <i>MIDLAND</i>		JOB NO. <i>07220</i>		19. NO. <i>1363</i>	20. PAGE <i>1 OF 1</i>
2. UNIT(S) <i>2</i>	3. DRAWING/PART NO. <i>C-651(9)</i>	REV <i>9</i>	4. ITEM DESCRIPTION <i>ANGLE TO E-3 EMBED FILLET WELD CONT. 2. EL. 620'</i>	5. ITEM LOCATION <i>W24X76</i>	
6. P.O. OR SPEC NO. <i>N/A</i>	7. SERIAL NO. <i>N/A</i>	8. REPLACEMENT PART P/N <i>N/A</i> REV <i>2</i>	SER NO. <i>N/A</i>	9. SOURCE <i>CONST.</i>	10. CONTRACTOR/SUPPLIER <i>N/A</i>
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. <i>C-304-448</i> NO. <i>C-304</i>	12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec'g (X) Const () Test
15. Equip Furnished By () Client (X) Eng () FLD					
16. NONCONFORMING CONDITION: <i>DRAWING C-651 REV. 9 DETAILS THE ANGLE-TO-E-3 EMBED TO BE WELDED WITH A 5/16" FILLET WELD.</i> <i>CONTRARY TO THE ABOVE THE SOUTH ANGLE-TO-E-3 EMBED RECEIVED A 1/4" UNDERSIZE FILLET WELD FOR 15% OF ITS 16" TOTAL WELD LENGTH, AWS D1.1 ALLOWING 10% UNDERSIZE FOR THE TOTAL LENGTH. HOLD FOR ENG DISPOSITION. WILL LIST NO. 1402. I HOLD TAG APPLIED.</i>				24. DISPOSITION CONCURRENCE rework ☒ reject ☐ repair ☐ use as is ☐ <i>G. P. Wilson</i> <i>5-31-78</i> PROJECT FIELD ENGINEER DATE <i>G. P. Wilson</i> <i>5-31-78</i> PROJECT ENGINEER DATE <i>G. P. Wilson</i> <i>5-31-78</i> PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE	
17. REPORTED BY <i>J. C. Wilson</i> <i>5/25/78</i>		DATE <i>5/25/78</i>		18. VALIDATED BY <i>G. P. Wilson</i> <i>5/29/78</i>	
DATE <i>5/29/78</i>				25. DISPOSITION RESULTS <i>Work was satisfactorily accomplished per AWS D1.1 and Specification C-304 Rev. 3.</i> <i>G. P. Wilson</i> <i>5/29/78</i>	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering <i>The undersize welds are to be reworked to conform with the requirements of AWS D1.1 and Specification C-304 Rev. 3.</i> <i>Approved: [Signature] 5/31/78</i> <i>Grant 5/31/78</i>					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE <i>G. P. Wilson</i> <i>5/29/78</i> QC ENGINEER DATE AUTHORIZED INSPECTOR DATE					

Corrected Copy

NONCONFORMANCE REPORT

8-25-78
2. 688-8-78

1. PROJECT NAME Midland			JOB NO. 7220			19. NO. 1393		20. PAGE 1 OF 1									
2. UNI. (S) 1 & 2		3. DRAWING/PART NO. E750 sh. 1		REV 3		4. ITEM DESCRIPTION Cable tray hanger		5. ITEM LOCATION Containment #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 Constr.		10. CONTRACTOR/SUPPLIER N/A									
11. INSPECTION CRITERIA ☒ DWG ☐ SPEC ☐ OTHER			IR NO. E2.1 - 115 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: Cable tray hangers located approximately 5 1/2' North and South of column #5 - 90° Cmt. #2 el. 608'10 1/2" do not have vertical legs installed as per Detail 6 Drawing E750 sh. 2.									24. DISPOSITION CONCURRENCE								
									<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>rework</td> <td>reject</td> <td>repair</td> <td>use as is</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align: center;">☒</td> </tr> </table>	rework	reject	repair	use as is				☒
rework	reject	repair	use as is														
			☒														
O-list #3.006.																	
2 Hold tags applied to hanger in containment #2.																	
Hold for engineering disposition.																	
17. REPORTED BY <i>Ray J. Hilly</i>			DATE 8-22-78		18. VALIDATED BY <i>W. Barclay</i>		DATE 7-26-78										
21. ROUTING: ☒ TO FIELD ENGINEERING ☐ TO OTHERS (SPECIFY)									8-18-78								
22. ☐ Field Engineering Disposition ☒ Field Engineering Recommended Disposition to Project Engineering									DISPOSITION REQUESTED BY								
Field Engineering recommends Use As Is based on following criteria: The vertical legs of the two hangers referenced above were not able to be wt welded according to detail 6 of drawing E-750 Sheet 2 because of pipe and insulation requirements of 6" @ 2HBD-448 & 6"2HBD-449. The angle iron extensions were added as per detail 6, however, the power start were unable to clear the Cont. on pg. 2																	
23. PROJECT ENGINEERING DISPOSITION Project Engineering has evaluated the condition described in Blocks 16 & 22 and concludes the welds are acceptable and may be used as is. Please note that REM E-182 did not set a precedent for this type of weld. Welds of this type shall be evaluated on a case by case basis.																	
<i>J. D. Power</i> 8-24-78 REM E-838 <i>J. Richardson</i> 8-24-78 8-29-78																	
26. QC ACCEPTANCE <i>Robert L. Jones</i>									8/30/78								
QC ENGINEER									DATE								
AUTHORIZED INSPECTOR									DATE								

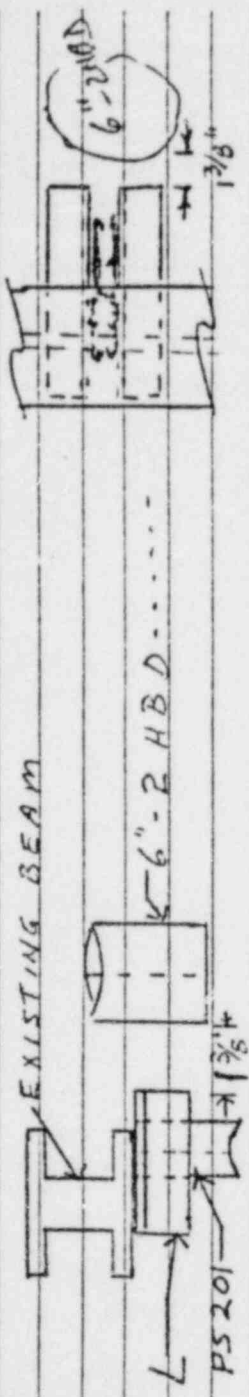
208-3-18

1. PAGE 2 OF 2

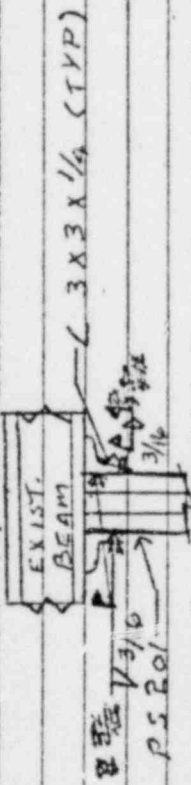
NONCONFORMANCE REPORT (CONT'D)

Block 22 Continued:

beam as shown:



Because we were unable to weld the top of the strut we welded inside vertically as follows:



Procedure Procedure was set for this weld by G. L. Strong to R. L. Harrison Memo 12/16/77 with resulting REM E-182 dated 12-21-77 (copy attached) Field Civil Engineering also concurs with welds as installed.

Handwritten signature: *Handwritten signature* 9/8/78
Block 22 Continued E-182

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



NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1398	20. PAGE 1 OF 2	
2. UNIT(S) Common	3. DRAWING/PART NO. C-95	REV 2	4. ITEM DESCRIPTION Mislocated Anchor bolts	5. ITEM LOCATION SWPS @ 658'-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. N/A NO. C-95 2	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. C-95 12 shows anchor bolts, to fasten Precast Panels, S-3 & S-4, to be 2'-8 3/4" and 2'-11 3/4" apart respectively. Contrary to this, location of anchor bolts, for 14 of these panels, is 3" off location Hold for Eng. Disposition, 14 Hold tag applied, Q listed #1.502 d. 658' applied to anchor bolts				24. DISPOSITION CONCURRENCE rework ☐ reject ☐ repair ☒ use as is ☒ PROJECT FIELD ENGINEER DATE 7-13-78 S. K. Basimani/RLC 7-15-78 PROJECT ENGINEER DATE PROJ CONSTR. ENGINEER DATE AUTHORIZED INSPECTOR DATE		
17. REPORTED BY Stephen P. Gault		DATE 6/29/78	18. VALIDATED BY T. B. Barclay		DATE 6/29/78	
21. ROUTING: ☒ TO FIELD ENGINEERING ☐ TO OTHERS (SPECIFY)				25. DISPOSITION RESULTS Anchor lugs on the precast panels were re-located and documented on OCTR C-2-20-600. Alan Y. Feisby 9/19/78 Paint touched up as prescribed in block #23. SQ 9/19/78		
22. ☐ Field Engineering Disposition ☒ Field Engineering Recommended Disposition to Project Engineering Disposition req by: 7/12/78 The field recommends that the anchor bolts be "used as is" and relocate the anchor lugs on the precast panels to match the location of the embedded anchor bolts. This will place the lugs on the centerline of the panel dimension as shown for panels S-3 and S-4 on drawing C-95. THE REPAIR WILL BE DONE IN ACCORDANCE WITH SPEC. C-304. S. J. Johnson 7/21/78 J. B. Brels 7/7/78				26. PROJECT ENGINEERING DISPOSITION Project Engineering has evaluated the above described conditions and concurs with the Field Engineering recommended disposition that the anchor bolts be "Used As Is" and that the anchor lugs on the precast panels be relocated to match the anchor bolts. Paint repaired area with galvanox. REPAIR WORK TO BE PER SPEC C-304 AS NOTED. PS 7-14-78 M. D. Reeves RB 7-13-78 REM C-1567		
23. PROJECT ENGINEERING DISPOSITION Project Engineering has evaluated the above described conditions and concurs with the Field Engineering recommended disposition that the anchor bolts be "Used As Is" and that the anchor lugs on the precast panels be relocated to match the anchor bolts. Paint repaired area with galvanox. REPAIR WORK TO BE PER SPEC C-304 AS NOTED. PS 7-14-78 M. D. Reeves RB 7-13-78 REM C-1567				26. PROJECT ENGINEERING DISPOSITION QC ENGINEER AUTHORIZED INSPECTOR DATE 9/14/78		

NONCONFORMANCE REPORT (CONT'D)

1. PAGE 2 OF 2

14. NCR NO. 1398

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
		X	X
PROJECT FIELD ENGINEER		DATE 7-17-78	
PROJECT ENGINEER		DATE 1-17-78	
PROJECT CONSTR QC ENGINEER		DATE 7-19-78	
AUTHORIZED INSPECTOR		DATE	

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

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

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

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

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

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

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

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

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

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

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



Corrected Copy

NONCONFORMANCE REPORT

1. PROJECT NAME Midland Project, Units 1&2			JOB NO. 7220			19. NO. 1401		20. PAGE 1 OF 1					
2. UNIT(S) 1&2		3. DRAWING/PART NO. N/A		REV N/A		4. ITEM DESCRIPTION 1" Sch 160 Stainless Steel Pipe			5. ITEM LOCATION Combo Shop				
6. P.O. OR SPEC NO. N/A		7. SERIAL NO. UNKNOWN		8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE Procurement		10. CONTRACTOR/SUPPLIER N/A					
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER			IR NON/A NOM-204 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 (X) FLD		
16. NONCONFORMING CONDITION: Specification M-204 Rev. 8, Para. 4.1.3 Sub. (C) states that each pipe or tube shall be marked with a marking roller which will imprint the heat number or heat code at regular intervals in a continuous stripe for its entire length. Contrary to the above, (2) pieces of 1" sch 160 stainless steel pipe, approx. 20' long has the above traceability missing. Hold for Eng. disposition. (2) Hold Tags applied to pipe. (see pg. 2 for continuation)										24. DISPOSITION CONCURRENCE rework ☒ reject ☒ repair ☐ USD AS IS ☐ PROJECT FIELD ENGINEER <i>[Signature]</i> DATE 9-1-78 PROJECT ENGINEER <i>[Signature]</i> DATE 9-5-78 PROJ CONSTR QC ENGINEER <i>[Signature]</i> DATE AUTHORIZED INSPECTOR <i>[Signature]</i> DATE			
17. REPORTED BY <i>Chuck Groat</i> DATE 7-7-78										18. VALIDATED BY <i>[Signature]</i> DATE 8-11-78		25. DISPOSITION RESULTS Pipe placed on the non-Q stock rack in Combo shop and also was marked non-Q. Disposition completed satisfactory.	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)										22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering Pipe to be placed in Non "Q" stock. An 8' piece was inadvertently used on line #1"-2HCD-81 shown on ISO #FSK-M-2CCB-32.1. Balance of pipe to be used for Non "Q" application. <i>Robert D. MacDonald</i> 9-1-78 <i>R Ward</i> 9/1/78 <i>C. Groat</i> 9-7-78			
23. PROJECT ENGINEERING DISPOSITION										26. QC ACCEPTANCE <i>[Signature]</i> 9-7-78 QC ENGINEER <i>[Signature]</i> DATE AUTHORIZED INSPECTOR <i>[Signature]</i> DATE			

Block 16. (CONT)

The original two (2) 20' pieces of 1" sch. 160 stainless steel pipe, which is being held in the combo shop for dispositioning, has had approx. an 8' piece cut and removed from one of them, leaving 13' 7 1/2" behind. East A. Nelson & Co.

L. Brown
9.11.78



NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 11403	20. PAGE 1 OF 1
2. UNIT(S) Common	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION Concrete	5. ITEM LOCATION El. 693 Aux. Bldg. Wall 1A	
6. P.O. OR SPEC NO. C-230, Rev. 12	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-1.30-594 NO. C-230, Rev. 12		12. SME 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: Specification C-230, Rev. 12, Table 9.1 states in part.... "When using a D-1 mix design the slump rejection limit is five inches." Contrary to the above, approx. 6 cubic yards of concrete was placed with a slump at EOL of 5 3/4" into concrete placement A(693.75)b'. Hold for Engineering Disposition. 1 Hold Tag Applied. "Q"-Listed #1.205. Hold tag applied @ 9.1 & 'K' line Note: total cy. in placement 142 ^{31/11}				24. DISPOSITION CONCURRENCE rework ☐ reject ☐ repair ☐ use as is ☒ PROJECT FIELD ENGINEER <i>R. Bauman</i> 9-12-78 PROJECT ENGINEER <i>R. Bauman</i> 9-5-78 PROJ CONSTR QC ENGINEER <i>R. Bauman</i> 9-15-78 AUTHORIZED INSPECTOR _____ DATE _____	
17. REPORTED BY <i>Stephen D. Gallett</i>		DATE 7/7/78		18. VALIDATED BY <i>R. Bauman</i> 7/10/78	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering Disposition Required By 8-7-78 "Use As Is" Ticket No. 27917 representing 6 cubic yards of D-1 Concrete placed at Auxiliary Building wall 1A to El. 693.75' resulted in a nonconforming E.O.L. slump of 5 3/4". Concrete placed prior to this high slump load was noted to be well below the rejection unit by visual inspection. Also, the load following the high slump load was tested yielding an E.O.L. slump of 4". See Page 2					
23. PROJECT ENGINEERING DISPOSITION Concrete with high slump will tend to have lower compressive strength and reduced durability. Based on 7 and 28 day strength tests, it is anticipated that the 90 day compressive strength will meet design requirements. For the location of the re- ferenced pour the effect of reduced durability will be insignificant on the overall performance of the structure. Therefore, Project Engineering concurs with the Field Engineering Recommended Disposi- tion to "Use As Is". <i>M. D. Roer 9-5-78</i> <i>R. Schulman 9/5/78</i>					
25. DISPOSITION RESULTS					
26. ACCEPTANCE QC ENGINEER <i>R. Bauman</i> 9/12/78 AUTHORIZED INSPECTOR _____ DATE _____					

REM C-1686

NONCONFORMANCE REPORT (CONT'D)

PAGE 2 OF 2

14. NCM NO. 1493

Block 22 Con't. All seven day compressive strength test results for all cylinders cast on this pour
 are listed on the attached sheet, for your review.

7-Day Compressive Strength Test Results For Concrete Placed at Aux. Bldg. Wall 1A

CYL. SET #	TICKET NO.	MIX	AVERAGE STRENGTH (psi)
3377	27896	D-1	2465
3378F	27896	D-1	2770
3379	27900	PG-DC	4820
3380F	27900	PG-DC	4760
3383	27917	D-1	2675

*Res. Copy Rec'd 7/20/78
 J. Bell 7/20/78*

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

10098-2



NONCONFORMANCE REPORT

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 1415	20. PAGE 1 OF 1
2. UNIT(S) COMMON	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION CONCRETE MIX - SERVICE WATER INTAKE	5. ITEM LOCATION SWI(609)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 () SPEC () OTHER		IR NO. C-1.30-101 NOC-94 REV. 2		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: DRAWING C-94 REV. 2 "Q" REQUIRED THAT "ALL CONCRETE TO BE USED IN THE SERVICE WATER PUMP STRUCTURE SHALL BE 4000 PSI, C-2." CONTRARY TO THE ABOVE 117 CU. YD. OF D-1 CONCRETE WAS PLACED WITHOUT PROJECT ENGINEERING APPROVAL IN SWI(609)a' ON 12-22-76. NOTE: THAT THE USE OF D-2 AND E-2 CONCRETE WERE APPROVED BY R.E.M. C-312 DATED 12/7/76 IN LIEU OF C-2 CONCRETE. HOLD FOR ENG DISPOSITION, "Q" LISTED 1.505, NO HOLD TAGS ISSUED.				24. DISPOSITION CONCURRENCE rework reject repair use as is 9-1-78 9-1-78 9-1-78 AUTHORIZED INSPECTOR DATE	
17. REPORTED BY [Signature]		DATE 7/20/78		18. VALIDATED BY [Signature] DATE 7-20-78	
21. ROUTING: ☒ TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering DISPOSITION REQUIRED 7/20/78					
"Use As Is" approximately 72 C.Y. of E-2 concrete, 118 C.Y. of D-2 concrete and 177 C.Y. of D-1 concrete was placed within pour SWI(609)A' on 12-22-76 in lieu of the required C-2 concrete per DWG. C-94(0) Rev. 2 and approved D-2 and E-2 concrete per REM C-312 dated 12-7-76. Note that the above mix changes from E-2 concrete to D-2 concrete to					
23. PROJECT ENGINEERING DISPOSITION Project Engineering has reviewed the conditions described in Block 16 and concurs with the Field Engineering Recommended Disposition to "Use as is".					
REM C-1677 8-30-78 8/31/78					
26. QC ACCEPTANCE QC ENGINEER DATE 9-1-78 AUTHORIZED INSPECTOR DATE					

NONCONFORMANCE REPORT (CONT'D)

PAGE 2 OF 2

14. NCR NO. 1715

Block 22 (cont'd) D-1 concrete were made during the placement of pour SWI(609)A' due to the inability of both the E-2 then the D-2 concrete to attain sufficient slump to be pumped. Test results for all cylinders cast on this pour are listed below for your review.

Listed below are 90-day compressive strengths for cylinders cast on pour SWI(609)A' placed 12-22-76.

Cyl Set No.	Mix	Cyl #1	Cyl #2	Average Compressive Strength (psi)
1296	E-2	8150	8170	8160
1297F	E-2	3780	7210	7995
1298	D-2	7550	7180	7365
1299	D-2	7920	7700	7810
1300F	D-2	7620	8330	7975
1301	D-1	7480	7400	7440
1302	D-1	7900	7870	7885
1303F	D-1	3330	3370	8350

E.D. Kowalski 8/11/78
J.P. Bette 8/11/78



NONCONFORMANCE REPORT

[illegible]

NONCONFORMANCE REPORT

1. PROJECT NAME Midland Project, Units 1&2		JOB NO. 7220		19. NO. 1419	20. PAGE 1 OF 6
2. UNIT(S) common	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION 1 1/2" Aggregate	5. ITEM LOCATION Batch Plant	
6. P.O. OR SPEC NO. C-208 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-4, 10-309 NO. C-208 Rev. 14	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: Rem C-1415, which is a clarification of Spec. C-208 Section 7.3.1.2, states that two retests will be required if a gradation fails by 2% or less and the moving average fails. It further states that if either retest fails by more than 2% the material will be rejected. On 7/18/78, the first 1 1/2" aggregate gradation (UST #1965) failed to meet the minimum requirement of 90% passing the 1 1/2" sieve by one percent and the moving average also failed by one percent. Two retests ^{WERE} performed, (UST #1972 & 1973) the second retest (Cont'd.)				24. DISPOSITION CONCURRENCE rework reject repair use as is <i>9-18-78</i> PROJECT FIELD ENGINEER DATE <i>9-18-78</i> PROJECT ENGINEER DATE <i>9-18-78</i> PROJECT CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE	
17. REPORTED BY <i>Sam Gail</i>		DATE 7-24-78	18. VALIDATED BY <i>N. J. Baralay</i>		DATE 7/24-78
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering Disposition required by 9/27/78 "Use As Is" on 7/18/78 the daily 1 1/2" aggregate gradation failed its initial test and both retest as indicated in Block 16. Prior to rejection of the 1 1/2" aggregate represented by the failing gradation tests, four (4) cubic yards of C-2 (4000 psi at 90 days) concrete (ticket No. 28191) was batched and placed at several roof curbs in the service water bldg. Compressive strength - See pg. 2 23. PROJECT ENGINEERING DISPOSITION The minor errors in gradation will have no significant effect on the durability of the concrete. The 28 day compressive strength tests for cylinder sets 3433 and 3434F averaged 4450 psi and 4820 psi respectively, exceeding the design requirements. Therefore, Project Engineering concurs with the Field Engineering Recommended Disposition to "Use As Is." <i>M. D. Rowe</i> REM C-1723 9-15-78 <i>R. Schuman</i>					
25. DISPOSITION RESULTS				26. QC ACCEPTANCE <i>9-19-78</i> QC ENGINEER DATE AUTHORIZED INSPECTOR DATE	

Block #16 Cont'd.

(UST #1973) had 59% passing the 1" sieve thereby exceeding the maximum by 4%. At the completion of these tests the 1½" aggregate was rejected. However, prior to rejection, one four yard load of C-2 concrete represented by Ticket #28191 was batched and placed (in Pour Number SWI(657)b¹) containing this nonconforming aggregate. "Q" list is 6.101. Two Hold Tags applied. Attached are the 1½" gradations taken for 7/18/78.

Block 22 Cont'd.

test results for cyl. sets 3433 and 3434F cast from concrete represented by ticket No. 28191 averaged 2865 psi and 3145 psi respectively. At seven days of age.

Geo. R. Smith 7/27/78
J. H. Betts 7/27/78

pg. 3 of 6
 NR 1419

ASTM C 136-71

SPECIFICATIONS

SAMPLE IDENTIFICATION

1965 1 1/2" Acc.

SOURCE OF SAMPLE

BELT

DATE & TIME SAMPLED

7/17/78 @ 1550 BY DSH, BW

TESTED BY

DSH, BW FOR (date) 7/18/78

Record weight to smallest increment of scale.
 Record cum. % to nearest tenth. Record % passing to nearest whole number. (All wts. in g.)

#4-1 1/2" to 3/4" X 1 1/2" STONE				#67-3/4" to #4 3/4" STONE				#8-3/8" to No. 8 3/8" PEA GRAVEL				SAND				DATE & TIME SAMPLED 7/12/78 @ 1550 BY DSH, BW TESTED BY DSH, BW FOR (date) 7/12/78 Record weight to smallest increment of scale. Record cum. % to nearest tenth. Record % passing to nearest whole number. (All wts. in g.)																			
SIEVE				SIEVE M&T NO.				CUMULATIVE WT. RETAINED				CUM. % RETAINED				CUM. % PASSING																			
100								2"				232				0				0				100											
90-100								1 1/2"				233				2191				10.7				89											
20-55				100				1"				410				10393				50.9				49											
0-15				90-100				3/4"				236				17773				87.0				13											
0-5				20-55				85-100				100				3/8"				238				19947				97.6				2			
				0-10				10-30				95-100				#4				2440				2440											
				0-5				0-10				80-100				#8				2364				2364											
								0-5				50-85				#16				12															
								25-60				#30				6700				7/12/78															
												#40				Reporting Person																			
								5-30				#50				B. Thompson																			
								0-10				#100																							
												PAN				241				20432															
2.5 max.				2.5 max.				2.5 max.				3.0 max.				#200 WASH				#305				SCALE # 301				DRYING APPARATUS 135							
ASTM C 117-69 MIN. WASH WT.												ORIGINAL DRY WT.: 2440												ASTM C 33-71a FINESS MODULUS											
SAND 500 GRAMS												WASHED DRY WT.: 2364												ACTUAL SPEC.											
3/8" 2,000 GRAMS												WASHED THRU #200: 76												NA 2.5 to 3.0											
3/4" 2,500 GRAMS												PERCENT LOSS BY WASHING: 1.0																							
1 1/2" 5,000 GRAMS												ASTM C-117-69																							

4 of 6
NCR 1419

ASTM C 136-71

SPECIFICATIONS

SAMPLE IDENTIFICATION 1972 1st Retest for 1965

SOURCE OF SAMPLE 1 1/2" Agg - Belt

DATE & TIME SAMPLED 7/18/78 @ 0730 BY BLT SN

TESTED BY BLT FOR (date) 7-18-78

Record weight to smallest increment of scale.
Record cum. % to nearest tenth. Record % passing to nearest whole number. (All wts. in g.)

DATE & TIME SAMPLED <u>7-18-78 @ 0730</u> BY <u>DEB JN</u>							
TESTED BY <u>MTT</u> FOR (date) <u>7-18-78</u>							
Record weight to smallest increment of scale. Record cum. % to nearest tenth. Record % passing -ing to nearest whole number. (All wts. in g.)							
SIEVE							
SIEVE M&E NO.							
CUMULATIVE WT. RETAINED							
CUM. % RETAINED							
CUM. % PASSING							
100			2"	232	0	0.0	100
90-100			1 1/2"	233	1287	7.1	93
20-55	100		1"	410	7914	43.47	57
0-15	90-100		3/4"	236	15568	85.52	14
0-5	20-55	85-100	3/8"	238	17200	97.8	2
	0-10	10-30	95-100	#4			
	0-5	0-10	80-100	#8			
		0-5	50-85	#16			
			25-60	#30			
				#40			
			5-30	#50			
			0-10	#100			
			PAN	241	18204		
2.5 max.	2.5 max.	2.5 max.	3.0 max.	#200 WASH	NA	SCALE # 301	DRYING APPARATUS 135
ASTM C 117-69 MIN. WASH WT.				ORIGINAL DRY WT.: NA			ASTM C 33-71a
SAND 500 GRAMS				WASHED DRY WT.: NA			FINENESS MODULUS
3/8" 2,000 GRAMS				WASHED THRU #200: NA			ACTUAL
3/4" 2,500 GRAMS				PERCENT LOSS BY WASHING: NA			SPEC. 2.5 to 3.
1 1/2" 5,000 GRAMS				ASTM C-117-69			

REMARKS:

TEST FAILURE

material rejected

TL
7-18-78

SET-101 2/8/78

Q.C. Rep. No. 1114

LAB CHIEF: BLT

Time & Date of Notification 0840 7-18-78

6037 TL 134 D

Reporting Person B. Thompson

CHECKED BLT

Pg. 546

ASTM C 136-71

NCR 1419

SPECIFICATIONS

SAMPLE IDENTIFICATION 1973 2nd Retest for 1965SOURCE OF SAMPLE 1 1/2 Agg BeltDATE & TIME SAMPLED 7-18-78 0730 BY GMDSHTESTED BY ATZ FOR (date) 7-18-78Record weight to smallest increment of scale.
Record cum. % to nearest tenth. Record % passing to nearest whole number. (All wts. in g.)

DATE & TIME SAMPLED <u>7-18-78 0730</u> BY <u>DMDSH</u> TESTED BY <u>AJ</u> FOR (date) <u>7-18-78</u> Record weight to smallest increment of scale. Record cum. % to nearest tenth. Record % pass- ing to nearest whole number. (All wts. in g.)				SIEVE	SIEVE M&E NO.	CUMULATIVE WT. RETAINED	CUM. % RETAINED	CUM. % PASSING
				100			2"	272
90-100				1 1/2"	233	301	1.8	98
20-55	100			1"	410	6944	41.1	59
0-15	90-100			3/4"	236	13824	81.8	18
0-5	20-55	85-100	100	3/8"	238	16385	96.9	3
	0-10	10-30	95-100	#4				
	0-5	0-10	80-100	#8				
		0-5	50-85	#16				
			25-60	#30				
				#40				
			5-30	#50				
			0-10	#100				
				PAN	241	16903		
2.5 max.	2.5 max.	2.5 max.	3.0 max.	#200 WASH	N.A.	SCALE # 301	DRYING APPARATUS 135	
ASTM C 117-69 MIN. WASH WT.				ORIGINAL DRY WT.: <u>NA</u>			ASTM C 33-71a FINENESS MODULUS	
SAND 500 GRAMS				WASHED DRY WT.: <u>NA</u>			ACTUAL	SPEC. 2.5 to 3.0
3/8" 2,000 GRAMS				WASHED THRU #200: <u>NA</u>				
3/4" 2,500 GRAMS				PERCENT LOSS BY WASHING: <u>NA</u>			<u>NA</u>	
1 1/2" 5,000 GRAMS				ASTM C-117-69				

REMARKS:

material rejected

TL-78
7-18-78

302-101 2/8/78

DATE RECEIVED

Name & Title of Test Director

LAB CHIEF:

R. Belt 7-10

6-11-78 E

Signature of Test Director

CHECKED BY: [Signature]

Pg. 6 of 6
NCR 1419

ASTM C 136-71

SPECIFICATIONS

SAMPLE IDENTIFICATION 1975 1 1/2"

SOURCE OF SAMPLE PORT

DATE & TIME SAMPLED 7-18-78 0915 BY OSH.DV

TESTED BY RTZ FOR (date) 7-18-78

Record weight to smallest increment of scale.
Record cum. % to nearest tenth. Record % passing to nearest whole number. (All wts. in g.)

#4-1 1/2" to 3/4" 1 1/2" STONE				#67-3/4" to #4 3/4" STONE				#8-3/8" to No. 8 3/8" PEA GRAVEL				SAND				DATE & TIME SAMPLED <u>7-18-78 0915</u> BY <u>DSH.DV</u> TESTED BY <u>MTZ</u> FOR (date) <u>7-18-78</u> Record weight to smallest increment of scale. Record cum. % to nearest tenth. Record % pass- ing to nearest whole number. (All wts. in g.)																			
SIEVE				SIEVE M&E NO.				CUMULATIVE WT. RETAINED				CUM. % RETAINED				CUM. % PASSING																			
100												2"				232				0				0.0				100							
90-100												1 1/2"				233				1737				9.1				91							
20-55				100								1"				410				8604				45.2				55							
0-15				90-100								3/4"				236				16140				82.878 84.4				15							
0-5				20-55				85-100				100				3/8"				238				18613				97.9				2			
				0-10				10-30				95-100				#4																			
				0-5				0-10				80-100				#8																			
								0-5				50-85				#16																			
												25-60				#30																			
																#40																			
												5-30				#50																			
												0-10				#100																			
																PAN				241				19016											
2.5 max.				2.5 max.				2.5 max.				3.0 max.				#200 WASH				305				SCALE # 301				DRYING APPARATUS 135							
ASTM C 117-69 MIN. WASH WT.												ORIGINAL DRY WT.: 6635												ASTM C 33-71a FINENESS MODULUS											
SAND 500 GRAMS												WASHED DRY WT.: 6597												ACTUAL SPEC.											
3/8" 2,000 GRAMS												WASHED THRU #200: 38												2.5 to 3.											
3/4" 2,500 GRAMS												PERCENT LOSS BY WASHING: 0.6%												NA											
1 1/2" 5,000 GRAMS												ASTM C-117-69																							

REMARKS:

MTI-101 2/8/78

4-57 32-137 F

LAB CHIEF: [Signature]

CHECKED BY: [Signature]

TL
7-18-78

NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1421	20. PAGE 1 OF 1
2. UNIT(S) I	3. DRAWING/PART NO. 113-67-59	REV	4. ITEM DESCRIPTION Fabricated Pipe 2HCB-50-S-614-3-1	5. ITEM LOCATION Warehouse #1	
6. P.O. DISPOSITION 7220-M-104A-AC Rev. 3	7. SERIAL NO. N/A	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, 00-3519 NO. M-201 Rev. 7	12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During (X) Rec'g () Const () Test
15. Equip Furnished By () Client (X) Eng () FLD					
16. NONCONFORMING CONDITION: Tech. Spec. 7220-M-201 Rev. 7 and Form G-321-D state the re-				24. DISPOSITION CONCURRENCE	
quired documentation to be furnished by the supplier prior to or at time of delivery				work reject repair use as is	
of material to the jobsite. Contrary to the above, the following documentation is				8/11/78	
missing from the documentation package: The G-321-D Form, Code Data Report, As				8/10/78	
Built Dwg. and Cert's for weldrod. Also there are no PT's or RT's in the document-				PROJECT FIELD ENGINEER DATE	
ation package. "O" number is 4.144. Hold pending final disposition. 1 hold				8-24-78	
tag(s) affixed to the pipe spool.				PROJECT ENGINEER DATE	
				8-10-78	
				PROJECT ENGINEER DATE	
				8-11-78	
				AUTHORIZED INSPECTOR DATE	
17. REPORTED BY K. Acet				25. DISPOSITION RESULTS	
DATE 7/25/78		18. VALIDATED BY R. Barclay		DATE 7/25/78	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
Procurement sup supervision supervisor to obtain proper documentation.					
The 4" refueling canal drain, identified as 2-HCB-50-S-614-3-1 was shipped to the					
job site at the request of construction. The only documentation request was the					
certificate of conformance (Mill Cert.) for the 4" & 10" pipe and the 1/2" plate.					
23. PROJECT ENGINEERING DISPOSITION					
PROJECT ENGINEERING CONCURS WITH FIELD					
ENGINEERING DISPOSITION FOR REWORK AND					
DOCUMENTATION.					
A. Gidner 8/24/78					
26. QC ACCEPTANCE DATE 9-24-78					
QC ENGINEER DATE 9-29-78					
AUTHORIZED INSPECTOR DATE					

(Block 22 cont'd) The drain as now welded will be disassembled by grinding out all welds. (The drain will be fabricated, and all work will be documented, and in-process inspection by Q.C. and the A.I. Code Data Report will be signed-off by the A.I. upon completion.)

Wes. Rutherford 8-22-78

Edward 8/28/78

Due to field refabricating the spool, the original specification requirements of the G-321-D are not applicable.

Wes. Rutherford 8-22-78

BTM/Kapic

6 9/29/78

BTM/Kapic

9/29/78

(Block 22 cont'd)
Drain fabricated on site. No code data report required. See DCN X of M-614 sh3 (Q) Rev. 7. No hydrotest & test possible see Spec. 7220-C-243 Rev. 7 Para. 9.1.

