



General Offices: 212 West Michigan Avenue, Jackson, Michigan 49201 • Area Code 517 788-0550

March 25, 1979  
Howe-101-79

Director of Office of Inspection  
and Enforcement  
Att: Mr John G Davis, Acting Director  
US Nuclear Regulatory Commission  
Washington, DC 20555

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

In accordance with Condition of Memorandum and Order ALAB-106, dated March 26, 1973 and Amendment No 1 of the Midland Plant Construction permit, enclosed are ten (10) copies of the nonconformance reports for February 1979. The report consists of copies of Bechtel Nonconformance Reports, all sheets from the Bechtel Nonconformance Report Log representing nonconformances open during the month, Bechtel Quality Action Requests, Babcock & Wilcox Reports of Nonconformity and Consumers Power Company Nonconformance Reports and Audit Finding Reports written or closed during the month.

CC: JGKepler, USNRC Region III

REGULATORY DOCKET FILE COPY

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5/10

LOG OF NONCONFORMANCE REPORTS

PROJECT NAME <sup>1</sup> Midland

JOB NO. <sup>1</sup> 7220

Docket # 50-329  
Control # 7903270394  
Date 3/25/79  
REGULATORY DOCKET FILE

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
668	1-17-77	C-231. Concrete curing temperature fell to 38°F. Pour #C(640)a'	Use as is	3-24-77	G. Sanders
669	1-17-77	C-231. Broken and missing rebar, Aux Bldg opening Elev. 584'	Std Repair	5-13-77	M. Foote
670	1-17-77	C-231. Missing dowel, Aux Bldg Elev. 576'0", 5' east of 6.6, 10' south of F line	No Nonconformance	4-15-77	M. Foote
671	1-17-77	C-231. Missing dowel, Aux Bldg Elev. 576'0", 8' east of 6.6 on D line wall	No Nonconformance	5-3-77	R. K. Siple
672 *	1-17-77	C-231. Broken dowel for block wall, Aux Bldg Elev. 599'0", 6' east of 7.9, 4' north of B line	Std. Repair	2-14-79	J. E. Mojers
673	1-17-77	C-231. Broken dowel for block wall, Aux Bldg Elev. 599'0", 7' east of 5.1, 2' south of A line	Std. Repair	2-28-78	S. Kirker
674	1-17-77	C-231. Missing dowel, Aux Bldg, Elev. 593'0", 10' south of F line, on 5.6 line	Std. Repair	5-19-77	M. Foote
675	1-17-77	C-231. Broken dowel for block wall, Aux Bldg, Elev. 614'0", 10' east of 7.4 line, 17' north of B line	Std. Repair	3-28-78	S. Kirker
676	1-19-77	Dwg. E-536. Conduit 1 A010 damaged by drilling. Aux. Bldg. slab at Elev. 599'0"	Std. Repair	2-16-77	D. Coine
677	1-20-77	M-104A, G-321D not received for reducers, Mat'l not allowed for on piping class sheets	No Nonconformance Reject	8-24-77	R. S. Morrow
678	1-20-77	M-106A, Hanger 18-1HCB-1-H10 fabricated to level #9 drawing	No Noncon- formance	2-22-77	J. R. Slifer
679	1-24-77	C-208. Record cylinder set for Pour C(652.75)b' cured below minimum requirement.	Use as is	3-3-77	D. L. Osborn
680	1-24-77	M-104A. Several pipe spools delivered with no desiccant inside.	Rework Reject	9-16-77	J. R. Slifer
681,	1-24-77	C-231. Fire damage to letdown cooler walls, Cont #2, Elev. 613+ to 624+		8-18-77	D. L. Osborn
682	1-25-77	C-231. Grout not properly bonded to construction joints, 5.3 and 7.8 lines, H line to Kc line, 614'0"	Std. Repair	5-10-77	R. K. Siple
683 *	1-28-77	M-104A. Code data sheet and NDE reports do not correspond with Spool piece 2-HCB-21-S613-6-2	Reject	5-12-78	J. W. Miller
684	1-28-77	C-111. Pits and gouges in liner plate out of tolerance as outlined by spec.	Std. Repair	3-11-77	D. L. Osborn
685	1-28-77	C-230. Flyash content 1.5 lbs over allowable, one load, Pour SWR(598.5)a	Use as is	3-4-77	D. L. Osborn
686	2-1-77	C-211. Backfill material delivered 12-I-76&12-I4-76 without required testing	Use as is	3-7-77	D. L. Osborn

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
877	7-27-77	M-106AC. Hanger rod not cut to length and hanger sketch did not incorporate Bechtel comments.	No Noncon. Use as is	9-22-77	J. R. Slifer
878	7-27-77	E-6AC, G-321-D and Quality Verification Doc. are incorrectly identified as Non-Q for circuit breakers.	Rework-Doc	9-13-77	J. R. Slifer
879	7-27-77	Dwg. C-439. Nelson Stud attached to plate sheared off when struck with a hammer.	Rework	9-19-77	R. P. Abad
880	7-28-77	Dwg. C-329. #8 ties with 4'6" tails were placed around 1.113-254 tendon trumpets instead of 5'3" tails. Cont #2	Use As Is	Telex 8-11-77 8-22-77	B. T. Check D. L. Osborn
881	7-29-77	M-104AC. Two pipe spools with the same spool number, two different register numbers ICCA-13-S603-1-1	Use as is	6-27-78	R. Moray
882	7-29-77	M-204. Weld 24 on M-616 Sht 10 welded as Non-Q list weld.	Rework	10-5-77	P. W. Ratter
883	8-1-77	C-230. Six yards of concrete with high slump, pour C(723.92)b'	Use as is	Telex. 8-3-77 8-22-77	D. L. Osborn D. L. Osborn
884	8-1-77	C-230. Concrete in Pour C(723.92)b' had below minimum allowable cement weight and flyash weight.	Use As Is	Telex. 8-11-77 8-22-77	B. T. Check D. L. Osborn
885	8-1-77	M-104A. Two different doc. packages and spools exist with the same spool number. 2HCC-41-S604-14-2.	Rework		
886	8-1-77	M-104A. Two different doc. packages and spools exist with the same spool number. OHBC-1-S618-1-1.	Use as is	5-4-78	R. Moray
887	3-3-77	M-305. 150 SS studs were not marked with the manufacturer's ID or the class of material.	No	Nonconformance 8-8-77	J. W. Miller
888	8-4-77	M-132AC. Motor operators do not have terminal strips, 'X' connections are not jumpered.	Reject	8-11-77	D. A. Delaney
889	8-8-77	M-64. Radiographs not available for CCW Surge Tanks, Radwaste Gas Surge Tank, Radwaste Gas Decay Tanks.	Rework	2-2-79	A. M. Lobrovich
890	8-8-77	M-123C. Radiographs not available on the jobsite for 10 valves.	Doc Rework	12-29-77	T. Christofferson
891	8-8-77	M-146. Radiographs for 4 Centrifugal Water Chillers not available at the jobsite.	Use as is	5-26-78 11-8-77	W. Pardee K. A. Nilson
892	8-8-77	M-125A. Radiographs are not available at the jobsite for one valve.	Doc Rework	12-2-77	J. W. Miller
893	8-8-77	M-104A. Yard piping spool 601-A-11, documents and pipe have different heat code numbers	Doc Rework	9-15-77	C. Groat
894	8-8-77	C-230. Concrete placed in Cont. #1 Pourback C(734.09)b' Temperature average too high.	Use as is	Telex 8-11-77 8-26-77	B. T. Check D. Osborn
895	8-8-77	M-204. Electric cable came in contact with a pipe spool burning a hole through the vendor shop weld.	Std. Repair Rework	12-8-78	J. Hurren

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

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED B.
1181	1-19-78	C-231. Concrete Curing ( A total of 23 indeterminate hours of low temperature SWI (6593) E'	Use as is	3-10-78	S. Kirker
1182	1-19-78	E-20. 12" Weld Neck Flanges. Surfaces contain scratches, water found inside flange, rust. RB #2 Pen. Area	Rework	4-3-78	J. Slocumb
1183	1-18-78	C-230. Concrete Strength. Concrete placed 10/18-77 A(699.17)a' failed to meet required strength @ 90 days.	Use As Is	Telex 2-6-78 3-1-78	S. Kirker T. Lieb
1184	1-19-78	M-106AC FR 8, 10 pc's Carbon Steel Plate, quality verification documentation not received.	Doc. Rework	2-6-78	D. Duff
1185	1-20-78 12-12-78	C-50B. Fractured Vendor welds & stiffener. Nine Vendor welds & 1 stiffener fractured. Personnel Lock	Repair	11-1-78	J. C. Huron
1186	1-23-78	Dwg. C-159. 4 cu. yds of PGDC mix was placed outside of the specified limits. A(659)o	Use as is	2-18-78	J. Moyers
1187	1-24-78	M-305. 596 Pcs 1 1/2" Sch 80, 20' Random Lengths. Matl received at jobsite with no Heat #'s, legible markings.	Reject	5-15-78	H. D. Foster
1188	1-24-78	C-230. 7 yds. of E-2 concrete failed to meet 6000 psi @ 90 days. C(764.58)a'	Use as is	3-13-78	T. Lieb
1189	1-25-78	M-127A. ID tags on S/N WM-25-5, WM-25-9, WM-25-24 are wired to operators. G-321D forms incompletely filled out.	Doc. Rework Rework	6-1-78	D. Delaney
1190	1-30-78	M-1149. Housing of 1VM-55A Safeguard Room Unit Cooler dented & Punctured. Elev. 568' North Face East 6.2	Repair	6-5-78	E. Estes
1191	1-31-78	Dwg. C-378. Pressurizer Lower Support Embed. Shown @ 17'9" S. & 10'11 1/2" E. should be 17'9" S. & 10' 0 1/2" East.	Repair	Telex 4-10-78 4-10-78	S. Kirker S. Kirker
1192	1-31-78	M-204. Field Weld #12 welder not qualified to the applicable welding procedure. Aux. Bldg. Elev. 584'	Rework Use as is	7-26-78	J. C. Huron
1193	2-1-78	M-106. E-ME-416, 687-01, 857, 978 & EMD-022. Shop welds do not meet acceptance criteria of QA/QC procedure Rev. B #02A006	Use as is		
1194	2-1-78	M-106. E-ME-461, 666, & 972. Shop welds do not meet acceptance criteria of QA/QC procedure #02A006 Rev. B	Use as is	10-13-78	K. Deitz
1195	2-1-78	M-215. 10" Sched. 80 Seamwelded Pipe delivered to the jobsite w/o MTR for weld mat'l used, radiographic film.	Doc. Rework <del>Reject</del>	11-3-78	D. Delaney
1196	2-1-78	M-215. 12" Sch. 80 SS pipe delivered to the jobsite w/o MTR for weld mat'l used and radiographic film.	Doc. Rework	2-2-79	B. Mc Glashan
1197	2-2-78	M-75. No Documentation Package received for the Service Water Pump, tag #OP-75A.	Doc. Rework	3-3-73	D. Delancy
1198	2-2-78	Dwg. C-674. Conflict w/dwg. C-434 as to placement of Pipe restraint embed - type 3. Cont. #2, El. 657'11"	Use as is	5-4-78	D. Oshorn
1199	2-2-78	E-7. Terminations in motor control centers not in accordance with requirements.	Use as is	3-28-78	D. Thompson

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1200	2-2-78	M-106AC. 5 pcs. S-Beams delivered to the jobsite without certified material test reports.	Doc. - Rework	2-9-78	D. E. Duff
1201	2-3-78	C-230. Bagged Cement (566 bags) delivered to jobsite on 12-1-77 without a temperature being taken.	Use as is	3-24-78	T. Lieb
1202	2-3-78	M-1.17. Radiographs for Decay Heat Removal Pumps not available, density problem, etc.	Reject	6-30-78	K. Deitz
1203	2-6-78	C-38. Angle received with incorrect dimensions & flame cut damage.	Reject Std. Repair Use As Is	4-14-78	D. Osborn
1204	2-6-78	C-230. Pour C(773.5)a' did not meet 6000 psi @ 90 days. Cont. I Ring Girder.	Use as is	5-22-78	T. Lieb
1205	2-6-78	Dwg. C-438. Eight 2"X23"X1'-10" anchor plates for Det. #1 & #2 were misfabricated. N. & S. Sec. Shield Wall	Repair	4-27-78	D. Osborn
1206	2-6-78	M-64. Emer. Diesel Oil Storage Tank Hold Down Straps. Coating peeled & Chipped. No coating on straps at all.	Std. Repair	3-15-78	D. Osborn
1207	2-8-78	J-201. Main Control Panels; conduit does not have color coding, distance between raceways below minimum.	12-29-78 Rework	12-29-78	A. Lobrovich
1208	2-8-78	C-231. Concrete curing fell below a minimum of 50° for 50 indeterminate hours. Aux. Bldg. Block Wall #6	Use as is	3-24-78	D. Osborn
1209	2-8-78	M-106AC. Dwg. 1-612-5-19. Hanger has 5/16" fillet welds instead of 3/16" as called out by Grinnoll proc.	Use as is	3-2-78	D. Duff
1210	2-8-78	F-25765. ASTM A307 bolts do not have manufacturers identification.	Reject	4-28-78	R. Montreuil
1211	2-8-78	Dwg. FSK-MPC-2-2006. SS pipe attached to Flued Head has hole burned through it caused by arcing of welding cable.	Rework	6-12-78	J. C. Huron
1212	2-8-78	Dwgs. C-141, C-194. Existing dowels do not meet cover requirements. Aux. Bldg. El. 628'6".	Repair Use as is	3-24-78	D. Osborn
1213	2-9-78	Dwg. C-208, C-206. embedded plate installed too small. North face of KC line, 5.9 & 6.6. Aux. Bldg. El. 685'0"	Repair	2-24-79	G. Kerry
1214	2-9-78	C-230. Cement User Test #63, 1/11/78 had a result of 3.39% SO <sub>3</sub> & 4.0% 3CaO.A12O <sub>3</sub> , exceeding max. limit.	Use as is	4-12-78	T. Lieb
1215	2-10-78	E-20. Elec. Penetration Assemblies, no inert gas blanket, cable chaffed, 2214, 2, 144, 146, 143.	Repair		
1216	2-10-78	M-618. 36" Butterfly Valve, a depression across the raised face of flange, manual hand wheel broken. D-0060-6-1	Repair	5-31-78	L. Brown
1217	2-10-78	M-204. Field Weld #15R1, Pen. 2271. No WR-5 was issued for repair, welding was completed w/o QC & release.	Use as is	7-12-78	W. M. Pardee
1218	2-10-78	E-20. Two Elec. Penetration Adapter Flanges. G-321D was not completed by Bechtel Supplier.	Doc. Rework	2-17-78	J. Slifer