Wes. Rutherford 9-22-78

Edward 9/29/78

NONCONFORMANCE REPORT (CONT'D)

1. PAGE 3 OF 314. NCR NO. -1

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
☒			
PROJECT FIELD ENGINEER		DATE	
<i>[Signature]</i>		8/24/18	
PROJECT ENGINEER		DATE	
<i>[Signature]</i>		8-15-78	
PROJECT CONSTR QC ENGINEER		DATE	
<i>[Signature]</i>		8-25-78	
AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
☒			
PROJECT FIELD ENGINEER		DATE	
<i>[Signature]</i>		9-22-18	
PROJECT ENGINEER		DATE	
<i>[Signature]</i>		9-25-78	
PROJECT CONSTR QC ENGINEER		DATE	
<i>[Signature]</i>		9-25-78	
AUTHORIZED INSPECTOR		DATE	

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

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

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

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

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

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

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

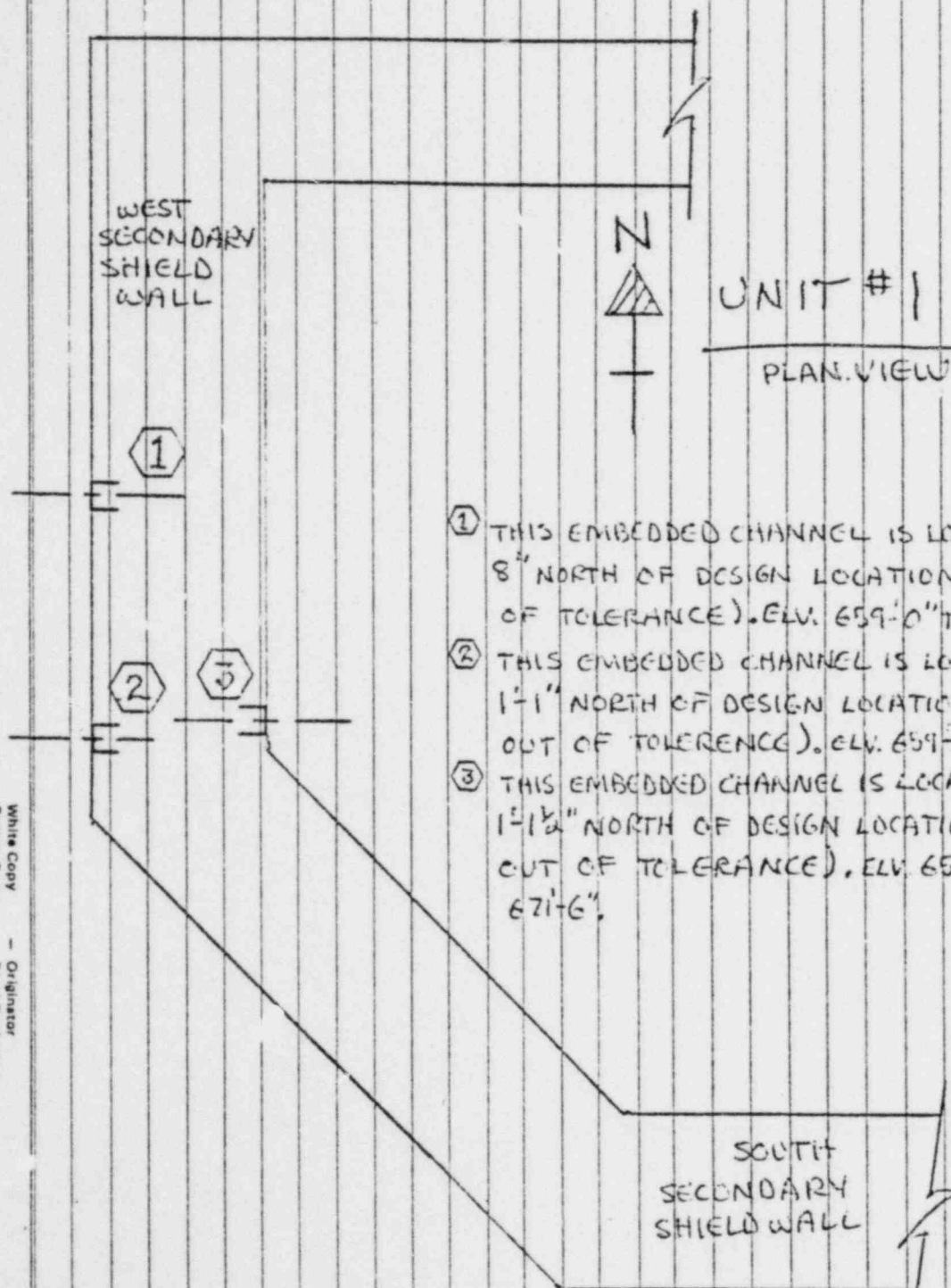
24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

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

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

NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 11428	20. PAGE 1 of 2								
2. UNIT ☒ 1	3. DRAWING/PART NO. M-848	REV 2	4. ITEM DESCRIPTION C6x10.5 Mechanical Inserts	5. ITEM LOCATION South half of West S.S.W. in U#1									
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A	9. SOURCE Construction	10. CONTRACTOR/SUPPLIER N/A									
11. INSPECTION CRITERIA ☒ DWG () SPEC () OTHER		IR NO. N/A NO. M-848	12. ASME AUTHORIZED INSPECTION REQ'D () YES ☒ NO	13. SKETCH ATTACHED ☒ YES () NO	14. Discovered During () Rec'g (X) Const () Test								
15. Equip Furnished By () Client () Eng (X) FLD													
16. NONCONFORMING CONDITION: Note number eight on DWG. M-845 states all Mechanical inserts (C6x10.5) will have a locating tolerance of $\pm 6"$. Contrary to this, three of the embedded C6x10.5 Mechanical inserts, as shown on DWG. M-848, were installed exceeding the $\pm 6"$ tolerance. Concrete is placed to approx. ELV. 672'-0". See attached sketch. Q # is 1.102 Hold for Engineering Disposition 3 Hold Tags Applied. To the items.			24. DISPOSITION CONCURRENCE										
			<table border="1"> <tr> <td>rework</td> <td>reject</td> <td>repair</td> <td>use as is</td> </tr> <tr> <td></td> <td></td> <td></td> <td>☒</td> </tr> </table>			rework	reject	repair	use as is				☒
rework	reject	repair	use as is										
			☒										
			PROJECT FIELD ENGINEER DATE 8-18-78 R.R. Basma / RLC PROJECT ENGINEER DATE 9-18-78 PROJ CONSTR QC ENGINEER DATE 7-15-78										
17. REPORTED BY Steve Harvey			DATE 7-26-78										
18. VALIDATED BY B. Barclay			DATE 7/26/78										
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)													
22. () Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering Use as is. The field recommends leaving the channels in their present location and if necessary, attachments to the wall will be done by using expansion anchors or through additional framing spanning between the existing channels.													
23. PROJECT ENGINEERING DISPOSITION Use as is. Affected attachments to be re-worked as necessary.													
Paul A. Rogers 8-15-78 J. Bitts 8/15/78 R. Schulman 8/18/78 REM C-1656													
26. QC ACCEPTANCE DATE 8/20/78													
QC ENGINEER DATE													
AUTHORIZED INSPECTOR DATE													



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

QC-01-3

Corrected Copy

NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1437	20. PAGE 1 OF 1
2. UNIT(S) 1 + 2	3. DRAWING/PART NO. M-614-3/M-614-6	REV. 6/1/78	4. ITEM DESCRIPTION Valves (2) 6" HCC-GT-DE-4-78	5. ITEM LOCATION Cont. Const. Office	
6. P.O. OR SPEC. NO. M-125-CC	7. SERIAL NO. Block 16	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Anchor/Darling Valve Co.	
11. INSPECTION CRITERIA ☒ DWG () SPEC () OTHER		IR NO. Block 16	12. ASME AUTHORIZED INSPECTION REQ'D ☒ YES () NO	13. SKETCH ATTACHED ☒ YES () NO	
14. DISCOVERED DURING ☒ Rec'g ☒ Const () Test					
15. Equip. Furnished By () Client ☒ Eng () FLD					
16. NONCONFORMING CONDITION: For the following valves, vendor dwg. 7220-M-125C-4C-4 calls for a bore of 6.375" I.D. However, actual bore of each valve is 6.541" I.D. 1) 6"-HCC-GT-DE-4-78 / 5/N 3N-832 / I.R. P-130-614-3-2 2) 6"-HCC-GT-DE-4-78 / 5/N 3N-831 / I.R. P-130-614-6-2 Hold for Engineering Disposition Q-List No. 4-145					
17. REPORTED BY Don Bandt		DATE 7-24-78		18. VALIDATED BY W. J. Barelay DATE 7/31/78	
21. ROUTING: ☒ TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. ☒ Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering			
Procurement supervisor to return valves to vendor, and expedito-valves-to-specifications per vendor drawing 7220-M-125C-46-4. 8/10/78 Ward 8/10/78					
23. PROJECT ENGINEERING DISPOSITION					
24. DISPOSITION CONCURRENCE					
25. DISPOSITION RESULTS Valves 6"-HCC-GT-DL 5/N 3N831 & 3N832 returned to vendor Shipping Notice #7220-5466 John L. Barelay 9-21-78					
26. QC ACCEPTANCE John L. Barelay DATE 9-21-78 QC ENGINEER John L. Barelay DATE 9-21-78 AUTHORIZED INSPECTOR John L. Barelay DATE 9-21-78					

FIELD CHANGE REQUEST

PAGE 1 OF 1

No. M-1290

PROJECT NO. 7220

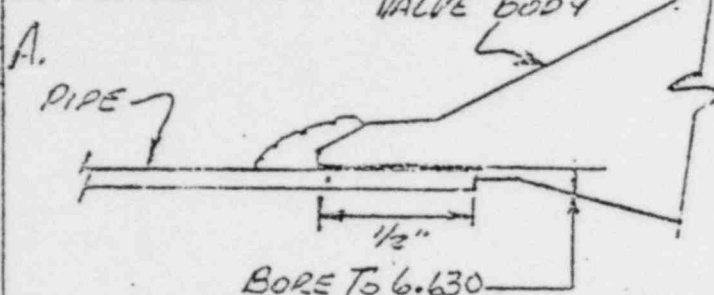
Q No. 4.144

DATE 6 29 73

4. REF DWG. M-614 SHT 3/6 Q 6/3 REV 6/3 5. TITLE FUEL POOL COOLING UNIT 1 & 2
 6. DESIGN ORIGIN: ENGR N VENDOR ☐ (IDENTIFY) NAME

7. EXISTING CONDITION: 6" HCL-GT-PL VALVES (414-35 & 105) WERE BORED TO LARGE. VENDOR DWG CALL FOR AN I.D. OF 6.357" BUT THE VALVES WERE MADE 6.541"

8. CHANGE REQUEST / SKETCH



FIELD WOULD RECOMMEND BORING THE VALVE OUT TO ACCOMMODATE THE 6" LINE IN SOCKET WELD FASHION

UNCONTROLLED
NOT TO BE USED
IN CONSTRUCTION

B. TO FACILITATE ABOVE VALVES WILL HAVE TO BE ~~EMERGED~~ DOWN SO SOCKET WELD WON'T BE MADE ON

RECEIVED

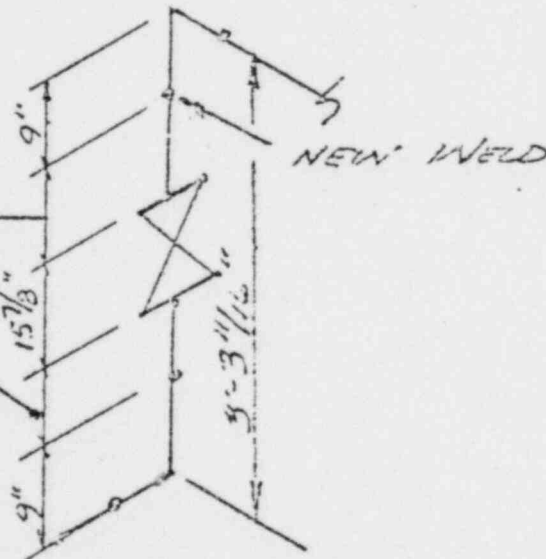
JUL 24 1973

BECHTEL POWER CORP

JOB 7220

PER FB

3' 13/32"
(INCLUDES 1/2" FOR SW)



DISAPPROVED

Disapproved
Initiated by Resident Engineer
Sign. R. M. Hester Date 7-17-73
Approval Requested By Date 7-17-73

10. REVIEWED BY:
 CIVIL N/A
 ELECT. N/A
 MECH WEP
 WELD NC SDR

Date

9. PREPARED BY: BRUCE MCKENZIE

11. APPROVAL OF FIELD DISPOSITION:

Project Field Engineer

Date

12. PROJECT ENG'R'S APPROVAL YES ☐ NO ☒ PROJ ENGR R. R. Basman/RIC Date 7-24-73
 REMARKS SUGGEST FIELD 1) USE ADAPTER PIPE PIECE AND USE VALVE AS IS, 2) HAVE VENDOR BUILD UP VALVE END TO MATCH PIPE OR 3) RETURN VALVE & PURCHASE PROPER TYPE.

WHITE - PRINT COORDINATOR
 PRIMARY - FIELD ENGR

QC - 2 FOR
 REV. 2-1-72

NONCONFORMANCE REPORT (CONT'D)

1. PAGE 3 OF 314. NCR NO. 1437

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
	☒		
<u>J. J. G. [Signature]</u>		<u>9/13/78</u>	
PROJECT FIELD ENGINEER		DATE	
<u>[Signature]</u>		<u>9-13-78</u>	
PROJECT ENGINEER		DATE	
<u>[Signature]</u>		<u>9-13-78</u>	
PROJECT CONSTR QC ENGINEER		DATE	
<u>[Signature]</u>		<u>9-13-78</u>	
AUTHORIZED INSPECTOR		DATE	

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

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

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

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

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

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

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

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

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

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

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



NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1438	20. PAGE 1 OF 2
2. UNIT(S) 1 + 2	3. DRAWING/PART NO. M-31 / M-60	REV 3/2	4. ITEM DESCRIPTION Flange Connections (7)	5. ITEM LOCATION Elv. 568', Aux. Bldg.	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. Block 16	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE Const.	10. CONTRACTOR/SUPPLIER N/A
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. Block 16 NO. M-204	12. ASME AUTHORIZED INSPECTION REQ'D (X) YES () NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec'g (X) Const () Test
15. Equip Furnished By () Client (X) Eng () FLD				16. NONCONFORMING CONDITION: Specification M-204, Rev. 8, para. 5.2.4 states in part, That bolts for flanges with primary rating of 600 lbs., shall have threads well lubricated. Contrary to this, the following (pg. 2) flanges were torque up without the use of a lubricant. Hold for Engineering Disposition Q-List No. 4.123 / 4.133 (7) Q.C. Hold Tags applied to flanges	
17. REPORTED BY Keith J. Rolery				18. VALIDATED BY J. Barelay	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)				24. DISPOSITION CONCURRENCE NA	
22. XX Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering				25. DISPOSITION RESULTS Spec. M-204 only requires lubricant for bolts, That have a service rating of 600# or more.	
FCR M 13 8-29-78 approves change of spec. M204 to read "piping system primary service rating". Listed flanges are 150# service rating pipe systems. This is no longer a NCR condition.				DATE 8-29-78 8-29-78	
23. PROJECT ENGINEERING DISPOSITION				26. QC ACCEPTANCE 9-5-78 QC ENGINEER 9-4-78 AUTHORIZED INSPECTOR	

Block 16 (Continuation)

- 1.) Spool 1HCB-16-612-3-3 to pump 1P-64A / I.R. # P-1.10-612-3-3
- 2.) Spool 1GCB-16-612-3-1 to pump 1P-64A / I.R. # P-1.10-612-3-4
- 3.) Spool 1GCB-15-612-4-1 to pump 1P-64B / I.R. # P-1.10-612-4-3
- 4.) Spool 1HCB-5-612-4-3 to pump 1P-64B / I.R. # P-1.10-612-4-5
- 5.) Spool 2GCB-16-613-3-1 to pump 2P-64A / I.R. # P-1.10-613-3-1
- 6.) Spool 2HCB-6-613-3-3 to pump 2P-64A / I.R. # P-1.10-613-3-4
- 7.) Spool 2HCB-5-613-4-3 to pump 2P-64B / I.R. # P-1.10-613-4-4



NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. <u>1443</u>	20. PAGE <u>1</u> OF <u>2</u>	
2. UNIT(S) Units 1 & 2	3. UNIT PART NO. See Block 16	REV N/A	4. ITEM DESCRIPTION Nuclear Service Solenoid Valves	5. ITEM LOCATION Whse 42 QC Hold Area		
6. P.O. NO <u>7220-J256-AC</u> Rev. <u>3</u>	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N <u>N/A</u> REV <u> </u> SER NO. <u> </u>	9. SOURCE Supplier	10. CONTRACT SUPPLIER Target Rock Corp.		
11. INSPECTION CRITERIA () DWG (X) SPEC (X) OTHER		IR NO. <u>R-1.00-3365</u> NO. <u>See Blk 16</u>	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 & Verification Reports. Contrary to the above, no Cleaning Verification Reports were included in the docu- mentation packages for the valves as listed in the table below. Item 2. Project Quality Control Instruction R-1.00 Rev. 7, Para 2.1c states in part:				24. DISPOSITION CONCURRENCE rework ☐ reject ☐ repair ☐ use as is ☐ <i>Dean A. Delaney</i> 8/12/78 PROJECT FIELD ENGINEER DATE <i>W. R. Barclay</i> 8-3-78 PROJECT ENGINEER DATE <i>W. R. Barclay</i> 8-4-78 PROJ CONSTR QC ENGINEER DATE <i>W. R. Barclay</i> 8-4-78 AUTHORIZED INSPECTOR DATE		
17. REPORTED BY <i>Dean A. Delaney</i> 8/1/78		18. VALIDATED BY <i>W. R. Barclay</i> 8-1-78		25. DISPOSITION RESULTS Corrected documentation received and accepted, item ac. is not a non-conform- ing item. For further explanation see attachment - S.A.R.D. 17-18. <i>Dean A. Delaney</i> 9/13/78		
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)						
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering Procurement Supervisor to obtain proper documentation. <i>Deane Matthews</i> 8-2-78						
23. PROJECT ENGINEERING DISPOSITION						
26. QC ACCEPTANCE <i>Dean A. Delaney</i> 9/13/78 QC ENGINEER DATE <i>W. R. Barclay</i> 9/13/78 AUTHORIZED INSPECTOR DATE						

SCD
9/13/88
19NA

1443

Block 16 continued

"Review the quality verification documentation required by Form G-321-D for availability, legibility and traceability." Contrary to the above, Quality Verification Documentation Packages for the valves listed in the table below have the following problems: A. Certified Material Test Reports are illegible. B. Incorrect tag no. on Hydro & Electrical Property Reports. C. Discrepancy in Part No. between (Inspection Data Sheet, Dimensional Check List) and (Quality Control Documentation Check List).

Valve Tag No's	Item 1	Item 2A	Item 2B	Item 2C
1SV-2125	↓	↓		↓
2SV-2225	↓	↓		↓
1SV-2126	↓	↓		↓
2SV-2226	↓	↓		↓
1SV-2139	↓	↓	↓	↓
2SV-2239	↓	↓		↓
1SV-2140	↓	↓		↓
2SV-2240	↓	↓		↓
1SV-0151	↓	↓		↓
2SV-0251	↓	↓		↓
1SV-0127	↓	↓		↓
2SV-0227	↓	↓		↓
1SV-0128	↓	↓		↓
2SV-0228	↓	↓		↓
1SV-2131	↓	↓		↓
2SV-2231	↓	↓		↓
1SV-2137	↓	↓		↓
2SV-2237	↓	↓		↓
1SV-2109	↓	↓		↓
2SV-2209	↓	↓		↓
1SV-2110	↓	↓		↓
2SV-2210	↓	↓		↓
1SV-0123	↓	↓		↓
2SV-0223	↓	↓		↓

"Q" number is 5,023. Hold pending final disposition. 24 hold tag(s) applied to the nonconforming item(s).

NOTE: The illegible pages in question are clearly marked in the documentation package.

Bechtel Power Corporation

Interoffice Memorandum

To K. Deitz
Q.C. Receiving

Subject Job 7220 Midland Project
NCR 1443
7220-J-256
S.Q.R.D. 17-78

File No.

Date September 13, 1978

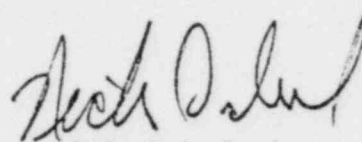
From Nick Isbel

Or S.Q.R.D.

At Midland, MI Ext.

Copies to

Part numbers referenced in NCR 1443, Section C, are production control numbers (Internal-Target Rock Valve). The dash in each part number represents a stage in production. These numbers are not used for identification and, therefore, are irrelevant to document packages for reason of traceability.



Nick Isbel
S.Q.R.

NI/ems

NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1446	20. PAGE 1 OF 1
2. UNIT(S) Indeterminate	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION ASTM A-194 Stainless Steel Nuts Grade 8F	5. ITEM LOCATION O.C. Hold, Whse. "1"	
6. P.O. OR SPEC. NO. 7220-W-28055 Rev. 0	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV _____ SER NO. _____		9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER North Central Fasteners
11. INSPECTION CRITERIA () DWG () SPEC (X) OTHER		IR NO. R-1,00-3271 NO. F-28055 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 () FLD				16. NONCONFORMING CONDITION: Purchase Order F-28055 requires marking of material as specified in ASTM A-194. A-194-1977 requires nuts to be marked with the manufacturer's identity and grade and process of manufacturer. Contrary to the above, 20 pieces of A-194 grade 8F nuts do not meet any marking requirements. Hold pending final disposition. "C" number is indeterminate. 1 hold tag(s) applied to the non-conforming item(s).	
17. REPORTED BY Rick L. Martineau 7-31-78				18. VALIDATED BY J. Barclay 8-1-78	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)				24. DISPOSITION CONCURRENCE rework reject repair use as is PROJECT FIELD ENGINEER DATE 8-10-78 PROJECT ENGINEER DATE PROJ CONSTR QC ENGINEER DATE 8-15-78 AUTHORIZED INSPECTOR DATE	
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering Procurement supervisor to return nonconforming material. J. Barclay 8/9/78 Midland 8/9/78				25. DISPOSITION RESULTS Material returned to vendor on shipping notice "7220-5310" Rick L. Martineau 7-23-78	
23. PROJECT ENGINEERING DISPOSITION				26. QC ACCEPTANCE QC ENGINEER DATE AUTHORIZED INSPECTOR DATE	

1. PROJECT NAME Midland			JOB NO. 7220			19. NO. 1447		20. PAGE 1 OF 4				
2. UNIT(S) 1 & 2		3. DRAWING/PART NO. N/A		REV N/A		4. ITEM DESCRIPTION See Block 16			5. ITEM LOCATION Poseyville, NH-17-18			
6. P.O. OR SPEC. NO. 7220-F-3107 Rev. 11		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N N/A REV 3520		9. SOURCE Supplier		10. CONTRACTOR/SUPPLIER NPS Industries				
11. INSPECTION CRITERIA () DWG () SPEC () OTHER			IR NO. R-1.00-3542 NOE-3107 Rev. 12		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 () FL	
16. NONCONFORMING CONDITION: All material received on Purchase Order F-3107 is required to have the piece mark number either stenciled, painted or stamped on individual pieces. Contrary to the above,*(1) the following discrepancies are apparent for NPS shipment number NPSI-6845/cc: piece mark number 2-1A-6 is not visible on piece, piece mark number 2-1B-5 is not visible on piece and piece mark number 2-1B-6 reads 2-B-6 on piece.									24. DISPOSITION CONCURRENCE rework reject repair use as is [Signature] 8-3-78 PROJECT FIELD ENGINEER DATE [Signature] 8/3/78 PROJECT ENGINEER DATE [Signature] 8/3/78 PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE			
17. REPORTED BY Rick A. Montreuil				DATE 8-1-78		18. VALIDATED BY [Signature]		DATE 8-1-78		25. DISPOSITION RESULTS REMARKING BY FIELD ENGINEERING IS SATISFACTORY UPON REINSPECTION. Rick A. Montreuil 9-1-78		
21. ROUTING: ☒ TO FIELD ENGINEERING () TO OTHERS (SPECIFY)				22. ☒ Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering Field Engineering to identify proper piece mark identification and mark accordingly. [Signature] 8-3-78 [Signature] 8-3-78								
23. PROJECT ENGINEERING DISPOSITION												
26. QC ACCEPTANCE [Signature] 9-1-78 QC ENGINEER DATE AUTHORIZED INSPECTOR DATE												

NONCONFORM

REPORT (CONT'D)

20 PAGE 2 OF 4

15 8447

Block 16 Continued

* (2) The following discrepancy is apparent for NPS shipment number NPSI-6842/cc: piece mark number 2-11B-1 actually reads 2-11A-1. *

Hold pending final disposition. "Q" numbers are 4,211 and 4,221. 4 hold tag(s) applied to the nonconforming item(s).

* See Attachment "A"

* See Attachment "B"



2750 e. ill. mondy
portland, oregon 97201
telephone 503-226-1300

STOMER JOB "CC" RESTRAINTS PROJECT
MIDLAND, MICHIGAN

LEASE NUMBER 2

BECHTEL POWER CORP
3500 E. MILLER R
MIDLAND, MICHIGAN 48640
ATTN: BILL GAMBLE

S
O BECHTEL POWER CORPORATION
L P. O. BOX 2167
D MIDLAND, MICHIGAN 48640

SHIPPING NOTICE

PG. 1 OF 1

DATE SHIPPED July 7, 1978

CARRIER : C & H TRANSPORTATION

TRAILER NO. T749

F.O.B. _____ MIDLAND

PREPAID ☐ COLLECT ☐ ADDED ☐

SHIPPING NOTICE NO. NPSI-6845/CC

[illegible]

ATTACHMENT A
PAGE 3 of 4
NCR # 1447

IPPERS SIGNATURE

DATE _____

TOTAL NUMBER OF

ATTACHMENT - B
PAGE 4 of 4
NCE # 1447

NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1449	20. PAGE 1 OF 2								
2. UNIT(S) Unit I & II	3. DRAWING/REVISION NO. See Block 16	REV N/A	4. ITEM DESCRIPTION Foundation Equipment for Emergency Diesel Gen.	5. ITEM LOCATION Whse. #1, QC Hold									
6. P.O. OR SPEC. NO. 7220-M-18AC Rev. 5	7. SERIAL NO. See Blk. 16	8. REPLACEMENT PART P/N N/A REV. SER NO.		9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Delaval Engine and Compressor Division								
11. INSPECTION CRITERIA () DWG () SPEC (X) OTHER AMS D1.1-1972		IR NO. R-1.00-3553 NO Spec. M-18 Rev. 4	12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec'g () Const () Test								
16. NONCONFORMING CONDITION: 1. Bechtel approved vendor print 7220-M-18-314-1 requires that the 1" nut is welded to the 1" rod and 7" Dia. plate with a $\frac{1}{4}$ " all around weld. Contrary to the above, the fillet welds for all 56 Pcs. of 02-550-01-AG delivered showed indications of under size legs and throats, under cutting, weld splatter and porosity.			24. DISPOSITION CONCURRENCE <table border="1"> <tr> <td>rework</td> <td>reject</td> <td>repair</td> <td>use as is</td> </tr> <tr> <td>☒</td> <td>☐</td> <td>☐</td> <td>☒</td> </tr> </table>			rework	reject	repair	use as is	☒	☐	☐	☒
rework	reject	repair	use as is										
☒	☐	☐	☒										
17. REPORTED BY John R. Slifer Jr. 8-2-78			18. VALIDATED BY J. W. Barclay 8-2-78										
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)			25. DISPOSITION RESULTS Item 1, 2, 3 - Concur with Project Engineering. John R. Slifer Jr. 8-7-78										
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering Field Engineering request Item 1, 2, 3, "use as is" Item 4 - procurement Supervisor to obtain proper documentation. A. M. Early 8-2-78 Joe D. Kemp 8-2-78			Corrected Packing List received for Items listed under Item 4. John R. Slifer Jr. 9-25-78										
23. PROJECT ENGINEERING DISPOSITION Item 1, 2 & 3. Project engineering has obtained vendor concurrence to "use as is" because welds are not for structural purposes. Item 4. Field responsibility to obtain proper documentation in accordance with Form G-321-D. J. Kamm for S. Emerson 9/3/78			26. QC ACCEPTANCE John R. Slifer Jr. 9-25-78 QC ENGINEER AUTHORIZED INSPECTOR DATE										

Block 16 Continued

2. Bechtel approved vendor print 7220-M-18-203-1 requires the $1\frac{1}{2}$ " nut to be welded to the 8" dia. plate with a $3/8$ " all around fillet weld. Contrary to the above, the fillet welds on 79 Pcs. of 02-550-01-0V show indications of undersize legs and throats, undercutting and weld splatter.
3. Bechtel approved vendor print 7220-M-18-198-1 requires the 1" nut to be welded to the 1" rod and 8" dia. plate with a $1/4$ " all around fillet weld. Contrary to the above, 16 Pcs. of 02-550-01-0X show indications of poor general workmanship with weld splatter surrounding the welding area.
4. Traceability of G-321-D Form is through the packing list of the equipment delivered. Contrary to the above, the packing list for Box # 18 indicates the item # 81 to be Part No. 02-550-01-OS, however 02-550-01-OS-A were delivered. Also the packing list for Box # 21 indicates the item # 87 to be part no. 02-550-01-07 and item # 88 to be Part No. 00-550-02-AC, however 02-550-01-0T and 00-550-02-ACD were delivered, respectively.
- "Q" numbers are 4.521 and 4.522. Hold pending final disposition. ⁴ ~~X~~ hold tag(s) applied to the nonconforming item(s). *7/21 8-2-78*

A conditional release is granted for all items on this NCR up to placing concrete. Items are retrieveable at any time during construction.

PFE

*A. J. Brown*8-2-78
Date

LQAE

E. J. Wadsworth by Richardson 8-2-78
Date

PFQCE

*Debra H. Barclay*8-2-78
Date



NONCONFORMANCE REPORT

[illegible]

NONCONFORMANCE REPORT (CONT'D)

1 PAGE 2 OF 2

14. NCR NO. 50

Block 16 continued;

A conditional release is granted to install pipe hangers on shop order EMD-060-01. Corrections or removal can be accomplished without causing damage or contamination to the associated plant equipment or structure.

PFE C. E. Egan Date 8-11-78 PFQCE WLB Date 8-11-78

LQAE LAD. D. G. Bach Date 8-11-78
Lee Richardson

10099-2

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

QC-G33

51

NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1451	20. PAGE 1 OF 3
2. UNIT(S) Unit 1 & 2	3. DRAWING PART NO. See Block 16	REV N/A	4. ITEM DESCRIPTION Nuclear Service Solenoid Valves	5. ITEM LOCATION OC Hold - Whse 42	
6. P.O. OR SPEC NO. 7220-J256-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 Corp.
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER IR NO. B-1.00-3366 NO. J-603 Rev. 5		12. ASME AUTHORIZED INSPECTION REQ'D (X) YES () NO		13. SKETCH ATTACHED (X) YES () NO	14. Discovered During (X) Rec'g () Const () Test
15. Equip Furnished By () Client (X) Eng () FL D				16. NONCONFORMING CONDITION: Specification 7220-J-603 Rev. 5, Appendix A requires Quality Verification Documentation according to Form G-321-D. Item 1. Form G-321-D, Document Category 15.0 requires Cleaning and Coating Procedures and Verification Reports. Contrary to the above, no Cleaning Verification Reports were included in the documentation packages for the valves as listed in the table below.	
17. REPORTED BY Dean A. Delaney 8/13/78		18. VALIDATED BY J. J. Barclay 8/13/78		24. DISPOSITION CONCURRENCE rework reject repair use as is [] [] [] [] PROJECT FIELD ENGINEER DATE 8-13-78 PROJECT ENGINEER DATE 8-13-78 PROJ CONSTR OC ENGINEER DATE 8-13-78 AUTHORIZED INSPECTOR DATE 8-13-78	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering		25. DISPOSITION RESULTS Corrected documentation received and accepted. Dean A. Delaney 8/13/78	
Procurement supervisor to obtain correct documentation.					
Bruce Matthews 8-13-78					
23. PROJECT ENGINEERING DISPOSITION					
26. OC ACCEPTANCE Dean A. Delaney 8/13/78 OC ENGINEER DATE 8/13/78 AUTHORIZED INSPECTOR DATE 8/13/78					

Block 16 continued

Item 2. Form G-321-D, Document Category 18.0 requires Code Compliance. The NPV-1 Form supplied for the valves listed in the table below does not list the Manufacturers' Serial No. for the valves to which the NPV-1 Form pertains (See Attachment "A").

Item 3. The Pressure Tests and Electrical Property Reports for the valve listed in the table below are identified with the wrong valve tag number.

Valve Tag No's	Item 1	Item 2	Item 3
2SV-1127A	↓		
2SV-1127B			
1SV-0122			
2SV-0222			
1SV-1005A			
1SV-1005B			
2SV-1105A			
2SV-1105B			
1SV-0346		↓	
2SV-0446			
1SV-0335			
2SV-0435			
1SV-0334			
2SV-0434			
1SV-0302A			
1SV-0302B			
2SV-0402A			
2SV-0402B			
1SV-0303A			
2SV-0403A			
1SV-1027A			↓
1SV-1027B			

"Q" number is 5.023. Hold pending final disposition. 32 hold tag(s) applied to the nonconforming item(s).

Attachment "A"

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*
(As Required by the Provisions of the ASME Code, Section III, Div. 1)

1. Manufactured by Target Rock Corp., 1966E., Broadhollow Rd., E. Farmingdale
(Name and Address of Manufacturer)
2. Manufactured for Bechtel Power Corp., P.O. Box 1000, Ann Arbor, Mich.
(Name and Address of Purchaser or Owner)
3. Location of Installation Consumers Power Co., Midland, Mich.
(Name and Address)

4. Pump or Valve Valve Nominal Inlet Size 2" (inch) Outlet Size 2"
- | | (a) Model No.,
Series No.
or Type | (b) Manufacturers'
Serial
No. | (c) Canadian
Registration
No. | (d) Drawing
No. | (e) Class | (f) Nat'l.
Bd. No. | (g) Year
Built |
|------|---|-------------------------------------|-------------------------------------|--------------------|-----------|-----------------------|-------------------|
| (1) | 2" S.W. Sch. 160 | --- | --- | 76B-019 | 2 | --- | 1978 |
| (3) | Globe | | | | | | |
| (4) | | | | | | | |
| (5) | | | | | | | |
| (6) | | | | | | | |
| (7) | | | | | | | |
| (8) | | | | | | | |
| (9) | | | | | | | |
| (10) | | | | | | | |

5. H.P. Injection and Make-up Supply

(Brief description of service for which equipment was designed)

6. Design Conditions 3200 psi 200 °F or Valve Pressure Class --- (1)
(Pressure) (Temperature)
7. Cold Working Pressure --- psi at 100°F.
8. Pressure Retaining Pieces ---

Mark No.	Material Spec. No.	Manufacturer	Remarks
(a) Castings			
(b) Forgings			
Body	ASME-SA182, F316	Carpenter Tech.	

(1) For manually operated valves only.

* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

9. Hydrostatic test 5400 psi.

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1974

Addenda Summer 1975 (Date), Code Case No. --- Date ---
 Signed Target Rock Corp. (Manufacturer) by G. Abruzzo, Sgr. Qual. 5-3-78
 Our ASME Certificate of Authorization No. 1947 to use the N (N) (NFV) symbol expires 12/9/80 (Date)

Design information on file at Target Rock Corporation
Stress analysis report (Class 1 only) on file at ---

Design specifications certified by (1) James L. Hurley

PE State Micn. Reg. No. 22629

Stress analysis certified by (1)

FE State - - - Reg. No. - - -

(1) Signature not required. List name only.

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of New York and employed by Commercial Union Ins of Boston, Mass. have inspected the pump, or valve, described in this Data Report on 574 19 78, and state that to the best of my knowledge and belief, the Manufacturer has constructed this pump, or valve, in accordance with the ASME Code, Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this District Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 5/9 1978
Gregory P. O'Day
(Inspector)

Commissions

NEW YORK STATE COMMISSION NO. 2547
(Nat'l Bd., State, Prov. and No.)

NONCONFORMANCE REPORT

Block 16 Cont.

A Conditional Release is Granted to install Panel 10166. Corrections or removal can be accomplished without causing damage or contamination to the associated plant equipment or structure.