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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1314	4-19-78	C-24. Sluice Gate Lifting Plates required to be ASTM-A36, received on site ASTM-A283-75D.	Use as is	6-22-78	S. Gelnett
1315	4-19-78	E-20. Weld Neck Flange. scratches on the machined surface of weld neck flange 27-124.	Use as is	6-2-78	F. Ringe
1316	4-19-78	M-1.16. Makeup Pump Motors, Vendor Print for Pump Motors calls for heaters to be 400watts, (800watts are installed)	Doc Rework		
1317	4-19-78	C-233. Hatch Cover mk #452 received @ the jobsite with one shear stud broken off.	Rework	7-28-78	G. Yeisley
1318	4-19-78	Dwg. C-186. Anchor Bolts for HVAC Equip. T/Bolt elevations do not agree with dwg.	Use as is		
1319	4-20-78	Scratches and rust on Weld Neck Flanges plus damage to Conductor insulation. (E-20)	Rework	4-28-78	F. Ringe
1320	4-20-78	E-20, Scratches on the surface of Weld Neck Flanges	Rework	6-27-78	F. Ringe
1321	4-21-78	J-202. Auxilliary/Local Control Panels, not primed & finished in accordance with specification.	Doc.Rework		
1322	4-21-78	M-104A. Pipe Spools received at the jobsite chained down with CS chains, resulting in rust to the spools.	Use as is	5-26-78	D. Delaney
1323	4-21-78	F-27380. Grade and process of manufacture is not legibly stamped on 61 pieces of jam nuts.	Rework	8-9-78	D. Barrett
1324	4-24-78	M-64. Emergency Diesel Oil Storage Tanks - installed in the wrong location. 2T-78A & 2T-78B (locations reversed)	Reject	5-18-78	R. Montreuil
1325	4-25-78	C-38. Ten(10) ASTM A149 Bolts were received on site without required markings.	Rework	6-5-78	E. Estes
1326	4-25-78	C-304. Undersized weld measurement on welded angle iron connection.	Reject	5-23-78	R. Montreuil
1327	4-25-78	C-231. 14 cadwelds shot by an unqualified shooter Aux. Bldg. El. 678' + 25' E of 9.4 line	Rework	2-4-79	J.C. Huron
1328	4-27-78	C-304. Clips to W8x17 Beam were welded and released from Combo Shop without QC Documentation Verification or	Use as is	5-19-78	J. Moyers
1329	4-27-78	Dwg. C62/Welded plates were fabricated in lieu of bent plates without Project approved drawings.	Use as is accep.	10-17-78	J. C. Huron
1330	4-27-78	Dwg. C-153. Arc Strike 1" high by 1/2" long by 1/8" deep on structural beam #672B7.	N/A	5-5-78	J. Huron
1331	4-28-78	Dwg. C-695. 2 Incore Instrumentation Tank Supports were fabricated in the Combo Shop to an uncontrolled sketch.	Std.Repair	5-9-78	J. Huron
1332	4-28-78	F-22282. 1611 pcs. of 3/4" nuts have illegible marking.	Rework		
			Reject	11-30-78	R. Mon treuil



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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. 2Z152 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	1-9-79	J. Huron
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	11-2-78	J. C. Huron
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" CCB-CK-1 S/N 2N-799 & 2 1/2" CCB-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	2-24-79	R. Valentin



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



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1466	8-10-78	J-204. Seismic Instrument Rack - tagging of rack does not agree with Bechtel Dwg. J-393.(panel 2C166)	Rework	9-8-78	J. Slifer
1467	8-10-78	J-204. Differential Pressure transmitter - Non-Q documentation was delivered. (1LT-2107A & 21T-2207A)	Reject		
1468	8-14-78	M-305. Material received against M-305 without the required traceability.	Doc.Rework Reject		
1469	8-14-78	F-26182. 2 pcs 2 1/2" 145° CS Elbows - manufactures name and heat number are illegible.	Reject	2-22-79	M. Moore
1470	8-14-78	M 1.7. Reactor Coolant Pump Motor Flywheel - Data pkg does not have a signed B & W NPGD Cert. of Conformance.	Doc. Rework		
1471	8-15-78	F-18375. Deformed Bar Anchors, do not meet min. tensile strength according to documentation received.	Use as is	9-13-78	T. Christofferson
1472	8-16-78	M-117AC. Nuclear Service Valves - Items # 11.1, 11.2, 11.3, 12.1 have numerous documentation problems.	Doc.Rework	1-19-79	D. Delaney
1473	8-15-78	F-27833. Zone 5A Rip Rap - mat'l received on ticket # 77389 does not meet size requirement called out by PO.	Reject	9-27-78	R. Montreuil
1474	8-17-78	M-125C. Numerous documentation problems on Valve s/n 5205-21-1-9, 10" HCB-GT-DRL	Doc.Rework	1-19-79	D. Delaney
1475	8-17-78	M-125C. Numerous Doc. problems on valves s/n 5205-06-1-1,2,3,4	Doc.Rework	1-19-79	D. Delaney
1476	8-17-78	M-125C. 4 Valves, missing repair verif. reports, paint flaking off valve operator, heat charts not legible/traceable	Doc. Rework		
1477	8-17-78	M-117AC. Doc. problems on 2 vlaves, s/n 4632-16-1-92 & 4532-16-1-94.	Doc.Rework	1-19-79	D. Delaney
1478	8-17-78	M-117AC. Doc. problems on 4 valves s/n 4632-13-1-90, 88,89,87	Rework Doc.Rework		
1479	8-17-78	F-28362. Mainstream Anchors & Restraint Supports - 3 Beams delivered to jobsite with numerous Doc. problems.	Rework		
1480	8-18-78	CRD Primary AC Breaker - Relative humidity at which units were stored exceeded 60% requirement.	Use as is	11-22-78	K. Nilson
1481	8-21-78	Dwg. C-416. Embeds 601-3-12 & 601-3-13 were installed out of Dwg. design elev.	Use As Is	10-13-78	P. Vanderveer
1482	8-21-78	Civil QC (Survey) Settlement in the Diesel Generator Foundations and Structure			
1483	8-21-78	M-215. 4 pcs 6" Sch. 10 Tees - Heat # on Certified MTR does not agree with that stamped on pipe.	Doc.Rework	9-29-78	M. Donovan
1484	8-21-78	M-215. 6 pcs 12" Flanges - Form 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	10-20-78	J. Slifer
1491	8-24-78	E-532. 2ACO24 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 1E1B-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.	Rework		
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	10-20-78	J. Slifer
1497	8-28-78	C-230. Low Air Entrainment - Aux. Bldg. Roof Deck Pour "5C" had a total of 14cu yd placed with low air. A(704.54)E	Use as is	10-30-78	S. Kirker
1498	8-28-78	C-305. Contrary to requirements several locations have more than max. bars cut. Aux. Bldg.	Use As Is	10-23-78	S. Kirker
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.	Use As Is	2-19-79	M. Gubitose
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	10-3-78	D. Delaney
1502	8-30-78	M-305. 319'8" of 1/4" Sch. 80 Pipe - Pipe has 100% internal rust coverage.	Reject		
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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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.	Use As Is	11-3-78	J. C. Huron
1506	8-31-78	M-64. Emergency Diesel Oil Day Tank - Doc. pkgs contain illegible MTR's, Heat number discrepancies.	Doc. Rework		
1507	8-31-78	J-275. Cabinets, Engineered Safety Isolation Sys - Numerous Documentation problems. Aux. Bldg Level 354	Doc. Rework	12-14-78	D. Delaney
1508	9-1-78	F-29237. Wide Flange Beam - One Beam, Heat # 10647 meets neither yield nor tensile requirements.	Doc. Rework Reject	1-17-79	C. Gwin
1509	9-1-78	F-29202. 1 1/2" A449 Rod - Material is not marked/certified MTR's do not show required chemical results.	Rework	9-12-78	J. Slifer
1510	9-1-78	C-24. Sluice Gates/Stem Guides - Stem Guides received for OM-91 A & B are not correct size.	Reject	11-6-78	C. Gwinn
1511	9-1-78	C-24. Sluice Gates/Stem Guides - Stem Guides received for OM-96 ABC & D are not correct size.	Rework	11-6-78	C. Gwinn
1512	9-1-78	J-201. Cable Risers - No Quality Verification Documentation has been received.	Doc.Rework	2-20-79	D. Delaney
1513	9-1-78	F-22282. Stud Bolts w/2 nuts - Material received with no G-321D or Quality Verification Documentation.	Doc. Rework	12-6-78	R. A. Montreuil
1514	9-6-78	C-128. Omitted Rebar in the bottom mat of the "Ring Wall" footer. Tank Farm, Tank # 2T-60.	Std.Repair	9-19-78	S. Gelnett
1515	9-6-78	C-384. Struc. Fmbds - 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)	Use as is		
1519	9-7-78	M-611 sht 7 Fieldwelds #11 & 12 - welder not qualified for the thickness of the material welded. Aux. 605'	Use as is	1-9-79	J. Huron
1520	9-6-78	J-275AC. Analog Isolators - G-321D forms were not received.	Doc.Rework	12-14-78	D. Delaney
1521	9-6-78	J-207AC. Engineered Safety Features Actuation Sys - Panels painted incorrect color/Elec. Test Reports not recd.	Doc.Rework	10-19-78	J. Slifer
1522	9-7-78	M-104A. 6" 90 L/R Elbows - Documentation & Marking problems	Doc.Rework	10-2-78	L. Brown



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



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1599	10-25-78	FSK-MPY-98. 2"-1-HBC-498 and return line and return line 1 1/2"-1-HBC-4 are installed outside class I boundary	Rework		
1600	10-25-78	F-29361. 4 U-bolts were shipped without being listed on packing slip and therefore without certification	Doc.Rework	2-20-79	B. McGlashan
1601	10-25-78	J-207. No documentation or G-321D form	Doc. Rework	12-15-78	J. L. Slifer
1602	10-25-78	F-29400. supplier has shipped 300 ft. of 1 3/4 diameter bar while certifying only 200 feet.	Doc. Rework	11-30-78	R. Yonekawa
1603	10-25-78	M-64. Incorrect heat numbers on Heat number chart and welding control sheets.	Doc. rework	2-20-79	D. Delaney
1604	10-26-78	M204. 18 inch flange on pipe spool 2GCB-32-611-3-3 has a radial deficiency on the raised portion of flange	Rework	12-14-78	L. Brown
1605	10-26-78	F-31705. Nuts have no manufacturer's mark.	Reject	11-29-78	J. Gray
1606	10-27-78	J-206. Valve item #4.9 tag # 5M6S2GN2, item #4.13 Tag# 5M15S2Gn2 No Quality Verification Documentation.	Doc.Rework		
1607	10-27-78	Spool 1HBC-1-619-6-1. Flange Face mismatched to Butterfly Valve	Rework		
1608	10-30-78	F-3107. 5 pages of certified Material Test Reports instead of the 6 stated on the G-321D.	Doc. Rework	12-7-78	R. A. Montreuil
1609	10-30-78	F-3107. Shop Inspector released 42 pages of Certified Material Test Reports contrary to this 39 were received	Doc. Rework	11-7-78	R. Montreuil
1610	10-30-78	F-3107. Discrepancies in G-321D.	Doc. Rework	11-7-78	R. Montreuil
1611	10-30-78	M-104A. Base metal repair on Spool 2GCB-16-S613-2 shows linear indication in the horiz. weld seam.			
1612	10-30-78	J-204. Control panels 1C114 and 2C114. No Quality Verification on Doc. Package.	Doc. Rework		
1613	10-30-78	F-3107. Discrepancies in G-321-D.	Doc. Rework	11-14-78	R. Montreuil
1614	10-30-78	J-201. Number One Operator's Desk OCQ1, the layout of equip. on the operator's desk Tag #OCQ1 doesnt agree with	Rework J-748		
1615	10-31-78	Dwg. E-532 Battery Charger & Inverters, anchored in 3/8" dia. bolts instead of 3/4" dia bolts	Rework	1-11-79	A.M. Lobrovich
1616	10-30-78	E-205. Modification Equipment for Metal Clad Switch-gear. Mounting brackets are positioned off bolt center line.	Rework	1-26-79	A. M. Lobrovich
1617	11-1-78	M-117. Four Nuclear Service Valves No Doc. supplied.	Doc. Rework	1-30-79	D. Deh aney

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1618	11-1-78	G-27. Anchor Bolts for Elec. Panels - mounting plates are being installed w/o an issued QCIR for installation	/Use AS Is	2-17-79	J.C. Huron
1619	11-1-78	M-326. Pipe Support Hangers were installed by welding prior to welding QCIR being issued.	Rework <del>USE-AS-IS</del>	2-27-79	C. Groat
1620	11-2-78	OHBC-M-657-44-27. By-passed hold point on QCIR M-657-44, FW-27 Act. 2.1 part C 3" .216 CS Pipe Weld, FW-27	Use As Is	1-5-79	J. Huron
1621	10-25-78	F-30341. NF Structural Hanger Material, MTR's not supplier.	Doc. Rework	11-30-78	R. Yonewawa
1622	11-2-78	M-127B. 3 Nuclear Service Valves. Packages not reviewed and signed by SQR.	Doc. Rework		
1623	11-2-78	F-27314. S.S. Welded Pipe 60' of 10" Sch 80 ASME SA-358 Class II. Doc. Package arrived without Radiographs.	Doc. Rework	11-16-78	J.L. Gray
1624	11-3-78	M326. Pipe Restraint Supports. B4-4 & B4-3 71292 Weld size does not conform to designated weld on Dwg.	Rework	12-15-78	P.C. DiCarlo
1625	11-3-78	M-619-Sh2. 2HBC-110-619-2-12. 45 degree elbow at F.W. 14 is approx 6 1/2 in. north-east of design location			
1626	11-6-78	F-30851. 15000' of 2" Sch 40 Type 304 Stainless Steel Seamless Pipe ASME SA-312 12 lengths untraceable to Doc. part no. 2P-05A, Electric Driven Auxiliary Feedwater pump, gauge broken off at housing, of the coupling.	#1 Use as is #2 Reject	12-11-78	J.L. Gray
1627	11-6-78	F-29071. 2 Pcs 2" 3000# C.S. S.W. ASME SA-105 PipeCaps wrong heat numbers.	Rework	2-7-79	T. Arritola
1628	11-6-78	J-204. Instruments for Local & Main Control Panels, No quality verification doc. or G-321-D, received.	Doc. Rework	12-2-78	K. Deitz
1629	11-6-78	M-118A. 28" 900# Main Steam Isolation Valve, Tag NO. 36-ALB-BL-2XV-3211AR-Discrepancies in the G-321-D form.	Doc. Rework		
1630	11-6-78	E-20. Electrical Cable Penetrations. Documentation inadequate, chafing on all threaded rod supports (ceramic)	Doc. Rework Repair		
1631	11-6-78	F-28736. ASTM A-307 Gr. A Bolts (for Tubing Clamps), bolts not marked with manufacturers identification mark.	Reject	12-1-78	J. Slifer
1632	11-6-78	M-75. Service Water Pumps Seismic Supports, fillet size wrong.	repair		
1633	11-8-78	Part No. 1P-05B, Steam Driven Aux. Feedwater Pump, oil level indicators on item broken.	Rework	2-8-79	M. Guliano
1634	11-8-78	F-28934. Nuclear Service Valve replacement Parts, G-321-d not furnished for replacement parts	Doc. Rework	1-30-79	D. Delaney
1635	11-8-78	C-50. Repaired vendor welds on Personnel Locks, discrepancies in weld sizes.		12-12-78	B. Daly
1636	11-9-78				



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2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1637	11-10-78	M-150. Fill Hopper Assemblies, the Stainless Steel Covers of the fill hoppers were delivered in various %'s of Rust.	Rework		
1638	11-10-78	F-29257. Clevises w/pin and cotter (10 pcs.) were not listed on the shipping list and hence are not certified.	Doc. Rework		
1639	11-10-78	F-27952. Nuclear Instruments Fitting. 129 type 6-1/2-AW2 adapters were received at jobsite, which exceed allowable	Reject dimensions	12-1-78	J. Slifer
1640	11-10-78	J-202. Local Control Panel. pages of Documentation are illegible	Doc. Rework	11-15-78	J. Slifer
1641	11-10-78	E-20. Elec. Penetration Ass'y 1z-123, 2Z-144, not hooked up to purge header because of leaking modules.	Repair		
1642	11-10-78	M-106. 1 1/4" Fig. 299 Clevis (100 Pcs.). pin & cotters not traceable to Certificate of Compliance	Doc. Rework	11-30-78	R. Yonekawa
1643	11-10-78	F-30341. Structural Tube-200', 6x6x1/2 shipped without required documentation.	Doc. Rework		
1644	11-10-78	F-27660. Reactor Building Exhaust Stack Supports, supports struts are rotated on axis not allowing fitup	Reject	12-20-78	J. L. Gray
1645	11-13-78	M-117 AC. Motor Operated Valves, manufactured with Schedule 80 on only one side(end) and Sch. 40 on other side.	repair		
1646	11-14-78	C-208. Concrete Test Specimen. curing tank #20 had a temp of 69 degrees exceeding requirement by 1 degree.	Use As Is	1-11-79	T. Leib
1647	11-14-78	C-231. Cut Rebar. a #11 vert. bar was cut on the south face of G line wall.	Use As Is	2-1-79	J. Moyers
1648	11-14-78	C-111-181. Flued Head found with a void after stress relieving	Repair	12-21-78	J. Savoia
1649	11-14-78	M-64 Safety related chill water exp. internal surface of tanks have heavy rust.	1&2N/A Rework	12-15-78	M. Guliano
1650	11-15-78	Dwg. C-401. Backing bars used on pipe restraint FPGW's but not indicated on drawing.	N/A	11-21-78	B. Daly
1651	11-15-78	Dwg. M-616 Sh. 10. Wall thickness of spool is .099" less than required.	Std Repair		
1652	11-15-78	M-204, FW 16 of M-603 sh. 16 was welded with no QCIR ( Inspection Record )			
1653	11-16-78	M-104. 2HRC-14-S613-6-1 spool piece has wall thickness of .128 minimum wall thickness is .1295	Use As Is		
1654	11-17-78	M-129. Nuclear Service Valves. Received without G-321-D.	Doc. Rework		
1655	11-17-78	M-104. Pipe hanger Assemblies no dwgs received with spools.	Doc. Rework		

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1675	11-28-78	M-1.11. Pressure safety Valves. 90 day inspection is over-	use as is	2-16-79	C.R.Fugate
1676	11-28-78	M-1.27. Pressurizer spray control valves. F-1-256. inspection is overdue.	Use As Is	1-26-79	C. Fugate
1677	11-28-78	M-163 Recir. Air cooling unit fans. 30 day and 90 day inspection is overdue. Storage preventing inspection.	Use As Is	1-20-79	F. Mahala
1678	11-29-78	P&ID M-114. Thermowell, OTW-1426B. installed without internal damage verification.	Use As Is		
1679	11-30-78	M-1.16. RCS Makeup Pump # 1P58A. No QA Data Package received for item.	Doc. Rework		
1680	11-30-78	M-1.7. Reactor Collant Pump Internals. Discrepancies in QA Data Packages.	Doc. Rework		
1681	11-30-78	C-182. Control Room-Suspended Ceiling. wrong size anchors used, several of the anchors don't provide for full engagement	Rework, Use as is		
1682	11-30-78	M-129. Nuclear Service Valves. Discrepancies in Doc. Package.	Doc. Rework	2-28-79	D. Delaney
1683	12-1-78	M-14. Aux. Feedwater Pumps with Turbine Drivers. Total compliance to E-10 form not achieved.	Use As Is		
1684	12-1-78	E-39. Type 1 Wireway Supports wrong welds allied.	Use As Is Rework		
1685	12-4-78	M-106AC. Pipe hanger Supports & Restraints. received with specific discrepancies.			
1686	12-1-78	E-30537. ASTM A-307 Hex Nuts. ASTM A-194 were shipped instead of ASTM A-307.			
1687	12-4-78	M-75. Service water pump motor. no maintenance inspections have been performed.	use as is	1-23-79	C. Fugate
1688	12-4-78	E-31963. 200 Pcs. of 7/8"-9 A-325 Heavy Hex Nuts. received without required marking.	Reject	12-18-78	J. L. Gray
1689	12-5-78	J-207. Control Panels. Glass in doors control panels broken			
1690	12-5-78	C-231. Concrete Curing. Curing Temp. dropped below allowable spec. for 12 hours.	use as is	1-2-79	A. Lamach
1691	12-7-78	FSK-M-2HBC-207-1. SW:2 welded w/o a QCIR being written or AI selecting designated hold points.	Rework	12-14-78	D. Fredianelli
1692	12-7-78	A-41. Paint in storage @ Standish Fab shop fell below minimum temperature requirement.	Use As Is	1-29-79	R. Valentine
1693	12-8-78	M-168 Reactor Building Purge Isolation Valves. Machine surface for victualic gasket has discontinuities.	Reject		

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

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1713	12-15-78	F-31170. 4 pcs. Type # 185 Horizontal AC Ammeter/ Volt Meter no statement of conformance.	Doc. Rework	1-24-79	M. Moore
1714	12-14-78	F-1-390. Act. 2.3 requires desiccant to be changed in the pipe spools. this requirement not fulfilled.		12-21-78	C. Fugate
1715	12-18-78	M-104 Large Pipe Spools, Wrong Weldneck on pipespool.	Use As Is	2-14-79	F. Starr
1716	12-18-78	M-104A. Spool OHBC-19-S619-6-1, &OHBC-20-619-7-7 received with wrong thickness.	Use As Is	2-12-79	J. Cabral
m 1717	12-18-78	M-104. Nucleafr Pipe Spool/ was received containing water and surface rust, nodesiccant was found inside spoal.	Rework		
1718	12-18-78	b M-127 Nuclear Service Valves, were stamped with wrong identification number	Item#1 Rework Item#2 N/A	1-11-79	K. Deitz
1719	12-18-78	M-20-2-4 Service Water Traveling Screens, chain sprocket was delivered bent out of alignment.	Rework		
1720	12-19-78	E-602 Seismic Junction Box Support, was welded to the embed without a project approved drawing.			
1721	12-18-78	M-104. 2 1/2"x1 1/2" Concentric Reducer Ht. # HMB-6SE. Material received without G-321-D.	Doc. Rework	1-10-79	J. L. Gray
1722	12-18-78	M-104. 14" Sch 30 Spool pcs, defeciciencies in documen- tation	Rework	2-23-79	M. Moore
1723	12-19-78	2 1/2" HBC-178-H17. 3 pieces improperly identified.	Rework		
1724	12-20-78	F-31749 Bare Stainless Welding Electrodes, were wrong and no CMTR was received.	Reject	1-29-79	K. Deitz
1725	12-21-78	E-12 Station Batteries, numbered cells not traceable to quality verification documentation.	Doc. Rework		
1726	12-21-78	C-23 Cut Rebar, Bond Beam was cut without approval.	Use AS Is	1-9-79	/S. Kirker
1727	12-22-78	E-2.0 Tray, discrepancy of tray stenciling.			
1728	12-22-78	C-304 Lower Support Pressurizer Ring, Bechtel NDE 11 did not Include ut report.	Level Use As Is	2-6-79	B. Daly
1729	12-22-78	C-305 Expansion Anchor Installation, were installed by electricians not so qualified.			
1730	12-26-78	M-56 Chilled Water Pumps, had an incorrect serial number in block 20.			
1731	12-26-78	E-22&E-26 Cables, maximum temp applied was greater than it should have been.	Doc. Rework		



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1732	12-28-78	F-32426 Hex Bolts S.S. , have no manufacturers mark & grade stamp B8 is stamped on wrong end.	Reject		
1733	12-28-78	M-105 Air Filtering Units, incorrect wire size installed between control panel and heaters.	Rework		
1734	12-28-78	M-1.16 RCS Makeup Pump 1P58B, no QA Data Package was received.	Document Rework		
1735	1-2-79	M-604 Sh. 6. Spool 2FCB-17-S-604-6-4. has grinder gash located approx. 4" West of F.W. 7			
1736	1-2-79	C-231 Cut Rebar, bars were cut on bottom mat within a radius of 5'-2".	Use As Is	1-18-79	J. Moyers
* 1737	1-3-79	C-231 Concrete Curing temperature was found to <sup>Low</sup> high & for to long of time.	Use As Is	1-5-79	S. Kirker
1738	1-4-79	A-1.1, Paint in Standish Storage Area fell below required temperature range.	Use As Is	1-29-79	R. Valentine
1739	1-4-79	F-32502. Bolts, nuts, improperly marked or have no markings. Incorrect size.	Reject	1-12-79	M. M. e
1740	1-4-79	C-1032 Mislocated doorway reinforcing bars, additional bars were installed on opposite sides of doorway than shown.	Use As Is	2-1-79	C. Pavledes
✓ 1741	1-5-79	E-540 Main Control Panels, Nameplates on said item have been obliterated, while painting red strip.	Rework		
✓ 1742	1-5-79	M-1.2 Reactor Internals, B&W Data Packages have not been received on jobsite & unavailable for review.	Doc. Rework		
1743	1-5-79	M-75-53-3 Service Water Pump, Top & Bottom Seismic Supp., has 1/4" interference between supports & wall embeds during inst.	Rework	1-15-79	M. Guliano
✓ 1744	1-8-79	C-230 Concrete-Placing Temperature Too Low, A load was Discharged at to low temperature.			
✓ 1745	1-8-79	C-231 Concrete Curing, temperatures were below 50°F for approx. 5 1/2 hours.	Use As Is		
✓ 1746	1-9-79	Q-material indeterminate in regards to satisfactory completion of qualification test requirements per spec C-50			
✓ 1747	1-9-79	Q-material indeterminate in regards to satisfactory completion of qualification test requirements per spec C-70			
✓ 1748	1-9-79	Q-material indeterminate in regards to satisfactory completion of qualification test requirements per spec E-6			
✓ 1749	1-9-79	Q-material indeterminate in regards to satisfactory completion of qualification test requirements per spec E-7			

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

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1804	1-11-79	M-204. Spool IGCB -25-610-5-9 has an arc strike approx. 3/4" from the 90 elbow on pipe.			
1805	1-12-79	M-204 Pipe Spool Valve Access Openings, dust proof covers missing during surveillance inspection.	Rework	1-12-79	M. Gubitose
1806	1-11-79	C-208 Concrete Test Cylinders, temperature was too low for pour.	Use as is	2-26-79	T. Lieb
1807	1-11-79	M-305 Smla Pipe Ht. G-321-D was received without correct revision no.	Doc. Rework	1-29-79	J. Gray
1808	1--11-79	C-230 Cold Weather Concreting temperature was not right	Use AS Is		
1809	1--11-79	E-32152 Rod, unthreaded rod are not marked for traceability.	Reject		
1810	1-11-79	F-3142, A516 grade 70 plate, material test report was not received for mentioned material.	Doc. Rework		
1811	1-11-79	M-106, Itt Grinnell Fig #211, no drawings were received with documentation package.	Doc. Rework	1-19-79	R. Montreuil
1812	1-11-79	E-795 MCC Risers, are supported with angle brackets instead of the welding detail.			
1813	1-12-79	M-204 Flued Head, #1Z-78 & 1Z-72 has no dustproof covering	Rework	1-24-79	L. Brown
1814	1-15-79	C-208 Concrete Test Specimens, temperature was too low.	Use as is	2-26-79	T. Lieb
1815	1-15-79	M-204 Pipe Spools, Fit Up Lugs were removed improperly by breaking off instead of grinding them off.	Repair STD	1-19-79	L. Brown
1816	1-15-79	F-30341 Structural Tube, this item was shipped without C or CMTR.	Doc. Rework	2-17-79	B. Mc Glashan
1817	1-16-79	E-30781 Zinc Chromate Plated Bolts, Material shall be ASTM A-449 & was shipped ASTM A-429.	Doc. Rework	1-18-79	C. Gwin
1818	1-16-79	M-1.16 Makeup & Seal Injection Pump, no QA data package was received with this item.	Doc. Rework		
1819	1-17-79	E-532 Conduit- 3 GRS NCR#1586 Hold Tag has been violated.	Use As Is		
1820	1-18-79	M-106 ITT Grinnell Pipe Hangers, No Quality Verification Documentation was received for this shop order, (EMD-331-01)	Doc. Repair	2-1-79	T. Estes
1821	1-18-79	M-106 ITT Grinnell Pipe Hangers, no Quality Verification Documentation was received for shop order (EMD-267)	Doc. Repair	2-1-79	T. Estes
		M-106 ITT Grinnell Pipe Hangers, Beckel shop Inspector	Doc. Repair		

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1823	1-18-79	M-106 ITT Grinnell Pipe Hangers, no Quality Verification Documentation was received with shop order (EMD-263)			
1824	1-18-79	M-106 ITT Grinnell no Quality Verification Documentation was received with shipment, also material location is unknown.			
1825	1-18-79	C-305 Seismic Conduit & Box Supports, these items have supports attached to block walls which is not in accordance with J-253 Atmospheric Steam Pump Valves, tags for valves contain the wrong item number and valve I.D. number.	Doc. Rework		
1827	1-20-79	M-106 Bolts, no quality verification documentation was received for ITT Grinnell shop order EMD-149-01.	Doc. Rework		
1828	1-20-79	C-304 Sleeve MFA 2A&2B, was done without an open Inspection Record.			
1829	1-22-79	C-304 Fab. of angle frames, was accomplished without an open, inspection record.	Use As Is	2-15-79	J.C. Huron
1830	1-19-79	C-231 Concrete Curing, temperature were to low for to long of time.			
1831	1-22-79	F-32624 Smls Butt Weld Elbows, G-321-D received wrong purchase spec.	Rework Doc. Repair	1-27-79	B. Mac Glash
1832	1-22-79	G-24 Misc. Metals, inryco has never submitted sample panels for approval.			
1833	1-23-79	M-204 Voltage Measurements indicated that 3 were welded to less volts.			
1834	1-23-79	F-10-205 Station Batteries, Maintainance Deficiency.	Rework		
1835	1-25-79	C-50B-AC Emergency Airlock, Discrepancies for quality Verification documentation was found.			
1836	1-25-79	F10-145 Service Water Pump Motors, power supply to motor space heaters has been disconnected since 1/12/79.			
1837	1-25-79	C-304 Installation of Cable Tray Supports, voltage measure was outside the WPS specified value.	Use As Is		
1838	1-26-79	M-118 Main Steam Isolation Valve, Wrong Rev. on G321-D was in QVD pkg., valve reducers have wrong heat no. doc. don't corre. with V.D. pkg.	Doc. Rework		
1839	1-26-79	C-20 Embedded Channel, was cut out.	Use As Is		
1840	1-26-79	M-134 Page 3 of 3 for Code Data Reports on G-321-D not received with valve shipment.	Doc. Rework	1-30-79	R. Valentine
		C-439 Pump return line restraint embed, were installed	Rework	12-20-77	P. Vanderveer