[Signature] 5-16-78 W.D. Fort for WLB 8-10-78
PFE Date PFOCE Date

RC# LAD Discord 8-11-78
LOAE En Richardson Date



NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1471	20. PAGE 1 OF 1	
2. UNIT(S) Indeterminate	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION 100 Pcs. 3/4" ϕ x 4' 3" Deformed Bar Anchors	5. ITEM LOCATION O.C. Hold, Whse. #1		
6. P.O. OR SPEC. NO. 7220-F-18375 Rev. 2	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV _____ SER NO. _____	9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Nelson Division of TRW, Inc.		
11. INSPECTION CRITERIA () DWG (x) SPEC () OTHER		IR NO. R-1,00-3601 NO G-33 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 () Eng (x) FLD
16. NONCONFORMING CONDITION: Purchase Order 7220-F-18375 Note 1 requires material to have a minimum tensile strength of 80,000 psi. Contrary to the above, TRW Nelson Division product certification sheet, for Certificate of Compliance and Statement of Conformance shows tensile strength to be 76,726 psi. "Q" number is indeterminate. Hold pending final disposition. 2 hold tag(s) applied to the nonconforming item(s).				24. DISPOSITION CONCURRENCE rework reject repair use as is J. J. [Signature] PROJECT FIELD ENGINEER DATE 9-13-78 K. [Signature] PROJECT ENGINEER DATE 9-13-78 [Signature] PROJ CONSTR QC ENGINEER DATE 9-13-78 AUTHORIZED INSPECTOR DATE		
17. REPORTED BY Tim Christofferson		DATE 8/15/78	18. VALIDATED BY [Signature]		DATE 8-15-78	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)						
22. () Field Engineering Disposition (x) Field Engineering Recommended Disposition to Project Engineering The Nelson deformed bars are used to splice 60,000 psi rebar and field recommends they be accepted as is even though they do not meet their advertised 80,000 psi ultimate tensile strength. BY [Signature] 8/25/78 [Signature] 8/25/78						
23. PROJECT ENGINEERING DISPOSITION Project Engineering has evaluated the conditions described in Blocks 16 and 22 and concurs with the Field Engineering Recommended Disposition to "Use As Is." M. D. [Signature] R. [Signature] REM C-1707 9-12-78 9-12-78						
26. QC ACCEPTANCE [Signature] QC ENGINEER DATE 9-13-78 AUTHORIZED INSPECTOR DATE						



NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1473	20. PAGE 3 OF 2
2. UNIT(S) Indeter- minate	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION Zone 5A Rip Rap	5. ITEM LOCATION Q.C. Hold Batch Plant Laydown	
6. P.O. OF INSPECTION 7220-F-27833 Rev. 1	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV SER NO.	9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Wirt Transport Company	
11. INSPECTION CRITERIA () DWG () SPEC (X) OTHER		IR NO. R-1.00-3563 NO F-27833 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 () Eng (X) FLD					
16. NONCONFORMING CONDITION: Purchase Order F-27833 Revision 1, for Zone 5A Rip Rap, states in part: "Average size of particles: 8 inch to 12 inch, Maximum size of any particles-18 inches. No more than 20% (by weight) of the material with particle sizes smaller than 6 inches. At least 40% (by weight) of the material shall have particle sizes of 10 inches or larger."				24. DISPOSITION CONCURRENCE rework reject repair use as is PROJECT FIELD ENGINEER DATE 8/13/78 PROJECT ENGINEER DATE 8-15-78 PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE	
Continued on Page 2					
17. REPORTED BY Rick A. Montreuil		DATE 8-14-78		18. VALIDATED BY J. Barclay	
				DATE 8-15-78	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering "Reject" - The unacceptable zone 5A Rip Rap will be removed from site. J. S. Cooper 8-23-78 J. P. Bell 8-23-78					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE Rick A. Montreuil 9-27-78 QC ENGINEER DATE AUTHORIZED INSPECTOR DATE					

Block 16 Continued

Contrary to the above, approximately 90% (by weight) of the material received on Wirt Stone Dock Ticket Number 77389 has particle sizes of 6" or less. Hold pending final disposition. "Q" number is indeterminate.

/ hold t₁(s) applied to the nonconforming item(s).



Corrected Copy

NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1483	20. PAGE 1 OF 1
2. UNIT(S) Indeterminate	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION 4 Pcs. 6" ASME-SA403 Type 304 Sch. 10 Tees	5. ITEM LOCATION Whse. # 1, O.C. Hold	
6. P.O. OR SPECING. 7220-P-27310 Rev. 1	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV SER NO.		9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Chicago Tube & Iron Company
11. INSPECTION CRITERIA () DWG (x) SPEC () OTHER		IR NO. R-1.00-3566 NO. See Elk. 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: Specification 7220-M-215 Rev. 1 Para. 7.0 states in part: "All submittals and documentation will conform to the procedures and quantities specified by Form G-321-D." "Minimum documentation shall include the following: a. Certified Material Test Report." Project Quality Control Instructions R-1.00 Rev. 7, Para. 2.1.c states in part: "Review the quality verification documentation required by Form G-321-D for availability, legibility and traceability." Cont. on Page 2				24. DISPOSITION CONCURRENCE rework reject repair use as is PROJECT FIELD ENGINEER DATE 8-28-78 PROJECT ENGINEER DATE 8-21-78 PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE	
17. REPORTED BY Marian Donovan 8-21-78		18. VALIDATED BY J. D. Foster 8/23/78 J. D. Foster 8-21-78		25. DISPOSITION RESULTS Quality Verification Documentation Rec'd and accepted 7-28-78 M. Donovan 9-22-78	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. ☒ Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
Procurement supervisor to expedite documentation per Specification 7220-M-215, Rev. 1.					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE M. Donovan 9-29-78 QC ENGINEER DATE AUTHORIZED INSPECTOR DATE					

Continued Block 16

Contrary to the above; ^{MD 8-23-78} the Certified Material Test Report for the material listed above shows heat no. as JJMN but the material is stamped with heat no. JKMN.

"Q" number is indeterminate until installation. Hold pending final disposition. ^{3 MD 8-23-78} ~~1~~ hold tag(s) applied to the nonconforming item(s).

(See Attachment "A")

2. The G-321-D form for the above listed material was improperly completed: A) Block 8 (Supplier Conform Check) is not filled out as required by Attachment "B". B) Blocks 16 through 20 do not have the required information per Attachment "E". ^{MD 8-23-78}

- A. **PURPOSE:** This is a multi-purpose form to be used by Buyer/Contractor to specifically identify documents required of the supplier to satisfy specification requirements, and is to be used by the supplier as a cover sheet for Quality Verification Documents when submitting them to the Buyer/Contractor.
- B. **GENERAL INFORMATION:** Engineering (E) and Quality Verification (V) Documents are identified by Category number and title in section H, below.
- USE: A copy of the front of this form shall be completed by the supplier and provided to the Buyer/Contractor's Inspector along with the applicable Quality Verification Documents for his review prior to release of the unit(s).
- P. **DISTRIBUTION:** All Engineering (E) Documents are to be sent to the Project Engineer at the address shown below (Code 1).

When inspection release is completed, the Verification (V) Documents are to be distributed to the respective addresses shown below in accordance with the distribution code specified in Column 7. A copy of the completed Form G-321-Q must accompany each "package" of Verification Documents to its destination. Also, a copy of completed Form G-321-Q is to be included with the hardware shipment and a copy sent separately to the Project Field Quality Control Engineer at the job site.

Code 1
Bechtel Associates Professional Corp.
P. O. Box 1000
Ann Arbor, Michigan 48106
Attn: Project Engineer, Job 7220

Code 2, With hardware shipment
Bechtel Power Corp.
3500 E. Miller Road
Midland, Michigan 48640

Code 2
Bechtel Power Corp.
P. O. Box 2167
Midland, Michigan 48640
Attn: Quality Control Engineer

DEFINITIONS OF TERMS: (See also Document Category Definitions G-321-SUP A)

- Supplier** - This is a generic term and is synonymous with the terms seller, vendor, contractor, sub-contractor, sub-supplier, etc.
- Reproducible** - can be legally duplicated by either microreproduction or xerographic dry process.
- Microfilm** - 35mm microfilm conforming to the requirements of the procurement documents. When not specified, supplier shall submit his standard for approval.
- Prior Approval Required** - Bechtel approval required prior to use of documents in the design, fabrication, installation, or other work process.
- Initial** - the first submittal of a document in accordance with the schedule mutually agreed to by the Buyer and the supplier.
- Final** - the submittal that reflects the resolution of review comments, or the complete submittal required. Both are to be accepted prior to rendering final payment. Drawings submitted as final must be full size reproductions made from original documents. Adjacent to the title block, each drawing must be certified and show Buyer's job title, job number, purchase order number, line, equipment, tag or code number, and the manufacturer's serial number(s).
- Certified** - the dated Signature and Title of an authorized and responsible employee of the supplier.
- N/A** - Not applicable - can be used for individual entries, columns and lines by Project engineering, and for individual entries by the supplier.

BECHTEL ENTRY INSTRUCTIONS

- | Entry No. | Information Required |
|-----------|---|
| 1 | Enter Document Category Number. |
| 2 | Enter Specification paragraph referenced. |
| 3 | Make no entry. Refers to kind of copies required. |
| 4 | Enter the number of each kind of copy for "initial" or "final" submittals of Engineering Documents. |
| 5 | Enter approval requirement by X under "Yes" or "No" column. |
| 6 | Enter the number of each kind of copy of Quality Verification Documents required for release of the item or installation. |
| 7 | Enter Quality Verification Document distribution code letter in accordance with paragraph D above. |
| 8 | Make no entry. For supplier use only. |
| 9 | Bechtel Inspector to complete upon release. Sign on line 22. |
| 10 | Enter Bechtel Engineering review confirmation. Sign on line 22. |
| 11 | Bechtel QCI to complete check-in. Sign on line 24. |
| 12 | Enter remarks as appropriate. |

SUPPLIER ENTRY INSTRUCTIONS

- | Entry No. | Information Required |
|------------|--|
| 8 | Enter number of pages of each type of Quality Verification Documents being submitted for the unit(s) being released. Sign Statement of Conformance on line 21. |
| 12 | Enter remarks as appropriate. When a deviation has occurred, reference the deviation(s) and Buyer/Contractor's authorization in this column, and include the authorization document(s) in the Verification Document Package. |
| 12, 14, 15 | Enter information as required. |
| 16 | Enter the numbers 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. |
| 17, 18, 19 | Enter information as required. |
| 20 | Enter identification number(s) traceable to the unit(s) being released, e.g. serial no., heat no. of major component, cable run no. or other unique designator. |

DOCUMENT CATEGORY NUMBERS: Engineering (E) and Quality Verification (V) Documents Requirements as entered in Column 1, and defined in G-321-SUP A Document Category Definitions. For details, see specification paragraph(s) referenced in Column 2.

- | | | |
|--|---|--|
| 1.0 DRAWINGS (E) | 10.2 Typical Material Used | 24.0 RT - RADIOGRAPHIC EXAMINATION PROCEDURES (E), AND VERIFICATION REPORTS (V) |
| 1.1 Outline Dimensions, Services and Foundation/Structural Details | 12.0 WELDING PROCEDURES AND QUALIFICATIONS (E), AND VERIFICATION REPORTS (V) | 21.0 MT - MAGNETIC PARTICLE EXAMINATION PROCEDURES (E), AND VERIFICATION REPORTS (V) |
| 1.2 Assembly Drawings | 12.0 WELD ROD CONTROL PROCEDURES (E), AND VERIFICATION REPORTS (V) | 22.0 PT - LIQUID PENETRANT EXAMINATION PROCEDURES (E), AND VERIFICATION REPORTS (V) |
| 1.3 Shop Detail Drawings | 14.0 REPAIR PROCEDURES (E), AND MAJOR REPAIR VERIFICATION REPORTS (V) | 23.0 EDDY CURRENT EXAMINATION PROCEDURES (E), AND VERIFICATION REPORTS (V) |
| 1.4 Wiring Diagrams | 15.0 CLEANING AND COATING PROCEDURES (E), AND VERIFICATION REPORTS (V) | 24.0 PRESSURE TEST - HYDRO, AIR, LEAK, BUBBLE OR VACUUM TEST PROCEDURE (E), AND VERIFICATION REPORTS (V) |
| 1.5 Control Logic Diagrams | 16.0 HEAT TREATMENT PROCEDURES (E), AND VERIFICATION REPORTS (V) | 25.0 INSPECTION PROCEDURE (E), AND VERIFICATION REPORTS (V) |
| 1.6 P & ID's | 17.0 CERTIFIED MATERIAL PROPERTY REPORTS (V) | 26.0 PERFORMANCE TEST PROCEDURES (E), AND VERIFICATION REPORTS (V) |
| 2.0 PARTS LIST AND COST (E) | 17.1 MTR (Certified Material Test Report) | 26.1 Mechanical Tests |
| 3.0 COMPLETED BECHTEL DATA SHEETS (E) | 17.2 Impact Test Data | 26.2 Electrical Tests |
| 4.0 INSTRUCTIONS (E) | 17.3 Ferrous Data | 27.0 PROTOTYPE TEST REPORT (E & V) |
| 4.1 Erection/Installation | 17.4 Material Certificate of Compliance | 28.0 SUPPLIER SHIPPING PREPARATION PROCEDURE (E) |
| 4.2 Operating | 17.5 Electrical Property Reports | |
| 4.3 Maintenance | 18.0 CODE COMPLIANCE (V) | |
| 4.4 Site Storage and Handling | 19.0 UT - ULTRASONIC EXAMINATION PROCEDURES (E), AND VERIFICATION REPORTS (V) | |
| 5.0 SCHEDULES: ENGINEERING AND FABRICATION/ERECTION (E) | | |
| 6.0 QUALITY ASSURANCE MANUAL PROCEDURES (E) | | |
| 7.0 SEISMIC DATA REPORT (E) | | |
| 8.0 ANALYSIS AND DESIGN REPORT (E) | | |
| 9.0 ACOUSTIC DATA REPORT (E) | | |
| 10.0 SAMPLES (E) | | |
| 10.1 Typical Quality Verification Documents | | |

NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1485	20. PAGE 1 OF 1
2. UNIT(S) Indeterminate	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION Type 304 S.S. 3" 150# Sch. 10 W.N. Flange	ASME SA-182 5. ITEM LOCATION Whse. # 1, O.C. Hold	
6. P.O. OR SPEC. NO. 7220-M-104A Rev. 10	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 ITT Grinnell, Kernersville, N.C.
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. R-1.00-3209 NO M/R M-104A Rev. 7	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: Material Requisition 7220-M-104A Rev. 7, Documentation Submittal Para. 3 states in part: "The Seller shall complete Form G-321-D in detail with the list of documentation which verifies the use of required materials." Contrary to the above, the G-321-D Form sent for the material listed above was the incorrect form (See Attachment "A"). The G-321-D required by M/R 7220-M-104A is as shown on Attachment "B" Pages 1 & 2 of 2. "O" number is indeterminate until installation. Hold pending final disposition. 1 hold tag(s) applied to the nonconforming				24. DISPOSITION CONCURRENCE rework reject repair use as is D.C.C. C. E. Brown 8-28-78 PROJECT FIELD ENGINEER DATE S. S. S. 8-31-78 PROJECT ENGINEER DATE PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE	
17. REPORTED BY Merrian Donovan 8-21-78		18. VALIDATED BY J. N. Foster 8/31/78		25. DISPOSITION RESULTS Correct G-321-D received 9-12-78 and accepted. M. Donovan 9-12-78	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. ☒ Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering Procurement supervisor to obtain corrected documentation per requisition 7220-M-104A Rev. 7. J. N. Foster 8/24/78 K. Ward 8/28/78					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE M. Donovan 9-12-78 QC ENGINEER DATE AUTHORIZED INSPECTOR DATE					

READ INSTRUCTIONS ON BACK BEFORE FILLING IN FORM

HCR 1185

Attachment

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

Engineering Documents													Quality Verification Documents													12. Remarks																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
1. Document Category Number	2. Specification Paragraph Reference	3. Kind of Copy	4. Quantity Required		5. Prior Approval Required		6. Quantity Required for Release	7. Distribution Code	8. Inspection System Check	9. Inspection Remarks	10. Engineering Review	11. Field OCE Check In																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

13. Supplier's Order No.	14. Supplier's Part No.	15. Supplier's Part Name	16. Quantity
17. Buyer's Req. Item No.	18. Buyer's Line/Equip. Tag or Code No.	19. Buyer's Part Name	20. Traceability

21. Supplier's Conformance Statement: We certify that the listed work and required documents meet the requirements of the procuring documents. Supplier: _____ Signature: _____ Title: _____ Date: _____

22. Inspection Release Statement: Work was released based on satisfactory completion of inspection and review of documentation. Authorized Detention: ☐ YES, Noted under 12, Remarks ☐ NONE. Inspector: _____ Signature: _____ Date: _____

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

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

25. OAE Audit Statement: The Quality Verification Documents furnished with this form have been audited. OAE: _____ Signature: _____ Date: _____

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

 G-327-D	MIDLAND PLANT UNITS 1 & 2 CONSUMERS POWER COMPANY	JOB NO. #7220 P.O. SPEC NUMBER (Q) 7220-M-104A
	ENGINEERING AND QUALITY VERIFICATION DOCUMENT REQUIREMENTS	
	SHEET 2 OF 2	REV. 2

READ INSTRUCTIONS ON BACK BEFORE FILLING IN FORM

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

1. Document Category Number	2. Specification Paragraph Reference	3. Kind of Copies	ENGINEERING DOCUMENTS				QUALITY VERIFICATION DOCUMENTS						12. Remarks
			4. Quantity Required		5. Price Approval Required		6. Quantity Required for Release	7. Distribute Code	8. Circular Containing Check	9. Inspection Release	10. Engineering Review	11. Field OCE Check In	
			Initial	Final	Yes	No							
1.1	2.12 8.0	Reproducible	2	2	X								
		Microfilm											
1.3	2.12 8.0	Reproducible	2	2	X								
		Microfilm											
6.0	9.1 G-23	Reproducible	2	2	X								
		Microfilm											
12.0	6.4	Reproducible	2	2	X								
		Microfilm											
13.0	6.4	Reproducible	2	2	X	1	C						
		Microfilm											
14.0	6.45	Reproducible	2	2	X	1	C						
		Microfilm											
15.0	6.5	Reproducible	2	2	X	1	C						
		Microfilm											
16.0	6.4.4	Reproducible	2	2	X	1	C						
		Microfilm											
17.1	9.0	Reproducible				1	C						
		Microfilm											
17.2	9.0	Reproducible				1	C						
		Microfilm											
17.3	9.0	Reproducible				1	C						
		Microfilm											
17.4	9.0	Reproducible				1	C						
		Microfilm											
18.0	9.0				1	C							
19.0	9.0				1	C							
19.0	7.3.2		2	2	X								

13. Supplier's Order No.	14. Supplier's Part No.	15. Supplier's Part Name	16. Quantity
17. Buyer's Req. Item No.	18. Buyer's Description, Tag or Code No.	19. Buyer's Part Name	20. Traceability

21. Sign of the Conference Statement: We certify that the work and required documents meet the requirements of the governing documents. Supplier: _____

22. Inspection Release Statement: Work was reviewed and found satisfactory completion of inspection and review of documentation. Authorized Inspection: ☐ YES, Noted under 12, Remarks ☐ NONE. Signature: _____ Title: _____ Date: _____

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

24. OCE Check In Statement: This form and the Quality Verification Documents referenced herein have been received and their relationship to the hardware items verified. OCE: _____ Signature: _____ Date: _____

25. OAE Audit Statement: The Quality Verification Documents furnished with this form have been audited. OAE: _____ Signature: _____ Date: _____

Also See OCE Check In Distribution to: Procurement Manager, Field Office Manager, Material Supervisor

HIDLAND PLANT UNITS 1 & 2
CONSUMERS POWER COMPANY

JOB NO. 7220

PURCH ORDER NO.

7220-M-104A

ENGINEERING AND QUALITY VERIFICATION DOCUMENT REQUIREMENTS

1 of 2

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

QUALITY VERIFICATION DOCUMENT TRANSMITTAL-REPRODUCE THIS SIDE ONLY

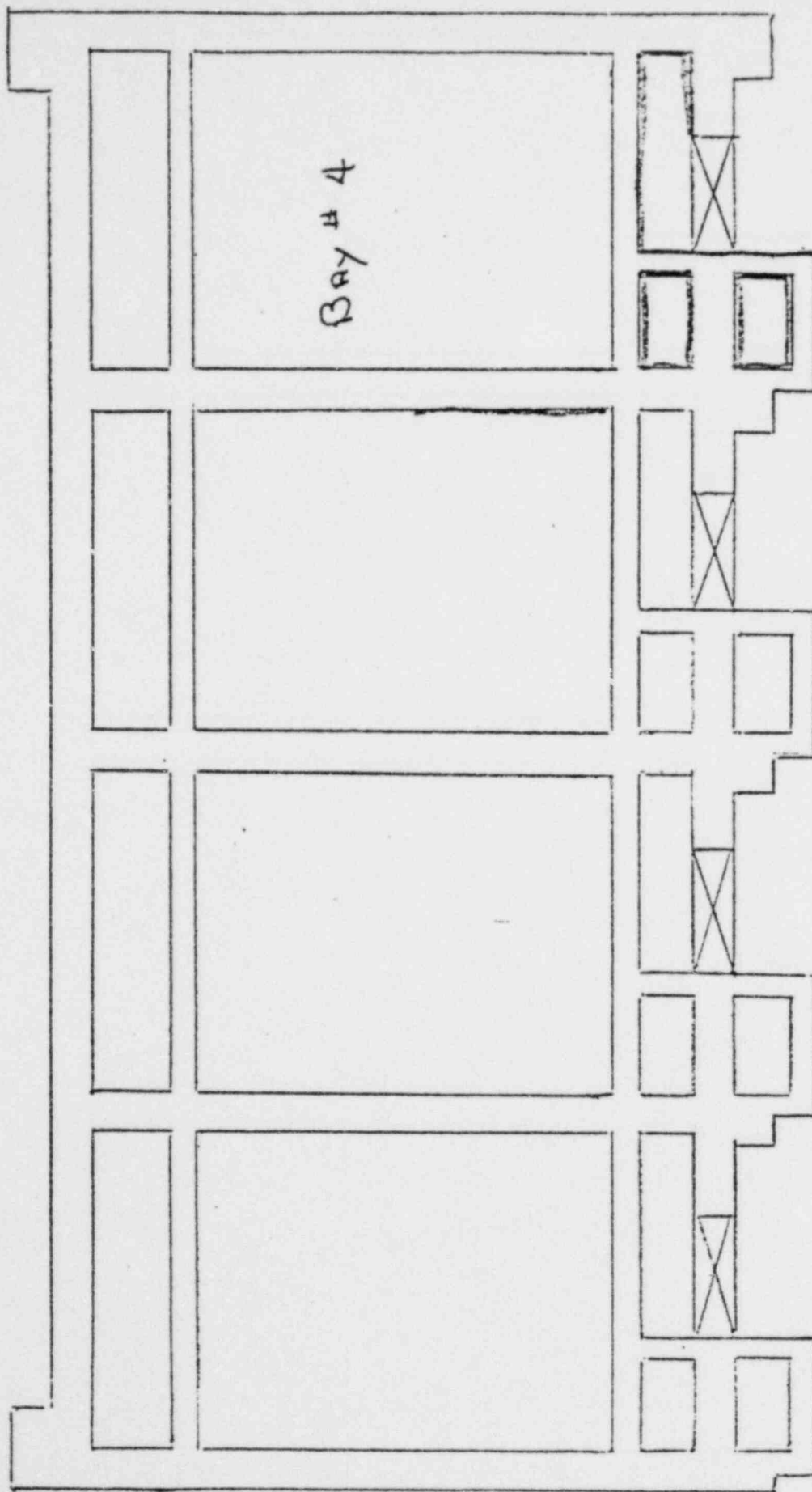
NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1486	20. PAGE 1 OF 2
2. UNIT(S) Diesel Gen.	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION Form Removal	5. ITEM LOCATION Diesel Gen. Bay #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. C-1.40-652 NO.	12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO	13. SKETCH ATTACHED (X) YES () NO	14. Discovered During () Rec'g (X) Const () Test
15. Equip Furnished By () Client () Eng (X) FLD					
16. NONCONFORMING CONDITION: Specification 7220-C-231, Rev. 16, Para. 5.4 states in part.... "If forms are not stripped or loosened within 24 hours, they must remain in place for 7 days unless otherwise approved." Contrary to the above, forms referenced on the attached sketch were removed after the 24 hour time period (Pour #DG(662)d'). "Q"-List #1.405. Hold for Engineering Disposition. / Hold Tags Applied.				24. DISPOSITION CONCURRENCE rework reject repair use as is A. Boon 9-5-78 S. R. Bauman 9-1-78 PROJECT ENGINEER PROJ CONSTR QC ENGINEER AUTHORIZED INSPECTOR DATE	
17. REPORTED BY Edwin Dutton 8-21-78		18. VALIDATED BY H. D. Farris 8/21/78		25. DISPOSITION RESULTS	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
"Use as is" formwork for pour DG(662)D' (Diesel Generator Walls #4 to Elev. 662' located at the southeast corner of the XXXX Diesel Generator Bldg.) was not completely loosened or removed prior to the 24 hr. after placement time period. Note, however, that all formwork was loosened prior to 48 hrs. after placement and immediately spray (cont.)					
23. PROJECT ENGINEERING DISPOSITION Project Engineering has evaluated the conditions described in Block 16. For the subject concrete pour the forms were removed within 48 hours after placement, and curing compound was applied. Based on the above, and considering the ambient temperatures recorded during the curing period, Project Engineering concurs with the Field Engineering Recommended Disposition to "Use As Is".					
REM C-1681 M D Reeves R. Schulman 8-31-78 9-1-78				26. QC ACCEPTANCE Edwin Dutton 9/9/78 QC ENGINEER DATE AUTHORIZED INSPECTOR DATE	

Block #22 continued:

cured with liquid membrane curing compound upon removal of forms.

P.D. Toward 8/24/78
J.P. Bello 8/24/78



* FORMS REMOVED AFTER 24 HRS

WALLS TO 662'-0"

NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1491	20. PAGE 1 OF 1
2. UNIT(S) 1&2	3. DRAWING/PART NO. E-532	REV 12	4. ITEM DESCRIPTION 2AC024 3" PVC Conduit	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 N/A REV N/A SER NO. N/A		9. SOURCE Constr.	10. CONTRACTOR/SUPPLIER N/A
11. INSPECTION CRITERIA ☒ DWG ☐ SPEC ☐ OTHER		IR NO. N/A NOE-532 Rev 12	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:	
Conduit 2AC024 has been damaged by drilling the concrete slab for anchors under 2D15 on el. 614'. Approximate location 10' east of 6.6 and 11' north of H line. During concrete removal operations, conduit 2AC023 was damaged. O-list #3.006. 1 Hold tag applied near item. Hold for engineering disposition.					
17. REPORTED BY A.M. Labriola		DATE 8/22/78		24. DISPOSITION CONCURRENCE	
21. ROUTING: ☐ TO FIELD ENGINEERING ☐ TO OTHERS (SPECIFY)		22. ☒ Field Engineering Disposition ☐ Field Engineering Recommended Disposition to Project Engineering		25. DISPOSITION RESULTS	
23. PROJECT ENGINEERING DISPOSITION		26. QC ACCEPTANCE		27. AUTHORIZED INSPECTOR	

NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1492	20. PAGE 1 OF 1
2. UNIT(S) Unit 1	3. DRAWING/PART NO. 1P-4-5 Sub. 3	REV 4	4. ITEM DESCRIPTION Shop Fabricated Pipe Spool 1ELB-1-S638-13-5	5. ITEM LOCATION D14N Poseyville Laydown	
6. P.O. OR SPEC. NO. 7220-M-104A-AC Rev. 10	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV _____ SER NO. _____		9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER ITT Grinnell, Kernersville, N.C.
11. INSPECTION CRITERIA () DWG () SPEC (X) OTHER		IR NO. R-1.00-3639 NO. See Blk. 16	12. ASME AUTHORIZED INSPECTION REQ'D (X) YES () NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During C3 Rec'g () Const () Test
15. Equip Furnished By () Client (X) Eng () FLD					
16. NONCONFORMING CONDITION: Material Requisition 7220-M-104A Rev. 7 requires Quality Verification Documentation Package per G-321-D Form. Project Quality Control Instructions R-1.00 Rev. 7 Para. 2.1.c states in part: "Review the quality verifi- cation documentation required by Form G-321-D for availability, legibility and traceability." Contrary to the above, radiographic inspection report for Weld A for the above listed pipe spool shows spool no. as 1ELB-1-S-633-13-5. "Q" number is 4.312. Hold pending final disposition. 1 hold tags applied to the nonconforming item(s).				24. DISPOSITION CONCURRENCE rework reject repair use as is DCC J. Boon 8-28-78 PROJECT FIELD ENGINEER DATE J. Burley 8-31-78 PROJECT ENGINEER DATE J. W. L. 8-31-78 PROJ CONST OR ENGINEER DATE J. W. L. 8-31-78 AUTHORIZED INSPECTOR DATE	
17. REPORTED BY James L. Gray 8-22-78		18. VALIDATED BY J. W. L. 8/24/78		25. DISPOSITION RESULTS CORRECTED DOCUMENTATION RECEIVED, REVIEWED, AND ACCEPTED. James L. Gray 9-26-78	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering Procurement Supervisor to obtain correct documentation per requisition 7220-M-104A Rev. 7. J. Parish 8/28/78 J. Ward 8/28/78					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE James L. Gray 9/26/78 QC ENGINEER DATE J. W. L. 9-26-78 AUTHORIZED INSPECTOR DATE					

1. PROJECT NAME Midland			JOB NO. 7220			19. 11493 NO. 140		20. PAGE 1 OF 1		
2. UNIT(S) Indeter- minate		3. DRAWING/PART NO. N/A		REV N/A		4. ITEM DESCRIPTION 10 Pcs. 6" 45° LR Weld Ells ASME SA-403WP Type 304 Heat No. JKMM		5. ITEM LOCATION O.C. Hold, Whse. #1		
6. P.O. OR SPEC NO. 7220-1-27310 Rev. 0		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N. N/A REV _____ SER NO. _____		9. SOURCE Supplier		10. CONTRACTOR/SUPPLIER Chicago Tube and Iron Company		
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER			IR NO. R-1,00-3551 NOM-215 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 () Eng (X) FLD			16. NONCONFORMING CONDITION: Specification 7220-M-215 Rev. 1 Para. 7.1 states "All sub- mittals and documentation will conform to the procedures and quantities specified by Form G-321-D." Contrary to the above, Column 8 of Form G-321-D was not completed in accordance with "Supplier Entry Instructions" (See Attachment "B") for entry number 8. Also, blocks 16 thru 20 (See Attachment "A") were incorrectly filled out since traceability has not been maintained.			24. DISPOSITION CONCURRENCE rework reject repair use as is PROJECT FIELD ENGINEER DATE 8-28-78 PROJECT ENGINEER DATE 8-31-78 PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE			25. DISPOSITION RESULTS CORRECTED DOCUMENTATION RECEIVED AND ACCEPTED James L. Gray 9-5-78 J. Boush 8/28/78 J. Ward 8/28/78	
17. REPORTED BY James L. Gray 8-22-78			18. VALIDATED BY J. Boush 8/28/78			26. QC ACCEPTANCE James L. Gray 9-5-78 QC ENGINEER DATE			27. AUTHORIZED INSPECTOR DATE	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)			22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering Procurement Supervisor to obtain correct documentation per specification 7220-M-215 Rev. 1.			23. PROJECT ENGINEERING DISPOSITION			28. AUTHORIZED INSPECTOR DATE	

Continue Block 16

"Supplier Entry Instructions" (See Attachment "B") lists instructions for completion of blocks 16 thru 20.

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

READ INSTRUCTIONS ON BACK BEFORE FILLING IN FORM

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

1. Document Category Number	2. Specification Paragraph Reference	3. Kind of Copies	ENGINEERING DOCUMENTS				QUALITY VERIFICATION DOCUMENTS						12. Remarks
			4. Quantity Required		5. Prior Approval Required		6. Quantity Required for Release	7. Distribution Code	8. Supplier Conform Check	9. Inspection Release	10. Engineering Review	11. Field QCE Check In	
			Initial	Final	Yes	No							
		Reproducible Microfilm			N/A								ATTACHMENT 1 - PAGE 2 OF 4 NCR 1493
Pipe, Fittings & Flanges		Reproducible Microfilm											
17.1V	7.3	Reproducible Microfilm				1	C						NA-3767, 4(h)
		Reproducible Microfilm											
18.0V	7.3	Reproducible Microfilm				1	C						NC-2561 for welded filler metal tubular products
20.0V	7.3	Reproducible Microfilm				1	C						
19.0V	7.3	Reproducible Microfilm				1	C						NC-2551 for seamless and welded without filler metal
		Reproducible Microfilm											
14.0V	7.3	Reproducible Microfilm				1	C						If repairs have been done
		Reproducible Microfilm											
17.2V	7.3	Reproducible Microfilm				1	C						If impact tested material is purchase
		Reproducible Microfilm											
17.4V	7.3	REPRO MICRO			1	1	C						Conformance to requirements
12. Supplier's Order No.	14. Supplier's Part No.	15. Supplier's Part Name	16. Quantity										
785385	N/A	Misc. Pipe Fittings	See Attached										
17. Buyer's Req. Item No.	18. Buyer's Line/Equip. Tag or Code No.	19. Buyer's Part Name	20. Traceability										
7220-M-215	See Attached	See Attached	See Attached										
21. Supplier's Conformance Statement	We certify that the listed work and required documents meet the requirements of the procuring documents.			Supplier Signature	Thomas C. Murphy QA Mgr. 7-14-78								
22. Inspection Release Statement	Work was released based on satisfactory completion of inspection and review of documentation.			Authorized Official	☐ YES, Noted under 12, Remarks ☐ NONE								
23. Engineering Review Statement	The Quality Verification Documents submitted to Engineering with the form have been reviewed for conformance to the specified requirements and are acceptable.			Engineer Signature									
24. QCE Check-in Statement	The form and the Quality Verification Documents referenced herein have been received and their relationship to the hardware items verified.			CONTROL NO.	FILE NO.								
				QCE Signature	Date								
After QCE Check-in Distribute to: Procurement Manager, Field Office Manager, Material Supervisor													
MIDLAND PLANTS - UNITS 1 & 2 CONSUMERS POWER COMPANY												JOB NO. 7220 P.O./SPEC 7220-M	
ENGINEERING AND QUALITY VERIFICATION DOCUMENT REQUIREMENTS												SHEET 2 OF 3	

This is a multi-purpose form to be used by Buyer/Contractor to specifically identify documents required of the supplier to satisfy specification requirements, and as a cover sheet for Quality Verification Documents when submitting them to the Buyer/Contractor.

INFORMATION: Engineering (E) and Quality Verification (V) Documents are identified by Category number and title in section H, below.

A copy of the front of this form shall be completed by the supplier and provided to the Buyer/Contractor's Inspector along with the applicable Quality Verification Documents for his use to release of the unit(s).

NOTES: All Engineering (E) Documents are to be sent to the Project Engineer at the address shown below (Code a).

When release is completed, the Verification (V) Documents are to be distributed to the respective addresses shown below in accordance with the distribution code specified in

A copy of the completed Form G-321-D must accompany each "package" of Verification Documents to its destination. Also, a copy of completed Form G-321-D is to be with the hardware shipment and a copy sent separately to the Project Field Quality Control Engineer at the jobsite.

Code a.
Associates Professional Corp.
Box 1000
Arbor, Michigan 48106
Project Engineer, Job 7220

Code b. With hardware shipment
Bechtel Power Corp.
3500 E. Miller Road
Midland, Michigan 48640

Code c.
Bechtel Power Corp.
P. O. Box 2167
Midland, Michigan 48640
Attn: Quality Control Engineer

TERMS OF TERMS: (See also Document Category Definitions G-321-SUP A)

This is a generic term and is synonymous with the terms seller, vendor, contractor, sub-contractor, sub-supplier, etc.

It can be lapably duplicated by either microproduction or electrostatic dry process.

It is 25mm microfilm conforming to the requirements of the procurement documents. When not specified, supplier shall submit his standard for approval.

Approval Required - Bechtel approval required prior to use of documents in the design, fabrication, installation, or other work process.