LOG OF NONCONFORMANCE REPORTS

PROJECT NAME \_\_\_\_\_

JOB NO. \_\_\_\_\_

PAGE " 115

2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	6 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1842	1-29-79	M-342 spool, 6" -1DBC-7-633-4-1, has green sealant, on top of pipe., leaving integrity indeterminate.			
1843	1-29-79	E-7-27-4 Motor Control Center, 2B43 is missing one back-plate.	Rework		
1844	1-30-79	F-32915 80 Cubic Ft. of Sauereisen No. 72 Special Casting Grade. Bags received not marked Castable.	Reject	2-9-79	T. Estes
1845	1-31-79	E-36 Conduit 2BJA024 ends at raceway 2BBB01 & should end at raceway 2BKPO1.	Rework	2-8-79	J. Kexel
1846	2-1-79	F-32022 1pc. 13/4 x 5' x 10' SA-515 Gr. 70 Plate, certificate of compliance was not received.	Doc. Rework		
1847	2-1-79	M-204 Pipe Spool 2CCB-24-604-4-6 has a large ARC Burn.	STD Repair		
1848	2-2-79	M-118 Main Steam Isolation Valve, wrong documentation received in Q.V.D. package.	Doc. Rework		
1849	2-2-79	C-304 G27, Weld rod Withdrawal & Control, electrodes were not returned to the rod room within the 4 hour period.			
1850	2-3-79	E-12. Battery rack protective paint has been damaged during installation.			
1851	2-3-79	M-204. ESK-M-2HRC-191-1. SW 1 and 9 were welded without a W-1.00B being initiated.			
1852	2-2-79	M-129 Nuclear Service Valves valve no. 49.8 bottom page cut off, 49.9 is illegible.	Doc. Rework		
1853	2-2-79	G-70 Bearings, no documentation was received & on S/N365645 bearings was indeterminate.	Reject	2-23-79	R. MacGlashan
1854	2-2-79	F-31095, Variable Spring Hangers, no certificate of compliance was received.	Doc. Rework	2-13-79	R. Montreuil
1855	2-5-79	E-60 Q-mat'l indeterminate in regards to satisfactory completion of qualification test req'mts. per spec E-60.			
1856	2-6-79	E-60 Incorrect documentation, & incorrect page count.	Doc. Rework	2-20-79	T. Estes
1857	2-6-79	G-4.1 Crimp Tools were returned with faulty ratchet mechanisms made terminations on elect. penetration indeterminate.			
1858	2-6-79	F-32161 312 Hvy. Hex Huts Stud Bolts, no documentation was received.	Doc. Rework	2-19-79	T. Estes
1859	2-6-79	M-305 Pipe G-321-D was not received with documentation on this order.	Doc. Rework	2-7-79	M. Moore
1860	2-6-79	F-30341 Structural Tube was received without CMTR no.	Doc. Rework		

LOG OF NONCONFORMANCE REPORTS

PROJECT NAME <sup>1</sup> \_\_\_\_\_ JOB NO. <sup>1</sup> \_\_\_\_\_ PAGE <sup>8</sup> 116

2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1861	2-6-79	E-30208 Variable Spring Hangers no certificate of compliance was received.	Doc, Rework	2-26-79	R. Montreuil
1862	2-6-79	C-1033 Missing Vertical Rebar was not installed prior to pouring of concrete.	Use As Is	2-15-79	S. Kirker
1863	2-6-79	C-231 Cut Rebar, Bond Beam was cut without project engineering approval.	no non-conf.	2-16-79	S. Kirker
1864	2-7-79	E-620 Cables have been burned in tray 1AKA 12.			
1865 m	2-7-79	E-656 Seismic Conduit Supports, support for conduit was welded without a project approval drawing.			
1866	2-7-79	C-23 Cut Rebar, not more than two bars shall be cut eachway, eachface, per bundle of core drillings & threewas cut.			
1867	2-9-79	M-169 Identification plates was reversed they were attached to the wrong panels.	Rework	2-16-79	A. Lobrovich
1868	2-9-79	M-204 Amperage & voltage checks on installation of pipe voltage measured 10 which is outside WPS specified value.			
1869	2-12-79	M-204 Valves, 2XV-3966A(439-3-45) serial no. 670716 & 2XV-3966B(439-3-61) serial no. PSMM-13 are reversed.			
1870	2-12-79	M-342 Large Pipe Spool's, red paint on external surface made integrity of components Indeterminate.			
1871	2-13-79	ASTM C-230 Type 1 Cement Acceptance Tests. Maximum alkaline in type I cement too high.	N/A	2-15-79	T. Leib
1872	2-12-79	C-231 Cut Rebar. One Bar of the bundle was cut without Project Engineering approval.			
1873	2-13-79	M-342 E-10 Pipe Spool 2ELB-10-632-1-5 had 100% heavy rust film internally.	Rework	2-22-79	L. Brown
1874	2-14-79	E-6 4160/480-Transformer-2X17 Wires has been damaged.			
1875	2-11-79	E-6 1R17&1B18 480 V. General Electrical Load Centers, wires have been damaged by rodents.	Rework		
1876	2-11-79	E-12 Battery Racks do not meet clearance requirements.			
1877	2-14-79	Steam Driven Auxiliary Feedwater Pump, FPG-5.000 F10housing for turbines pump is broken feedwater pump is broken.	Rework		
1878	2-11-79	E-42 Electrical Raceways, numerous nonconforming raceway installation in the process instrument rms. El. 646 comb 1&1			
1879	2-14-79	M-204 Spool 1HBC-100-619-6-4 has an arm strike.	Rework		

LOG OF NONCONFORMANCE REPORTS

PROJECT NAME 1

JOB NO. 1

PAGE <sup>8</sup> 117

2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1880	2-14-79	M-204 Spool 2HCB-16-604-6-3, has an arc strike on the north 90° elbow.	Rework		
1881	2-15-79	M-169 Electric Hydrogen Recombiners, no documentation was received on control panel stand #82A, 83A, 84A, 85A.			
1882	2-15-79	E-7 Starter Nema. Controller Type Magnetic Breakers. Item tags have missing or broken locks.	Rework		
1883	2-15-79	E-26 600volt control cable, cable ends on reels G-3340 & G-3319 were not protected.			
1884	2-15-79	M-204 Spool 1HCB-15-S603-8-3, has two 45° elbows (It#JCMF) in violation of specification.			
1885	2-15-79	psp G.3.2 Blockwell #15. additional work was performed on this wall without prior conditional release.	Rework	2-21-79	S. Kirker
1886	2-1-579	M-106 1 Hanger Assembly no sketch was received with documentation package.			
1887	2-15-79	J-255 Nuclear Service Control Valves no documentation was received on this material.	Rework (Doc.)	2-23-79	R. MacGlashan
1888	2-16-79	NCR#1744 Threaded Nelson Stud Welds, was welded and no Quality Control Inspections were performed.			
1889	2-16-79	C-1.10 Floor Mounted Instrument Racks, are 'Q' listed & were grouted as Non 'Q'.	Its not a nonconformance	2-19-79	S. Kirker
1890	2-16-79	C-304 Controlled drawings do not call out or show the connection used for tray run #1CVA	use as is	3-2-79	J. Millre
1891	2-16-79	C-304 Controlled drawings do not call out or show the connections used for type 1, sec.A beam and brace.			
1892	2-16-79	G-3 Material received on MRR AEO-7429 as non--Q, has been changed to "Q": material cannot be located.			
1893	2-16-79	F-29894 Cormor&lada Fig. 121&124 & 16" Riser Clamp, clamp and stud dimensions incorrect.			
1894	2-16-79	F-33799 9PCs. of 2" Sch. 80C.S. Pipe SA-106 Gr. B, Pipe not traceable due to illegible marking of heat numbers.	reject	3-1-79	M. Moore
1895	2-19-79	E-45 9 each 125 Volt DC Distribution Panels, documentation was not received for distribution panels.0			
1896	2-19-79	F-20676 M-183 Single Seal Link Pack Unit, were not purchased as 'Q' an nospecifications existed at time of purchase.			
1897	2-19-79	E-42 Conduit			

LOG OF NONCONFORMANCE REPORTS

PROJECT NAME \_\_\_\_\_

JOB NO. \_\_\_\_\_

PAGE 8 118

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







NONCONFORMANCE REPORT

514 1ABB

2-2-79

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1848	20. PAGE 1 OF 1	
2. UNIT(S) 1	3. DRAWING/REV/NO. Tag No. 36"-ALB-BL-LXV-3111B-R	REV N/A	4. ITEM DESCRIPTION Main Steam Isolation Valve	5. ITEM LOCATION Poseyville P21W		
6. P.O. OR SPEC NO. 7220-M-118-A Rev. 2	7. SERIAL NO. 6178	8. REPLACEMENT PART P/N N/A REV _____ SER NO. _____		9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Energy Products Group	
11. INSPECTION CRITERIA ( ) DWG (x) SPEC ( ) OTHER		IR NO. R-1.00-4407 NO. M-118A Rev. 4	12. ASME AUTHORIZED INSPECTION REQ'D (x) YES ( ) NO	13. SKETCH ATTACHED ( ) YES (x) NO	14. Discovered During (x) Rec'g ( ) Const ( ) Test	
15. Equip Furnished By ( ) Client ( ) Eng ( ) FLD		16. NONCONFORMING CONDITION: Item 1. Specification 7220-M-118A Rev. 4 requires Quality Verification Documentation in accordance with Form G-321-D. Page 1 of 3 of Form G-321-D should be Rev. 4, however, Rev. 3 has been supplied in Q.V.D. package. Item 2. Quantity requirements of Form G-321-D for documentation in Doc. Cat. 12.0 (Welding Verification Reports) and 14.0 (Repair Verification Reports) don't correspond with the documentation present in the Q.V.D. package. "Q" number is 4.313. Hold pending final disposition. 1 hold tag(s) applied to the nonconforming item(s).			24. DISPOSITION CONCURRENCE rework <input checked="" type="checkbox"/> reject <input type="checkbox"/> repair <input type="checkbox"/> use as is <input type="checkbox"/> C. Thacker PROJECT FIELD ENGINEER DATE 2-2-79 PROJECT ENGINEER DATE PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE	
17. REPORTED BY Dean A. Delaney 2/2/79		18. VALIDATED BY D. Shatt 2-2-79		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 correct documentation. D. Shatt 2/5/79						
23. PROJECT ENGINEERING DISPOSITION						
26. QC ACCEPTANCE QC ENGINEER _____ DATE _____ AUTHORIZED INSPECTOR _____ DATE _____						



A conditional release is requested in order that the valve can be installed. This valve remains retrievable after installation.

A. New MS 2-2-79  
PFE DATE

<sup>(S)</sup> J. Barclay 2-2-79  
PFQCE DATE

E. Smith 2/2/79  
for L.A. Driscoll DATE

H.W. Kellon J. 2-2-79  
AI DATE



NONCONFORMANCE REPORT

5/11 Non-Testable Unit

2  
2/14

1. PROJECT NAME Midland		JOB NO. 07220		19. NO. 1849	20. PAGE 1 OF 2		
2. UNIT(S) Common	3. DRAWING/PART NO. See page 2	REV	4. ITEM DESCRIPTION Weld Rod Withdrawal & Control	5. ITEM LOCATION Aux. bldg. & Cont. #2			
6. P.O. OR SPEC NO. G-27 Rev. 9	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE Const.	10. CONTRACTOR/SUPPLIER N/A		
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER		IR NO. see pg. 2 NO. see pg. 2	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Rec'g (X) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FLD	
16. NONCONFORMING CONDITION: Specification 7220-C-304(Q) references welding standard Aws D1.1, Para 4.9.2, which states, "E7018 electrodes that are not used within 4 hours after removal from drying or storage ovens shall be redried before use." On 12/19/78, E7018 electrodes were issued in unheated containers to ironworker B. McEwen, I-112 for work on QCIR C-304-1045W, drawings C-229 and C-841, and ironworker G. Hall, I-132 for work on QCIR C-304-631W, drawings C-654 and C-657, contrary to specifications, (cont'd) pg. 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 James C. Miller 2/1/79				18. VALIDATED BY Barclay 2-2-79			
21. ROUTING: (X) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)				25. DISPOSITION RESULTS			
22. ( ) Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering							
"UseAs Is" based on the following: The latest issue of the AWS Code recommends that low hydrogen electrodes can be exposed to the atmosphere up to a maximum of 10 hours provided certain tests are made. Preliminary tests have been performed showing the acceptability of this option. A visual inspection of all welds performed in this out-of-specification condition showed the welds to be of acceptable quality. K. B. [Signature] 2/15/79							
23. PROJECT ENGINEERING DISPOSITION							
				26. QC ACCEPTANCE			
				QC ENGINEER		DATE	
				AUTHORIZED INSPECTOR		DATE	

BECHTEL

NONCONFORMANCE REPORT (CONT'D)

1. PAGE 2 OF 2

14. MCR 49

Block 16 cont'd. -

The E7018 electrodes were not returned to the rod room within the 4 hour period.

No Hold Tags, Q No. 1.101 & 1.201

Block 3 cont'd. -

C-229 Rev. 7

C-841 Rev. 1

C-654 Rev. 7

C-657 Rev. 7

Block 11 cont'd. -

IR no.: C-304-631W

C-304-1045W

Spec. no.: G-27(Q) Rev. 9

WRMC-1 Rev. 6

10011-1

QC-G-3

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



0



# NONCONFORMANCE REPORT

for concurrence 2/10  
5/4 2-5JA  
RE 2/15

1. PROJECT NAME <b>MIDLAND</b>		JOB NO. <b>7220</b>			19. NO. <b>1851</b>	20. PAGE <b>1</b> OF <b>2</b>
2. UNIT(S) <b>2</b>	3. DRAWING/PART NO. <b>FSK-M-24BC-191-1</b>	REV <b>0</b>	4. ITEM DESCRIPTION <b>SOCKET WELDS NO'S 1 AND 9</b>		5. ITEM LOCATION <b>ELEV 509 AVI. Bldg</b>	
6. P.O. OR SPEC NO. <b>M-204</b>	7. SERIAL NO. <b>N/A</b>	8. REPLACEMENT PART P/N <b>N/A</b> REV <b>N/A</b> SER NO. <b>N/A</b>		9. SOURCE <b>CONST</b>	10. CONTRACTOR/SUPPLIER <b>N/A</b>	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER		IR NO. <b>N/A</b> 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: <b>PQCI W-1.00 REQ'D REQUIRES WELDS TO BE IDENTIFIED BY INDIVIDUAL WELD NUMBER ON THE QCIR INSPECTION RECORD (IR) W-1.00B AND SUBMITTED TO THE PE FOR REVIEW FOR HOLD POINTS. CONTRARY TO THE ABOVE SOCKET WELDS 1 AND 9 ON FSK-M-24BC-191-1 WERE MADE WITHOUT A QCIR W-1.00B BEING INITIATED. HOLD FOR ENGINEERING DISPOSITION: Q#4572 2 HOLD TAGS APPLIED.</b>					24. DISPOSITION CONCURRENCE	
					rework	reject
					repair	use as is
					PROJECT FIELD ENGINEER	DATE
					PROJECT ENGINEER	DATE
					PROJ CONSTR QC ENGINEER	DATE
					AUTHORIZED INSPECT	DATE
17. REPORTED BY <b>Walt E. Fisk 2/13/79</b>					25. DISPOSITION RESULTS	
DATE						
VALIDATED BY <b>W.S. Barclay</b>						
DATE <b>2/3/79</b>						
21. ROUTING: (X) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)						
22. ( ) Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering						
"Use As Is" based on the following: F.E.'s copy 4 of QCIR W-1.00B log no. 20018 was at the joints in question showing that paper work had been issued with all proper engineering criteria included. Also WR-6-rod-withdrawal forms were issued to the joints showing that the welder who made the joints was qualified to the proper procedure and the weld rod used was the correct type. <b>W. Williams 2/15/79</b>						
23. PROJECT ENGINEERING DISPOSITION						
28. QC ACCEPTANCE						
					QC ENGINEER	DATE
					AUTHORIZED INSPECTOR	DATE