The first submittal of a document in accordance with the schedule mutually agreed to by the Buyer and the supplier.

The submittal that reflects the resolution of review comments, or the complete submittal required. Both are to be accepted prior to rendering final payment. Drawings submitted as

must be full size reproductions made from original document. Adjacent to the title block, each drawing must be certified and show Buyer's job title, job number, purchase order number, line, equipment, tag or code number, and the manufacturer's serial number(s).

It is the dated Signature and Title of an authorized and responsible employee of the supplier.

Not applicable - can be used for individual entries, columns and lines by Project engineering, and for individual entries by the supplier.

ENTRY INSTRUCTIONS

Information Required

Enter Document Category Number.

Enter Specification paragraph reference.

Enter entry. Relates to kind of copies required.

Enter the number of each kind of copy for "Initial" or "Final" products of Engineering Documents.

Enter approval required by X under "Yes" or "No" column.

Enter the number of each kind of copy of Quality Verification Documents required for release of the item or installation.

Enter Quality Verification Document distribution code letter in accordance with paragraph D above.

Enter no entry. For supplier use only.

Bechtel Inspector to complete upon release. Sign on line 22.

Bechtel Engineering review confirmation. Sign on line 23.

Bechtel QCE to complete check-in. Sign on line 24.

Enter remarks as appropriate.

G. SUPPLIER ENTRY INSTRUCTIONS

Entry No.

Information Required

8 Enter number of pages of each type of Quality Verification Documents being submitted for the unit(s) being released. Sign Statement of Conformance on line 21.

12 Enter remarks as appropriate. When a deviation has occurred, reference the deviation(s) and Buyer/Contractor's authorization in this column, and include the authorization document(s) in the Verification Document Package.

13, 14, 15 Enter information as required.

16 Enter the numbers of units covered by the Quality Verification Documents being submitted. For each requisition item no. being released provide a separate copy of the completed form and the supporting Quality Verification Documents.

17, 18, 19 Enter information as required.

20 Enter identification number(s) traceable to the unit(s) being released, e.g. serial no., heat no. of major component, cable reel no. or other unique designator.

ENT CATEGORY NUMBERS: Engineering (E) and Quality Verification (V) Document Requirements as entered in Column 1, and defined in G-321-SUP A Document Category List. For details, see specification paragraph(s) referenced in Column 2.

DRAWINGS (E)

- 1 Outline Dimensions, Services and Foundation/Structural Details
- 2 Assembly Drawings
- 3 Shop Detail Drawings
- 4 Wiring Diagrams
- 5 Control Logic Diagrams
- 6 P & IDs

ARTS LIST AND COST (E)

COMPLETED BECHTEL DATA SHEETS (E)

INSTRUCTIONS (E)

- 1 Erection/Installation
- 2 Operating
- 3 Maintenance
- 4 Site Storage and Handling

SCHEDULES: ENGINEERING AND FABRICATION/ERECTION (E)

QUALITY ASSURANCE MANUAL/PROCEDURES (E)

GENIC DATA REPORT (E)

ANALYSIS AND DESIGN REPORT (E)

ACOUSTIC DATA REPORT (E)

SAMPLES (E)

21 Typical Quality Verification Documents

10.2 Typical Material Used

- 11.0 MATERIAL DESCRIPTION (E)
- 12.0 WELDING PROCEDURES AND QUALIFICATIONS (E), AND VERIFICATION REPORTS (V)
- 13.0 WELD ROD CONTROL PROCEDURES (E), AND VERIFICATION REPORTS (V)
- 14.0 REPAIR PROCEDURES (E), AND MAJOR REPAIR VERIFICATION REPORTS (V)
- 15.0 CLEANING AND COATING PROCEDURES (E), AND VERIFICATION REPORTS (V)
- 16.0 HEAT TREATMENT PROCEDURES (E), AND VERIFICATION REPORTS (V)
- 17.0 CERTIFIED MATERIAL PROPERTY REPORTS (V)
- 17.1 MTR (Certified Material Test Reports)
- 17.2 Impact Test Data
- 17.3 Ferrite Data
- 17.4 Material Certificate of Compliance
- 17.5 Mechanical Property Reports
- 18.0 CODE COMPLIANCE (V)
- 19.0 UT - ULTRASONIC EXAMINATION PROCEDURES (E), AND VERIFICATION REPORTS (V)

21.0 RT - RADIOGRAPHIC EXAMINATION PROCEDURES (E), AND VERIFICATION REPORTS (V)

21.0 MT - MAGNETIC PARTICLE EXAMINATION PROCEDURES (E), AND VERIFICATION REPORTS (V)

22.0 PT - LIQUID PENETRANT EXAMINATION PROCEDURES (E), AND VERIFICATION REPORTS (V)

21.0 EDDY CURRENT EXAMINATION PROCEDURES (E), AND VERIFICATION REPORTS (V)

24.0 PRESSURE TEST - HYDRO, AIR, LEAK, BUBBLE OR VACUUM TEST PROCEDURE (E), AND VERIFICATION REPORTS (V)

25.0 INSPECTION PROCEDURE (E), AND VERIFICATION REPORTS (V)

25.0 PERFORMANCE TEST PROCEDURES (E), AND VERIFICATION REPORTS (V)

26.1 Mechanical Tests

26.2 Electrical Tests

27.0 PROTOTYPE TEST REPORT (E & V)

23.0 SUPPLIER SHIPPING PREPARATION PROCEDURE (E)



NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1495	20. PAGE 1 of 1
2. UNIT 2	3. DRAWING/PART NO. C-666 DET. 3	REV 8	4. ITEM DESCRIPTION Stainless Steel Embed, 1/2"x20"x3'-2" W/Studs	5. ITEM LOCATION 619'-6" Containment 2 Slab	
6. P.O. OR SPEC NO. C-233 A	7. SERIAL NO.	8. REPLACEMENT PART P/N _____ REV _____ SER NO. _____		9. SOURCE Construction	10. CONTRACTOR/SUPPLIER Inland Ryerson
11. INSPECTION CRITERIA (X) DWG () SPEC () OTHER		IR NO. NO. C-666	12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec'g (X) Const () Test
15. Equip Furnished By () Client () Eng () FLD					
16. NONCONFORMING CONDITION: Detail 3 of drawing C-666 calls for a stainless steel embed 1/2"x20"x3'-2" to have 8 "nelson studs, 3/4" Ø x 0'-6" long, or equal". Contrary to this, four (4) detail 3 embeds have been placed in concrete having 8, 1/2" Ø x 0'-6" nelson studs per embed. Q# is 1.102 HOLD FOR ENG. DISPOSITION - 1 HOLD TAG APPLIED				24. DISPOSITION CONCURRENCE rework reject repair use as is 9-22-78 9-22-78 9-25-78 DATE DATE DATE	
17. REPORTED BY Garry Morris		DATE 8-24-78		18. VALIDATED BY M. D. Foster	
DATE 8-25-78				25. DISPOSITION RESULTS	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering Recommend use as is.		DISPOSITION REQUESTED BY: 9-12-78			
G. E. Morris 8-28-78					
J. Butler 8-28-78					
23. PROJECT ENGINEERING DISPOSITION Project Engineering has evaluated the conditions described in Block 16 and has determined that the 4 embeds with the 8-1/2" Ø nelson studs are adequate for the actual loads. Therefore, Project Engineering concurs with the Field Engineering Recommended Disposition to "Use As Is." M. D. Reese R. Schulman REM C-1734 9-21-78 9-22-78					
26. QC ACCEPTANCE H. A. 9-26-78		DATE			
QC ENGINEER		DATE			
AUTHORIZED INSPECTOR		DATE			

NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1503	20. PAGE 1 OF 1
2. UNIT(S) Common	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION Portable Chain Tension Indicator	5. ITEM LOCATION C.C. Hold, Whse. #1	
6. P.O. OR SPEC NO. 7220-1-20-AC Rev. 2	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV _____ SER NO. _____		9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER FMC Corporation
11. INSPECTION CRITERIA () DWG () SPEC () OTHER IR NO. R-1.00-3334 P/O. M-20 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 7220-1-20 Rev. 2 requires Quality Verification Documentation according to Form G-321-D. Contrary to the above, no Form G-321-D or Quality Verification Documentation has been received. "Q" number is indeterminate. Hold pending final disposition. 1 hold tag(s) applied to the nonconforming item(s).				24. DISPOSITION CONCURRENCE rework reject repair use as is Doc 9-7-78 PROJECT FIELD ENGINEER DATE 9-11-78 PROJECT ENGINEER DATE PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE	
17. REPORTED BY Dean A. Delaney 8/28/78		18. VALIDATED BY R. D. MacDonald 8-30-78		25. DISPOSITION RESULTS Documentation received and accepted. Dean A. Delaney 9/14/78	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering Procurement Supervisor to expedite missing documentation. R. D. MacDonald 9-6-78 H. Ward 9/7/78					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE Dean A. Delaney 9/14/78 QC ENGINEER DATE AUTHORIZED INSPECTOR DATE					

NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1509	20. PAGE 1 OF 2																
2. UNIT(S) Indeter- minate	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION 1 1/2" A449 Rod (100 lineal feet in 6 ft. lengths)	5. ITEM LOCATION O.C. Hold, Whse. #1																	
6. P.O. OR SPEC. NO. 7220-F-29202 Rev. 0	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV _____ SER NO. _____		9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Alloy and Carbon Steel																
11. INSPECTION CRITERIA () DWG () SPEC (X) OTHER		IR NO. R-1.00-3667 NO F-29202 Rev. 0	12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During (X) Rec'g () Const () Test																
15. Equip Furnished By () Client () Eng (X) FLD																					
16. NONCONFORMING CONDITION: Purchase Order F-29202 Rev. 0 note 3 requires the material to be marked with the size and length, purchase order number and the heat number(s) either stenciled, painted, or stamped on individual pieces or included on a weatherproof tag when pieces are bundled and note 5 requires certified material test reports showing the exact chemical and physical properties of the material required.				24. DISPOSITION CONCURRENCE																	
				<table border="1"> <tr> <td>rework</td> <td>reject</td> <td>repair</td> <td>use as is</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>		rework	reject	repair	use as is												
rework	reject	repair	use as is																		
				<table border="1"> <tr> <td>PROJECT ENGINEER</td> <td>DATE</td> </tr> <tr> <td><i>[Signature]</i></td> <td>9-12-78</td> </tr> <tr> <td>PROJECT ENGINEER</td> <td>DATE</td> </tr> <tr> <td><i>[Signature]</i></td> <td>9-12-78</td> </tr> <tr> <td>PROJECT CONSTR QC ENGINEER</td> <td>DATE</td> </tr> <tr> <td><i>[Signature]</i></td> <td>9-12-78</td> </tr> <tr> <td>AUTHORIZED INSPECTOR</td> <td>DATE</td> </tr> <tr> <td></td> <td></td> </tr> </table>		PROJECT ENGINEER	DATE	<i>[Signature]</i>	9-12-78	PROJECT ENGINEER	DATE	<i>[Signature]</i>	9-12-78	PROJECT CONSTR QC ENGINEER	DATE	<i>[Signature]</i>	9-12-78	AUTHORIZED INSPECTOR	DATE		
PROJECT ENGINEER	DATE																				
<i>[Signature]</i>	9-12-78																				
PROJECT ENGINEER	DATE																				
<i>[Signature]</i>	9-12-78																				
PROJECT CONSTR QC ENGINEER	DATE																				
<i>[Signature]</i>	9-12-78																				
AUTHORIZED INSPECTOR	DATE																				
17. REPORTED BY Rick A. Mattioul 9-1-78				18. VALIDATED BY <i>[Signature]</i> 9-1-78																	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)																					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering																					
Field Engineering will mark the purchase order number AND HEAT NUMBERS on the bolts.																					
In addition, the procurement supervisor will obtain the required mill test reports, SHOWING THE EXACT CHEMICAL AND PHYSICAL PROPERTIES OF THE MATERIAL.																					
<table border="1"> <tr> <td>Paul Rogers</td> <td>9-11-78</td> </tr> <tr> <td>J. Betts</td> <td>9-11-78</td> </tr> </table>						Paul Rogers	9-11-78	J. Betts	9-11-78												
Paul Rogers	9-11-78																				
J. Betts	9-11-78																				
23. PROJECT ENGINEERING DISPOSITION																					
26. QC ACCEPTANCE																					
<table border="1"> <tr> <td>QC ENGINEER</td> <td>DATE</td> </tr> <tr> <td><i>[Signature]</i></td> <td>9-12-78</td> </tr> <tr> <td>AUTHORIZED INSPECTOR</td> <td>DATE</td> </tr> <tr> <td></td> <td></td> </tr> </table>						QC ENGINEER	DATE	<i>[Signature]</i>	9-12-78	AUTHORIZED INSPECTOR	DATE										
QC ENGINEER	DATE																				
<i>[Signature]</i>	9-12-78																				
AUTHORIZED INSPECTOR	DATE																				

Block 16 Continued

Contrary to the above, (1) material is not marked in any way, (2) certified material test reports received do not show chemical results as required by ASTM A449-77 Section 3.

Hold pending final disposition. "Q" number is indeterminate. 2 hold tag(s) applied to the nonconforming item(s).

NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1514	20. PAGE 1 OF 2
2. UNIT(S) Common	3. DRAWING/PART NO. C-127 Rev. 3 C-128 Rev. 2	REV N/A	4. ITEM DESCRIPTION Omitted Rebar	5. ITEM LOCATION Tank Farm Tank # 2T-60	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE Constr.	10. CONTRACTOR/SUPPLIER N/A
11. INSPECTION CRITERIA ☒ DWG ☐ SPEC ☐ OTHER		12. ASME AUTHORIZED INSPECTION REQ'D ☐ YES ☒ NO		13. SKETCH ATTACHED ☒ YES ☐ NO	14. Discovered During ☐ Rec'g ☒ Const ☐ Test
		15. Equip Furnished By ☐ Client ☐ Eng ☒ FLD			
16. NONCONFORMING CONDITION: DWG, C-128 Rev. 2 Sect. B & D requires 5 #5 rebar to be installed longitudinally in the bottom mat of the "RING WALL" footer. Contrary to the above, only 2 #5's were installed in each side of #3 valve pit slab @ footer intersection per att'd sketch. Concrete is in place in valve pit slab, not yet placed in wall footer. Q-List # 1.003 2 Hold Tags Applied Hold for engineering disposition.				24. DISPOSITION CONCURRENCE rework reject repair use as is STD C. J. Brown 9-6-78 PROJECT FIELD ENGINEER DATE PROJECT ENGINEER DATE J. S. Barclay 9-6-78 PROJ CONSTR QC ENGINEER DATE F. J. Barth 9-6-78 AUTHORIZED INSPECTOR DATE	
17. REPORTED BY Alben Homacek 9-5-78		18. VALIDATED BY J. S. Barclay 9-6-78		25. DISPOSITION RESULTS Repair completed and accepted on QCIR C-1.10-426. SQ 9/19/78	
21. ROUTING: ☒ TO FIELD ENGINEERING ☐ TO OTHERS (SPECIFY)					
22. ☒ Field Engineering Disposition ☐ Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION The 2-#5 dowels as mentioned above are not installed in the proper location, therefore, the field will drill and pour 5-#5 dowels in their proper location in accordance with sect. 8.11 of Spec. C-231, Rev. 11. This will be done on each side of #3 valve pit slab & footer. J. F. Barth 9/6/78					
26. ACCEPTANCE S. J. Barth 9/19/78 QC ENGINEER DATE AUTHORIZED INSPECTOR DATE					

151L
NCR#

Page 2 of 2

ANCHOR BOLTS
SEE DET. 2
C-128

EL 634'-0" ±
FINISH GRADE
EL 635'-0"

PAVEMENT
(SEE SECT. A)
C-49

R RINGWALL & SHELL
BORATED WATER
TANK

1/2" THK MIN. ASPHALT
IMPREGNATED BOARD
COVERED W/ ASBESTOS
PAPER (TYR FOR ALL TANKS)

6" OILED SAND
(SEE NOTE 14)

COMPACTED FILL

#7 @ 12" EW, EF

EL 629'-0"

5-#5

2'-0"
2'-0"
2'-0"
#6 @ 12

REQ'D BARS

UNCONTROLLED
NOT TO BE USED
FOR CONSTRUCTION

INSTALLED BARS

SECTION

D
C-128

SEE DWG C-127

2/8" = 1'-0"

R RINGWALL & SHELL

NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1515	20. PAGE 1 OF 2								
2. UNIT(S) 1	3. DRAWING/PART NO. C-384	REV 4	4. ITEM DESCRIPTION Strucutral Embeds	5. ITEM LOCATION Containment #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 Constr.	10. CONTRACTOR/SUPPLIER N/A									
11. INSPECTION CRITERIA ☒ DWG ☐ SPEC ☐ OTHER		IR NO. N/A NO. C-384	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: All structural embeds on South Secondary Shield Wall at 685 Elev., South West Wing Wall at 685 Elev., and the southerly two embeds of the West Secondary Shield Wall at 685 Elev. were moved while the craft were attempting to get rebar cover. They vary from 1/8" - 2 1/8" out of tolerance. This error was discovered while setting beams. Q #1.102 - Ten (10) Hold Tags Applied On Embeds.				24. DISPOSITION CONCURRENCE									
				<table border="1"> <tr> <td>rework</td> <td>reject</td> <td>repair</td> <td>use as is</td> </tr> <tr> <td></td> <td></td> <td></td> <td>☒</td> </tr> </table>		rework	reject	repair	use as is				☒
rework	reject	repair	use as is										
			☒										
				U. New Above 9-13-78 PROJECT FIELD ENGINEER DATE R. Barclay/RLE 9-13-78 PROJECT ENGINEER DATE W. H. E. for "B" 9-13-78 PROJ CONSTR QC ENGINEER DATE									
17. REPORTED BY R. L. Smith				DATE 9/5/78									
18. VALIDATED BY R. Barclay				DATE 9-6-78									
21. ROUTING: ☒ TO FIELD ENGINEERING ☐ TO OTHERS (SPECIFY)													
22. ☐ Field Engineering Disposition ☒ Field Engineering Recommended Disposition to Project Engineering													
THE FIELD RECOMMENDS TO "USE AS IS". ADEQUATE REBAR IS AVAILABLE ON THE FACE OF EACH EMBED TO MAKE THE CONNECTION. Paul D. Jones 9/11/78 Brent 9/11/78													
23. PROJECT ENGINEER JG DISPOSITION													
Project Engineering has reanalyzed the structural embeds for the conditions described on page 2 and has determined that the mislocated embeds are acceptable for the design loads. Project Engineering, therefore, concurs with the Field Engineering Recommended Disposition to "Use As Is". M. D. Rivers R. Schults REM C-1714 9-13-78 9-13-78													
26. QC ACCEPTANCE Paul D. Jones 9/13/78 QC ENGINEER DATE AUTHORIZED INSPECTOR DATE													

DATE 9/5/78DESIGN BY RY

DATE _____

CHECKED BY _____

SHEET NO. 2

PROJECT _____

NCR SKETCH

JOB NO. 722

SUBJECT _____

CALCULATION NO. _____

FILE NO. _____

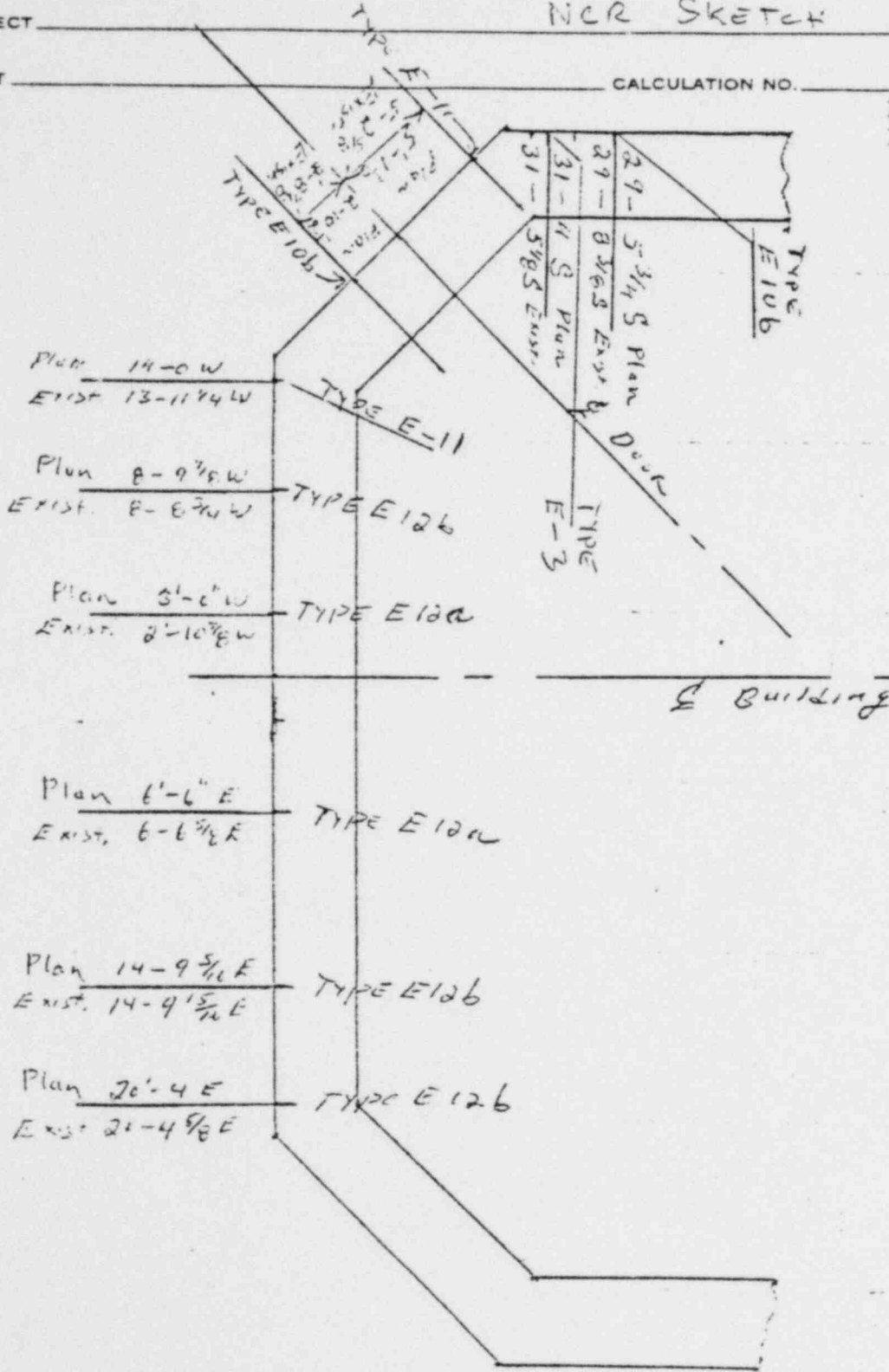
NCR 1515

Page 2 of 2

NOTE: All Dimensions
SW Window
E of Door.

From
Bldg, EXCEPT
which is Dimensioned From

ALL DOORS
TO BE
3'-0" WIDE





NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1522	20. PAGE 1 OF 1
2. UNIT(S) Indeterminate	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION Ht. # HBBB ASME SA-234 WPB 2 Pcs, 6" Sch 120 Smls 90° L/R Elbows	5. ITEM LOCATION Cond. 2 & 3 N. West E.C. Hold, Base, # 1	
6. P.O. ORDER NO. 7220-M-104A-AC Rev. 10	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV _____ SER NO. _____	9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER ITT Grinnell, Kernersville, N.C.	
11. INSPECTION CRITERIA () DWG (X) SPEC (X) OTHER		IR NO. R-1.00-3578 NO. See Blk. 16	12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During (X) Rec'g () Const () Test
15. Equip Furnished By () Client (X) Eng () FL			16. NONCONFORMING CONDITION: 1. Material Requisition 7220-M-104 A Rev. 7 Documentation Submittal Para. 3 requires Quality Verification Documentation in accordance with #1728 #2 G-321-D Form. Project Quality Control Instructions R-1.00 Rev. 7 Para. 2.1.c states in part: "Review the quality verification documentation required by Form G-321-D for availability, legibility and traceability."		
24. DISPOSITION CONCURRENCE rework reject repair use as is J. Brown 9-7-78 PROJECT FIELD ENGINEER DATE J. Barclay 9-13-78 PROJECT ENGINEER DATE PROJ CONST QC ENGINEER DATE AUTHORIZED INSPECTOR DATE					
17. REPORTED BY Marian Donovan 9-7-78			18. VALIDATED BY J. Barclay 9/7/78		
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)			22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering		
1. Field Procurement Supervisor to contact the Vendor (ITT Grinnell) and obtain legible and traceable penetrant examination report.			23. PROJECT ENGINEERING DISPOSITION Wes. Reuther 9-7-78 R. Ward 9/7/78		
2. Field to stamp size of elbow with HT. # HBBB & PE # 6606, using documentation to verify. Q.C. to witness stamping, and code in- spector to verify this option.			24. DISPOSITION RESULTS Ht. # Quality Verification Documentation Rec'd and accepted 9-26-78 M. Donovan 9-26-78		
I did not witness stamp of elbows X Holden 10-2-78			26. ACCEPTANCE J. Brown 10-2-78 QC ENGINEER DATE AUTHORIZED INSPECTOR DATE		

NONCONFORMANCE REPORT (CONT'D)

20 PAGE 2 OF 4

19 NCR NO 1522

Block 16 Continued

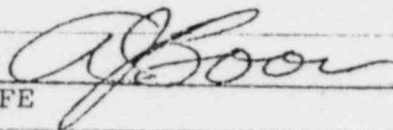
Contrary to the above, Penetrant Examination Reports for PE # 6575, 6605, 6606 and 6607 are illegible and not traceable. (See Attachment A & B) Marking on the two elbows for Ht #HBBL shows PE #6575 and PE #6606.

2. ASME Section II, 1971 Edition, the Summer '71 thru Winter of '73 Addenda, Section SA-234, Para 14 states in part: "All fittings shall have the prescribed information stamped or otherwise suitably marked on each fitting" "The prescribed information for butt welding fittings shall be: The manufacturer's name or trademark, schedule number or nominal wall thickness designation, size, and material". Contrary to the above, PE #6606 does not have the size marked on the elbow.

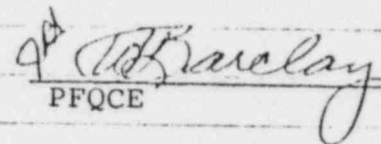
"Q" numbers are indeterminate until installation. Hold pending final disposition. 2 hold tag(s) applied to the nonconforming item(s).

A conditional release is granted to install said elbows. Corrections or removal can be accomplished without causing damage or contamination to the associated plant equipment or structure.

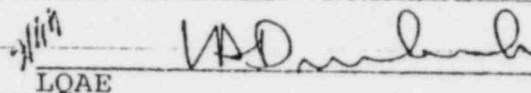
PFE

9-7-78
Date

PFQCE

9-7-78
Date

LQAE

9-7-78
Date

ITT-CORPORATION
PRINCETON, KENTUCKY

JCR # 1522 Page 3 of 4
Attachment "A" Page 1 of 1

PENETRANT EXAMINATION REPORT

Q.	Heat Code	Fitting Size, Type, Grade	PE Spec	Done By	SO No.	Date	Area Inspected		Other	ACCEPTABLE, No Apparent Discontinuities	ACCEPTABLE, Discontinuities Not In Excess Of Specification Standards	UNACCEPTABLE, Discontinuities In Excess Of Specification Standards
							Machined Edges					
578	LINEAL	8" 5/16 x 90	ISF	MS	5189	5/17	Applied				PBCB DA	
599	KCPJ	18" x 14 5/16	ISF 173	MS	5189	5/17						
600	APAD	18" 5/16 x 90	ISF 173	MS	5189	5/17						
601	H08B	6" 5/16 x 90	ISF 173	MS	5189	5/17						
602		5-234 WPA	ISF 173	MS	5189	5/17						
603				MS	5189	5/17						
604				MS	5189	5/17						
605				MS	5189	5/17						
606				MS	5189	5/17						
607				MS	5189	5/17						
608				MS	5189	5/17						
609				MS	5189	5/17						
Method: Visible Dye												
Pre-cleaner: Macrolux Spot												

PENETRANT EXAMINATION REPORT

E.O.	Heat Code	Fitting Size, Type, Grade	PE Spec	Done By	SO No.	Date	Area Inspected		Other	Discontinuities	ACCEPTABLE, No Apparent Discontinuities		ACCEPTABLE, Discontinuities Not In Excess Of Specification Standards	Star
							Machined	Edges						
575	1R25B	6" 5120 WFB	1-SF-173	7/18	55874	5/13/76			C.D.W.	P.D.	✓	✓	✓	
576	✓	34" 375 W	✓	7/18	51723	7/17/76			✓	✓	✓	✓	✓	
576	AKNY	45° 3862 Y28	1-SF-173	6.C	-3						✓	✓	✓	
577	2WY	30344W	✓	RB	38526	3/17/76					✓	✓	✓	
578	2WZ	✓	✓	8IL	✓						✓	✓	✓	
579	KCVK	36" 3015 SR	1-SF-173	7/18	0644	4-9			C.D.W.	✓	✓	✓	✓	
580	AKMP	8" 5120 WFB	1-SF-173	7/18	51555	3-25			C.D.W.	✓	✓	✓	✓	
581	K211	12-570 L490 LITE	1-SF-173	✓	50057	3-76			C.D.W.	✓	✓	✓	✓	
582	KCXV	✓	✓	7/18	✓	3/6/76			✓	✓	✓	✓	✓	
583	KCSF	12" 570 L490 WFB	1-SF-173	7/18	50604	4/13/76			C.D.W.	✓	✓	✓	✓	
584	AKMP	8" 5120 L490 WFB	1-SF-173	7/18	50581	4/13/76			C.D.W.	✓	✓	✓	✓	
585	APL5	18" 14 2/3 TEE WFB	1-SF-173	7/18	51797	7/20/76			C.D.W.	✓	✓	✓	✓	

Method Visable Dye

Cleaner Magnaflux Soot Check SKC-HF

Pre-cleaner Magnaflux Spot Check SKC-NF

Developer Magnaflux Spot Check (Spray) SKD-NF

Penetrant Magnaflux Spot Check (Spray) SKL-HF/SKL

Post Cleaner Magnaflux Soot Check

NONCONFORMANCE REPORT

1. PROJECT NAME Midland						JOB NO. 7220	19. NO. 1523	20. PAGE 1 OF 2							
2. UNIT(S) 1 & 2		3. DRAWING/PART NO. N/A		REV N/A	4. ITEM DESCRIPTION # 10 & # 14 AWG Wire		5. ITEM LOCATION O.C. Hold, Whse. # 1								
6. P.O. OR SPECIFIC 7220-J-201 AC Rev. 8		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N N/A REV _____ SER NO. _____		9. SOURCE Supplier		10. CONTRACTOR/SUPPLIER Magnetics							
11. INSPECTION CRITERIA ☐ DWG ☒ SPEC ☐ OTHER			IR NO. B-1,00-3389 NO J-201 Rev. 4		12. ASME AUTHORIZED INSPECTION REQ'D ☐ YES ☒ NO		13. SKETCH ATTACHED ☐ YES ☒ NO		14. Discovered During ☒ Rec'g ☐ Const ☐ Test		15. Equip Furnished By ☐ Client ☒ Eng ☐ FLD				
16. NONCONFORMING CONDITION: Specification 7220-J-201 Rev. 4 requires Quality Verification Documentation according to Form G-321-D. Contrary to the above, no G-321-D Form has been received from the vendor, for the wire listed below.						24. DISPOSITION CONCURRENCE rework reject repair use as is DOC [initials] DATE 9-29-78 PROJECT FIELD ENGINEER [signature] DATE 10-2-78 PROJ CONSTR QC ENGINEER AUTHORIZED INSPECTOR DATE									
17. REPORTED BY Dean A. Delaney 9/6/78				DATE				18. VALIDATED BY B.Matthews 9/19/78				DATE			
21. ROUTING: ☒ TO FIELD ENGINEERING ☐ TO OTHERS (SPECIFY)												25. DISPOSITION RESULTS BEBC 2202 Win muta spec 5152PP-11 Vulture "G.E." See:			
22. ☒ Field Engineering Disposition ☐ Field Engineering Recommended Disposition to Project Engineering Procurement Supervisor to obtain proper documentation. B.Matthews 9-29-78												Documentation Package and Traceability - R.Malhotra Documentation received and accepted per BEBC 2202. Dean A. Delaney 10/4/78			
23. PROJECT ENGINEERING DISPOSITION															
26. QC ACCEPTANCE Dean A. Delaney 10/4/78 QC ENGINEER DATE AUTHORIZED INSPECTOR DATE															

Block 16 Continued

10,000 ft. - # 14 AWG, SIS, Black

15,000 ft. - # 14 AWG, SIS, Red

15,000 ft. - # 14 AWG, SIS, Green

10,000 ft - # 14 AWG, SIS, Orange

9,700 ft. - # 14 AWG, SIS, Blue

9,400 ft. - # 10, AWG, SIS, Black

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

Inter-office Memorandum

DEBC- 2202

To J. F. Newgen
Subject Midland Plant Units 1 & 2
Job 7220
Wire for Control Panel
Modification
Copies to File: J-5501, J-203B-PR, 0274

Date April 12, 1978

From R. L. Castleberry

Of Engineering

At Ann Arbor

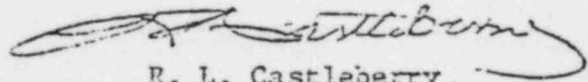
APR 13 1978

BECHTEL POWER CORP.
JOB 7220

PER _____

P. Martinez
R. Hermeston
G. Butler
D. Duckering - Midland Jobsite
W. Nielsen- Midland Jobsite
J. Hurley

- 1) This is in response to your IOM, BCBE-1726R(0) dated December 22, 1977.
- 2) We have estimated that the following quantity of wire will be required to complete the control panel modifications.
 - a) GE SIS Vulkane Type SI-57277-11
#14 AWG-Black, Red, Green, Orange, Blue -20,000 ft each
 - b) GE SIS Vulkane Type SI-57277-17
#10 AWG Black - 10,000 ft
#10 AWG Red, Green - 5,000 ft each
#10 AWG Orange, Blue - 2,000 ft each
- 3) Bechtel Procurement is being advised to purchase this wire under P.O. 7220-J-203-EC from Magnetics based on your request. This wire is qualified for P.O. 7220-J-201 and 7220-J-202. Delivery is expected within 4 weeks after release of the P.O.
- 4) If you have any further questions, please advise.