NONCONFORMANCE REPORT

S/A N/A

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1852	20. PAGE 1 OF 2	
2. UNIT(S) 1 & 2	3. DRAWING/PART NO. See Block 16	REV N/A	4. ITEM DESCRIPTION Nuclear Service Valves	5. ITEM LOCATION Warehouse # 1		
6. P.O. OR SPEC. NO. 7220-M-129-BC Rev. 5	7. SERIAL NO. See Blk. 16	8. REPLACEMENT PART P/N N/A REV _____ SER NO. _____	9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Nuclear Valve Div., Borg Warner		
11. INSPECTION CRITERIA ( ) DWG (x) SPEC ( ) OTHER		IR NO. R-1.00-4492 NO. M-129B Rev. 4	12. ASME AUTHORIZED INSPECTION REQ'D (x) YES ( ) NO	13. SKETCH ATTACHED ( ) YES (x) NO	14. Discovered During (x) Rec'g ( ) Const ( ) Test	15. Equip Furnished By ( ) Client (x) Eng ( ) FLD
16. NONCONFORMING CONDITION: Specification 7220-M-129-B Rev. 4 requires Quality Verifi- cation Documentation in accordance with Form G-321-D. POCI-R-1.00 Rev. 7 calls for documentation required by Form G-321-D to be available, legible and traceable. Contrary to the above, the documentation package for valves with Item Number 49.8 contains a Hardfacing CMTR, Ht. # 8480/81906, which has been cut off at the bottom of the page and for Item Number 49.9 contains a hardfacing CMTR, Ht. # 7-0051, which is illegible. Cont. on page 2				24. DISPOSITION CONCURRENCE rework reject repair use as is DOC APBou 2-6-79 PROJECT FIELD ENGINEER DATE PROJECT ENGINEER DATE D. Barclay 2/9/79 PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE		
17. REPORTED BY Dean A. Delaney 2/1/79	DATE	18. VALIDATED BY D. Barclay 2/2/79	DATE	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 correct documentation. D. Short 2/6/79						
23. PROJECT ENGINEERING DISPOSITION						
26. QC ACCEPTANCE QC ENGINEER DATE AUTHORIZED INSPECTOR DATE						

Block 16 Continued

5 ea. Item # 49.8

Tag # 2"-ECB-GT

S/I. 32454 thru 32458

3 ea. Item # 49.9

Tag # 2"-ECB-GT-D

S/N 32483, 32496, 32497

"Q" numbers are indeterminate. Hold pending final disposition. 8 hold tag(s) applied to the nonconforming item(s).

Ann Arbor 2-13-79

### NONCONFORMANCE REPORT

ALP Sld Systems  
Using E-60 Cable

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1855	20. PAGE 1 OF 2		
2. UNIT(S) 1&2	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION Instrument and Special Purpose <del>600 Volt Control Cable</del> Cable	5. ITEM LOCATION N/A			
6. P.O. OR SPEC NO. E-60-AC	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Rockbestos Products			
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (x) OTHER		IR NO. N/A NO. BREC 2606	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (x) NO	13. SKETCH ATTACHED ( ) YES (x) NO	14. Discovered During ( ) Rec'g (x) Const ( ) Test	15. Equip Furnished By ( ) Client (x) Eng ( ) FLD	
16. NONCONFORMING CONDITION: "Q" Material on this P.O. has been identified by Project/ Quality Engineering to be indeterminate in regards to satisfactorily completion qualification test requirement per Spec. E-60. "Q" number is indeterminate. 27 hold tag(s) applied to the nonconforming item(s).				24. DISPOSITION CONCURRENCE			
				rework	reject	repair	use as is
				PROJECT FIELD ENGINEER	DATE		
				PROJECT ENGINEER	DATE		
				PROJ CONSTR CC ENGINEER	DATE		
				AUTHORIZED INSPECTOR	DATE		
17. REPORTED BY <i>[Signature]</i>		DATE 2/5/79	18. VALIDATED BY <i>[Signature]</i>		DATE 2-5-79		
21. ROUTING: (x) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)							
22. ( ) Field Engineering Disposition (x) Field Engineering Recommended Disposition ( ) Project Engineering							
Project Engineering to evaluate. <i>[Signature]</i> 2/8/79							
23. PROJECT ENGINEERING DISPOSITION							
25. DISPOSITION RESULTS							
26. QC ACCEPTANCE							
				QC ENGINEER	DATE		
				AUTHORIZED INSPECTOR	DATE		



Block 16 Continued

A Conditional Release is granted to install the "Q" Material on this NCR. Corrections or removal can be accomplished without causing damage or contamination to the associated plant equipment or structure.

*[Signature]* 2-5-79  
PFE Date

*[Signature]* 2/5/79  
PFQCE Date

*[Signature]* 2-5-79  
IQAE Date



# NONCONFORMANCE REPORT

S/M Non-Establish Unit

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1857	20. PAGE 1 OF 2		
2. UNIT(S) 1 & 2	3. DRAWING/PART NO. E660, Rev. 4 E661, Rev. 3	REV	4. ITEM DESCRIPTION Electrical Penetration Terminations	5. ITEM LOCATION Penetration areas 617 & 631			
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. See Block 16	8. REPLACEMENT PART P/N N/A REV SER NO.	9. SOURCE Construction N/A	10. CONTRACTOR/SUPPLIER			
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER		IR NO See Block 16 NOPSP 04.1 Rev 2	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Rec'g (X) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FLD	
16. NONCONFORMING CONDITION: Crimp tools BPC-2522 and HPC-2524 were returned to the Calibration Lab with faulty ratchet mechanisms. These crimp tools were used to do outboard terminations on the following electrical penetration assemblies. The terminations are now indeterminate.				24. DISPOSITION CONCURRENCE			
Continued page 2				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>[Signature]</i>		DATE 2/5/79	18. VALIDATED BY <i>[Signature]</i>		DATE 2/6/79		
21. ROUTING: ( ) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)							
22. ( ) Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering							
23. PROJECT ENGINEERING DISPOSITION							
25. DISPOSITION RESULTS							
26. QC ACCEPTANCE							
				QC ENGINEER	DATE		
				AUTHORIZED INSPECTOR	DATE		

NONCONFORMANCE REPORT (CONT'D)

IDENTIFICATION	IR	CRIMP TOOL
12135	E6.6-54	BFC-2522
12135	E6.6-54	BFC-2522 & BFC-2524
12133	E6.6-66	BFC-2522
12138	E6.6-67	BFC-2522
22115	E6.6-78	BFC-2522
22116	E6.6-79	BFC-2522

"Q" List 3.002

12 "HOLD" tags applied





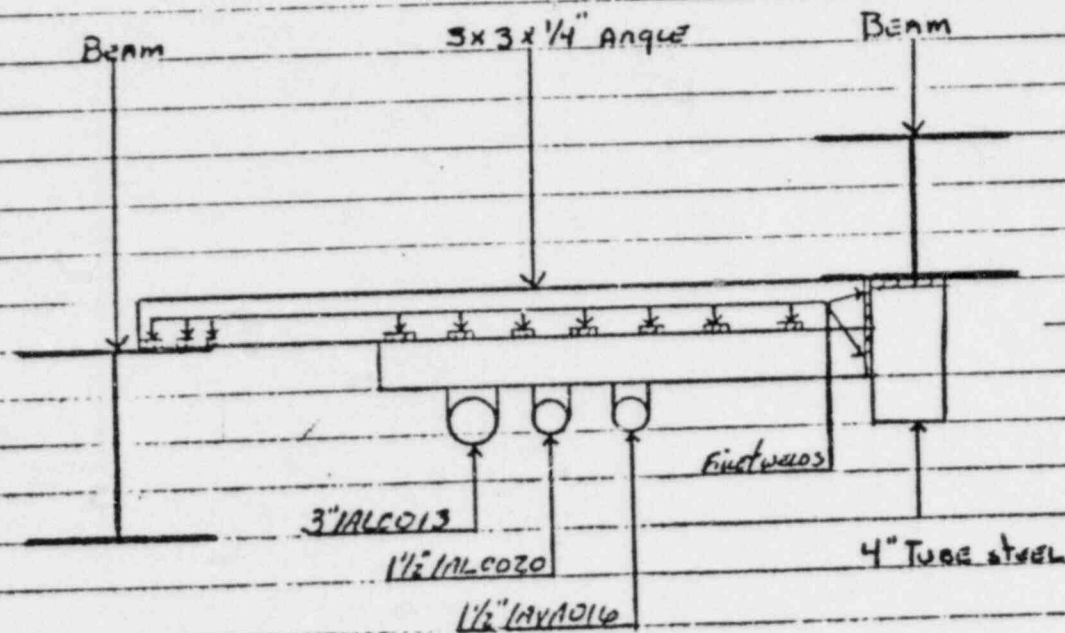
# NONCONFORMANCE REPORT

S/A  
1-EAC  
1-H&A  
1-BSA

1. PROJECT NAME <b>Midland</b>		JOB NO. <b>7220</b>		19. NO. <b>4864</b>	20. PAGE <b>4 OF 4</b>		
2. UNIT(S) <b>1</b>	3. DRAWING/PART NO. <b>E-620</b>	REV <b>7</b>	4. ITEM DESCRIPTION <b>Installed Cable</b>	5. ITEM LOCATION <b>Aux Bldg. El. 63 1/4</b>			
5. P.O. OR SPEC NO. <b>N/A</b>	7. SERIAL NO. <b>N/A</b>	8. REPLACEMENT PART P/N <b>N/A</b> REV <b>N/A</b> SER NO. <b>N/A</b>		9. SOURCE <b>Construction</b>	10. CONTRACTOR/SUPPLIER <b>N/A</b>		
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (x) OTHER		IR NO. <b>N/A</b> NO. _____	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (x) NO	13. SKETCH ATTACHED ( ) YES (x) NO	14. Discovered During ( ) Rec'g (x) Const ( ) Test	15. Equip Furnished By ( ) Client ( ) Eng (x) FLD	
16. NONCONFORMING CONDITION: <b>Cables 1AB2327A, 1AB2342 A, 1AB2330A, 1AB5533A, 1AB5505A, 1AB5508A have been burned in Tray 1A112 located in the Aux Bldg at approximately 7' west of 5.6 line. This burn was caused by a piece of metal falling from a torch out. The outer jacket of the cables has been severely charred, although no individual conductor insulation was showing through the burned area.</b>				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 <b>Ch. L. J. Sp. L.</b>		DATE <b>2-7-79</b>	18. VALIDATED BY <b>W. B. ...</b>		DATE <b>2/7/79</b>		
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 _____		



16. Hold for engineering disposition, 1 hold tag applied.



LOCATED BETWEEN COL. #1 & #2,  
LOOKING EAST.

# NONCONFORMANCE REPORT

*S/M Non-Testable Unit*

1. PROJECT NAME		JOB NO.		19. NO. <u>1165</u>	20. PAGE <u>  </u> OF <u>  </u>				
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 P/N <u>  </u> REV <u>  </u> SER NO. <u>  </u>		9. SOURCE	10. CONTRACTOR/SUPPLIER				
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC ( ) OTHER		IR NO. <u>  </u> NO. <u>  </u>	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:				24. DISPOSITION CONCURRENCE					
<p><i>acc. C-23118) ...</i></p> <p><i>... found ...</i></p> <p><i>... this ...</i></p> <p><i>... see ...</i></p>				<table border="1" style="width: 100%; text-align: center;"> <tr> <td>rework</td> <td>reject</td> <td>repair</td> <td>use as is</td> </tr> </table>		rework	reject	repair	use as is
				rework	reject	repair	use as is		
				PROJECT FIELD ENGINEER _____ DATE _____					
				PROJECT ENGINEER _____ DATE _____					
				PROJ CONSTR QC ENGINEER _____ DATE _____					
AUTHORIZED INSPECTOR _____ DATE _____									
25. DISPOSITION RESULTS									
26. QC ACCEPTANCE									
QC ENGINEER _____ DATE _____									
AUTHORIZED INSPECTOR _____ DATE _____									

17. REPORTED BY \_\_\_\_\_ DATE 2/1/99

18. VALIDATED BY J. J. ... DATE 2/1/99

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

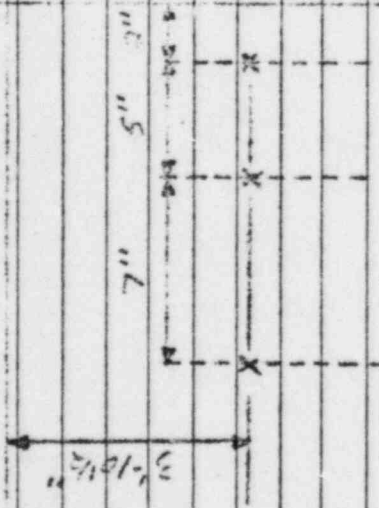
22. ( ) Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering

23. PROJECT ENGINEERING DISPOSITION



576

5



NOTE:  
 The above cut was done  
 using 2-5/8" diameter  
 tool bit, 1000 RPM, 10' feed  
 using 1000 RPM, 10' feed  
 and #9 B12.

Page 2 of 2

Approved by: [Signature]

NONCONFORMANCE REPORT *SK 1-EAC*

1. PROJECT NAME <b>Midland</b>		JOB NO. <b>7220</b>		19. <b>1868</b> NO.	20. <b>1</b> OF <b>1</b> PAGE		
2. UNIT(S) <b>Cont. #1</b>	3. DRAWING/PART NO. <b>M-619, Sh. 14, M-619-Sh.15</b>	REV <b>-</b>	4. ITEM DESCRIPTION <b>Amperage and voltage checks on installation of piping</b>		5. ITEM LOCATION <b>Containment #1</b>		
6. P.O. OR SPEC NO. <b>M-204</b>	7. SERIAL NO. <b>NA</b>	8. REPLACEMENT PART P/N <b>NA</b> REV <b>NA</b> SER NO. <b>NA</b>		9. SOURCE <b>Const.</b>	10. CONTRACTOR/SUPPLIER <b>NA</b>		
11. INSPECTION CRITERIA <input type="checkbox"/> DWG <input type="checkbox"/> SPEC <input type="checkbox"/> OTHER		IR NO. <b>619-14-13</b> NO. <b>619-15-20</b>	12. ASME AUTHORIZED INSPECTION REQ'D <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	13. SKETCH ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	14. Discovered During <input type="checkbox"/> Rec'g <input checked="" type="checkbox"/> Const <input type="checkbox"/> Test	15. Equip Furnished By <input type="checkbox"/> Client <input checked="" type="checkbox"/> Eng <input type="checkbox"/> IFLD	
16. NONCONFORMING CONDITION: <b>Welding procedure Specification P1-AT-Lh Rev. 3 lists a voltage range of 12-16 for the GTAW portion using 3/32" electrode. Contrary to the above on two (2) voltage checks taken on February 2, 1979 against welders P-235 and P-384, the voltage measured in both cases was 10, which is outside the WPS specified value.</b>				24. DISPOSITION CONCURRENCE			
				rework	reject	repair	use as is
				<i>[Signature]</i> <b>2-15-79</b> PROJECT FIELD ENGINEER DATE			
				<i>[Signature]</i> <b>2-15-79</b> PROJECT ENGINEER DATE			
				PROJ CONSTR QC ENGINEER DATE			
				AUTHORIZED INSPECTOR DATE			
17. REPORTED BY <b>K. Bush</b> DATE <b>2/8/79</b>				18. VALIDATED BY <i>[Signature]</i> DATE <b>2-9-79</b>			
21. ROUTING: <input type="checkbox"/> TO FIELD ENGINEERING <input type="checkbox"/> TO OTHERS (SPECIFY)				25. DISPOSITION RESULTS			
22. <input type="checkbox"/> Field Engineering Disposition <input checked="" type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering							
"Use As IS" based <del>on</del> <sup>on</sup> the following: Preliminary issuance of Rev.4 to P1-AT-LH has expanded voltage ranges, 8-16 rather than 12-16 for the GTAW portion of the weld which gives realistic figures based on job-site application which will make the condition noted in this NCR acceptable.							
23. PROJECT ENGINEERING DISPOSITION				<i>[Signature]</i> <b>2/13/79</b>			
Project engineering concurs with the field recommendation to "use as is" because PCR-M-1537 (which permits the use of P1-T Rev. 1 as an alternative procedure for P1-AT-Lh, Rev. 1) has been approved. Furthermore, the P1-1, Rev. 1 procedure has been incorporated in Specification 7220-G-27 via SCN#9002. (Per telecon with Sam Kannan of project engineering.)							
				<i>[Signature]</i> <b>2/15/79</b>			
				<i>[Signature]</i> <b>2/15/79</b>			
				26. OC ACCEPTANCE			
				OC ENGINEER DATE			
				AUTHORIZED INSPECTOR DATE			

# NONCONFORMANCE REPORT

2/20

1. PROJECT NAME <b>Midland</b>		JOB NO. <b>07220</b>		19. 1869 NO. _____	20. PAGE <u>1</u> OF <u>1</u>								
2. UNIT(S) <b>2</b>	3. DRAWING/PART NO. <b>M 539 sh. 13</b>	REV <b>4/f1</b>	4. ITEM DESCRIPTION <b>Valves 2XV-3966A(439-3-45) &amp; 2XV-3966B(439-3-61)</b>	5. ITEM LOCATION <b>Valve Isolation Pit #2</b>									
6. P.O. OR SPEC NO. <b>N/A</b>	7. SERIAL NO. <b>See block 16</b>	8. REPLACEMENT PART P/N <u>N/A</u> REV <u>N/A</u> SER NO. <u>N/A</u>		9. SOURCE <b>Const.</b>	10. CONTRACTOR/SUPPLIER <b>N/A</b>								
11. INSPECTION CRITERIA ( ) DWG (x) SPEC ( ) OTHER		IR NO <u>P1-30-659-13-183</u> NO <u>M 204 Rev. 9</u>	12. ASME AUTHORIZED INSPECTION REQ'D <input checked="" type="checkbox"/> 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: <b>Specification M-204 Rev. 9 paragraph 5.2.1 states in part; Bechtel isometrics (installation isometrics) are the governing drawings for final spool configuration and installation. Contrary to drawing M 639 sh. 13 Rev. 4/f1 the installed location of valves 2XV-3966A(439-3-45) serial number 670716 and 2XV-3966B(439-3-61) serial number PSM-13 are reversed.</b>			24. DISPOSITION CONCURRENCE								
			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">rework</td> <td style="width: 25%;">reject</td> <td style="width: 25%;">repair</td> <td style="width: 25%;">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										
2 hold tags applied.		Q #4.394	System #2-AEA-1-S										
17. REPORTED BY <i>Keith J. Roberge</i>	DATE <b>2-10-79</b>	18. VALIDATED BY <i>D. Barclay</i>	DATE <b>2/13/79</b>	25. DISPOSITION RESULTS									
21. ROUTING: (x) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)													
22. ( ) Field Engineering Disposition (x) Field Engineering Recommended Disposition to Project Engineering		Field recommends valves remain as installed. Field should switch tag numbers and documentation packages should be revised accordingly. (Ref. Project Engineering comments to FCR M-1573).											
		<i>D. Shurt</i> 2/20/79											
23. PROJECT ENGINEERING DISPOSITION													
		26. QC ACCEPTANCE											
		QC ENGINEER		DATE									
		AUTHORIZED INSPECTOR		DATE									

0-ECC-1-5

NONCONFORMANCE REPORT

1. PROJECT NAME <i>MIDLAND</i>		JOB NO. <i>7220</i>			19. NO. <i>1870</i>	20. PAGE <i>1</i> OF <i>1</i>
2. UNIT(S) <i>1 E2</i>	3. DRAWING/PART NO. <i>M-614-SHT # 8</i>	REV <i>1/FI</i>	4. ITEM DESCRIPTION <i>SEE BLOCK #16 LARGE PIPE SPOOLS</i>		5. ITEM LOCATION <i>AUX. BLDG. ELEV. #599'</i>	
6. P.O. OR SPEC NO. <i>N/A</i>	7. SERIAL NO. <i>SEE BAK #16</i>	8. REPLACEMENT PART P/N <i>N/A</i> REV <i>N/A</i> SER NO. <i>N/A</i>		9. SOURCE <i>CONST.</i>	10. CONTRACTOR/SUPPLIER <i>N/A</i>	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER		IR NO. <i>P-10-614-687</i> NO. <i>M-342</i>	12. ASME AUTHORIZED INSPECTION REQ'D (X) YES ( ) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Rec'g (X) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FLD
16. NONCONFORMING CONDITION: <i>SPEC. M-342 PARAGRAPH 6.4.2 STATES IN PART:</i> <i>"SURFACES CLEANED TO CLASS "D" REQUIREMENTS SHALL BE INSPECTED VISUALLY TO ENSURE FREEDOM FROM GROSS FOREIGN MATERIALS."</i> <i>CONTRARY TO THE ABOVE, SPOOLS "OHCC-12-614-8-3," "OHCC-12-614-8-4," "OHCC-13-614-8-2," "OHCC-13-614-8-3," &amp; "OHCC-12-614-8-2," RED PAINT HAS BEEN SPRAYED ON EXTERNAL SURFACES, LEAVING THE INTEGRITY OF THE COMPONENTS INDETERMINATE. (6" #4.144) (6) Q.C. HOLE TAGS APPLIED TO EACH SPOOL,</i>				24. DISPOSITION CONCURRENCE		
				rework	reject	repair
				use as is		
				<i>J.P. ... 2/22/79</i> PROJECT FIELD ENGINEER DATE		
				<i>... 2-23-79</i> PROJECT ENGINEER DATE		
				<i>... 2/29/79</i> PROJ. CONSTR. QC ENGINEER DATE		
				<i>... 2/29/79</i> AUTHORIZED INSPECTOR DATE		
17. REPORTED BY <i>JOSEPH CABRAL</i>	DATE <i>2-10-79</i>	18. VALIDATED BY <i>W. Barclay</i>	DATE <i>2/12/79</i>	25. DISPOSITION RESULTS		
21. ROUTING: (X) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)						
22. (X) Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering						
Red paint to be removed with acetone followed by grade 3 water rinse. Cleaning method and acceptance criteria to be in accordance with M-342 Class D. <i>D. Short 2/22/79</i>						
23. PROJECT ENGINEERING DISPOSITION						
26. QC ACCEPTANCE						
					QC ENGINEER	DATE
					AUTHORIZED INSPECTOR	DATE

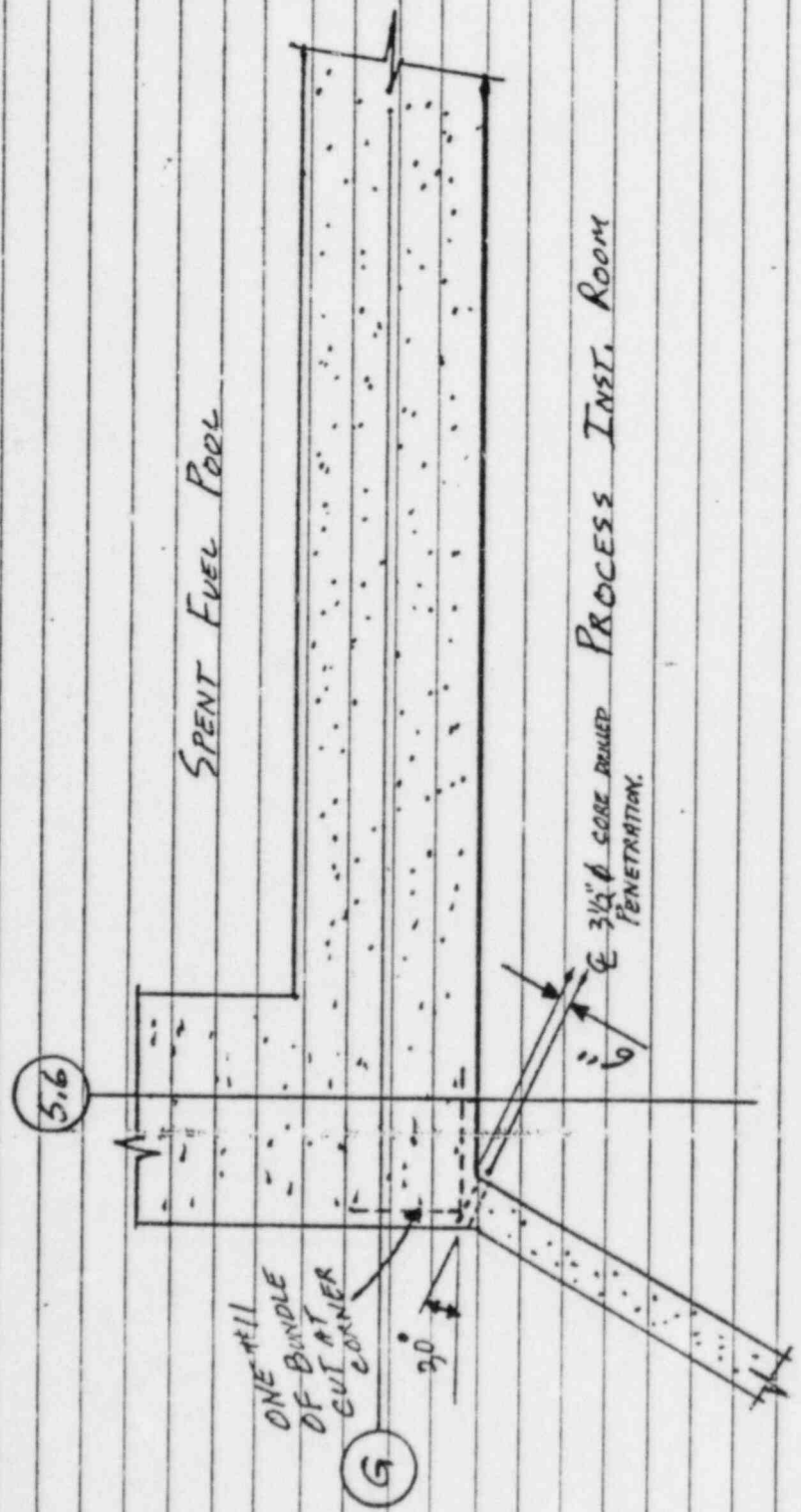
# NONCONFORMANCE REPORT

S/K Non Testable Unit

415

1. PROJECT NAME <b>MIDLAND</b>		JOB NO. <b>7220</b>		19. NO. <b>1872</b>	20. PAGE <b>1</b> OF <b>2</b>								
2. UNIT(S) <b>COMMON</b>	3. DRAWING/PART NO. <b>N/A</b>	REV <b>N/A</b>	4. ITEM DESCRIPTION <b>CUT REBAR</b>	5. ITEM LOCATION <b>Aux Bldg.</b>									
6. <del>EO OR</del> SPEC NO. <b>C-231(R) Rev 16</b>	7. SERIAL NO. <b>N/A</b>	8. REPLACEMENT PART P/N <b>N/A</b> REV <b>N/A</b>	SER NO. <b>N/A</b>	9. SOURCE <b>CONSTRUCTION</b>	10. CONTRACTOR/SUPPLIER <b>N/A</b>								
11. INSPECTION CRITERIA <input type="checkbox"/> DWG <input checked="" type="checkbox"/> SPEC <input type="checkbox"/> OTHER		IR NO. NO. <b>C-231(R)</b>	12. ASME AUTHORIZED INSPECTION REQ'D <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	13. SKETCH ATTACHED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	14. Discovered During <input type="checkbox"/> Rec'g <input checked="" type="checkbox"/> Const <input type="checkbox"/> Test								
16. NONCONFORMING CONDITION: <b>SPEC. C-231(R), PART 9.2.1, b.2, PROHIBITS CORE DRILLING PENETRATIONS THROUGH THE SPENT FUEL POOL WALL WITHOUT PRIOR APPROVAL FROM PROJECT ENGINEERING. PART 9.2.2, c. STATES THAT ALL PENETRATIONS SHALL BE WITHIN 10° OF THE PERPENDICULAR. APPENDIX E, PART 1.2.4, PROHIBITS THE CUTTING OF BUNDLED BARS WITHOUT PRIOR APPROVAL FROM PROJECT ENGINEERING. CONTRARY TO THESE REQUIREMENTS, A 3 1/2" Ø PENT. WAS CORE DRILLED THROUGH THE (CONT'D ON P. 2)</b>			15. Equip Furnished By <input type="checkbox"/> Client <input type="checkbox"/> Eng <input checked="" type="checkbox"/> FLD										
24. DISPOSITION CONCURRENCE													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">rework</td> <td style="width: 25%;">reject</td> <td style="width: 25%;">repair</td> <td style="width: 25%;">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 <b>Steve Payne</b>		DATE <b>2-10-79</b>		18. VALIDATED BY <b>D. P. Hummilly</b>									
DATE		DATE		DATE									
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING <input type="checkbox"/> TO OTHERS (SPECIFY)													
22. <input type="checkbox"/> Field Engineering Disposition <input checked="" type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering <b>Project Engineering XX to evaluate</b>													
<b>D. P. Hummilly 2/15/79</b>													
23. PROJECT ENGINEERING DISPOSITION													
26. QC ACCEPTANCE													
QC ENGINEER				DATE									
AUTHORIZED INSPECTOR				TE									

(BLOCK 16 CONT'D) SOUTH WEST CORNER OF THE SPENT FUEL POOL, CUTTING A #11 CORNER BAR, ONE BAR OF THE BUNDLE WAS CUT, HOLD FOR ENGINEERING DISPOSITION. ONE HOLD TAG APPLIED, Q LIST # 1,203.