R. L. Castleberry

AJ/cap
4/4/4



NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1525	20. PAGE 1 OF 1	
2. UNIT(S) Indeterminate	3. DRAWING/PART NO. See Block 16	REV N/A	4. ITEM DESCRIPTION Tubetrack	5. ITEM LOCATION Poseyville, Grid IN24		
6. P.O. OR SPEC. NO. 7220-F-3135 Rev. 0 Rel. 1	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV _____ SER NO. _____		9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER James C. White Company	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. R-1.00-3733 NO. G-33 Rev. 1	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 (X) FLD
16. NONCONFORMING CONDITION: Specification 7220-G-33 Rev. 1 requires, for Q-listed instrument and tubing support materials, a Statement of Conformance, a Material Certificate of Compliance and Receiving Inspection. Contrary to the above, a Material Certificate of Compliance has not been received from the vendor, for 3000 ft.-2" x 4" x 2" Tubetrack Channel-Part # CH4GC-2.0 and 4000 ft.-2" x 2" Tube-track angle-Part # A2HD-2GC. "Q" number is indeterminate. Hold pending final disposition. 4 hold tag(s) applied to the nonconforming item(s).				24. DISPOSITION CONCURRENCE rework reject repair use as is DOE 9-12-78 PROJECT FIELD ENGINEER DATE PROJECT ENGINEER DATE PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE		
17. REPORTED BY Dean A. Delaney 9/8/78		18. VALIDATED BY D. Barclay 9/11/78		25. DISPOSITION RESULTS Material Certificate of Compliance received and accepted. Dean A. Delaney 9/14/78		
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)						
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering Procurement material supervisor is to obtain the required documentation from the vendor. R. J. Hagg 9-12-78						
23. PROJECT ENGINEERING DISPOSITION						
26. QC ACCEPTANCE Dean A. Delaney 9/14/78 QC ENGINEER DATE AUTHORIZED INSPECTOR DATE						



NONCONFORMANCE REPORT

Corrected Copy

9-20-78

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1529	20. PAGE 1 OF 3
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 O.C. Hold, Whse. #2	
6. ORDER SPEC NO. 7220-J-603	7. SERIAL NO. See Blk. 16	8. REPLACEMENT PART P/N N/A REV	9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Target Rock Corporation	
11. INSPECTION CRITERIA () DWG (x) SPEC () OTHER		IR NO. Various NO	12. ASME AUTHORIZED INSPECTION REQ'D (x) YES () NO	13. SKETCH ATTACHED () YES (x) NO	14. Discovered During (x) Rec'g () Const () Test
15. Equip Furnished By () Client (x) Eng () FLD				16. NONCONFORMING CONDITION: Specification 7220-J-603 (formally J-256) Rev. 6, Appendix G, marking, identification & crating, Para. 2.0 states in part "Body markings shall comply with MSS-SP-25." Manufacturers standardization society-standard practice SP-25 Para. 8.2.1 states in part "Steel valves shall be marked on the body with numerals to designate the ASA B16.5 pressure group, i.e., 400, 600, 900."	
24. DISPOSITION CONCURRENCE rework reject repair use as is				N/A	
25. DISPOSITION RESULTS PROJECT HAS DETERMINED THAT THE MSS-SP-25 REQUIREMENTS ARE NOT APPLICABLE Kermit Deitz 9-18-78				26. OC ACCEPTANCE K. Deitz 9-18-78 OC ENGINEER K. Deitz 9-18-78 AUTHORIZED INSPECTOR K. Deitz 9-18-78	
17. REPORTED BY Kermit Deitz		DATE 9/8/78		18. VALIDATED BY W. Barclay	
21. ROUTING: (x) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		DATE 9-12-78		23. PROJECT ENGINEERING DISPOSITION	
22. (x) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering		Refer to Page 4 of 4 which is suppliers deviation disposition request #76B-4 (Bechtel SDDR#872) which relieves the supplier from marking the subject valves in accordance with MSS-SP-25. R. J. Lys 9-15-78			



See Block 16 - Continued

Contrary to the above, the following valves are not marked with the pressure class on the valve body as required by the Specification:

QCIR-3547	Tag 1SV-0303B	QCIR-3366	Tag 2SV-1127A
	2SV-0403B		2SV-1127B
QCIR-3503	Tag 1SV-0150		1SV-0122
	2SV-0250		2SV-0222
	1SV-0155	QCIR-3364	1SV-0337A
	2SV-0255		1SV-0337B
QCIR-3366	Tag 1SV-0334		1SV-0337C
	2SV-0434		1SV-0337D
	1SV-0302A		2SV-0437A
	1SV-0302B		2SV-0437B
	2SV-0402A		2SV-0437C
	2SV-0402B		2SV-0437D
	1SV-0303A	QCIR-3365	Tag 1SV-0151
	2SV-0403A		2SV-0251
	1SV-0346		1SV-2109
	2SV-0446		2SV-2209
	1SV-1005A		1SV-2110
	1SV-1005B		2SV-2210
	2SV-1105A		1SV-2131
	2SV-1105B		2SV-2231
	1SV-0335		1SV-2137
	2SV-0435		2SV-2237
	1SV-1027A		1SV-2125
	1SV-1027B		2SV-2225



NONCONFORMANCE REPORT (CONT'D)

20 PAGE

3

OF

8

19 NCR NO

1529

Block 16 Continued

QCIR-3365 Tag 1SV-2126

2SV-2226

1SV-2139

2SV-2239

1SV-2140

2SV-2240

1SV-0123

2SV-0223

1SV-0127

2SV-0227

1SV-0128

2SV-0228

QCIR-3363 Tag 1SV-0350A

1SV-0350B

1SV-0350C

1SV-0350D

2SV-0450A

2SV-0450B

2SV-0450C

2SV-0450D

10B-9-26-78
~~Corrected Copy~~

"Q" number is 5.023. Hold pending final disposition. 68 hold tag(s) applied to the nonconforming item(s).

Supplier Deviation Request

CERTIFIED MAIL NO.
651452 (R.R.R.)

FOR SUPPLIER USE		NOTE: The reverse side of this form contains the instructions for its preparation and use. Items marked with an asterisk (*) are for Bechtel's use only.		FOR BECHTEL USE	
Supplier SDR No. 7611-4	Date Submitted 8/30/78			Bechtel SDR No. 8/30/78	Date Submitted 8/30/78
ATTENTION: R. L. CASTLEBERRY, PROJ. ENGR. - DUXHILL JOB 7220/ANAL. PART 1110					
Supplier Name: TAINET DICK CORPORATION, Address: 1966 E. BIRMINGHAM RD., City & State: ALA. 3611735					
Supplier's Order No. 7611-4	Supplier's Part No.	Supplier's Part Name	Date Deviation Determined	A. Previous SDR No. & Date	
Buyer's P. O. No. 7220-1256-AC	Buyer's Part No.	Buyer's Part Name	By Bechtel Inspector Notified BY MAIL 9-8-78	By Bechtel Engr. Notified DUXHILL TXW 3490	
13. Deviation Description (Attach extra sheets, photographs, sketches, etc. as necessary) ALL BOLLHOOD VALVES DO NOT HAVE THE ASA PRESSURE CLASS STAMPED IN THE VALVE BODIES.					
14. Supplier's Deviation Classification ☒ Accept As Is ☐ Permit ☐ Modify Buyer's Requirement					
15. Required Disposition and Technical Justification: REVIEW ATTACHED SPECIFICATION 7220-1603 TO REMOVE THE REQUIREMENT OF MARKING BOLLHOOD VALVE BODIES WITH THE APPLICABLE PRESSURE CLASS. THESE VALVES HAVE BEEN DESIGNED TO OPERATE AT THE REQUIRED DESIGN PRESSURE & TEMPERATURE, BUT CANNOT BE EXPECTED TO OPERATE THROUGHOUT THE RANGE OF PRESSURE & TEMPERATURE OF THEIR RESPECTIVE ANSI B16.5 PRESSURE GRADE. UNDER THESE CONDITIONS, THE BOLLHOOD VALVES DO NOT MEET THE ASA PRESSURE CLASS TO BE MARKED ON THE VALVE BODY. THESE VALVES COMPLY WITH THE REQUIREMENTS OF HYDROSTATIC PRESSURE, MINIMUM WALL THICKNESS, ETC., OF THEIR APPLICABLE ANSI B16.5 PRESSURE GRADE. (REFERENCE: THE TXW 1927 DATED 8/25/78)					
16. Associated Supplier Document Change(s)					
17. Supplier Authorized Representative Signature: <i>Robert A. Wells</i> Name: ROBERT A. WELLS Title: PROJECT ENGINEER Date: 8/30/78					
18. Bechtel Engr. Action: Engr. Follow-up: ☐ Design Change ☐ Other ☒ Spec. Change ☐ Discipline or Suppliers Affected					
19. Bechtel Disposition (Attach extra sheets, photographs, sketches, etc. as necessary) The design specification will be revised to delete the requirement for marking the ANSI B16.5 pressure class rating on the valve bodies as required by MSS-SP-25. Valve markings shall be as required to comply with ASME section III only. Other identification (such as Bechtel tag and seller's nameplate) shall be as required by the purchase order.					
20. Supplier Signatures		Date		Verification Signatures	
<i>Robert A. Wells</i>		8/30/78		21. Supplier	
		8/30/78		22. Bechtel Engr.	

NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1530		20. PAGE 1 OF 1	
2. UNIT(S) Indeterminate		3. DRAWING/PART NO. N/A		REV N/A		4. ITEM DESCRIPTION Heat # 8LBBH 10 Pcs 2 x 3 Concentric Reducers SA-234 WPB	
5. ITEM LOCATION Q.C. Hold, Whse. # 1		6. P.O. OR SPEC NO. 7220-F-26129 Rev. 0		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N N/A REV _____ SER NO. _____	
9. SOURCE Supplier		10. CONTRACTOR/SUPPLIER McJunkin Corporation		11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO	
13. SKETCH ATTACHED () YES (X) NO		14. Discovered During (X) Rec'g () Const () Test		15. Equip Furnished By () Client () Eng (X) FLD		16. NONCONFORMING CONDITION: Specification M-305 Rev. 3 para. 7.1 states "All submittals and documentation will conform to the procedures and quantities specified by Form G-321-D." Contrary to the above, no Form G-321-D was received with the Quality Verification Documentation package supplied for the ten 2 x 3 concentric reducer. "Q" number is indeterminate until installation. Hold pending final disposition. 1 hold tag(s) applied to the nonconforming item(s).	
17. REPORTED BY John R. Alfieri		DATE 9-11-78		18. VALIDATED BY H. D. Foster		DATE 9-12-78	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering Procurement supervisor to obtain proper document.		23. PROJECT ENGINEERING DISPOSITION		24. DISPOSITION CONCURRENCE rework reject repair use as is J. J. Gilman PROJECT FIELD ENGINEER 9/13/78 J. J. Gilman PROJECT ENGINEER 9/13/78 J. J. Gilman PROJ CONSTR QC ENGINEER 9/13/78 J. J. Gilman AUTHORIZED INSPECTOR 9/13/78	
25. DISPOSITION RESULTS Corrected G321.D received and reviewed John R. Alfieri 9-13-78		26. QC ACCEPTANCE John R. Alfieri 9-13-78 QC ENGINEER AUTHORIZED INSPECTOR		DATE DATE		DATE	



NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1531	20. PAGE 1 OF 3
2. UNIT(S) Indeterminate	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION 5659 Swagelock Fittings	5. ITEM LOCATION Q.C. Hold, Whse. # 1	
6. P.O. OR SPEC NO. Rel. 1 Rev. 0 7220-F-3139 Rev. 0	7. SERIAL NO. See Blk 16	8. REPLACEMENT PART P/N N/A REV	SER NO.	9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER H.E. Lennon, Inc.
11. INSPECTION CRITERIA () DWG (x) SPEC () OTHER		IR NO. R-1.00-3569 NO. J-710 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: 1. Specification 7220-J-710 Rev. 3 indicates Quality Verification Documentation according to Form G-321-D Rev. 1. Contrary to the above, G-321-D Form received for material listed on Attachment "A" is Rev. 0.			24. DISPOSITION CONCURRENCE rework reject repair use as is N/A PROJECT FIELD ENGINEER DATE 9-25-78 PROJECT ENGINEER DATE 9-25-78 PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE		
Continued on Page 2					
17. REPORTED BY Marianne Donovan 9-11-78		DATE		18. VALIDATED BY J. Barclay 9-12-78	
DATE		DATE		25. DISPOSITION RESULTS Documentation received and accepted for item 2 9-26-78. M. Donovan 9-28-78	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering (1) Field Engineering Recommended Disposition to Project Engineering NOT A NON CONFORMING CONDITION. PURCHASE ORDER HAS BEEN REVISED TO ALLOW REV. 0 OF G-321-D FORM (2) In accordance with letter M.H. 2041 R(h) and TTX 3651 (Castleberry to Neugen) project engineering has approved the use of low density polyethylene #720 for thread protector material for material procured under specification 7220-J710 (Q). The field procurement supervisor is to obtain a certificate of compliance to the material specification. R. L. Hays 9-22-78					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE M. Donovan 9-28-78 QC ENGINEER DATE AUTHORIZED INSPECTOR DATE					



NONCONFORMANCE REPORT (CONT'D)

20 PAGE 2 OF 3 19 NCR NO 1531

Block 16 Continued

2. Specification 7220-J-710 Rev. 3 Para. 3.C.3 requires tubing ends closed with nonmettalic caps or plugs used on austenitic stainless steel fittings to have a certified analysis of the maximum amounts of detrimental contaminants contained in the caps or plugs. Corrary to the above, no Certificate of Compliance was received for the caps on the material listed on Attachment "A." (The material received with caps are shown with an *.)

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

PART NO.	QUANTITY
SS-400-1-4 *	50
SS-400-1-6 *	50
SS-400-1-8 *	50
SS-600-1-4 *	200
SS-600-1-6 *	50
SS-600-1-8 *	500
SS-600-1-12 *	500
SS-400-2-4 *	50
SS-400-2-6 *	50
SS-400-2-8 *	50
SS-600-2-4 *	100
SS-600-2-6 *	100
SS-600-2-8 *	100
SS-400-5-4 *	20
SS-600-5-4	0
SS-400-3-4TMT*	20
SS-600-3TMT*	20
SS-400-3-4TTM*	20
SS-600-3TTM*	20
SS-400-7-4	25
SS-400-7-6	25
SS-400-7-8	25
SS-600-7-4	25
SS-600-7-6	25
SS-600-7-8	25
SS-400-8-4	20
SS-600-8-4	20
SS-600-8-6	20
SS-400-3-4TFT	20
SS-600-3TFT	20

PART NO.	QUANTITY
SS-400-3-4TTF	20
SS-600-3TTF	20
SS-400-6	100
SS-600-6	500
SS-400-9	50
SS-600-9	100
SS-400-3	40
SS-600-3	500
SS-400-4	20
SS-600-4	20
SS-400-P	100
SS-600-P	500
SS-402-1	100
SS-602-1	200
SS-404-1	100
SS-604-1	500
SS-403-1	100
SS-603-1	500



NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1538	20. PAGE 1 of 1
2. UNIT(S) Common	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION 2 Pressure Switches	5. ITEM LOCATION Q.C. Hold, Whse. # 1	
6. P.O. OR SPEC NO. 7220-M-20-AC Rev. 2	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV _____ SER NO. _____		9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER FMC Corporation
11. INSPECTION CRITERIA () DWG (x) SPEC () OTHER		IR NO. R-1,00-3611 NOM-20 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-20 Rev. 2 requires Quality Verification according to Form G-321-D. Contrary to the above, no Form G-321-D or Quality Verification Documentation has been received. "Q" number is indeterminate. Hold pending final disposition. / hold tag(s) applied to the nonconforming item(s).				24. DISPOSITION CONCURRENCE rework reject repair use as is DOC A. Boon 9-14-78 PROJECT FIELD ENGINEER DATE A. Barclay 9-15-78 PROJECT ENGINEER DATE PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE	
17. REPORTED BY John R. Alfieri Jr 9-11-78		18. VALIDATED BY A. Barclay 9-14-78		25. DISPOSITION RESULTS Documentation received and reviewed and accepted John R. Alfieri Jr 9-15-78	
21. ROUTING: (x) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. (x) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering Procurement supervisor to obtain correct documentation from the vendor. R. Ward 9/14/78					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE John R. Alfieri Jr 9-15-78 QC ENGINEER DATE AUTHORIZED INSPECTOR DATE					

NONCONFORMANCE REPORT

[illegible]

September 26, 1978

Attention: J. L. Corley

Dear Mr. Corley:

Very truly yours,

W Presbach

LAD/TKS/re

Attachment

CA ROUTE	INFO.	ACT.
LQAE		
CIVIL (I)		
ADMINO		
	RE	
SECY	RE	
FILE NO	8-27	0

QUALITY ACTION REQUEST

QA XI 418

From: L. A. Dreisbach		(1)	
To: J. F. Newgen	(2) Control Document ref.: FIG 1.700	(3) QAR Ident. No.: SD-102	(4)
Action Requested: Para. 2.0 of FIG 1.700 applies to FSK's "in general for "Q" list		(5)	
work but may also apply to non "Q" work as well if directed by Project Superin-			
tendent . . ." FSK's in civil discipline do not have "Q" indication. In			
contrast FSK's in mechanical and electrical disciplines do have "Q" identification			
when they deal with "Q" list items. Doc. Control cards also identify the "Q"			
status of Mech. & Elect. items. Appropriate corrective action is required.			
Signature: <i>L. A. Dreisbach</i>		(6) Date: 9-6-78	(7) Reply Requested by: 10-4-78
(8)		(9)	
Reply: IOM J. F. Newgen to L. A. Dreisbach of September 12, 1978 indicates that "The			
situation in civil work is different; the breakdown of Q versus non-Q is clear			
and most generally falls directly along building or structural guidelines, e.g.,			
Aux. Building, structural steel Q. . . " Also acceptance of 'Q' Listed work			
is based on design drawings. Hence Q designator is not going to be used even on			
future civil issued FSKs.			
Signature: J. F. Newgen (copy of IOM attached)		(10) Date: Sept. 12, 1978	(11)
Action Verified: <i>QAR SD 102 could be considered closed.</i>		(12) Date: September 20, 1978	(13)

8/2/74

WHITE — Return to sender

CANARY — Addressee's file

PINK — Sender's file

GPC 20877

Bechtel Power Corporation

Interoffice Memorandum

To L.A. Dreisbach

Subject Job 7220 Midland Project
QAR-SD-102
O-1935

File No.

Date September 12, 1978

From J.F. Newgen

Of Construction

Copies to J.P. Betts

At Midland, MI Ext.

This letter is in response to QAR-SD-102. Field instruction FIG-1.700 does not require the use of the "Q" designator on field sketches. The "Q" designator has been used on electrical and mechanical drawings as a "helping hand" because the limits of Q versus non-Q work in these areas may not always be apparent. The situation in civil work is different; the breakdown of Q versus non-Q is clear and most generally falls directly along building or structural guidelines, e.g., Auxiliary Building structural steel (Q) versus Turbine Building structural steel. In short, different conditions apply.

Additionally, Quality Control does not perform acceptance of Q-listed work based on field sketches. All inspection of record is done to design drawings.

Based on the foregoing we see no reason to retrofit the use of the Q designator on civil field sketches or future civil issued field sketches.

J.F. Newgen
for J.F. Newgen

JFN/AJB/mb

QA <i>EX</i>	INFO	ACT.
ROUTE		
LOAE		
CIVIL (1)		
MECH		
PIPING		
ELECT.		
INSTR.	✓	418
TREND		
SECY		
FILE NO. Q-1935		

RECEIVED

SEP 14 1978
BECHTEL POWER CORP.
JOB 7220

File I-78-353

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640



September 6, 1978

Consumers Power Company
P.O. Box 1963
Midland, MI 48640

Attention: J. L. Corley

Job 7220 Midland Project
Project QAR SD-103 Issue
LAD: 427

Dear Mr. Corley:

Attached for your information is a copy of the subject QAR issue.

Very truly yours,

L. A. Dreisbach
Project Quality Assurance Engineer

LAD/ES/re

Attachment

QA ROUTE	INFO.	ACT.
IQAE		
CIVIL (1)		
ARCH		
PEING	X	gt
ELECT.		
Mech.		
COND	X	
SECTY		
FILE NO.		

QA A1 419

271

BPC 20877
21001-46-05

J. F. Newgen
SD-103
Page 2

civil FSX's do not indicate reference drawings used for preparation of FSX's. List is attached.

Appropriate corrective action is recommended.

5024, REV 1/73

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640



September 8, 1978

Consumers Power Company
P.O. Box 1963
Midland, MI 48640

Attention: J. L. Corley

Job 7220 Midland Project
Project QAR SD-104 Issue
LAD: 430

Dear Mr. Corley:

Attached for your information is a copy of the subject QAR issue.

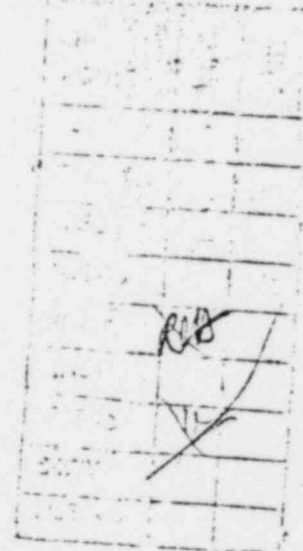
Very truly yours,

A handwritten signature in dark ink, appearing to read "L. A. Dreisbach".

L. A. Dreisbach
Project Quality Assurance Engineer

LAD/DH/re

Attachment



QUALITY ACTION REQUEST

QA Action Item
422

From: L. A. Dreisbach		①	
To: R. L. Castleberry	② Control Document ref.: NA	③ QAR Ident. No.: SD-104	④
Action Requested: The Safety Related Equipment Room located in the auxiliary building, normally kept closed off, was opened up and a blower set up to ventilate the area while welding the HVAC duct being installed in the room. A subsequent inspection of the Bailey Emergency Core Cooling Actuation Systems (ECCS) located in the Safety Related Equipment Room revealed a layer of fine dust through out the interior of the cabinets completely covering the printed circuit assemblies and other components.			⑤
(See Page 2)			
Signature: LADreisbach		⑥ Date: 9-11-78	⑦ Reply Requested by: 10-9-78
Reply:		⑧	
Signature:		⑩ Date:	⑪
Action Verified:		⑫ Date:	⑬

8/2/74

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BPC 20877

B&W standard FS-III-14-12 & 13 Rev. 4 on the storage and installation of instrumentation and controls require that all electronic and control equipment have a controlled environment to preclude possible harm due to airborne particulate matter.

Project Engineering is requested to respond to the following concerns.

- 1) Determine if the dust is detrimental to the operation of the ECCS.
- 2) Determine what level of cleanness the cabinet interior should be maintained at.
- 3) Determine if the cabinets can be effectively cleaned to an acceptable level of cleanness.

RECOMMENDED ACTION:

If it is determined that ECCS cabinet cleanliness is below an acceptable level and could be detrimental to ECCS operation:

- 1) Request that the other instrumentation cabinets located in the Safety Related Equipment Room be examined for excessive dust.
- 2) Request Quality Control to issue NCR's for disposition on the affected equipment.
- 3) Request construction to take actions to preclude repetition.

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640



September 8, 1978

Consumers Power Company
P.O. Box 1963
Midland, MI 48640

Attention: J. L. Corley

Job 7220 Midland Project
Project QAR SD-105
LAD: 431

Dear Mr. Corley:

Attached for your information is a copy of the subject QAR issue.

Very truly yours,

L. A. Dreisbach

L. A. Dreisbach
Project Quality Assurance Engineer

LAD/RH/re

Attachment

QA ROUTE	INFO.	ACT.
LOAE		
CIVIL (I)		
MECH		
PIPING		
ELECT	<i>OK</i>	
INST.		
INS	<i>X</i>	
SECT		
FILE NO.		

QA Action Item 442

8/2/74

BPC-20877
G1001649-05

Recommended Action:

Determine the validity of these concerns described above and if valid, establish the necessary criteria to be implemented by the field.

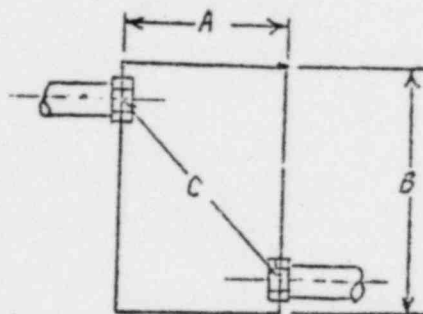


Figure 1

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640



September 22, 1978

Consumers Power Company
P.O. Box 1963
Midland, MI 48640

Attention: J. L. Corley

Job 7220 Midland Project
Project QAR SD-106
LAD: 455

Dear Mr. Corley:

Attached for your information is a copy of the subject QAR issue.

Very truly yours,

L. A. Dreisbach
Project Quality Assurance Engineer

LAD/AO/re

Attachment

14-6

QA ROUTE	INFO.	ACT.
LQAE		
CIVIL (I)		
MECH	X	
PIPING		
ELECT.		
WELD.		
ND	X 15	
SECY		
FILE NO.		

QUALITY ACTION
REQUEST

[illegible]

8/2/74

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PINK - Sender's file

BPC 20877

G1001649.05

Instruct Subcontracts administration personnel that only engineering decisions and properly approved engineering documentation reflecting same be provided to subcontractors on technical matters.

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640



September 19, 1978

Consumers Power Company
P.O. Box 1963
Midland, MI 48640

Attention: J. L. Corley

Job 7220 Midland Project
Project QAR SD-107 Issue
LAD: 448 Action Item: 425

Dear Mr. Corley:

Attached for your information is a copy of the subject QAR issue.

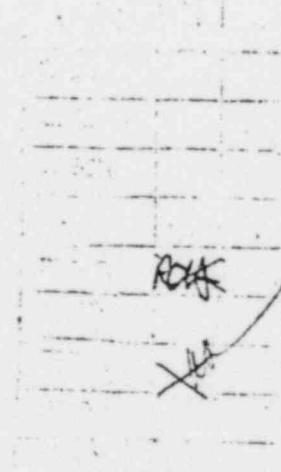
Very truly yours,

A handwritten signature in cursive script, appearing to read "L. A. Dreisbach".

L. A. Dreisbach
Project Quality Assurance Engineer

LAD/RH/re

Attachment



QUALITY ACTION REQUEST

QA Action Item
425

From: L. A. Dreisbach		(1)
To: J. Newgen	(2) Control Document ref.: Dwg. E-42 Rev. 33	(3) QAR Ident. No.: SD-107
Action Requested:		(5)
An examination of electrical cable tray and related seismic supports located in the Aux. Building at 634 elevation between 5.1 and 5.6 lines north along B wall revealed the following:		
1) No mechanism established to assure electrical tray and support welds are painted to protect against corrosion (ref. Section I para. 6.0 of dwg. E-42); A majority of the welds associated with the electrical cable tray and supports examined were unpainted and rusted.		
(See Page Two)		
Signature: LADreisbach	(6) Date: 9-18-78	(7) Reply Requested by: 10/9/78
Reply:		(8)
		(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 20377
G1001640 05

- 2) Two 2" permanent plant heating pipes were attached to a type 12 electrical support located 2'-8' north along B line and 1 ft. east of 5.1 line.

Recommended Action

- 1) Establish and implement a procedure for assuring that welds are painted subsequent to Quality Control acceptance.
- 2) Examine installed electrical cable tray and support welds for unpainted welds and correct accordingly.
- 3) Remove the permanent plant heating pipes from electrical supports or obtain Project Engineering approval for the pipes attachment to the support.
- 4) Determine if criteria exist or is needed which prohibits supporting piping (and other mechanical hardware) on electrical seismic supports.

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640



October 3, 1978

Consumers Power Company
P.O. Box 1963
Midland, MI 48640

Attention: J. L. Corley

Job 7220 Midland Project
Project QAR SD-109
LAD: 467

Dear Mr. Corley:

Attached for your information is a copy of the subject QAR issue.

Very truly yours,

L. A. Dreisbach
Project Quality Assurance Engineer

LAD/RA/re

Attachment

QA ROUTE	INFO.	ACT.
LOAE		
CIVIL (I)		
MECH		
PIPING	QAR	
ELECT		
WATER		
IS	✓	
SECT		
FILE NO.		

32-1

QUALITY ACTION REQUEST

QA Action Item
432

From: L. A. Dreisbach		(1)
To: R. L. Castleberry	(2) Control Document ref.: M-201 Para. 6.3.7g	(3) QAR Ident. No.: SD-109
Action Requested:		(4)
1) Spec. 7220-M-201 requires post bending heat treatment of all stainless steel piping. (Ref. para 6.3.7g)		(5)
2) Para. 9.3d of the same spec. requires stress relief charts.		
3) ITT Grinnell drawing attached for spool marked 2HCB-54-5614-3-1A indicates heat treatment is required.		
4) ITT Grinnell form N9.18 (attached) for above spools examination and Document checklist does not require or reference post bend heat treatment chart.		
5) Form G-321 does not require post bending heat treatment verification.		
Based on the above, PQA requests the following:		
(See attached page)		
Signature: LA Dreisbach	(6) Date: 10-3-78	(7) Reply Requested by: 11-3-78
Reply:		(8)
		(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

HPC 20377
G1001649 05

- 1) Project Engineering to determine if the G-321 form should reflect the requirements of paragraph 9.3d of the referenced specification re-submittal of post bend heat treat charts. Response requested within 30 calendar days.
- 2) Procurement to verify that ITT Grinnell has conformed to Para. 6-3d of the referenced specification regarding post bond heat treatment of all stainless steel piping, response requested by 10 working days.

The above response dates were discussed with PQE on 10/3/78.

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640



September 26, 1978

Consumers Power Company
P.O. Box 1963
Midland, MI 48640

Attention: J. L. Corley

Job 7220 Midland Project
Project QAR SD-110
LAD: 466 Action Item: 430

Dear Mr. Corley:

Attached for your information is a copy of the subject QAR Issue.

Very truly yours,

L. A. Dreisbach
Project Quality Assurance Engineer

LAD/AA/re

Attachment

QA	ROUTE	PROG.	ACT.
	LQAE		
	CIVIL (I)		
	MECH		
	PIPING		
	ELECT.		
	INDU.		
	TREND	X	
	SECY		
	FILE NO.		

QUALITY ACTION REQUEST

QA Admin Hum
430

From: L. A. Dreisbach		①	
To: R. C. Himmelsbach	② Control Document ref.: NQAM Section III, No. 9	③ QAR Ident. No.: SD-110	④
Action Requested: NQAM Section III, No. 9, Rev. 2-A requires (in paragraph 3.2.1)			⑤
that the Procurement Supplier Quality Representative review the supplier quality			
verification documentation for acceptability prior to granting release for			
shipment. Missing, incomplete or incorrect documentation shall be cause for			
denying the supplier permission release the equipment for shipment.			
The following NCRs documenting inadequate documentation received from Anchor-			
Darling on Nuclear Service Valves (P.O. M-117AC, M-125CC):			
(continued on page 2)			
Signature: <i>LA Dreisbach</i>		⑥ Date: 9-22-78	⑦ Reply Requested by: 10-22-78
Reply:		⑧	
Signature:		⑩ Date:	⑪
Action Verified:		⑫ Date:	⑬

8/2/74

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PINK - Sender's file

GPC 20877

NCRs-	1433	1476
	1472	1477
	1474	1478
	1475	

Recommended Action:

Evaluate the extent of these oversights by the PSQR and take appropriate corrective action to preclude repetition.

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640



September 26, 1978

Consumers Power Company
P.O. Box 1963
Midland, MI 48640

Attention: J. L. Corley

Job 7220 Midland Project
Project QAR SD-111
LAD: 465 Action Item: 431

Dear Mr. Corley:

Attached for your information is a copy of the subject QAR Issue.

Very truly yours,

L. A. Dreisbach
Project Quality Assurance Engineer

LAD/AA/re

Attachment

QA ROUTE	INFO	ACT.
LOGAR		
CONV. (1)		
CONV. (2)		
CONV. (3)		
CONV. (4)		
CONV. (5)		
CONV. (6)		
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CONV. (100)		

Q2 Actum Item
431

8/2/74

PINK — Sender's file

9



INFO.	ACT.
28	X

QUALITY ACTION REQUEST

From: G. L. Richardson	Site QA	Job 7220	(1)
To: W. L. Barclay	(2) Control Document ref.: ASME Code Sect. III	(3) QAR Ident. No.: SD-83	(4)
Action Requested:			(5)
A monitor by Quality Assurance to check the fillet weld size for ASME socket welds has resulted in the following observations:			
I. Code requirements:			
A. ASME Code, Section III, Division 1, para. NB, NC, ND & NE 4427 requires that socket fillet welds for other than flanges shall be 1.09 times the nominal wall thickness. For example the weld size for a one inch pipe, schedule 40 would be .133 X 1.09 = .145 inches.			
B. Specification 7220-G-27, Rev. 6 also contains this requirement in General Welding Standards.			
II. Inspection Criteria (continued on attached sheet)			
Reply:			(9)
POCI W-1.00 Rev. 4 was issued which requires the measurement of final socket weld size and has been implemented 7/24/78 by IOM O-1869. Monitor M-24.2.3 of 8/15/78 did not reveal any problem with socket weld size.			
Signature: IOM O-1369		(10) Date: 7/24/78	(11)
Action Verified: <i>[Signature]</i>		(12) Date: 8/23/78	(13)

8/2/78

WHITE -- Return to sender

CANARY -- Addressee's file

PINK -- Sender's file

BPC 20877
C1001649 05

- A. Quality Control inspects these welds to the requirements of the BQAM, Appendix 3 (WD-1). WD-1, Rev. 4, para. 8.8.3 (Instructions for Use of Form WR-5A) states for block 13: "Make a visual examination of each completed weld and upon acceptance, initial and date the space provided."
- B. There presently is not other inspection criteria or instruction reference for use.
- C. Specification 7220-G-27, Rev. 6 does include a procedure for visual examination (VE-BPC-1, Rev. 0). This procedure does provide for physical measurement of weld size but form 84 does not reference this procedure for this type of welding.
- D. There are no devices on site for accurately measuring socket fillet to the requirements of the ASME code. Standard fillet weld gauges available on site are in increments of 1/16 inch and are too long in many cases to fit between sockets.

III. Inspection Practices

- A. Field personnel are aware of the code requirements and the inspection methods described in WD-1.
- B. Through general discussion it appears that socket fillet welds are not being measured for size on this site utilizing measuring devices. The size is being determined utilizing the visual requirement and visual comparison to the socket wall thickness.

Monitor Results

- A. 52 socket fillet welds were checked using standard fillet gauges and one "homemade" gauge of approximately .145 inches. This homemade gauge was used to measure borderline welds for leg size.
- B. Minimum weld size for 3/4" pipe is .125 inches (1/8) and for 1" pipe is .145 inches which falls between 1/8" (.125) and 3/16" (.1875).
- C. By utilizing the standard gauges 36 of the 52 welds were measured to be larger than minimum size. The remaining 16 were welds on 1 inch pipe that fell between the 1/8 and 3/16 in gauges. These remaining 16 welds were checked with the homemade gauge for leg size only and found acceptable. Four of these welds are considered marginal by Quality Assurance. It was not possible to measure the throat size for these 16 welds.

V. Actions Requested

- A. Based on the previous identified problems with fillet weld size (Ref. MCAR-21 and 23) it is recommended that Quality Control evaluate the current methods of inspection to assure that these inspections will result in the identification of unacceptable welds.

Bechtel Power Corporation

Interoffice Memorandum

RECEIVED
AUG 14 1978
BECHTEL POWER CORP.
JOB 7220

To: All Piping Superintendents,
General Foremen, and Foremen

Subject: Job 7220 Midland Project
Fabrication and Installation
Of ASME Section III Piping
Systems
O-1869

Copies to: J. Corder
O. Holman
G. Richardson;
W. Barclay
B. Daly

File No.

Date: July 24, 1978

From: J. F. Newgen

Of: Construction

At: Midland, MI EXL 200

QA ROUTE	INFO	ACT.
LOAE	W	
CIVIL (1)		
ELTRY		
INDU		
SECY		
FILE NO.		

Effective this date, all welding and NDE of ASME Section III piping systems shall be documented on a QCIR W1.00 Form in accordance with Quality Control Instruction W1.00. Welds in which welding or NDE is in-progress as of this date may be completed using the WR-5 or WR-5A Form.

Requests for QCIR W1.00 Forms for welding ASME Section III piping systems shall be directed from craft supervision to the area field welding engineer. Field Welding Engineering shall prepare the welding and NDE requirements portion of the QCIR W1.00 Form for ASME Section III piping systems, and shall forward the QCIR W1.00 Form to the Lead Welding Quality Control Engineer for review, establishment of Hold Points by the Authorized Inspector, and distribute to the field.

Please allow a minimum of 48 hours for the preparation of QCIR W1.00 Forms prior to welding, as it will take a while to "shakedown" the new system. Urgent requests for QCIR W1.00 Forms will be processed the same day, when possible. However, these urgent requests should be held to a minimum.

Distribution and routing of the QCIR W1.00 Form shall be in accordance with Quality Control Instruction W1.00.

Welding of ASME Section III piping systems shall not begin until Copy #4 of the QCIR W1.00 Form is placed on the joint by the field welding engineer. Copy #1 and #2 of the QCIR W1.00 Form shall be placed on the weld joint by the Q.C. Welding Engineer.

All Piping Superintendents,
General Foremen, and Foremen
July 24, 1978
Page two

Until August 19, 1978, the Q.C. welding engineer shall be notified by the field welding engineer when the joint is fit-up and ready for welding. This is no change from the present system. After August 19, Q.C. will inspect weld-joint cleanliness, bevel, and fit-up on a surveillance basis.

Your assistance and support is requested in order to implement this new program for welding ASME Section III piping systems.



J. F. Newgen

JFN/JRB/rac

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640



August 24, 1978

Consumers Power Company
P.O. Box 1963
Midland, MI 48640

Attention: J. L. Corley

Job 7220 Midland Project
Project QAR SD-87 Closeout
LAD: 414 File: Q2200

Dear Mr. Corley:

Attached for your information is a copy of the subject QAR Closeout.

Very truly yours,

L. A. Dreisbach

L. A. Dreisbach
Project Quality Assurance Engineer

LAD/ES/re

Attachments

QAR ROUTE	INFO	INT
LOPE		
CIVIL (H)		
MECH		
PIPELINE	XX	
FEED		
INST		
WELD	XX	
CEM		
THE END		

5

2774

U⁴C 20377

CANARY - Addressee's file

PINK - Sender's file

the lower weld, attaching TS 6 X 6 X 0.25, to be a fillet weld in lieu of a partial groove fillet reinforced weld. Only two of the fourteen examples indicated review or checking by other than the electrical discipline Field Engineer.

ACTION REQUESTED:

- A. Evaluate the attached examples and take appropriate corrective action to assure compliance with para. 7.2 of FPD-2.000, Rev. 0. Specifically, assure the correctness, completeness and technical adequacy of welding requirements and symbols used in FCR/FCN that are presented to the Resident Project Engineer. Two possible actions are:
 - 1. Train the Electrical Field Engineer group in welding symbols or,
 - 2. Have each FCR/FCN that involves welding reviewed and approved by the Lead Field Welding Engineer.
- B. Correct the welding symbol on page 7 of FCR E-801 mentioned above.

Bechtel Power Corporation

Interoffice Memorandum

337

To: G. L. Richardson

Subject: Job 7220 Midland Project
QAR SD 87
0-1879

File No.

Date: July 28, 1978

From: J. F. Newgen

of: Construction

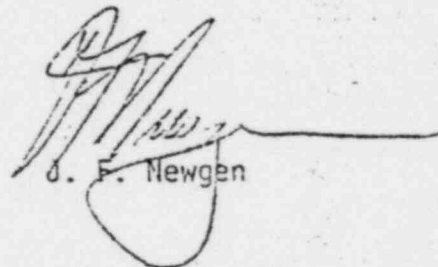
Copies to: A. J. Boos
W. L. Barclay
R. G. MacGlashan

At: Midland, MI Ext.

Reference: 1) IOM, A. J. Boos to All Lead Discipline Engineers and Area Lead Engineers, dated July 28, 1978.

The following corrective action to QAR SD 87 has been taken:

- 1) All Lead Discipline Engineers and Area Lead Engineers were reminded (Reference 1) that they are responsible to assure that all FCR/FCN's that involve welding, including the use of welding symbols, are reviewed for correctness by the Lead Field Welding Engineer.
- 2) Project Engineering is revising FCR E-801, page 7 of 7, to specify the correct welding symbol.


J. F. Newgen

JFN/JRB/ems

RECEIVED

AUG 1 1978

BECHTEL POWER CORP.
JOB 7220

FILE # 78-301

DATE	INFO	ACT.
ROUTE		
LGAE	LAD	
CIVIL (S)		
MECH		
PIPING	X	
ELECT		
DIST.		
TEND		
GENY		
FILE NO.	Q2200	

SD-87

337

Bechtel Power Corporation

Interoffice Memorandum

QAR

To: All Lead Discipline Engineers
and Area Lead Engineers

Subject: Job 7220 Midland Project
FCR/FCN Review for Welding
Requirements
0-1878

Copies to: G. L. Richardson
W. B. Barclay
J. F. Newgen
R. G. MacGlashan

File No.

Date: July 28, 1978

From: A. J. Boos

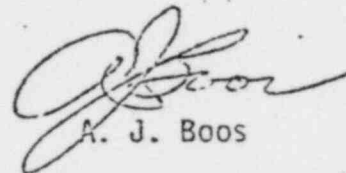
Of: Construction

At: Midland, MI

Ext.

All Lead Discipline Engineers and Area Lead Engineers are responsible to assure that all FCR/FCN's that specify welding requirements, welding symbols, etc., are reviewed for correctness by the Lead Field Welding Engineer.

All questions concerning welding, including the use of welding symbols, are to be directed to the Lead Field Welding Engineer.


A. J. Boos

AJB/JRB/ems

CA	
ROUTE	
LOAE	WAD
CHIEF (1)	
INCH	CA
MANE	ES
TEST	✓
INST.	✓
TRNG	
FILE	

RECEIVED
JUL 31 1978
BECHTEL POWER CORP.
JOB 7220

PER re

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640



August 10, 1978

Consumers Power Company
P.O. Box 1963
Midland, MI 48640

Attention: J. L. Corley

Job 7220 Midland Project
Project QAR SD-89 Close Out
GLR: 391 Action Item: 380

Dear Mr. Corley:

Attached for your information is a copy of the subject QAR.

Very truly yours,

L. Richardson
for G. L. Richardson
LEAD QUALITY ASSURANCE ENGINEER

GLR/ES/re

Attachment

QA ROUTE	INFO.	ACT.
LQAE	WV	
CIVIL (I)		
MECH		
PIPING	20	
ELECT.		
INST.		
TREND	X	
SEC'Y		
FILE NO.		

QUALITY ACTION REQUEST

From: G. L. Richardson		Site QA		Job 7220		(1)
To: J. F. Newgen		(2) Control Document ref.: III Para. 4321 and 4322	(3)	QAR Ident. No.: SD-89		(4)
Action Requested:						(5)
Background: The BOAM-ASME III Div. 1 Rev. 3 paragraph 4321 and 4322 requires						
ASME material supplies to be purchased only from suppliers who have been approved						
by a Procurement Inspection Department Survey. Procurement Inspection Department						
prepares and maintains a list of acceptable ASME material suppliers and						
manufacturers which is available to all Bechtel projects. This list is currently						
known as the Evaluated Supplier List (ESL).						
The ESL currently identifies ASME suppliers as acceptable, based on the possession						
of an "N" stamp or a Bechtel Procurement Inspection Department Survey. The						
BOAM Rev. 3 recognizes only the Bechtel survey as the means of determining						
acceptability. Continued on next page						
Signature: <i>R.C. Hollan for G.L. Richardson</i>		(6)	Date: 6/26/78	(7)	Reply Requested by: 7/26/78	(8)
Reply: The new issue of the BOAM (Rev. 0 Adm. 8) has been implemented at Midland,						(9)
which recognizes possession of a valid and current ASME certification as						
demonstration of an acceptable quality program. Since this is consistent with the						
Evaluated Supplier List used by Field Procurement to determine supplier						
acceptability, including J. T. Ryerson, this problem ceases to exist.						
Signature: <i>10M JFN/GLR dtd 7/25/78 (Attached)</i>				(10)	Date: 7-25-78	(11)
Action Verified: <i>E. Smith</i>				(12)	Date: 8/4/78	(13)

8/2/78

WHITE -- Return to sender

CANARY -- Addressee's file

PINK -- Sender's file

BPC 20877
G107144-25

Subsequent to a Supplier Quality presentation at the site, field procurement identified and verbally notified QA personnel that material has been procured from suppliers who were indicated as approved in the ESL, but have not been surveyed by Bechtel Procurement Inspection Department i.e. ASME III structural shapes and plates from J. T. Ryerson & Son, Chicago, Illinois on P.O. 7220-F-29282Q.—Field procurement is currently investigating this area to identify if other such cases exist.

Action Requested:

Take appropriate action to assure that material procurements are in accordance with the BQAM as follows:

- 1 a. Amend the BQAM to allow using the ESL as currently issued i.e. permitting ASME survey in lieu of Bechtel Procurement Inspection Department Surveys. *OR.*
- 1 b. Identify all purchases from suppliers who have not been found acceptable by a Bechtel Procurement Inspection Department survey and,

Document all cases identified in 1b above on Nonconformance Reports.

Bechtel Power Corporation

Interoffice Memorandum

To: G. L. Richardson

Subject: Quality Action Request
No. 330

Copies to: Al Boos
J. Gilmartin
J. Barbee
F. W. Elliott

Date: July 25, 1978

From: J. F. Newgen

Of: Construction

At: Midland, MI
Job 7220

Amendment No. 8 to the BQAM dated June, 1978, states that Material Manufacturers and Suppliers, listed by the Procurement Supplier Quality Department, must have a quality program meeting Bechtel and/or ASME Section III division requirements. Revision 8 also indicates demonstration of a quality program can be by either the possession of a valid and current ASME certificate or a survey of the manufacturer or supplier by PSQD. Based on this amendment the action requested in item 1 a has been accomplished.

J. F. Newgen
J. F. Newgen

JFN:MEH:jmh

RECEIVED

JUL 26 1978
BECHTEL POWER CORP.
JOB 7220

PER Re. I-78-291

CA	INFO	ACT
ROUTE		
LGAE	✓	
CIVIL (I)		
MECH		
PIPING	✓	382
ELECT	✓	
INSV.		
ND		

REPORT OF NONCONFORMITY

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

TO BE COMPLETED BY FIELD QC

SYSTEM OR PART NAME		JOB NO.	DATE
1 STEAM GENERATOR		2 CL-238	3 9-12-78
DRAWING VIOLATED & REV.	VENDOR NAME	REJECT TAG NOS.	
4 143020E Rev. 9	5 B&W	6212 (North 1E-51A) 213 (South 1E-51B)	
PROC/SPEC. VIOLATED	P.O. NO.	PART NO.	SYSTEM DESIGNATION
7 FS-III-2	8 ML.6	9 1E-51A & 1E-51B	10 Reactor Coolant
CORRECTIVE ACTION REQUIRED		REPORTED BY	
11 ☐ YES ☒ NO		12 J. Rheinhardt	

CONDITION DETAILS

Upset metal exists at inner edge of manway counter bore area.
Probable cause; frequent removal of dessicant containers on manway covers.

See attachments 1 & 2 for areas affected.

13

CONDITION DETAILS VERIFIED BY

B&W QC

14 SUPV. R. W. Hogue DATE 9-12-78

DISPOSITION REQUESTED FROM

☒ B&W CONSTRUCTION ☐15 BY R. W. Hogue DATE 9-12-78

REPORTABILITY: PER 10 CFR 50.55 (E)

☐ REPORTABLE☒ NON-REPORTABLE

BY

D. E. Kinsala DATE 9-12-78

DISPOSITION INSTRUCTIONS

ACTION

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

Tape all seal surfaces on manway openings to minimize further damage. Prior to closing manway opening, inspect & map the manway seal surfaces for upset metal. Blend grind to remove upset metal & sharp depressions. P.T. inspect ground areas per 9-PT-101.

17

DISPOSITION APPROVED BY

B&W QC SUPV.

B&W FPE

OTHER

OTHER

DATE 9-12-78DATE 9-12-78DATE 9/15/78

DATE

DISPOSITION DETAILS BY

19

ACTION COMPLETED

20 BY

DATE

TO BE COMPLETED BY FIELD QC

REWORK INSPECTION ☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE ☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE

21 BY _____ DATE _____

REPORT OF

NONCONFORMITY

NON CONFORMITY CLOSED

22 B&W QC SUPV. _____ DATE _____

CORRECTIVE ACTION DESCRIPTION

TO BE COMPLETED BY F.P. MANAGER

23

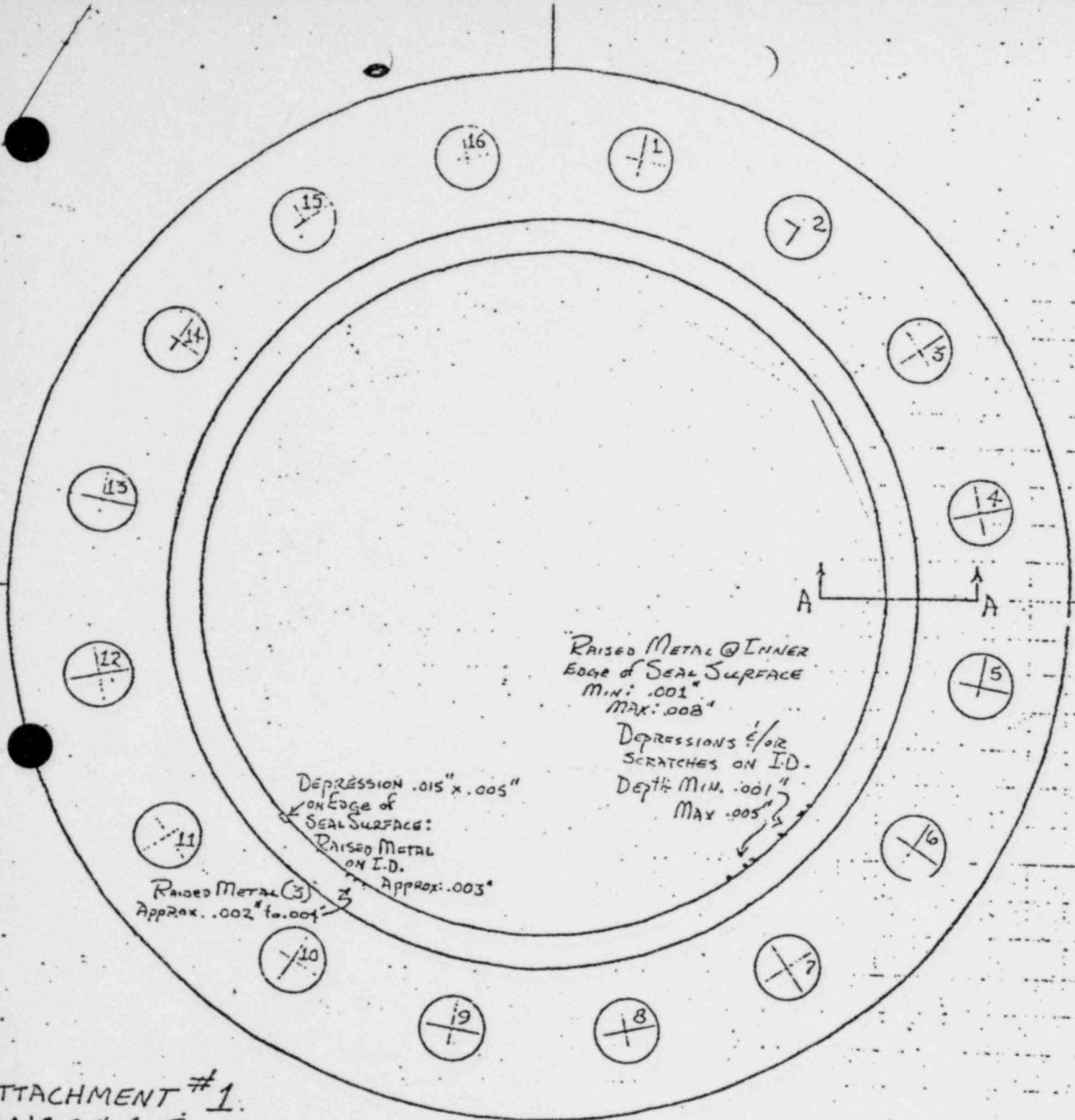
FIELD PROJECT MANAGER

ANI

ANI ACCEPTANCE

24

DATE _____



ATTACHMENT #1
NCR # 425

E-51A
UPPER HEAD
WAY COVER
-8-78

AREA AFFECTED



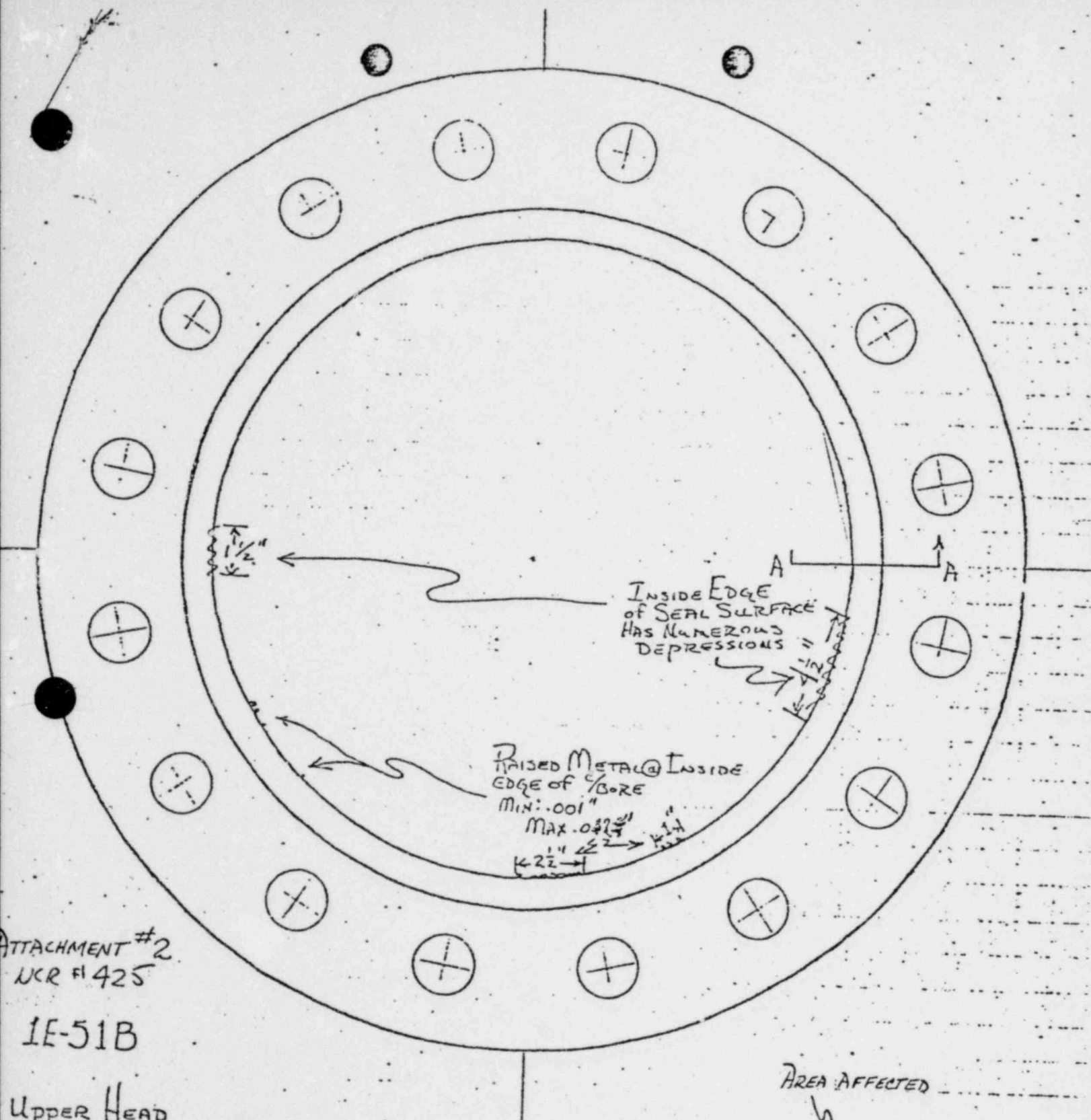
VIEW AA

ATTACHMENT #2
UCR #1425

1E-51B

Upper Head
m/way Opening

9-8-78



AREA AFFECTED

VIEW AA

REPORT OF NONCONFORMITY

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

TO BE COMPLETED BY FIELD QC

TO BE COMPLETED BY F.P. ENGINEERING

TO BE COMPLETED BY FIELD QC

TO BE COMPLETED BY F.P. ENGINEER

SYSTEM OR PART NAME 1 HOT LEG A-24-1		JOB NO. 2 CL-238	DATE 3 9-14-78
DRAWING VIOLATED & REV. 4 150177E, Rev. 8	VENDOR NAME 5 B&W	REJECT TAG NOS. 6 240	
PROC/SPEC. VIOLATED 7 9-PT-101, Rev. 1	P.O. NO. 8 N/A	PART NO. 9 A-24-1	SYSTEM DESIGNATION 10 Hot Leg
CORRECTIVE ACTION REQUIRED 11 ☐ YES ☒ NO		REPORTED BY 12 H. Stout	

CONDITION DETAILS

(1) transverse indication approximately 1/2" long on cladding and base material. At cladd and base material transition area on I.D. of weld prep for weld WJ 6-2, indication was found during P.T. examination at sequence 080 of FCP 27.

13

CONDITION DETAILS VERIFIED BY B&W QC SUPV. <u>R W Hope</u> DATE <u>9-14-78</u>	DISPOSITION REQUESTED FROM ☒ B&W CONSTRUCTION ☐ 15 BY <u>R W Hope</u> DATE <u>9-14-78</u>
---	--

REPORTABILITY PER 10 CFR 50.55 (E)

☐ REPORTABLE ☒ NON-REPORTABLE BY D. E. Kinsale DATE 9-14-78

16

DISPOSITION INSTRUCTIONS ACTION

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

Remove indication by grinding. Examine ground area per 9-PT-101 to assure removal of indication. Measure and record cavity size. Proceed with fit-up and welding of pipe. After removal of Lacking ring, repair area per WIN-101-2 for carbon steel and WIN-105-3 for stainless steel area. PT repair area per 9-PT-101.

17

DISPOSITION APPROVED BY B&W QC SUPV. <u>R W Hope</u> DATE <u>9-14-78</u> B&W FPE <u>D. E. Kinsale</u> DATE <u>9-14-78</u> OTHER <u>RE W Hope</u> DATE <u>9/15/78</u> OTHER _____ DATE _____	DISPOSITION DETAILS BY 19 <u>D. E. Kinsale</u> ACTION COMPLETED 20 BY _____ DATE _____
---	---

REWORK INSPECTION ☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE ☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE

21 BY _____ DATE _____ REPORT OF NONCONFORMITY

NON CONFORMITY CLOSED

22 B&W QC SUPV. _____ DATE _____

CORRECTIVE ACTION DESCRIPTION

23

FIELD PROJECT MANAGER

ANI ACCEPTANCE

24 DATE _____

REPORT OF NONCONFORMITY

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

TO BE COMPLETED BY FIELD QC	SYSTEM OR PART NAME		JOB NO.	DATE
	1 REACTOR VESSEL (UNIT #2)		2 CL-238	3 9-19-78
	DRAWING VIOLATED & REV.	VENDOR NAME	REJECT TAG NOS.	
	4 C-376	5 B&W	6 214	
TO BE COMPLETED BY F.F. ENGINEERING	PROC/SPEC. VIOLATED	P.O. NO.	PART NO.	SYSTEM DESIGNATION
	7 FS-111-1A	8 M-1.1	9 2T-51	10 Reactor Coolant
	CORRECTIVE ACTION REQUIRED		REPORTED BY	
	11 ☒ YES ☐ NO		12 R. D. Murphy /	
TO BE COMPLETED BY FIELD QC	CONDITION DETAILS			
	Approximately 10 gallons of liquid was found in the inside of the lower head of the Reactor Vessel. Water samples have been obtained.			
	13			
	CONDITION DETAILS VERIFIED BY		DISPOSITION REQUESTED FROM	
14 B&W QC SUPV. <u>RW Shope</u> DATE <u>9-19-78</u>		15 ☒ B&W CONSTRUCTION ☐ DATE <u>9-19-78</u>		
TO BE COMPLETED BY F.F. ENGINEERING	REPORTABILITY PER 10 CFR 50.5 (e)			
	16 ☐ REPORTABLE ☒ NON-REPORTABLE BY <u>D.E. Kunkle</u> DATE <u>9-19-78</u>			
	DISPOSITION INSTRUCTIONS ACTION			
	17 ☐ ACCEPT AS IS ☐ SCRAP ☒ REWORK ☐ RETURN TO VENDOR Send water samples to Consumers Power Co. for analysis. Remove water from Reactor. Wipe interior surface with spot check cleaner SKC-NF, followed by rinsing with potable water. Rinse or wipe with demineralized water and wipe dry. Check cleanliness by taking random swipe samples on I.D. surface near the top, middle and bottom of Reactor. If test is not satisfactory, repeat cleaning & testing as necessary.			
TO BE COMPLETED BY FIELD QC	DISPOSITION APPROVED BY		DISPOSITION DETAILS BY	
	18 B&W QC SUPV. <u>RW Shope</u> DATE <u>9-19-78</u> B&W FPE <u>D.E. Kunkle</u> DATE <u>9-19-78</u> OTHER <u>[Signature]</u> DATE <u>9-19-78</u> OTHER <u>[Signature]</u> DATE <u>9-19-78</u>		19 <u>D.E. Kunkle</u> ACTION COMPLETED 20 BY <u>Gary Hays</u> DATE <u>9/21/78</u>	
	REWORK INSPECTION ☒ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE ☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE			
	21 BY <u>RW Shope</u> DATE <u>9-25-78</u> REPORT OF NONCONFORMITY <u>N/A</u>			
TO BE COMPLETED BY FIELD QC	NON CONFORMITY CLOSED			
	22 B&W QC SUPV. <u>RW Shope</u> DATE <u>9-25-78</u>			
	CORRECTIVE ACTION DESCRIPTION			
	23 The protective enclosed area(house) will be rebuilt over the Reactor Vessel to avoid further recurrence of the problem. Bechtel is to inform all the sub-contractors so everyone will co-operate to protect the vessel. <u>L. N. Angler</u> FIELD PROJECT MANAGER			
TO BE COMPLETED BY ANI	ANI ACCEPTANCE			
	24 <u>[Signature]</u> DATE <u>9-20-78</u>			

ANALYSIS RESULTS FORM

1. Sample Number #1-B H₂O in Reaction Vessel Bottom Unit #2
2. Technician DDH / ESM
3. Time/Date 1400 9-18-78

4. Analysis Results

A. Water Quality

	<u>Procedure Number</u>	<u>Results</u>
Chlorides (ppm)	<u>8133.9</u>	<u>1600 DA</u>
Fluorides (ppm)	<u>8136.1</u>	<u>3.8</u>
Sulfides (ppm)		
Silicates (ppm)		
Suspended Solids (ppm)	<u>8149.4</u>	<u>0.128</u>
Dissolved Solids (ppm)		
pH	<u>8146.3</u>	<u>6.43 @ 20°C</u>
Conductivity (umho/cm)	<u>8133.3</u>	<u>3,900</u>

B. Flush Quality

	<u>Procedure Number</u>	<u>Results</u>
pH		
Conductivity (mho/cm)		
Particle Size (Inches)		
Sliver Size (Inches)		

C. Other Tests

Results

5. Notes

Procedures are not on Q.A. program.

6. Reagents used checked for expiration. (Initial)

DA

7. Equipment used checked for calibration or standardized as appropriate. (Initial)

DA except Cond.

8. Requesting individual informed of results by phone, mail, verbal. (Circle)

Time

9. Supervisor's Approval

[Signature]

ANALYSIS RESULTS FORM

1. Sample Number B B+W S dip #1

2. Technician DDH

3. Time/Date 1335 9-21-78

4. Analysis Results

A. Water Quality

Chlorides (ppm)
Fluorides (ppm)
Sulfides (ppm)
Silicates (ppm)
Suspended Solids (ppm)
Dissolved Solids (ppm)
pH
Conductivity (mho/cm)

Procedure Number

8133.9

8136.1

Results

40.1

40.1

B. Flush Quality

pH
Conductivity (mho/cm)
Particle Size (Inches)
Sliver Size (Inches)

Procedure Number

Results

C. Other Tests

Results

5. Notes

Procedures Not Under Q.A. program

6. Reagents used checked for expiration. (Initial) DA

7. Equipment used checked for calibration or
standardized as appropriate. (Initial) DA

8. Requesting individual informed of results by
phone, mail, verbal. (Circle) Time 1500

9. Supervisor's Approval DA

Time

ANALYSIS RESULTS FORM

1. Sample Number 4 B+W Swipe #2
2. Technician DDH
3. Time/Date 1335 9-21-78
4. Analysis Results

A. Water Quality	<u>Procedure Number</u>	<u>Results</u>
Chlorides (ppm)	<u>8133.9</u>	<u>0.20</u>
Fluorides (ppm)	<u>8136.1</u>	<u>40.1</u>
Sulfides (ppm)	<u> </u>	<u> </u>
Silicates (ppm)	<u> </u>	<u> </u>
Suspended Solids (ppm)	<u> </u>	<u> </u>
Dissolved Solids (ppm)	<u> </u>	<u> </u>
pH	<u> </u>	<u> </u>
Conductivity (mho/cm)	<u> </u>	<u> </u>

B. Flush Quality	<u>Procedure Number</u>	<u>Results</u>
pH	<u> </u>	<u> </u>
Conductivity (mho/cm)	<u> </u>	<u> </u>
Particle Size (Inches)	<u> </u>	<u> </u>
Sliver Size (Inches)	<u> </u>	<u> </u>

C. Other Tests Results

5. Notes

Procedures Not Under Q.A. Program

6. Reagents used checked for expiration. (Initial) DDH
7. Equipment used checked for calibration or
standardized as appropriate. (Initial) DDH
8. Requesting individual informed of results by
phone, mail, verbal. (Circle)
9. Supervisor's Approval Time 1500
DDH

ANALYSIS RESULTS FORM

1. Sample Number 5 B+W swipe #3
2. Technician DBH
3. Time/Date 1335 9-21-78
4. Analysis Results

A. Water Quality

	<u>Procedure Number</u>	<u>Results</u>
Chlorides (ppm)	<u>8133-9</u>	<u><0.1</u>
Fluorides (ppm)	<u>8134.1</u>	<u><0.1</u>
Sulfides (ppm)		
Silicates (ppm)		
Suspended Solids (ppm)		
Dissolved Solids (ppm)		
pH		
Conductivity (mho/cm)		

B. Flush Quality

	<u>Procedure Number</u>	<u>Results</u>
pH		
Conductivity (mho/cm)		
Particle Size (Inches)		
Sliver Size (Inches)		

C. Other Tests

Results

5. Notes

Procedures Not Under QA Program

6. Reagents used checked for expiration. (Initial) DBH
7. Equipment used checked for calibration or
standardized as appropriate. (Initial) DBH
8. Requesting individual informed of results by
phone, mail, verbal. (Circle)
9. Supervisor's Approval

Time 1509
[Signature]

ANALYSIS RESULTS FORM

1. Sample Number 6 B+W Swipe #4
2. Technician DDH
3. Time/Date 1335 9-21-78

4. Analysis Results

A. Water Quality

Chlorides (ppm)
Fluorides (ppm)
Sulfides (ppm)
Silicates (ppm)
Suspended Solids (ppm)
Dissolved Solids (ppm)
pH
Conductivity (mho/cm)

Procedure Number

Results

8133.9

40.1

8134.1

<0.1

B. Flush Quality

pH
Conductivity (mho/cm)
Particle Size (Inches)
Sliver Size (Inches)

Procedure Number

Results

C. Other Tests

Results

5. Notes

Procedures Not Under Q. A. program

6. Reagents used checked for expiration. (Initial) DA
7. Equipment used checked for calibration or
standardized as appropriate. (Initial) DA
8. Requesting individual informed of results by
phone, mail, verbal. (Circle)
9. Supervisor's Approval

Time 1500
Rptus

ANALYSIS RESULTS FORM

1. Sample Number 7 B+W Sample #5
2. Technician DDA
3. Time/Date 1335 9-21-78
4. Analysis Results

A. Water Quality	<u>Procedure Number</u>	<u>Results</u>
Chlorides (ppm)	<u>8133.9</u>	<u>0.18</u>
Fluorides (ppm)	<u>8136.1</u>	<u>0.30</u>
Sulfides (ppm)	<u> </u>	<u> </u>
Silicates (ppm)	<u> </u>	<u> </u>
Suspended Solids (ppm)	<u> </u>	<u> </u>
Dissolved Solids (ppm)	<u> </u>	<u> </u>
pH	<u> </u>	<u> </u>
Conductivity (mho/cm)	<u> </u>	<u> </u>

B. Flush Quality	<u>Procedure Number</u>	<u>Results</u>
pH	<u> </u>	<u> </u>
Conductivity (mho/cm)	<u> </u>	<u> </u>
Particle Size (Inches)	<u> </u>	<u> </u>
Sliver Size (Inches)	<u> </u>	<u> </u>

C. Other Tests	<u>Results</u>
----------------	----------------

5. Notes

Procedures Not Under Q.A. Program

6. Reagents used checked for expiration. (Initial) DA
7. Equipment used checked for calibration or
standardized as appropriate. (Initial) DA
8. Requesting individual informed of results by
phone, mail, verbal. (Circle)
9. Supervisor's Approval [Signature]

Time 1500

REPORT OF NONCONFORMITY

B&W CONSTRUCTION COMPANY

TO BE COMPLETED BY FIELD

ENGINEERING

TO BE COMPLETED BY

COMPLETED BY FIELD QC

COMPLETED BY MANAGER

ANI

SYSTEM OR PART NAME 1 Incore Instrumentation Support Unit #2		FCP #9 2 CL-238	JOB NO. 3 9-25-78
DRAWING VIOLATED & REV. 4 2-352-HPL (Q)-2	VENDOR NAME 5 Standish	REJECT TAG NOS. 6 245	
PROC/SPEC. VIOLATED 7 FCP #9 Unit #2	P.O. NO. 8 M-106 AC	PART NO. 9 IC2-HPL #26	SYSTEM DESIGNATION 10 Incore Instrumentation
CORRECTIVE ACTION REQUIRED 11 ☐ YES ☒ NO		REPORTED BY 12 A. C. Ashworth / <i>A.C. Ashworth</i>	

CONDITION DETAILS

Number 12 (1 3/8") hole in plate number 26 is missing. The drilling of this hole was not performed in the shop per drawing #2-352-HPL,(Q), Rev. 2.

13	CONDITION DETAILS VERIFIED BY B&W QC 14 SUPV. <i>R.W. Thorne</i> DATE <i>9-25-78</i>	DISPOSITION REQUESTED FROM ☒ B&W CONSTRUCTION 15 BY <i>R.W. Thorne</i> DATE <i>9-25-78</i>
----	--	--

REPORTABILITY PER 10 CFR 50.55 (E) ☐ REPORTABLE ☒ NON-REPORTABLE 16	BY <i>D.E. Kinsler</i> DATE <i>9-25-78</i>
--	--

DISPOSITION INSTRUCTIONS

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

Layout hole location per drawing requirements and drill in place. Bechtel concurrence required.

17	DISPOSITION APPROVED BY B&W QC SUPV. <i>R.W. Thorne</i> DATE <i>9-25-78</i> B&W FPE <i>D.E. Kinsler</i> DATE <i>9-25-78</i> OTHER <i>R.E. Kinsler</i> DATE <i>9/26/78</i> 18 OTHER _____ DATE _____	DISPOSITION DETAILS BY 19 ACTION COMPLETED 20 BY _____ DATE _____
----	---	--

REWORK INSPECTION ☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE 21 BY _____ DATE _____	☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE REPORT OF NONCONFORMITY
--	---

NON CONFORMITY CLOSED 22 B&W QC SUPV. _____ DATE _____

CORRECTIVE ACTION DESCRIPTION

FIELD PROJECT MANAGER

23	ANI ACCEPTANCE 24 DATE _____
----	---------------------------------

REPORT OF NONCONFORMITY

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

TO BE COMPLETED BY FIELD QC

TO BE COMPLETED BY F.P.M. ENGINEER

TO BE COMPLETED BY FIELD QC

TO BE COMPLETED BY F.P.M. ENGINEER

TO BE COMPLETED BY F.P.M. ENGINEER

SYSTEM OR PART NAME 1 R.C. Pipe A-24-2		JOB NO. 2 CL-238	DATE 3 9-27-78
DRAWING VIOLATED & REV. 4 150189E, Rev. 4		VENDOR NAME 5 B&W Mt. Vernon	
PROC/SPEC. VIOLATED 7 FCP #27 Unit #2		REJECT TAG NOS. 6 246	
P.O. NO. 8 N/A		PART NO. 9 A-24-2	SYSTEM DESIGNATION 10 Reactor Coolant Sys
CORRECTIVE ACTION REQUIRED 11 ☐ YES ☒ NO		REPORTED BY 12 A. C. Ashworth <i>A.C. Ashworth</i>	

CONDITION DETAILS

The 36.791" $\pm$.010" I.D. bore is bored to 36.798" and stainless steel cladding remains in this area 360° and extends to the weld prep edge. Approximately 75% of this surface is affected. (See attached sketch).