PLAN @ EL. 646'-0"  
SKETCH NOT TO SCALE

QC-G13

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

10098-2

# NONCONFORMANCE REPORT

S/A 2-1, BA

1. PROJECT NAME <u>Middletown</u>		JOB NO. <u>7220</u>		19. NO. <u>1074</u>	20. PAGE <u>1</u> OF <u>4</u>								
2. UNIT(S) <u>2</u>	3. DRAWING/PART NO. <u>E-532</u>	REV <u>16</u>	4. ITEM DESCRIPTION <u>4160/480 - Transformer - 2X17</u>	5. ITEM LOCATION <u>Aux Bldg. Fl. 614'</u>									
6. P.O. OR SPEC. NO. <u>E-6</u>	7. SERIAL NO. <u>N/A</u>	8. REPLACEMENT PART P/N/H/A — REV/H/A — SER NO. H/A —		9. SOURCE <u>Vendor</u>	10. CONTRACTOR/SUPPLIER <u>G. E.</u>								
11. INSPECTION CRITERIA K) DWG K) SPEC ( ) OTHER		IR NO. <u>E-6.0-17</u> NO. <u>E-6</u>	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Rec'g (X) Const ( ) Test								
15. Equip Furnished By ( ) Client (X) Eng ( ) FLD													
16. NONCONFORMING CONDITION: <u>The transformer 2X17, between 6.6-7.2 line and Col. J. Co, has damaged wires on the primary side in between the in-coming feed terminals and the transformer primary terminals. The stranded conductors and the insulation has deep cuts and nicks on all three phase wires.</u> <u>"Q" list - 3.102</u> <u>1 "HOLD" tag applied</u> <u>Hold for Engineering disposition</u>					24. DISPOSITION CONCURRENCE								
					<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">rework</td> <td style="width: 25%;">reject</td> <td style="width: 25%;">repair</td> <td style="width: 25%;">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>Louis D. Tolson</u> DATE <u>2/7/79</u>					25. DISPOSITION RESULTS								
18. VALIDATED BY <u>[Signature]</u> DATE <u>2-14-79</u>													
21. ROUTING: <u>X</u> 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

5u 1 & 2 PGA

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1875	20. PAGE 1 OF 1	
2. UNIT(S) 1 & 2	3. DRAWING/PART NO. E-532	REV 13	4. ITEM DESCRIPTION 1B17 & 1B18 480 V. General Electric Load Centers	5. ITEM LOCATION Aux Bldg. Fl. 614'		
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. 1B17 -1B18	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 E6.0-29 ES.0-30 NOE-6, Rev. 5	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (x) NO	13. SKETCH ATTACHED ( ) YES (x) NO	14. Discovered During ( ) Rec'g (x) Const ( ) Test	15. Equip Furnished By ( ) Client (x) Eng ( ) FLD
16. NONCONFORMING CONDITION: Internal control wires in Load Centers 1B17 & 1B18 have been damaged by rodents. The Beldon 3/c-18 wires in the top wireway have the insulation chewed off to the extent that the wire conductor is bare. "Q" list 3.103 2 "HOLD" tags applied Hold for Engineering Disposition				24. DISPOSITION CONCURRENCE rework <input checked="" type="checkbox"/> reject <input type="checkbox"/> repair <input type="checkbox"/> use as is <input type="checkbox"/> <i>W. J. Barely</i> 2-20-79 PROJECT FIELD ENGINEER DATE <i>W. J. Barely</i> 2/22/79 PROJECT ENGINEER DATE PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE		
17. REPORTED BY <i>A. M. Labovick</i>		DATE 2/14/79	18. VALIDATED BY <i>W. J. Barely</i>		DATE 2-14-79	
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)						
22. <input checked="" type="checkbox"/> Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering <del>REPLACE</del> Wires damaged by rodents in load centers 1B17 & 1B18 will be replaced, when new wires become available. <i>B. Mattheim</i> 2-16-79						
23. PROJECT ENGINEERING DISPOSITION						
26. QC ACCEPTANCE QC ENGINEER DATE AUTHORIZED INSPECTOR DATE						



NONCONFORMANCE REPORT

S/11

1-PKA  
2-PKA  
2-AKB

4A 201-11

2/b  
2/15/79

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1876	20. PAGE 1 OF 2		
2. UNIT(S) 1 & 2	3. DRAWING/PART NO. E-532	REV 13	4. ITEM DESCRIPTION Battery Racks	5. ITEM LOCATION El. 614 Aux Bldg			
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE Engineering	10. CONTRACTOR/SUPPLIER N/A		
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER		IR NO. NO. E-12-52-1	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Rec'g (X) Const ( ) Test	15. Equip. Furnished By ( ) Client (X) Eng ( ) FLD	
16. NONCONFORMING CONDITION: As stated in E-12-52-1 under "Racks", paragraph B, "The minimum clearance between these floor mounted racks and any object (including walls, equipment and any other racks) is to be 4 inches." The battery racks 1D02 (north & south), 2D02 (north & south) 2D01 (south) do not meet these requirements. "Q" list 3.201 5 "HOLD" tags applied Hold for Engineering disposition				24. DISPOSITION CONCURRENCE			
				rework	reject	repair	use as is
				PROJECT FIELD ENGINEER		DATE	
				PROJECT ENGINEER		DATE	
				PROJ CONSTR QC ENGINEER		DATE	
				AUTHORIZED INSPECTOR		DATE	
17. REPORTED BY Louis D. Nelson		DATE 2/14/79		18. VALIDATED BY B. Barclay		DATE 2-14-79	
21. ROUTING: (X) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)							
22. ( ) Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering		Field Engineering recommends: "Use As Is". A.W. Hays 2/15/79					
23. PROJECT ENGINEERING DISPOSITION							
				26. QC ACCEPTANCE			
				QC ENGINEER		DATE	
				AUTHORIZED INSPECTOR		DATE	

Block 16 con't.

A conditional release has been granted to allow complete installation of subject Battery Racks. Corrections or removal can be accomplished without causing damage or contamination to associated plant equipment or structure.

11/1/78 1412 PFE DATE 2-15-79

REK E. Smith MEMX PFQCE DATE 2-15-79

for PQAE DATE

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

NONCONFORMANCE REPORT

S/U 1-ALA

1. PROJECT NAME <b>MIDLAND</b>		JOB NO. <b>7220</b>		19. NO. <b>1877</b>	20. PAGE <b>1 OF 2</b>		
2. UNIT(S) <b>1</b>	3. DRAWING/PART NO. <b>IP-05B</b>	REV <b>N/A</b>	4. ITEM DESCRIPTION <b>STEAM DRIVEN AUXILIARY FEEDWATER PUMP</b>	5. ITEM LOCATION/INSTALLED <b>AX BLDG EL 584</b>			
6. P.O. OR SPEC NO. <b>N/A</b>	7. SERIAL NO. <b>N/A</b>	8. REPLACEMENT PART P/N <b>N/A</b> REV <b>N/A</b> SER NO. <b>N/A</b>		9. SOURCE <b>CONSTRUCTION</b>	10. CONTRACTOR/SUPPLIER <b>N/A</b>		
11. INSPECTION CRITERIA <input type="checkbox"/> DWG <input type="checkbox"/> SPEC <input checked="" type="checkbox"/> OTHER		IR NO. <b>7220-IP05AB</b> NO. <b>FP6-5.000</b>	12. ASME AUTHORIZED INSPECTION REQ'D <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	13. SKETCH ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	14. Discovered During <input type="checkbox"/> Rec'g <input checked="" type="checkbox"/> Const <input type="checkbox"/> Test	15. Equip Furnished By <input type="checkbox"/> Client <input checked="" type="checkbox"/> Eng <input type="checkbox"/> FLD	
16. NONCONFORMING CONDITION: <b>IN ACCORDANCE WITH FP6-5.000 (F-10-118)</b> <b>THE FOLLOWING DAMAGE WAS NOTED:</b> <b>① THE HOUSING FOR THE TURBINE'S TUTHILL OIL PUMP IS BROKEN WHERE THE DRAIN ENTERS THE HOUSING</b> <b>② THE GLASS RESERVOIR OF THE TRICO OILER (SEE CONTINUATION)</b>				24. DISPOSITION CONCURRENCE			
				rework	reject	repair	use as is
				<b>J. J. [Signature]</b> <b>2/16/79</b> PROJECT FIELD ENGINEER DATE			
				<b>[Signature]</b> <b>2-16-79</b> PROJECT ENGINEER DATE			
				<b>[Signature]</b> PROJ CONSTR QC ENGINEER DATE			
				AUTHORIZED INSPECTOR DATE			
17. REPORTED BY <b>M. [Signature]</b> <b>2-12-79</b> DATE				18. VALIDATED BY <b>[Signature]</b> <b>2-14-79</b> DATE			
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING <input type="checkbox"/> TO OTHERS (SPECIFY)				25. DISPOSITION RESULTS			
22. <input checked="" type="checkbox"/> Field Engineering Disposition <input type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering							
1) Field will order a new housing for oil pump and replace per pgs. 190 & 191 of 7220-M14-117-1 (Terry steam turbine instruction manual)							
2) F-10 form to IP-05b will be changed to remove Trico oilers during construction- a new oiler will be installed just before system turn-over.							
23. PROJECT ENGINEERING DISPOSITION <b>[Signature]</b> <b>2/16/79</b> <b>D. [Signature]</b> <b>2/16/79</b>							
26. QC ACCEPTANCE							
				QC ENGINEER DATE			
				AUTHORIZED INSPECTOR DATE			

FOR THE INBOARD BEARING OF THE SUBJECT AUXILIARY  
FEEDWATER PUMP IS BROKEN.

Block 16 Con't.

A conditional release has been granted to allow grouting and pipe installation. Corrections or removal can be accomplished without causing damage or contamination to associated plant equipment or structure.

*J. J. Williams* *RTB* *2/16/79*  
PFE DATE

*J. J. Williams* *RTB* *2/16/79*  
PFQCE DATE

*J. J. Williams* *RTB* *2-16-79*  
PQAE DATE

# NONCONFORMANCE REPORT

*5/11 Non-Testable Unit*

1. PROJECT NAME Midland		JOB NO. 7220		19. 1878 NO.	20. PAGE 1 OF 3		
2. UNIT(S) 1 & 2	3. DRAWING/PART NO. E-602/E-603	REV 4/5	4. ITEM DESCRIPTION Electrical Raceways	5. ITEM LOCATION El. 646' Process Inst. Room			
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE Construction	10. CONTRACTOR/SUPPLIER N/A		
11. INSPECTION CRITERIA <input checked="" type="checkbox"/> DWG <input type="checkbox"/> SPEC <input type="checkbox"/> OTHER		IR NO E1.0 & E2.0 NO E-42 & E-47	12. ASME AUTHORIZED INSPECTION REQ'D <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	13. SKETCH ATTACHED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	14. Discovered During <input type="checkbox"/> Rec'g <input checked="" type="checkbox"/> Const <input type="checkbox"/> Test	15. Equip Furnished By <input type="checkbox"/> Client <input type="checkbox"/> Eng <input checked="" type="checkbox"/> FLTD	
16. NONCONFORMING CONDITION: The following nonconforming conditions are generally evident on raceway installations in the Process Instrument Rooms at El. 646'  Units 1 & 2, 1) Raceways have been installed with channel separation of less than one inch. Separation problems exist as follows: Conduit to conduit, conduit to wireway, wireway to wireway, conduit to non-Q supports, and wireway to non-Q supports.  <i>continued page 2</i>				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 <i>J. Brimster</i>		DATE 2-14-79		18. VALIDATED BY <i>D. Barclay</i>		DATE 2-14-79	
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING <input type="checkbox"/> TO OTHERS (SPECIFY)							
22. <input type="checkbox"/> Field Engineering Disposition <input checked="" type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering							
1) AAO to allow less than 1" separation in this area due to amount of congestion, and the fact that cables are low voltage instrumentation cables and no danger of fire or mechanical damage exists in this room.							
2) AAO has agreed to revise drawing notes to allow the use of all condulet bodies not just LB's to facilitate the installation of cable.							
23. PROJECT ENGINEERING DISPOSITION							
						26. QC ACCEPTANCE	
						QC ENGINEER _____ DATE _____	
						AUTHORIZED INSPECTOR _____ DATE _____	

(Block 16, continued)

2) Drawings E-602 and E-603 have notes approving the use of Type LB condulets in the Process Instrument Rooms. Contrary to this, Type LR and Type LL condulets have been used along with the Type LB's.

3) Conduits attached to wireways at one end, and passing through ceiling penetrations are supported at the bottom of the penetrations only. Consequently, many conduits exceed the maximum allowable cantilever lengths per Table 5 of E-42, sh. 311. There is also no criteria available to inspect these conduit runs when Type LB condulets are used between the wireway and the end of the conduit. (See sketch for typical configurations)

"Q" list - 3.005 & 3.006

2 "HOLD" tags applied at doorways. Installation controlled by open Inspection Records.

Hold for Engineering disposition.

22 cont'd.

3) Seismic supports are to be designed by AAO to facilitate the support of the conduit's which will be installable in this room.