CONDITION DETAILS VERIFIED BY 14 B&W QC SUPV. <i>Rw Hoge</i> DATE 9-27-78		DISPOSITION REQUESTED FROM ☒ B&W CONSTRUCTION ☐ 15 BY <i>Rw Hoge</i> DATE 9-27-78	
--	--	--	--

REPORTABILITY PER 10 CFR 50.55 (E) ☐ REPORTABLE ☒ NON-REPORTABLE		BY <i>D. E. Hirsch</i> DATE 9-27-78	
--	--	-------------------------------------	--

DISPOSITION INSTRUCTIONS		ACTION ☐ ACCEPT AS IS ☐ SCRAP ☒ REWORK ☐ RETURN TO VENDOR	
--------------------------	--	---	--

Forward information to manufacturer and rework per their instructions. We suggest increasing the diameter of the counter bore to remove stainless material.

DISPOSITION APPROVED BY 17 B&W QC SUPV. <i>Rw Hoge</i> DATE 9-27-78 B&W FPE <i>D. E. Hirsch</i> DATE 9-27-78 OTHER <i>RE W. Hirsch</i> DATE 10/2/78 OTHER _____ DATE _____		DISPOSITION DETAILS BY 19 <i>B&W NPGD</i> <i>Sec SPR-45</i> <i>RH</i> ACTION COMPLETED 20 BY <i>Ray Hay</i> DATE 10/4/78	
--	--	--	--

REWORK INSPECTION ☒ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE		☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE	
21 BY <i>A.C. Ashworth</i> DATE 10-10-78		REPORT OF NONCONFORMITY	

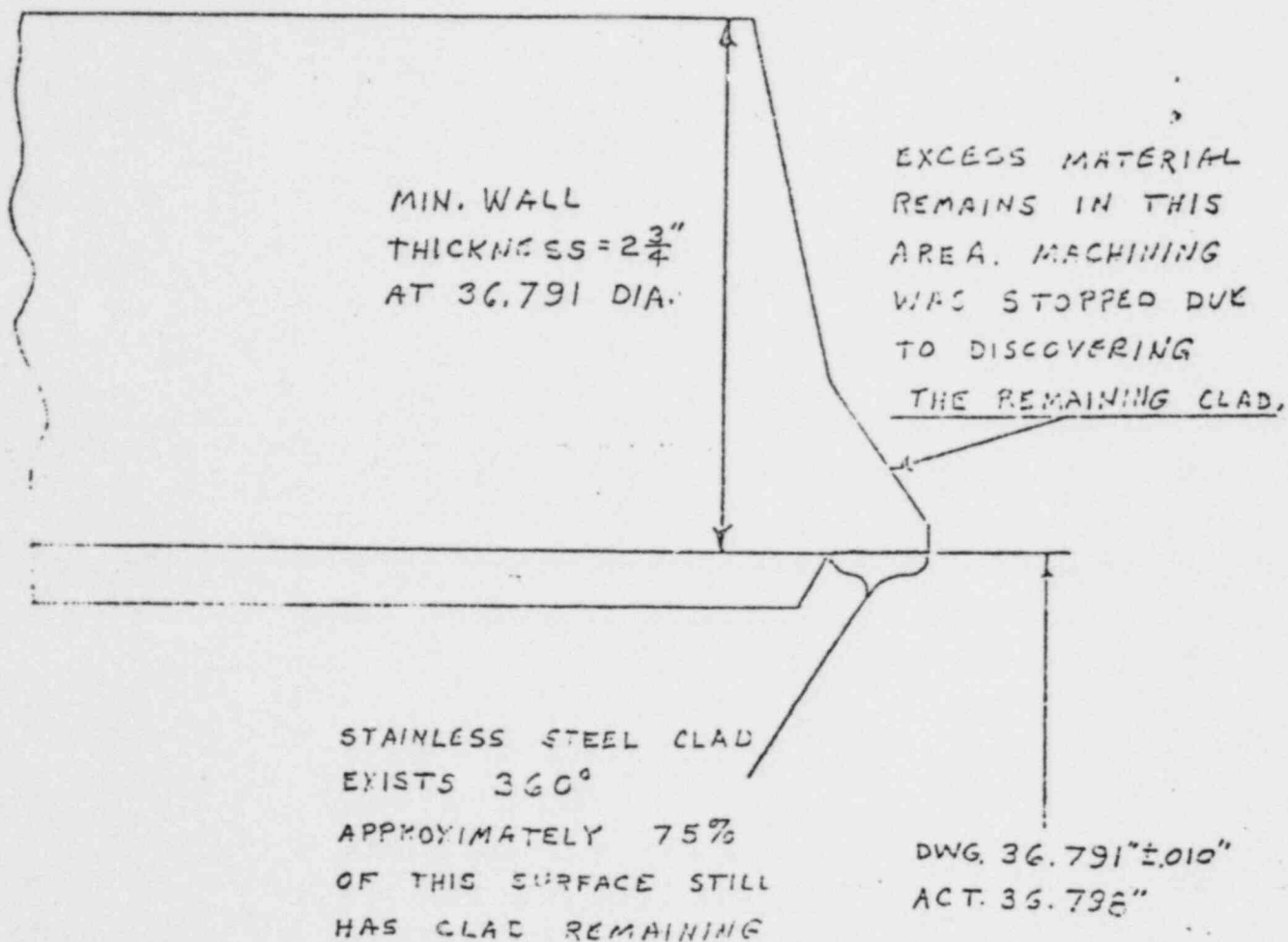
NON CONFORMITY CLOSED 22 B&W QC SUPV. <i>Rw Hoge</i> DATE 10-10-78	
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CORRECTIVE ACTION DESCRIPTION	
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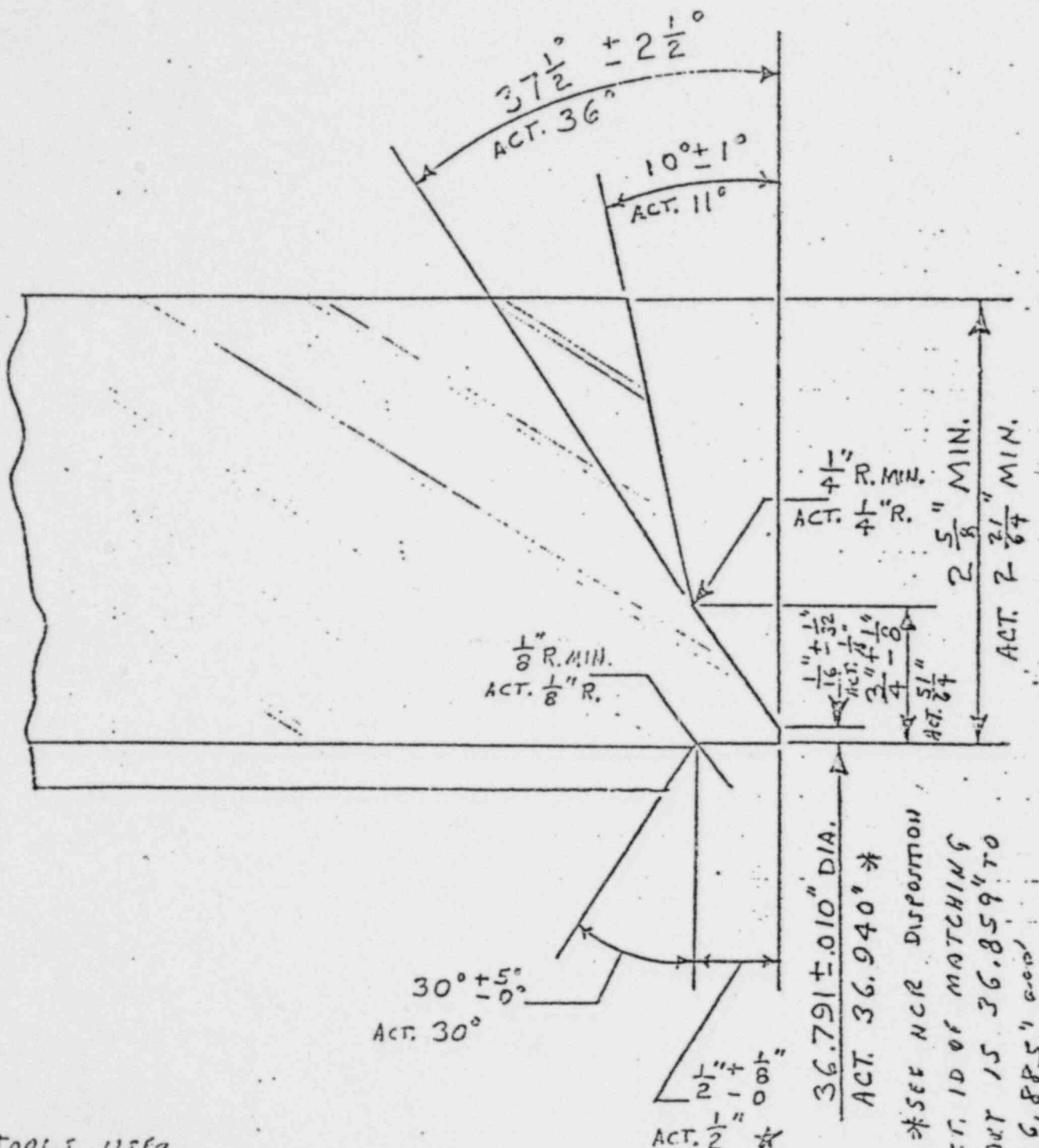
FIELD PROJECT MANAGER

23	
ANI ACCEPTANCE <i>C.W. Spring</i> DATE 10-5-78	
24	

S/11 A24-2012-50-2



FCF# 27 UNIT 2
NCR NO. 455
REJ. TAG NO. 246
9-23-78
A. P. Acheson



TOOLS USED

CU 2-22

CU 13-10

TCP #27 UNIT #2

NCR #429

*ALL CLAD REMOVED
IN THIS AREA.

A.C. Ashworth
10-4-78

*SEE NCR DISPOSITION

ACT. ID OF MATCHING
PART IS 36.859" TO
36.885" GOOD

SITE PROBLEM REPORT

RABCOCK & WILCOX

CUSTOMER CSCo	ORIGINATOR W. J. Lee	DATE 9/28/78	DOC. NO. 13	CONF. NO. 0012	SPR NO. 45	REV. NO. 0
VENDOR BAW Mt. Vernon	P.A. NO. 620-0012-50		PART NO./TASK NO. 50	GROUP NO. 10	SEQ. NO. 007	
TITLE (MAX 30 CHARACTERS) SC Page 4 9-28-78-2			PROBLEM CONTACT W. J. Lee			

DESCRIPTION OF PROBLEM:

After the I.D. of coolant pipe was machined to the drawing tolerance 36.793-. This did not remove all of the clad from the bore, (See attached sketch, Sheet #2)

The remainder of clad appears to be very thin.

STATUS-ACTION TO DATE, INCLUDING PERSONS CONTACTED:

Randy Bayms, Lynchburg

FURTHER ACTION RECOMMENDED BY SITE PERSONNEL:

Machine I.D. C31- over drawing tolerance

RESOLUTION:

SEE ATTACHMENT No. 2, PAGE 2 OF 2 DATED 9/28/78

PREPARED BY <i>G. J. D. [Signature]</i>	DATE 9/28/78	APPROVED BY <i>B. Y. P. [Signature]</i>	DATE 9/28/78
REVIEWED BY <i>[Signature]</i>	DATE 9/28/78		
COST CATEGORY ☐ NORM ☐ OTHER		FIELD CHARGE REQ ☐ YES ☐ NO	
		F.C.A. NO. 09-	SIGATP. DEFICIENCY ☐ YES ☐ NO

SITE COMPLETION REPORT:

DEVIATIONS:

☐ NONE

SPR REV NO. ☐

DATE COMPLETED:

COMPLETED BY

DATE

PROBLEM IDENTIFICATION

RESOLUTION

COMPLETION

September 28, 1978

ATTACHMENT No. 2

Cladding may be removed by machining the 36.798" bore oversize. This oversize condition may be as large as 37.048" but need be only large enough to ensure stainless steel removal from the carbon pipe. After machining, the bore should be etched with ammonium persulfate to ensure that all cladding has been removed. After etching, clean weld prep in accordance with B&W Specification No. 10-1395-00.

After machining, the bore should be measured and compared to mating section of pipe. If the inside diameters do not match each other within .0625", the mating section should be machined to meet the following criteria: When the two pipes are aligned concentrically but are at the extremes of the .0625" tolerance, the mismatch should be uniform .03125" around the joint. If the mismatch is off set rather than concentric, the maximum misalignment at any one point around the joint must not exceed .09375". (Ref: USA Standard B31.7, Paragraph 1-727.3.1 (c))

When the weld has been completed and the backing ring removed, the mismatch between the backing ring bearing surfaces must be welded and ground to a maximum 3:1 taper in a manner to insure that the A24 sub-assembly meets the 2-5/8" min. wall thickness. The entire area may then be filled with cladding.

R.M. Rayns

REPORT OF NONCONFORMITY

TO BE COMPLETED BY FIELD QC

TO BE COMPLETED BY F.P. L. ENGINEER

TO BE COMPLETED BY FIELD QC

TO BE COMPLETED BY F.P. L. ENGINEER

ANI

SYSTEM OR PART NAME		JOB NO.	DATE
1 Fit-up of WJ 5-1 & WJ 5-2		2 CL-238	3 9-27-78
DRAWING VIOLATED & REV.	VENDOR NAME	REJECT TAG NOS.	
4 150177E, Rev. 8	5 B&W	6 #215 (WJ 5-1) & #216 (WJ 5-2)	
PROC/SPEC. VIOLATED (3.1.2)	P.O. NO.	PART NO.	SYSTEM DESIGNATION
7 FS-III-3 9-WC-106	8 M-1.9	9A-57-W & B-67	10 Reactor Coolant
CORRECTIVE ACTION REQUIRED		REPORTED BY	
11 ☐ YES ☒ NO		12 James R. Jones /	
CONDITION DETAILS			
Min. to max weld gap on WJ 5-1 is 0.126 to 0.225 Min. to max weld gap on WJ 5-2 is 0.104 to 0.195 Min. to max allowable tolerance is 0.062 to 0.125			
13			
CONDITION DETAILS VERIFIED BY		DISPOSITION REQUESTED FROM	
B&W QC SUPV. <u>RW Shone</u> DATE <u>9-27-78</u>		☒ B&W CONSTRUCTION ☐ DATE <u>9-27-78</u>	
14		15 BY <u>RW Shone</u> DATE <u>9-27-78</u>	
REPORTABILITY PER 10 CFR 50.55 (e)			
16 ☐ REPORTABLE ☒ NON-REPORTABLE BY <u>D. E. Kinale</u> DATE <u>9-27-78</u>			
DISPOSITION INSTRUCTIONS		ACTION	
In order to orient opposite end of pipe for proper location of RCP casing it was necessary to deviate from weld gap tolerances. Weld integrity will not be compromised. Accept as is based on manufactures concurrence.		☒ ACCEPT AS IS ☐ SCRAP ☒ REWORK ☐ RETURN TO VENDOR <u>OK 10-10-78</u> <u>Part 10-10-78</u> <u>RW 10/10/78</u>	
17			
DISPOSITION APPROVED BY		DISPOSITION DETAILS BY	
B&W QC SUPV. <u>RW Shone</u> DATE <u>9-27-78</u>		19 <u>D. E. Kinale</u>	
B&W FPE <u>D. E. Kinale</u> DATE <u>9-27-78</u>		ACTION COMPLETED <u>See SPR-46</u>	
OTHER <u>RE White</u> DATE <u>10/2/78</u>		20 BY <u>BW Lynchburg</u> DATE <u>10-6-78</u>	
18		20	
REWORK INSPECTION ☐ REWORK COMPLETED-INSPECTION PERFORMED ☐ REWORK COMPLETED-INSPECTION PERFORMED			
AND REWORK ACCEPTABLE AND REWORK NOT ACCEPTABLE			
21 BY <u>RW Shone</u> DATE <u>10-10-78</u> REPORT OF NONCONFORMITY			
NON CONFORMITY CLOSED			
22 B&W QC SUPV. <u>RW Shone</u> DATE <u>10-10-78</u>			
CORRECTIVE ACTION DESCRIPTION			
23			
FIELD PROJECT MANAGER			
24 ANI ACCEPTANCE <u>O.W. Amaze</u> DATE <u>10-5-78</u>			

REPORT OF NONCONFORMITY

B&W CONSTRUCTION COMPANY

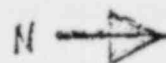
TO BE COMPLETED BY FIELD QC

TO BE COMPLETED BY F.P.

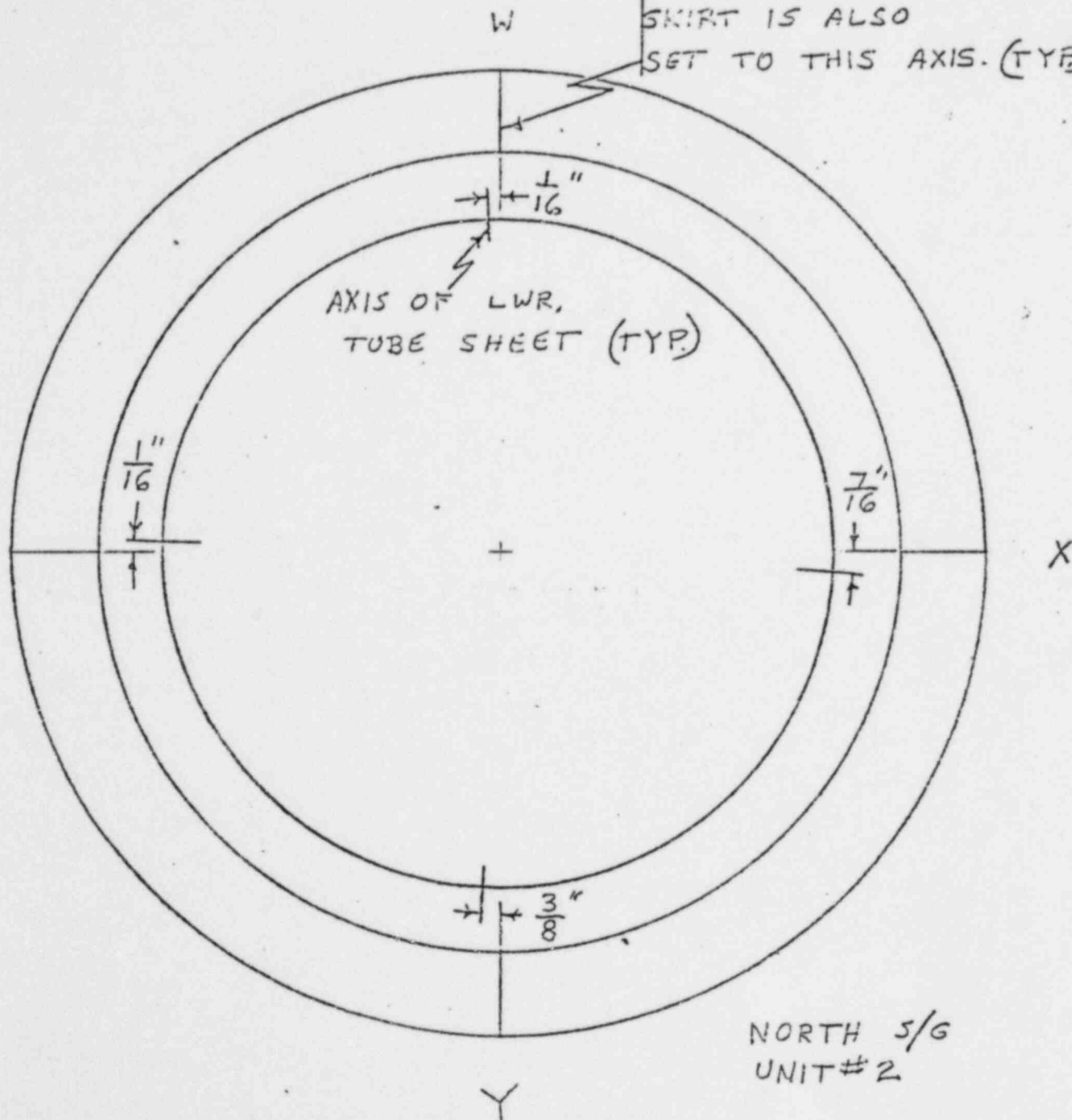
TO BE COMPLETED BY FIELD QC

TO BE COMPLETED BY F.P.

SYSTEM OR PART NAME		JOB NO.	DATE
1 MAIN STEAM LINE STEAM GENERATOR		2 CL-238	3 9-27-78
DRAWING VIOLATED & REV. VENDOR NAME		REJECT TAG NOS.	
4 M-76 (Q), Rev. 2		5 B&W	
6		247	
PROC./SPEC. VIOLATED		P.O. NO.	PART NO.
7 FCP #34		8 ML.6	9 2E-51B
SYSTEM DESIGNATION		10 Reactor Coolant	
CORRECTIVE ACTION REQUIRED		REPORTED BY	
11 ☐ YES ☒ NO		12 A. C. Ashworth <i>A.C. Ashworth</i>	
CONDITION DETAILS			
During the fit-up of the main steam line to generator, it was discovered the terminal end was off location by 2" toward the east direction. In investigating this condition it was found the axis lines on the generator skirt does not match the axis lines on the remainder of the generator. Since the axis lines on the skirt were set to theoretical ϕ this puts the axis of generator off location 3/8" clockwise which puts the nozzle clockwise also. (See sketch).			
13			
CONDITION DETAILS VERIFIED BY		DISPOSITION REQUESTED FROM	
B&W QC		☒ B&W CONSTRUCTION ☐	
14 SUPV. <i>R.W. Shupe</i> DATE <i>9-27-78</i>		15 BY <i>R.W. Shupe</i> DATE <i>9-27-78</i>	
REPORTABILITY PER 10 CFR 50.55 (E)			
☐ REPORTABLE ☒ NON-REPORTABLE BY <i>D.E. Kincaid</i> DATE <i>9-27-78</i>			
16			
DISPOSITION INSTRUCTIONS		ACTION	
		☒ ACCEPT AS IS ☐ SCRAP ☐ REWORK ☐ RETURN TO VENDOR	
Since nozzle cannot be relocated we ask that the pipe location be accepted as is and that the mislocation be made up in other joints. The same condition will exist on the other steam outlet nozzle.			
17			
DISPOSITION APPROVED BY		DISPOSITION DETAILS BY	
B&W QC SUPV. <i>R.W. Shupe</i> DATE <i>9-27-78</i>		19 <i>D.E. Kincaid</i>	
B&W FPE <i>D.E. Kincaid</i> DATE <i>9-27-78</i>		ACTION COMPLETED <i>Superseded by NCR-437</i>	
OTHER <i>R.E. White</i> DATE <i>10-2-78</i>		20 BY <i>D.E. Kincaid</i> DATE <i>10-10-78</i>	
18		20	
REWORK INSPECTION ☐ REWORK COMPLETED-INSPECTION PERFORMED ☐ REWORK COMPLETED-INSPECTION PERFORMED AND Rework NOT ACCEPTABLE			
21 BY <i>R.W. Shupe</i> DATE <i>10-10-78</i> REPORT OF NONCONFORMITY			
NON CONFORMITY CLOSED			
22 B&W QC SUPV. <i>R.W. Shupe</i> DATE <i>10-10-78</i>			
CORRECTIVE ACTION DESCRIPTION			
23			
FIELD PROJECT MANAGER			
24			
ANI ACCEPTANCE <i>C.W. [Signature]</i>		DATE <i>10-5-78</i>	



THEORETICAL AXIS LINES
ESTABLISHED FROM BLDG. E.
SKIRT IS ALSO
SET TO THIS AXIS. (TYP.)



NORTH 5/6
UNIT #2

FCP#34

NCR#

9-26-78

A.C. *[Signature]*

REPORT OF NONCONFORMITY

 BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

TO BE COMPLETED BY FIELD QC

TO BE COMPLETED BY F.P. ENGINEERING

TO BE COMPLETED BY FIELD QC

TO BE COMPLETED BY F.P. MANAGER

ANI

SYSTEM OR PART NAME 1 Reactor Vessel (Unit #2)		JOB NO. 2 CL-238	DATE 3 5-30-78
DRAWING VIOLATED & REV. 4 C-376	VENDOR NAME 5 B & W	REJECT TAG NOS. 6 157	
PROC/SPEC. VIOLATED 7 FS-111-1A	P.O. NO. 8 M-1.1	PART NO. 9 2T-51	SYSTEM DESIGNATION 10 Reactor Coolant
CORRECTIVE ACTION REQUIRED 11 ☒ YES ☐ NO		REPORTED BY 12 A. C. Ashworth	
CONDITION DETAILS Approximately 20 gallons of liquid and 2 pieces of 3 foot long wooden 2 x 4 were found in Reactor Vessel bottom head.			
CONDITION DETAILS VERIFIED BY 13 B&W QC <u>R.W. Thorne</u> DATE <u>5-30-78</u>		DISPOSITION REQUESTED FROM 14 SUPV. <u>R.W. Thorne</u> DATE <u>5-30-78</u>	
REPORTABILITY PER 10 CFR 50.55 (E) 15 ☐ REPORTABLE ☒ NON-REPORTABLE BY <u>D. E. Kivela</u> DATE <u>5-31-78</u>			
DISPOSITION INSTRUCTIONS ACTION ☐ ACCEPT AS IS ☐ SCRAP ☒ REWORK ☐ RETURN TO VENDOR Remove water and debris from Reactor Vessel and wipe surface dry. Save sample of water removed from vessel and have chemical analysis performed to determine ppm of chlorides and florides. Send analysis to vendor to determine whether further cleaning is required.			
DISPOSITION APPROVED BY 17 B&W QC SUPV. <u>R.W. Thorne</u> DATE <u>5-31-78</u> B&W FPE <u>D. E. Kivela</u> DATE <u>5-31-78</u> OTHER <u>R.E. Whitaker</u> DATE <u>6/12/78</u> OTHER _____ DATE _____		DISPOSITION DETAILS BY 18 <u>D. E. Kivela</u> 5-31-78 ACTION COMPLETED 19 BY <u>Jay. May</u> DATE <u>6-8-78</u>	
REWORK INSPECTION ☒ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE ☐ REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE 20 BY <u>R.W. Thorne</u> DATE <u>7-11-78</u> REPORT OF NONCONFORMITY <u>N/A</u>			
NON CONFORMITY CLOSED 21 B&W QC SUPV. <u>R.W. Thorne</u> DATE <u>9-25-78</u>			
CORRECTIVE ACTION DESCRIPTION The visqueen was placed on the top of the protective cover till the permanent work platform is installed. V. N. Aronson FIELD PROJECT MANAGER			
ANI ACCEPTANCE 22 <u>[Signature]</u> DATE <u>6-22-78</u>			

SITE PROBLEM REPORT

BABSCK & WILCOX

CUSTOMER Consumers Power Company	ORIGINATOR W.J. Lee	DATE 7-28-78	DOC. ID. 13	CONT. NO. 0013	SPR NO. 24	REV. NO.
VENDOR B&W Mt. Vernon	P.A. NO. 620-0013-51		PART NO./TASK NO. 51	GROUP NO. 01	SEQ. NO. 001	
TITLE (MAX 30 CHARACTERS) Reactor Vessel			PROBLEM CONTACT W. J. Lee			

DESCRIPTION OF PROBLEM:

Approximately 20 gallon of liquid and two (2) pieces of three (3) foot long wooden 2 x 4 were found in the Reactor Vessel bottom head, 5-30-78.

STATUS-ACTION TO DATE, INCLUDING PERSONS CONTACTED:

The water was removed, a sample taken and sent to lab for analysis (this is attached), Reactor Vessel surface was wiped dry. The water analysis was accepted using the table in the Field Specs.

FURTHER ACTION RECOMMENDED BY SITE PERSONNEL:

Acknowledge that the analysis taken is acceptable to N.P.G.D.

RESOLUTION:

Wipe affected areas with demineralized water in accordance with approved specifications. Keep vessel covered as practically possible to prevent further contamination.

PREPARED BY <i>W. J. Lee</i>	DATE 8-2-78	APPROVED BY <i>W. J. Lee</i>	DATE 8-3-78
REVIEWED BY <i>H. B. Baker</i>	DATE 8-3-78		
COST CATEGORY ☐ NORM <i>NA</i> ☐ OTHER ☐		FIELD CHANGE REQ ☐ YES ☒ NO	F.C.A. NO. 04- <i>NA</i>
		SIGNIF. DEFICIENCY ☐ YES ☒ NO	

SITE COMPLETION REPORT:

DEVIATIONS:

☐ NONE ☐ SPR REV NO. ☐

DATE COMPLETED:

COMPLETED BY ☐ DATE ☐

To OAK Ridge, Midland Nuclear Project

FROM REXillett/CRESnow, T-266

DATE July 11, 1978

SUBJECT MIDLAND WATER -
UNIT 2 REACTOR VESSEL

Consumers
Power
Company

INTERNAL
CORRESPONDENCE

ENGRES-CL78-CPS-004
1141 2101 1801

CC Document Control Center, P-11-030

Two water samples from the unit 2 reactor vessel at the Midland plant construction site were submitted to the Chemical Division of the Engineering and Research Laboratory June 9 for determination of fluoride and chloride contents. One of the samples was unlabeled, the other was marked "2." Both chloride and fluoride were determined by specific ion electrode methods. For fluoride the analytical method was as in ASTM D-1179. Chloride was determined by the method of standard additions. The results of the analyses are as follows:

<u>Sample</u>	<u>Parameter</u>	
	<u>Fluoride</u>	<u>Chloride</u>
unmarked	13.2 ppm	6.8 ppm
#2	16.8 ppm	5.4 ppm

Analysis by:

C.R. Snow

Approved by:

R.E. Sillett

Approved by:

R.E. Wilson

REPORT OF NONCONFORMITY

BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY

TO BE COMPLETED BY FIELD QC	SYSTEM OR PART NAME		JOB NO.		DATE	
	1 REACTOR VESSEL (UNIT #2)		2 CL-238		3 6-28-78	
	DRAWING VIOLATED & REV.		VENDOR NAME		REJECT TAG NOS.	
	4 C-376		5 B&W		6 241	
TO BE COMPLETED BY FIELD QC	PROC./SPEC. VIOLATED		P.O. NO.		PART NO.	
	7 FS-111-1A		8 M-1.1		9 2T-51	
	CORRECTIVE ACTION REQUIRED		REPORTED BY			
	11 ☐ YES ☒ NO SEE NCR 412		12 A. C. ASHWORTH			
TO BE COMPLETED BY FIELD QC	CONCITION DETAILS					
	The chemical analysis of the liquid found on the inside of the lower head, as reported on NCR #412, revealed an unacceptable content of chlorine.					
	13					
	CONDITION DETAILS VERIFIED BY			DISPOSITION REQUESTED FROM		
TO BE COMPLETED BY F.P.	14 B&W QC SUPV. <u>RW Shope</u> DATE <u>6-28-78</u>			15 ☒ B&W CONSTRUCTION ☐ DATE <u>6-28-78</u>		
	REPORTABILITY PER 10 CFR 50.55 (E)					
	16 ☐ REPORTABLE ☒ NON-REPORTABLE BY <u>D. E. Kinsala</u> DATE <u>6-28-78</u>					
	DISPOSITION INSTRUCTIONS ACTION					
TO BE COMPLETED BY F.P.	☐ ACCEPT AS IS ☐ SCRAP ☒ REWORK ☐ RETURN TO VENDOR					
	Rinse Reactor Vessel, I.D. surface, with potable water followed by rinsing or wiping with demineralized water. After cleaning, wipe dry. Cleanliness to be checked by taking random swipe samples on I.D. surface near top, middle and bottom of Reactor.					
	17					
	DISPOSITION APPROVED BY			DISPOSITION DETAILS BY		
TO BE COMPLETED BY FIELD QC	B&W QC SUPV. <u>RW Shope</u> DATE <u>6-28-78</u>			19 <u>D. E. Kinsala</u>		
	B&W FPE <u>D. E. Kinsala</u> DATE <u>6-28-78</u>			ACTION COMPLETED		
	OTHER <u>RE Whitaker</u> DATE <u>7/5/78</u>			20 BY <u>Gay</u> DATE <u>9/21/78</u>		
	18 OTHER _____ DATE _____					
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 <u>RW Shope</u> DATE <u>9-25-78</u> REPORT OF NONCONFORMITY <u>N/A</u>					
	NON CONFORMITY CLOSED					
	22 B&W QC SUPV. <u>RW Shope</u> DATE <u>9-25-78</u>					
TO BE COMPLETED BY F.P.	CORRECTIVE ACTION DESCRIPTION					
	23					
	FIELD PROJECT MANAGER					
	24					
TO BE COMPLETED BY F.P.	ANI ACCEPTANCE <u>A. Hays</u>					DATE <u>6-29-78</u>
	24					

ANALYSIS RESULTS FORM

1. Sample Number 3 B+W Swipe #1
2. Technician DDH
3. Time/Date 1335 9-21-78

4. Analysis Results

A. Water Quality

Procedure NumberResults

Chlorides (ppm)
Fluorides (ppm)
Sulfides (ppm)
Silicates (ppm)
Suspended Solids (ppm)
Dissolved Solids (ppm)
pH
Conductivity (mho/cm)

8133.940.18136.140.1

B. Flush Quality

Procedure NumberResults

pH
Conductivity (mho/cm)
Particle Size (Inches)
Sliver Size (Inches)

C. Other Tests

Results

5. Notes

Procedures Not Under Q.A. program

6. Reagents used checked for expiration, (Initial)

DDH

7. Equipment used checked for calibration or standardized as appropriate. (Initial)

DDH8. Requesting individual informed of results by phone mail verbal. (Circle)

Time

1500

9. Supervisor's Approval

[Signature]

ANALYSIS RESULTS FORM

1. Sample Number 4 B+W Sample # 2
2. Technician DDH
3. Time/Date 1335 9-21-78
4. Analysis Results

A. Water Quality	<u>Procedure Number</u>	<u>Results</u>
Chlorides (ppm)	<u>3133.9</u>	<u>0.20</u>
Fluorides (ppm)	<u>8136.1</u>	<u>40.1</u>
Sulfides (ppm)	<u> </u>	<u> </u>
Silicates (ppm)	<u> </u>	<u> </u>
Suspended Solids (ppm)	<u> </u>	<u> </u>
Dissolved Solids (ppm)	<u> </u>	<u> </u>
pH	<u> </u>	<u> </u>
Conductivity (mho/cm)	<u> </u>	<u> </u>

B. Flush Quality	<u>Procedure Number</u>	<u>Results</u>
pH	<u> </u>	<u> </u>
Conductivity (mho/cm)	<u> </u>	<u> </u>
Particle Size (Inches)	<u> </u>	<u> </u>
Sliver Size (Inches)	<u> </u>	<u> </u>

C. Other Tests Results

5. Notes

Procedures not Under G.A. Program

6. Reagents used checked for expiration. (Initial) DDH
7. Equipment used checked for calibration or standardized as appropriate. (Initial) DDH
8. Requesting individual informed of results by phone, mail, verbal. (Circle) Time 1500
9. Supervisor's Approval *[Signature]*

ANALYSIS RESULTS FORM

1. Sample Number 5 B+W swide #3
2. Technician DTH
3. Time/Date 1335 9-21-78
4. Analysis Results

A. Water Quality	<u>Procedure Number</u>	<u>Results</u>
Chlorides (ppm)	<u>8133.9</u>	<u><0.1</u>
Fluorides (ppm)	<u>8136.1</u>	<u><0.1</u>
Sulfides (ppm)		
Silicates (ppm)		
Suspended Solids (ppm)		
Dissolved Solids (ppm)		
pH		
Conductivity (mho/cm)		
B. Flush Quality	<u>Procedure Number</u>	<u>Results</u>
pH		
Conductivity (mho/cm)		
Particle Size (Inches)		
Sliver Size (Inches)		
C. Other Tests		<u>Results</u>