*David J. Smith 2/20/79*

*B. Matthews 2-20-79*



NONCONFORMANCE REPORT

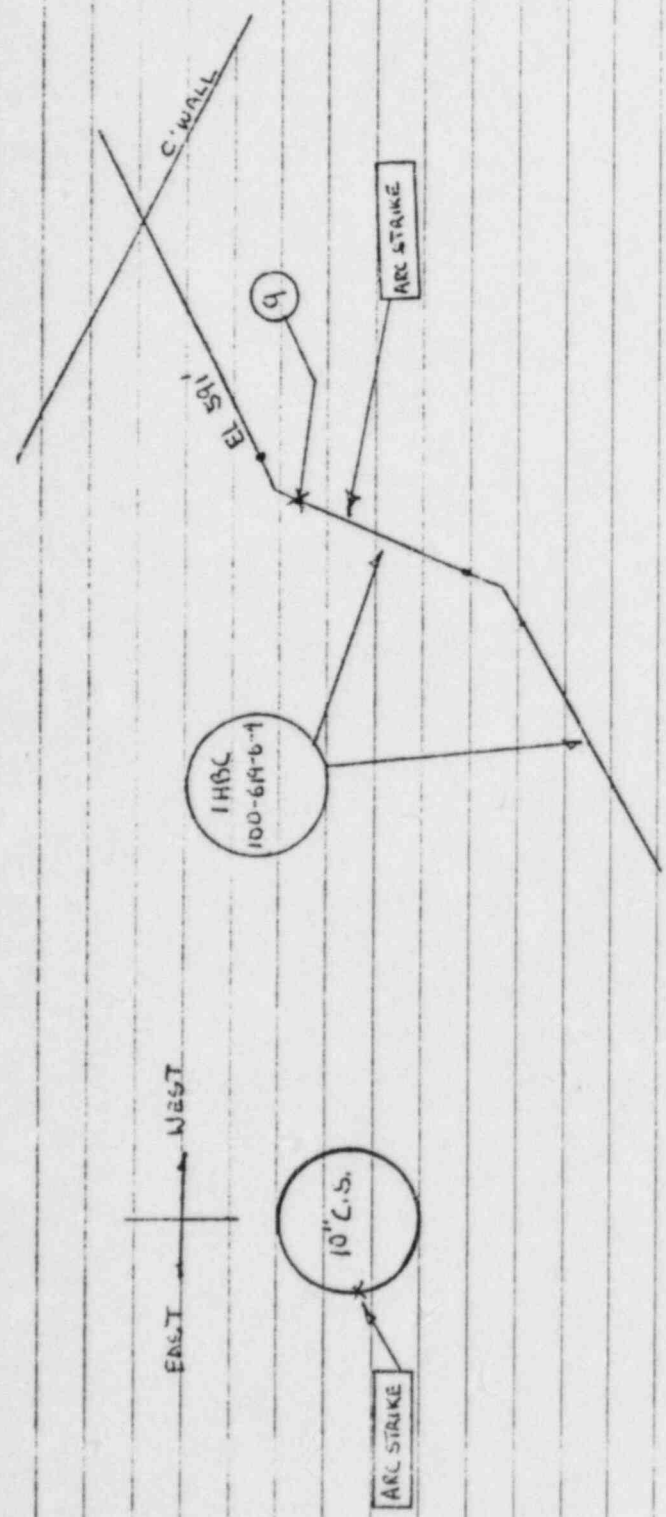
SUB SYSTEM 1-EAD-1-S

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO 1879	20. PAGE 1 OF 2		
2. UNIT(S) 1	3. DRAWING/PARTING DRAWING M-619 SH 6	REV 7/P3	4. ITEM DESCRIPTION SPOOL IHBC-100-619-6-4	5. ITEM LOCATION AUX BLDG 584' W. Wing Well			
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. SEE BLOCK #4	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE CONSTRUCTION	10. CONTRACTOR/SUPPLIER N/A			
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER		IR NO. P-1-10-619-6-6 (REV) NOM-204 REV 9	12. ASME AUTHORIZED INSPECTION REQ'D (X) YES ( ) NO	13. SKETCH ATTACHED (X) YES ( ) NO	14. Discovered During ( ) Rec'g (X) Const ( ) Test	15. Equip. Furnished By ( ) Client (X) Eng ( ) FLD	
16. NONCONFORMING CONDITION: SPEC M-204 REV. 9-52.1 PARA. 6 STATES: "CARE SHALL BE TAKEN IN HANDLING AND INSTALLATION OF PIPING TO PREVENT SURFACE DAMAGE." SPEC M-204, REV. 9-5.1.3 (M) STATES IN PART: "EXTREME CARE SHOULD BE TAKEN TO AVOID ARC STRIKES UPON ADJACENT SURFACES." CONTRARY TO THAT: SPOOL IHBC-100-619-6-4 HAS AN ARC STRIKE APPROX. 16" FROM F.W. (SEE SKETCH) ARC STRIKE IS APPROX 7/8" LONG, 1/4" WIDE & 29 THOUSANDS DEEP. (LIST # 4.192 - ONE HOLD TAG APPLIED TO PIPE. SEE CONT. SHEET PER CONT. OF BLOCK #16)				24. DISPOSITION CONCURRENCE			
				rework	reject	repair	use as is
				PROJECT FIELD ENGINEER DATE 2/20/79			
				PROJECT ENGINEER DATE			
				PROJ CONSTR QC ENGINEER DATE 2-21-79			
				AUTHORIZED INSPECTOR DATE			
17. REPORTED BY [Signature] DATE 2-14-79		18. VALIDATED BY [Signature] DATE 2/17/79		25. DISPOSITION RESULTS			
21. ROUTING: ( ) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)							
22. (X) Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering							
Field Engineering dispositions "Repair" per specification 7220-6-270 procedure specification IRP-1 Rev. 0-inspection and repair of surface defects.							
[Signature] 4/2/79							
23. PROJECT ENGINEERING DISPOSITION							
26. QC ACCEPTANCE							
QC ENGINEER				DATE			
AUTHORIZED INSPECTOR				DATE			



NONCONFORMANCE REPORT (CONT'D)

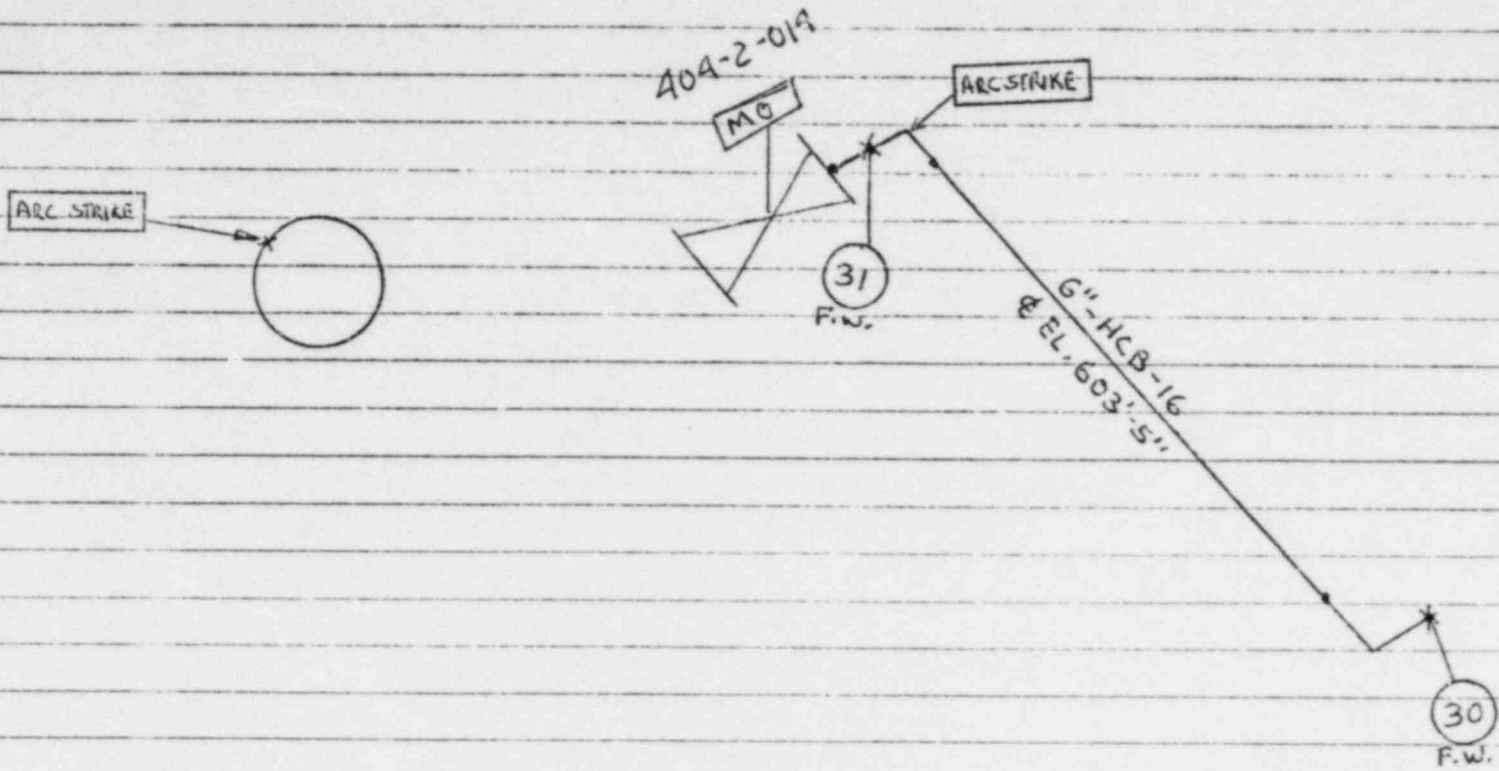
CONTINUATION OF BLOCK #16



NONCONFORMANCE REPORT

1. PROJECT NAME MIDLAND		JOB NO. 7220			19. NO. 1880	20. PAGE 1 OF 2			
2. UNIT(S) 2	3. DRAWING/PART NO. M-604-SH-6	REV 5/F2	4. ITEM DESCRIPTION SPOOL 2HCB-16-604-6-3		5. ITEM LOCATION Aux Bldg. El. 579' Row 215				
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. SEE BLOCK #4	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE CONSTRUCTION	10. CONTRACTOR/SUPPLIER N/A				
11. INSPECTION CRITERIA <input type="checkbox"/> DWG <input checked="" type="checkbox"/> SPEC <input type="checkbox"/> OTHER		IR NO. P-110-604-6-4 Rev 1 NO. M-204 Rev 9	12. ASME AUTHORIZED INSPECTION REQ'D <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		13. SKETCH ATTACHED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	14. Discovered During <input type="checkbox"/> Rec'g <input checked="" type="checkbox"/> Const <input type="checkbox"/> Test	15. Equip Furnished By <input type="checkbox"/> Client <input checked="" type="checkbox"/> Eng <input type="checkbox"/> FLD		
16. NONCONFORMING CONDITION: SPEC M-204 Rev. 9-5.2.1 Para. 6 STATES: "CARE SHALL BE TAKEN IN HANDLING AND INSTALLATION OF PIPING TO PREVENT SURFACE DAMAGE." SPEC. M-204, REV. 9-5.1.3 (M) STATES IN PART: "EXTREME CARE SHOULD BE TAKEN TO AVOID ARC STRIKES UPON ADJACENT SURFACES." CONTRARY TO THAT: SPOOL 2HCB-16-604-6-3 HAS AN ARC STRIKE ON THE NORTH 90° ELBOW, LOCATED AT THE CENTER OF THE INSIDE ARC, 300' ON THE RADIUS. (SEE SKETCH) Q LIST #1097 ONE HOLD TAG APPLIED TO 90° ELBOW. SEE CONT. SHEET FOR CONT. OF BLOCK # 15.						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		25. DISPOSITION RESULTS					
2-14-79		2/17/79							
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING <input type="checkbox"/> TO OTHERS (SPECIFY)									
22. <input checked="" type="checkbox"/> Field Engineering Disposition <input type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering									
Field Engineering dispositions-"Repair" per specification 7220-G-270. Procedure specification IRP-1 Rev. 0-inspection and repair of surface defects.									
23. PROJECT ENGINEERING DISPOSITION									
26. QC ACCEPTANCE									
						QC ENGINEER	DATE		
						AUTHORIZED INSPECTOR	DATE		

CONTINUATION OF BLOCK #16



NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. 1881 NO.	20. PAGE 1 OF 1	
2. UNIT(S) 1 & 2	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION Electric Hydrogen Recombiners	5. ITEM LOCATION Whse. # 1		
6. P.O. OR SPEC. NO. 7220-M-169-AC Rev. 1	7. SERIAL NO. See Blk. 16	8. REPLACEMENT PART P/N N/A REV _____	9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Westinghouse Electric		
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER		IR NO R-1.00-8846 NO M-169-AC 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-169 Rev. 2 Para. 9.2.1 states: The Seller shall submit drawings, data and procedures as follows; (a.) In accordance with Form G-321-D, Engineering and Quality Verification Document requirements. Contrary to the above, no documentation was received on Control Panel Stand # 82A, 83A, 84A, 85A, "Q" numbers are 4.623 and 4.533. Hold pending final disposition. <u>M</u> hold tag(s) applied to the nonconforming item(s).				24. DISPOSITION CONCURRENCE rework reject repair use as is <i>J. J. [Signature]</i> AB 2/20/79 PROJECT FIELD ENGINEER DATE <i>[Signature]</i> 2/22/79 PROJECT ENGINEER DATE PROJ CONSTR Q.C. ENGINEER DATE AUTHORIZED INSPECTOR DATE		
17. REPORTED BY <i>[Signature]</i>	DATE 2-14-79	18. VALIDATED BY <i>[Signature]</i>	DATE 2-15-79	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 documentation. <i>D. Short 2/20/79</i>				
23. PROJECT ENGINEERING DISPOSITION				26. QC ACCEPTANCE QC ENGINEER DATE AUTHORIZED INSPECTOR DATE		



Continue Block 16

Items 21 Tag 73 0-4 No. 5 of 7 and Item 22 Tag 73-0-5 No. 26 of 26 have broken plastic disc which surrounds the control switch. Item 19 Tag 730-2 No. 8 of 8 has both lock and disc broken.

"O" number is 3.104. Hold pending final disposition. 5 hold tag(s) applied to the nonconforming item(s).

NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. <del>48163</del> 1883	20. PAGE 1 of 1
2. UNIT(S) 1 & 2	3. DRAWING/PART NO. P.O. Item No. 2	REV N/A	4. ITEM DESCRIPTION 600 Volt Control Cable	5. ITEM LOCATION Poseyville EO-1	
6. P.O. JOB SPEC NO. 7220-E-26 Rev. 4	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N <u>N/A</u> REV <u>N/A</u> SER NO. <u>N/A</u>		9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Rockbestos
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER		IR NO. <u>R-1.00-8811</u> NO. <u>E-26</u>	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-26 requires the method of preparation for shipment shall be such as to protect the cable against dust, dampness; or injury that might be encountered in transportation and handling. Contrary to the above, the cable ends on reels G-3340 and G-3319 were not protected. Hold pending final disposition. "Q" number is 3.007. 2 hold tag(s) applied to the nonconforming item(s).				24. DISPOSITION CONCURRENTLY rework reject repair use as is <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
17. REPORTED BY Shedone J. Stes		DATE 2/15/79	18. VALIDATED BY A. T. ...		DATE 2/15/79
21. ROUTING: (X) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)					
22. <input checked="" type="checkbox"/> Field Engineering Disposition <input type="checkbox"/> Field Engineering Recommended Disposition To Project Engineering <u>USE AS IS</u>					
Field to properly seal cable ends as required in E-26. NOTE: As the reels went from inside storage at Rockbesto's to transportation by means of an enclosed truck there was no prior exposure to the elements. Bruce Matthews 2-21-79 A. T. ... 2-21-79					
23. PROJECT ENGINEERING DISPOSITION Project engineering has reviewed this NCR and approved the use of reels G-3340 and G-3319 with the field to properly seal cable ends per E-26. J. Haki 2-26-79					
26. QC ACCEPTANCE QC ENGINEER _____ DATE _____ AUTHORIZED INSPECTOR _____ DATE _____					



KE  
SUB SYSTEM 1-BGC-1 2/21

### NONCONFORMANCE REPORT

1. PROJECT NAME <b>MIDLAND</b>		JOB NO. <b>7220</b>		19. NO. <b>1884</b>	20. PAGE <b>1</b> OF <b>2</b>		
2. UNIT NO. <b>1</b>	3. DRAWING/PART NO. <b>M204 518</b>	REV <b>5/83</b>	4. ITEM DESCRIPTION <b>SPOOL# 1FCB-15-S-603-8-3</b>	5. ITEM LOCATION <b>NEW BLDG. 5' S. 50.5M WEST 10' S. WEST OF 5.6</b>			
6. P.O. OR SPEC NO. <b>N/A</b>	7. SERIAL NO. <b>N/A</b>	8. REPLACEMENT PART P/N <b>N/A</b> REV <b>N/A</b> SER NO. <b>N/A</b>	9. SOURCE <b>CONSTRUCTION</b>	10. CONTRACTOR/SUPPLIER <b>N/A</b>			
11. INSPECTION CRITERIA <input checked="" type="checkbox"/> DWG <input checked="" type="checkbox"/> SPEC <input type="checkbox"/> OTHER		IR NO. <b>P.110-603-8-1</b> NO. <b>M204 REV 9</b>	12. ASME AUTHORIZED INSPECTION REQ'D <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	13. SKETCH ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	14. Discovered During <input type="checkbox"/> Rec'g <input checked="" type="checkbox"/> Const <input type="checkbox"/> Test	15. Equip Furnished By <input type="checkbox"/> Client <input type="checkbox"/> Eng <input checked="" type="checkbox"/> FLD	
16. NONCONFORMING CONDITION: <b>SPECIFICATION M204 REV. 9 PARAGRAPH 4.1.3 STATES IN PART "MATERIALS SHALL BE MARKED WITH THE INFORMATION REQUIRED BY THE APPLICABLE ASME MATERIAL SPECIFICATIONS AND THE NUCLEAR POWER PLANT COMPONENTS CODE, PARAGRAPH NB-2151." "PIPE, FITTINGS, AND VALVES SHALL BE MARKED WITH A HEAT NUMBER OR A HEAT CODE AND SHALL RETAIN THIS IDENTIFICATION UNTIL IT IS FABRICATED INTO SUBASSEMBLIES OR INSTALLED CONTAINER"</b>				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 <b>J. McCall</b>				DATE <b>2-15-79</b>			
18. VALIDATED BY <b>D. Shott</b>				DATE <b>2/15/79</b>			
21. ROUTING: <input type="checkbox"/> TO FIELD ENGINEERING <input type="checkbox"/> TO OTHERS (SPECIFY)							
22. <input type="checkbox"/> Field Engineering Disposition <input checked="" type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering							
"Use As Is" Documentation is available from data package for spool 1FCB-15-S-603-8-3. The 90° elbow was cut