5. Notes

Procedures Not Under QA. Program

6. Reagents used checked for expiration. (Initial) DTH
7. Equipment used checked for calibration or standardized as appropriate. (Initial) DTH
8. Requesting individual informed of results by phone, mail, verbal. (Circle) Time 1509
9. Supervisor's Approval [Signature]

ANALYSIS RESULTS FORM

1. Sample Number E R+W Swipe #4
2. Technician DDH
3. Time/Date 1335 9-21-78
4. Analysis Results

A. Water Quality	<u>Procedure Number</u>	<u>Results</u>
Chlorides (ppm)	<u>8133.9</u>	<u>40.1</u>
Fluorides (ppm)	<u>8134.1</u>	<u><0.1</u>
Sulfides (ppm)	<u></u>	<u></u>
Silicates (ppm)	<u></u>	<u></u>
Suspended Solids (ppm)	<u></u>	<u></u>
Dissolved Solids (ppm)	<u></u>	<u></u>
pH	<u></u>	<u></u>
Conductivity (mho/cm)	<u></u>	<u></u>

B. Flush Quality	<u>Procedure Number</u>	<u>Results</u>
pH	<u></u>	<u></u>
Conductivity (mho/cm)	<u></u>	<u></u>
Particle Size (Inches)	<u></u>	<u></u>
Sliver Size (Inches)	<u></u>	<u></u>

C. Other Tests Results

5. Notes

Procedures Not Under Q. A. program

6. Reagents used checked for expiration. (Initial) DDH
7. Equipment used checked for calibration or standardized as appropriate. (Initial) DDH
8. Requesting individual informed of results by phone, mail, verbal. (Circle) Time 1500
9. Supervisor's Approval R. H. [Signature]

ANALYSIS RESULTS FORM

1. Sample Number 7 B+W Sample #5
2. Technician DDA
3. Time/Date 1325 9-31-78
4. Analysis Results

A. Water Quality	<u>Procedure Number</u>	<u>Results</u>
Chlorides (ppm)	<u>8133.9</u>	<u>0.18</u>
Fluorides (ppm)	<u>8136.1</u>	<u>0.30</u>
Sulfides (ppm)	<u> </u>	<u> </u>
Silicates (ppm)	<u> </u>	<u> </u>
Suspended Solids (ppm)	<u> </u>	<u> </u>
Dissolved Solids (ppm)	<u> </u>	<u> </u>
pH	<u> </u>	<u> </u>
Conductivity (mho/cm)	<u> </u>	<u> </u>
B. Flush Quality	<u>Procedure Number</u>	<u>Results</u>
pH	<u> </u>	<u> </u>
Conductivity (mho/cm)	<u> </u>	<u> </u>
Particle Size (Inches)	<u> </u>	<u> </u>
Sliver Size (Inches)	<u> </u>	<u> </u>
C. Other Tests		<u>Results</u>

5. Notes

Procedures Not Under Q.A. Program

6. Reagents used checked for expiration. (Initial) DA
7. Equipment used checked for calibration or standardized as appropriate. (Initial) DA
8. Requesting individual informed of results by phone, mail, verbal. (Circle)
9. Supervisor's Approval [Signature]

Time 1500

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1. PROJECT NAME: Midland		7. NONCONFORMING PART NO: See Block 12		8. NONCONFORMING PART NAME: See Block 12		1. NCR SERIAL NO: M01-2-8-072	
9. SERIAL NUMBER: See Block 12		10. CIG. COMPLETION NO: Zack QC		11. AREA/LOC. OF NO: Control Room		2. DATE: September 6, 1978	
						3. DATE OF REV: N/A	
						4. FILE NO: 16.8	
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS SPECIFIED" CONDITION WITH REF: Paragraph 4.2.1 of Zack procedure M-B-QCP-13 Rev. 1 states in part: "By signing the shipping ticket he assures the items received were fabricated per the Zack Co. Duct Standards and Construction Details designed for the Midland Project." Visual inspection of the following HVAC fabrications located in a storage area adjacent to the Control Room noted that stiffeners were not welded to the duct work. V25-Sheet 3 #90 F-816 V25-Sheet 3 #118 F-843 #111 F-831 #121 F-846 #117 F-842 (con't page 3 of 3)						5. DISTRIBUTION ACTION COPY: LADreisbach MFranchuk INFO COPY: WRBird TCCooke JLCorley SHHowell GSKeeley BWMarguglio DBMiller DATaggart	
13. CA RECOMMENDATION FOR PART CA: A. Document incomplete welding on above fabrication per Zack Company NCR procedure for assurance of proper completion in accordance with Construction Details-Plate CI-S10 Rev. 3. DESIGN/PROJECT ENG. DISPOSITION REQUIRED ☐ NOT REQUIRED ☒							
14. HOLD TAGS APPLIED: YES ☐ NO ☒ NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: N/A							
15. IS PROCESS CA REQUIRED: YES ☒ NO ☐ IF NO, ENTER JUSTIFICATION BELOW:							
16. DOES NO AFFECT Q-LIST ITEM: YES ☒ NO ☐				17. IS NO REPORTABLE PER 50.55(a): YES ☐ NO ☒			
18. IS NO REPORTABLE PER PART 21: YES ☐ NO ☒				19. IF YES, DATE & TIME OF REPORT TO NRC: N/A			
20. IF YES, WHO MADE REPORT TO NRC: N/A				21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A			
22. NCR ORIGINATED BY: <i>Walter F. Dickson Jr.</i>				23. WRITTEN REPLY REQUIRED BY: 9/20/78 TO ESTABLISH CA COMPLETION DATE		24. INTERVIEWER'S SIGNATURE/DATE: <i>R.L. Scutcheon / 9/20/78</i> <i>W.F. Dickson</i>	
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:							
26. DESIGN/PROJECT SIG. AUTH. DISP.: N/A		27. P/C SIG. AUTH. DISP.: N/A		28. PROCUREMENT SIG. CONC. DISP.: N/A		29. SIG. OF ENG. RESP. FOR C/A:	
30. FAB/CONST. SIG. AUTH. DISP.: N/A		31. SIG. OF TEST GROUP ACKNOV. CONDITION: N/A		32. FOR MAJOR MOD - PLT. SUPP. SIG. AUTH. DISP.: N/A		33. CA AUTH. SIG. TO DOCUMENT DISP.:	
34. METHOD OF PART CA VERIFICATION:							
35. SIG. OF ENG. RESP. FOR PART C/A SIGNIFYING COMPLETION:				36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE:		37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)	



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38. QA ASSESSMENT OF ROOT CAUSE(S):

- A. Unknown for fabrication incompleteness.
- B. Lack of definitive guidelines for receipt inspection.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY CPG, RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA REQUIRED FROM:

DESIGN ☐

FABRICATION ☒

CONSTRUCTION ☐

PROCUREMENT ☐

INSPECTION ☒

OTHER _____

41. QA RECOMMENDATION FOR PROCESS CA:

- A. Develop mechanism for communication between fabricator and on-site receiving personnel to determine the extent of completion for fabricated items upon receipt.
- B. Develop appropriate guidelines for receipt inspection in conjunction with 'A' above.

42. PROCESS CA TO BE CHECKED BY CPG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

44. SIG. OF CPG, RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

Con't from Item #12

Upon review of the receiving records for the above items, it was noted that the shipping ticket had been signed by the Zack QC representative indicating proper fabrication upon receipt. However, the Zack Co. Duct Standards and Construction Details identified as Plate CI-S10 Rev. 3 "Construction Detail for Duct Stiffener" requires an 1/8" jillet weld to the duct, 1-1/2" long ship welded every 4" on alternating sides of the stiffener. In addition, there was no indication on the fabrication travelers for the above items, that the welds were to be completed at the jobsite (Midland).

Con't from Item #13

- B. Inspect all fabricated items received on site for similar conditions of incomplete work and document such cases per Zack Companys NCR procedure.



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6. PROJECT NAME: Midland		7. NONCONFORMING PART NO: N/A	8. NONCONFORMING PART NAME: Diesel Fuel Supply & Return Lines	1. NCR SERIAL NO: M01-4-8-074
9. SERIAL NUMBER: N/A		10. CRO. COMPLETING NO: Bechtel Const.	11. AREA/LOC. OF NO: Yard area South & East of Diesel Gen. Bldg.	2. DATE: Sept. 13, 1978
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: Emergency diesel fuel supply and return lines 1HBC-3, 1HBC-497, 2HBC-4, 2HBC-498 have several field welds which are not identified in accordance with FIW-3, Para. 2, which states, "The field weld number, including repairs and "cut-outs", if applicable, will be stamped in the immediate area of the weld ensuring traceability of the weld and welder." 13. CA RECOMMENDATION FOR PART CA: 1. Comply with para. 2, FIW-3 for those lines listed. 2. Determine how many additional welds have been completed in violation of FIW-3. 3. Identify and mark field welds found in 2. above. DESIGN/PROJECT ENG. DISPOSITION REQUIRED ☐ NOT REQUIRED ☒				3. DATE OF REV: N/A
				4. FILE NO: 16.3.4
14. SOLD TAGS APPLIED: YES ☒ NO ☐ NUMBER, LOCATION & TYPE OF SOLD TAGS APPLIED: 8 CPCo tags applied. One at end of each line. IS PROCESS CA REQUIRED: YES ☒ NO ☐ IF NO, ENTER JUSTIFICATION BELOW:				5. DISTRIBUTION ACTION COPY: LADreisbach INFO COPY: WLBarclay DBMiller WRBird WMoring TCCooke JFNewgen JLCorley DATaggart RHermeston SHHowell DRJohnson GSKeeley BWMarguglio PAMartinez JMilandin
16. DOES NO AFFECT Q-LIST ITEM: YES ☒ NO ☐		17. IS NO REPORTABLE PER 50.55(a): YES ☐ NO ☒		
18. IS NO REPORTABLE PER PART 21: YES ☐ NO ☒		19. IF YES, DATE & TIME OF REPORT TO NRC: N/A		
20. IF YES, WHO MADE REPORT TO NRC: N/A		21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A		
22. NCR ORIGINATED BY: Donald X. Martin		23. WRITTEN REPLY REQUIRED BY: September 27, 1978 TO ESTABLISH CA COMPLETION DATE		
24. SUPERVISOR'S SIGNATURE/DATE: DKKesterig				
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:				
26. DESIGN/PROJECT SIG. AUTH. DISP.: N/A	27. P/O SIG. AUTH. DISP.: N/A	28. PROCUREMENT SIG. AUTH. DISP.: N/A	29. SIG. OF ENG. RESP. FOR C/A:	
30. FAB/CONST. SIG. AUTH. DISP.: N/A	31. SIG. OF TEST GROUP ACTION. CONDITION: N/A	32. FOR MAJOR MOD - PLT. Supt. SIG. AUTH. DISP.: N/A	33. QA AUTH. SIG. TO IMPLEMENT DISP.:	
34. METHOD OF PART CA VERIFICATION:				
35. S.O. OF ENG. RESP. FOR PART C/A SIGNIFYING COMPLETION:		36. SIG. VERIFYING PART C/A & SOLD TAG REMOVAL/DATE:	37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)	



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38. QA ASSESSMENT OF ROOT CAUSE(S):

Unauthorized instructions to deviate from Field Documents. Apparently a memo was issued to the field on July 20, 1978, which deleted the requirement of FIW-3, para. 2.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA DERIVED FROM:

DESIGN

☐

FABRICATION

☒

CONSTRUCTION

☒

PROCUREMENT

☐

INSPECTION

☐

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

1. Insure that cognizant personnel are aware of requirements in Field Documents.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

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PROJECT NAME: Midland		7. NONCONFORMING PART NO: NA	8. NONCONFORMING PART NAME: Liner, Containment #2	1. NCR SERIAL NO: M-01-4-8-076
9. SERIAL NUMBER: NA	10. ORG. COMMITTING NO: Bechtel QC Bechtel Const.	11. AREA/LOC. OF NC: Elevation 685' Azimuth 52°		2. DATE: 9-15-78
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: On September 14, 1978 a "Gouge" repair was initiated on the liner of Containment #2 at elevation 685', azimuth 52° without the required prior documentation and authorization; additionally, the filler material used was obtained in an unauthorized manner. This action is not as required in procedures WD-1M Rev. 0 and WD-1 Rev. 4. The above situation was discovered by a Q.C. Engineer who initiated an NCR (later changed to a DR) and informed Field Engineering who directed that work be stopped until the proper disposition could be made. Contrary to the instructions, the unauthorized repair weld was then removed.		13. QA RECOMMENDATION FOR PART CA: Provide assurance that the liner of Containment #2 @ elevation 685', azimuth 52° meets all requirements.		3. DATE OF REV: NA
DESIGN/PROJECT ENG. DISPOSITION REQUIRED ☐ NOT REQUIRED ☒		4. FILE NO: 16.3.4, 16.3.6		
14. HOLD TAGS APPLIED: YES ☐ NO ☒ NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: NA		5. DISTRIBUTION ACTION COPY: WBarclay LADreisbach JFNewgen INFO COPY: WRBird W Moring TCCooke D A Taggart Rhermeston SEHowell DRJohnson GSKeeley BWMarguglio PAMartinez JMilandin DBMiller		
PROCESS CA REQUIRED: YES ☒ NO ☐ IF NO, ENTER JUSTIFICATION BELOW:				
16. DOES NC AFFECT Q-LIST ITEM: YES ☒ NO ☐		17. IS NC REPORTABLE PER 50.55(e): YES ☐ NO ☒		
18. IS NC REPORTABLE PER PART 21: YES ☐ NO ☒		19. IF YES, DATE & TIME OF REPORT TO NRC: NA		
20. IF YES, WHO MADE REPORT TO NRC: NA		21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA		
22. NCR ORIGINATED BY: <i>R. O. Rafferty</i>		23. WRITTEN REPLY REQUIRED BY: 10-2-78 TO ESTABLISH CA COMPLETION DATE	24. SUPERVISOR'S SIGNATURE/DATE: <i>[Signature]</i>	
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:				
26. DESIGN/PROJECT SIG. AUTH. DISP.:		27. PMO SIG. AUTH. DISP.:	28. PROCUREMENT SIG. CONC. DISP.:	29. SIG. OF ORG. RESP. FOR C/A:
30. FAB/CONST. SIG. AUTH. DOP. DISP.:		31. SIG. OF TEST GROUP ACKNOW. CONDITION:	32. FOR MAJOR MOD - PLT. SUPT. SIG. AUTH. DISP.:	33. QA AUTH. SIG. TO IMPLEMENT DISP.:
34. METHOD OF PART CA VERIFICATION:				
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION:		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE:	37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)	



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18. QA ASSESSMENT OF ROOT CAUSE(S):

Failure to follow the established procedure.

19. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

20. PROCESS CA REQUIRED FROM:

DESIGN ☐

FABRICATION ☐

CONSTRUCTION ☒

PROCUREMENT ☐

INSPECTION ☐

OTHER _____

21. QA RECOMMENDATION FOR PROCESS CA:

1. Reinstruct all welders and their supervisors on site:
 - a. That no welding is to be performed without authorization.
 - b. That only authorized filler material is to be used.
 - c. That stop work orders must be honored.
 - d. Failure to follow the above may result in personnel action.
2. Reinstruct welding QCE's including the Lead QC Welding Engineer in the proper use of DR's and NCR's so that a DR is not written in a case for which an NCR is required.

22. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 21 & DATE OF COMPLETION:

23. METHOD OF PROCESS CA VERIFICATION:

24. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

25. PROCESS CA COMPLETION VERIFIED BY/DATE:



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PROJECT NAME: Midland		7. NONCONFORMING PART NO: C-878, Det 18 Rev 3 C-886, Det 9 Rev 2		3. NONCONFORMING PART NAME: HVAC Hanger Support		1. NON SERIAL NO: M-01-5-8-077	
9. SERIAL NUMBER: NA		10. CAG. COMMITTING NO: BPCo - QC (Zack Subcontract)		11. AREA/LOC. OF NO: Aux. Control Room		2. DATE: 9-21-78 - Closed 10-3-78	
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: 1) Det. 18, C-878 shows longitudinal brace welded to bottom of flange of beam. As-built condition is brace welded to web of beam. 2) Det. 9, C-886 shows longitudinal brace welded to web of new VV-6 or bottom of flange of existing beam. As-built condition is brace welded to web of beam (existing). (Zack dwg. V-25, Rev. 0, Sheet 3) Part #40, Part #39. Field Engineering has interpreted Note #7 and #12, DCN #3, C-850, Rev. 6 to allow changing attachment points at their discretion. There is no mention of attachment points on these drawing notes.						3. DATE OF REV: NA	
13. CA RECOMMENDATION FOR PART CA: 1) Clarification of Note #7 and #12, DCN #3, C-850, Rev. 6 By Engineering to clarify intent of "allowable field changes" to attachment points. 2) Rework to comply with drawing.						5. DISTRIBUTION ACTION COPY: LADreisbach	
						INFO COPY: WLBarclay DBMiller WRBird WMoring TCCooke JFNewgen JLCorley DATaggart RHermeston SHHowell DRJohnson GSKeeley BWMarguglio PAMartinez JMilandin	
DESIGN/PROJECT ENG. DISPOSITION REQUIRED ☒ NOT REQUIRED ☐							
14. HOLD TAGS APPLIED: YES ☐ NO ☒ NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: NA							
15. PROCESS CA REQUIRED: YES ☒ NO ☐ IF NO, ENTER JUSTIFICATION BELOW:							
16. DOES NO AFFECT Q-LIST ITEM: YES ☒ NO ☐							
17. IS NO REPORTABLE PER 50.55(e): YES ☐ NO ☒							
18. IS NO REPORTABLE PER PART 21: YES ☐ NO ☒							
19. IF YES, DATE & TIME OF REPORT TO JRC: NA							
20. IF YES, WHO MADE REPORT TO JRC: NA							
21. IF YES, NAME OF JRC OFFICIAL TO WHOM REPORTED: NA							
22. NON ORIGINATED BY: <i>Mark D. Little</i>				23. WRITTEN REPLY REQUIRED BY: 10-18-78		24. SUPERVISOR'S SIGNATURE/DATE: <i>DR Keating</i>	
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:							
26. DESIGN/PROJECT SIG. AUTH. DISP.: 27. PRO SIG. AUTH. DISP.: 28. PROCUREMENT SIG. CONC. DISP.: 29. SIG. OF ORG. RESP. FOR C/A:							
30. FAB/CONST. SIG. AUTH. EXP. DISP.: 31. SIG. OF TEST GROUP ACKNOW. CONDITION: 32. FOR MAJOR MOD - P.L. SUFF. SIG. AUTH. DISP.: 33. CA AUTH. SIG. TO IMPLEMENT DISP.:							
34. METHOD OF PART CA VERIFICATION:							
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION: 36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE: 37. JRC CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)							



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38. QA ASSESSMENT OF ROOT CAUSE(S):

Interpretation of C-850, Rev. 6 Note 7 and 12 on DCN #3 to allow field to attach longitudinal braces to any structural member at any structural geometry, provided the criteria in Note #7 and #12 are met. These notes do not approach attachment criteria.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA REQUIRED FROM:

DESIGN ☒

FABRICATION ☐

CONSTRUCTION ☐

PROCUREMENT ☐

INSPECTION ☐

OTHER _____

41. QA RECOMMENDATION FOR PROCESS CA:

Receive clarification from design on available attachment points which vary from design drawings, and do not require a D.C.N. or F.C.R. to implement.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:



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6. PROJECT NAME: Midland 1 & 2		7. NONCONFORMING PART NO: NA		8. NONCONFORMING PART NAME: Primary Coolant Pipe		1. NCR SERIAL NO: N-01-4-8-079	
9. SERIAL NUMBER: A24-2012-50-1		10. ORG. CONTRACTING NO: Babcock & Wilcox NPGD		11. AREA/LOC. OF NO: NA		2. DATE: 9-27-78	
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: The heat number stamped on piece Mark No. 24 of primary coolant pipe A24-2012-50-1 is HT 35655 Code 18578. The data package identified the material for this piece as HT 35653 Code 18578.						3. DATE OF REV: NA	
						4. FILE NO: 16.4.1	
13. QA RECOMMENDATION FOR PART C/A: Determine which heat number is correct and make the necessary correction.						5. DISTRIBUTION ACTION COPY: CAArmontrout	
						INFO COPY: RCBauman WRBird TCCooke JLCorley SHHowell GSKeeley WJLee CEMahaney BWMarguglio AMcKinney DBMiller RWShope	
14. DESIGN/PROJECT ENG. DISPOSITION REQUIRED ☒ NOT REQUIRED ☐							
15. HOLD TAGS APPLIED: YES ☐ NO ☒ NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: NA							
16. IS PROCESS CA REQUIRED: YES ☐ NO ☒ IF NO, ENTER JUSTIFICATION BELOW: work is complete on all items on this purchase order. A random sample of other pipe sections did not find any additional problems.							
17. DOES NO AFFECT Q-LIST ITEM: YES ☒ NO ☐				18. IS NO REPORTABLE PER 50.55(*): YES ☐ NO ☒			
19. IS NO REPORTABLE PER PART 21: YES ☐ NO ☒				20. IF YES, DATE & TIME OF REPORT TO NRC: NA			
21. IF YES, WHO MADE REPORT TO NRC: NA				22. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA			
23. NCR ORIGINATED BY: RE W. H. Baker				24. WRITTEN REPLY REQUIRED BY: 10-27-78		25. SUPERVISOR'S SIGNATURE/DATE: RL Southern per telephone 9/27/78 RLW	
26. PART C/A DISPOSITION, JUSTIFICATION & COMPLETION DATE:							
26. ORG./PROJECT SIG. AUTH. DISP.: NA		27. P/O SIG. AUTH. DISP.: NA		28. PROCUREMENT SIG. CONC. DISP.: NA		29. SIG. OF ORG. RESP. FOR C/A:	
30. FAB/CONST. SIG. AUTH. DISP.: NA		31. SIG. OF TEST GROUP ACKNOW. CONDITION: NA		32. FOR MAJOR MOD - P/LT. SUPT. SIG. AUTH. DISP.: NA		33. QA AUTH. SIG. TO IMPLEMENT DISP.:	
34. METHOD OF PART C/A VERIFICATION:							
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION:		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE:		37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)			



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38. QA ASSESSMENT OF ROOT CAUSE(S):

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA DERIVED FROM:

DESIGN ☐

FABRICATION ☐

CONSTRUCTION ☐

PROCUREMENT ☐

INSPECTION ☐

OTHER _____

41. QA RECOMMENDATION FOR PROCESS CA:

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:



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6. PROJECT NAME: Midland	7. NONCONFORMING PART NO: 10-1FCB-22-H8	8. NONCONFORMING PART NAME: Pipe Restraint	1. NCR SERIAL NO: M-01-4-8-032
9. SERIAL NUMBER: N/A	10. ORG. CONSTRUCTED NO: Bechtel Construction & OC	11. AREA/LOC. OF NO: Aux. Building EL. 593'-3"	2. DATE: 4-20-78
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: 1. Restraint is not fabricated in accordance with the Grinnell fabrication drawing. (1-610-7-30) 2. Sway strut assembly (1-610-7-30, Item #2) attachment point to Item #4 (1-610-7-730) is located approximately 3'-8 1/4" from the existing wall vs. 4'-3 1/8", as the drawing requires. 3. QCI W-1.00, para. 2.1C.2 requires the following be accomplished, "Verify that parts to be joined by welding are correctly assembled and held in with the required joint spacing and configuration." QCIR for this restraint indicated the forgoing was accomplished and was signed by the responsible QC Inspector.			3. DATE OF REV: Closed 9-07-78
13. QA RECOMMENDATION FOR PART CA: 1. Revise restraint to conform to applicable drawing (rework) 2. Justify as-is condition 3. Assure that condition does not exist on other hangers.			4. FILE NO: 16.3.4/16.3.6
DESIGN/PROJECT ENG. DISPOSITION REQUIRED ☐ NOT REQUIRED ☒			5. DISTRIBUTION ACTION COPY: LADreisbach
14. HOLD TAGS APPLIED: YES ☐ NO ☒ NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED:			INFO COPY: WLB Barclay WMoring WRBird JFNewgen TCCooke DATaggart JLCorley RHermeton SHHowell DRJohnson GSKeeley BWMarguglio PAMartinez JMilandin
15. PROCESS CA REQUIRED: YES ☒ NO ☐ IF NO, ENTER JUSTIFICATION BELOW:			
16. DOES NC AFFECT Q-LIST ITEM: YES ☒ NO ☐			
17. IS NC REPORTABLE PER 50.55(e): YES ☐ NO ☒			
18. IS NC REPORTABLE PER PART 21: YES ☐ NO ☒			
19. IF YES, DATE & TIME OF REPORT TO NRC: N/A			
20. IF YES, WHO MADE REPORT TO NRC: N/A			
21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A			
22. NCR ORIGINATED BY: <i>[Signature]</i>		23. WRITTEN REPLY REQUIRED BY: 5-11-78 TO ESTABLISH CA COMPLETION DATE	24. SUPERVISOR'S SIGNATURE/DATE: <i>[Signature]</i>
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE: QCIR W-1.00, para. 2.1C.2 revised to remove reference to joint spacing and configuration. Change received by CPCo on August 21, 1978. Fabrication error has been documented on Deviation Report PM-433 and is maintained as an open item on QCIR P-2.10-610-7-3, Item C, Log No. 11604. D.R. and open item was witnessed on September 7, 1978.			
26. DESIGN/PROJECT SIG. AUTH. DISP.: N/A	27. PMO SIG. AUTH. DISP.: N/A	28. PROCUREMENT SIG. CONC. DISP.: N/A	29. SIG. OF ORG. RESP. FOR C/A: GLR
30. FAB/CONST. SIG. AUTH. IMP. DISP.: N/A	31. SIG. OF TEST GROUP ACKNOW. CONDITION: N/A	32. FOR MAJOR MOD - FLT. SUPP. SIG. AUTH. DISP.: N/A	33. QA AUTH. SIG. TO IMPLEMENT DISP.:
METHOD OF PART CA VERIFICATION: Block 25 - This change removed the reason for originating NCR. CPCo considers the change satisfactory.			
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION: GLR-333	36. SIG. VERIFYING PART C/A & HOLD TAG REMOVE/DATE: <i>[Signature]</i>	37. NCR CLOSED BY/DATE: (PART 1 PROCESS CA COMPLETE) <i>[Signature]</i> 9-7-78	



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38. QA ASSESSMENT OF ROOT CAUSE(S):

Isolated error by craft personnel.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

Same as above.

(Bechtel letter GLR-333, dated June 28, 1978)

40. PROCESS CA REQUESTED FROM:

DESIGN ☐

FABRICATION ☐

CONSTRUCTION ☒

PROCUREMENT ☐

INSPECTION ☒

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

Revise QCI W-1.00 to remove reference to joint spacing and configuration.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

Instructions to the crafts and inspecting engineers have been reiterated to install per design drawings and not to deviate from approved drawings, (GLR-333, dated June 28, 1978)

43. METHOD OF PROCESS CA VERIFICATION:

Procedures change reviewed by NCR originator. Subject change is considered adequate.

Verbal instructions were provided to the crafts and inspecting personnel by the Lead Mechanical Field Engineer.

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

GLR-333

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

J. L. Bawell

9-7-78

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PROJECT NAME: Midland		7. NONCONFORMING PART NO: Decay Heat Pump No. 69080 SA 351CF8		3. NONCONFORMING PART NAME: Decay Heat Pump		1. FOR SERIAL NO: N-01-9-8-066	
9. SERIAL NUMBER: Pump No. 69080 SA 351CF8		10. ORG. COMPLETING NO: Babcock & Wilcox		11. AREA/LOC. OF NO: Elevation 568 Room 25		2. DATE: 7-26-78	
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: Decay Heat Pump No. 69080 SA 351CF8 rotating assembly is reversed in the pump casing. The present configuration will not permit connecting the pump assembly in the system. The pump has been removed from the Auxiliary Building and is being prepared for shipment to B&W Canada.		13. CA RECOMMENDATION FOR PART CA: (1) Disassemble the pump and inspect for damage due to improper assembly. Re-assemble the pump in the correct configuration. (Contd on Page 3)		5. DESCRIPTION ACTION COPY: WJLee INFO COPY: CAArmontrout RCBauman WRBird TCCooke JLCorley SHHowell GSKeeley CEMahaney BWMarguglio DBMiller DATaggart		3. DATE OF REV: Closed 8-16-78 Revised 9-21-78	
DESIGN/PROJECT ENG. DISPOSITION REQUIRED ☐ NOT REQUIRED ☒		14. HOLD TAGS APPLIED: YES ☐ NO ☒ IF NO, ENTER JUSTIFICATION BELOW: B&W Canada going out of the pump business, no future pump purchases will be made. It was verified that proper inspection was performed on the reassembly.		17. IS NO REPORTABLE PER 50.55(e): YES ☐ NO ☒		19. IF YES, DATE & TIME OF REPORT TO NRC: NA	
15. DOES NO AFFECT Q-LIST ITEM: YES ☒ NO ☐		18. IS NO REPORTABLE PER PART 21: YES ☐ NO ☒		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: Prior to reassembly of pump TO ESTABLISH CA COMPLETION DATE		24. SUPERVISOR'S SIGNATURE/DATE: DR Kenting 7-26-78		25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE: All recommended corrective action has been accomplished as of 8/16/78.	
26. DESIGN/PROJECT SIG. AUTH. DISP.: NA		27. PRO SIG. AUTH. DISP.: NA		28. REQUIREMENT SIG. CONC. DISP.: NA		29. SIG. OF ORG. RESP. FOR Q/A: B&W Canada letter Geyer to Lee dated 8-1-78	
30. FAN/CONST. SIG. AUTH. DISP.: B&W Canada letter Geyer to Lee dated 8-1-78		31. SIG. OF TEST GROUP ACTION, CONDITION: NA		32. FOR NRC SIG. - FLT. SUPT. SIG. AUTH. DISP.: NA		33. CA AUTH. S.T. TO IMPLEMENT DISP.: Harold L. Allen	
34. METHOD OF PART CA VERIFICATION: page 3.		36. SIG. VERIFYING PART Q/A & HOLD TAG REMOVAL/DATE: Harold L. Allen 8/16/78		37. NCR CLOSED BY DATE: (PART & PROJECT CA COMPLETE) Harold L. Allen 8/16/78		35. NCR CLOSED BY DATE: (PART & PROJECT CA COMPLETE)	



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M-01-7-8-066

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18. CA ASSESSMENT OF ROOT CAUSE(S):

NA

19. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

NA

20. PROCESS CA DERIVED FROM: NA

DESIGN ☐

FABRICATION ☐

CONSTRUCTION ☐

PROCUREMENT ☐

INSPECTION ☐

OTHER ☐

21. CA RECOMMENDATION FOR PROCESS CA: NA

22. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 21 & DATE OF COMPLETION:

NA

23. METHOD OF PROCESS CA VERIFICATION:

NA

24. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

NA

25. PROCESS CA COMPLETION VERIFIED BY/DATE:

NA

NCR SERIAL NO: M-01-9-8-066

DATE: 7-26-78

DATE OF REV: Closed 8-16-78, Revised

FILE NO: 16.4.1

9-21-78

QA RECOMMENDATION FOR PART CA: (Contd)

- 2) Verify that the impeller blading is installed on the shaft in accordance with design requirements.
- 3) Provide QC inspection for activity described in 1) above.
- 4) Assure other Decay Heat Removal Pumps on order were properly assembled.
- 5) Provide copies of assembly and inspection procedures and inspection reports to CPCo QA for our review.

METHOD OF PART CA VERIFICATION:

CPCo completed verification of corrective action as follows:

- 1) Verified by onsite inspection at the manufacturer's facility that Decay Heat Pump Ser. #69080 has been assembled in accordance with approved drawings and Quality Control Procedures.
- 2) Inspected the pump parts and subassemblies prior to reassembly for cleanliness, serviceability of parts and identification of parts.
- 3) Verified by visual inspection the impeller blading was installed in accordance with the drawing.
- 4) Verified QC Inspection was carried out in accordance with approved procedures.
- 5) Inspected Decay Heat Pumps Ser. #69082 and 69083 and verified impeller blading was installed properly. Decay Heat Pump Ser. #69081 has been placed on punch list for inspection prior to final connection of the inlet and discharge flange.
- 6) Copies of Shop Route Sheet, Inspection Procedure and Site Problem Report, resolution transmittal have been reviewed and are acceptable.



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5. PROJECT NAME: Midland	7. NONCONFORMING PART NO: N/A	8. NONCONFORMING PART NAME: Reinforcing Steel	1. NCR SERIAL NO: M01-5-8-072
9. SERIAL NUMBER: N/A	10. ORG. COMMITTING NC: Bechtel QC and Construction	11. AREA/LOC. OF NC: North Refueling Canal Wall RB/1 @ 659'-0"	2. DATE: 9-11-78
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: Drawing C-472, Revision 4, South and North Refueling Canal Walls Rebar Details, calls for Add'l Vert. 6 - #9 x 16'-6" 4th layer E.F. on the west half of the North Wall. Contrary to the above, during final inspection of the Refueling Canal Walls, RB/1 to elevation 659'-0" the 6 - #9's E.F. were omitted.			3. DATE OF REV: Issued Closed
13. QA RECOMMENDATION FOR PART CA: Install the vertical #9's as per the design drawings.			4. FILE NO: 16.3.4/16.3.6
DESIGN/PROJECT ENG. DISPOSITION REQUIRED ☐ NOT REQUIRED ☒			5. DISTRIBUTION ACTION COPY: LADreisbach INFO COPY: WLB Barclay DBMiller WRBird WMoring TCCooke JFNewgen JLCorley DATaggart RHermeston SHHowe'l DRJohnson GSKeeley BWMarguglio PAMartinez JMilandin
14. HOLD TAGS APPLIED: YES ☐ NO ☒ NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED:			
IS PROCESS CA REQUIRED: YES ☐ NO ☒ IF NO, ENTER JUSTIFICATION BELOW: The last incident of omitted rebar in the Reactor Buildings was November 2, 1977 and with the small amount of concrete left to place in the Reactor Buildings process CA would not be cost/benefit effective.			
16. DOES NC AFFECT Q-LIST ITEM: YES ☒ NO ☐		17. IS NC REPORTABLE PER 50.55(e): YES ☐ NO ☒	
18. IS NC REPORTABLE PER PART 21: YES ☐ NO ☒		19. IF YES, DATE & TIME OF REPORT TO NRC:	
20. IF YES, WHO MADE REPORT TO NRC:		21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED:	
7. NCR ORIGINATED BY: <i>A. J. Seale</i>		23. WAITING REPLY REQUIRED BY: N/A TO ESTABLISH CA COMPLETION DATE	
24. SUPERVISOR'S SIGNATURE/DATE: <i>RG Wollney</i>			
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE: The bars were installed as per the design drawings September 11, 1978, prior to pouring concrete.			
26. DESIGN/PROJECT SIG. AUTH. DISP.: N/A	27. ENG SIG. AUTH. DISP.: N/A	28. PROCUREMENT SIG. CONC. DISP.: N/A	29. SIG. OF ORG. RESP. FOR C/A: N/A
30. FAB/CONST. SIG. AUTH. DISP.: N/A	31. SIG. OF TEST GROUP ACKNOW. CONDITION: N/A	32. FOR MAJOR MOD - PLT. SUPT. SIG. AUTH. DISP.: N/A	33. QA AUTH. SIG. TO IMPLEMENT DISP.: N/A
34. METHOD OF PART CA VERIFICATION: Visual Verification			
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION: N/A		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE: N/A	
37. NCR CLOSED BY/DATE: (PA) & PROCESS CA COMPLETE) <i>A. J. Seale</i> 9-11-78			



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38. QA ASSESSMENT OF ROOT CAUSE(S):

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA REQUIRED FROM:

DESIGN

☐

FABRICATION

☐

CONSTRUCTION

☐

PROCUREMENT

☐

INSPECTION

☐

OTHER _____

41. QA RECOMMENDATION FOR PROCESS CA:

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK #1 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE: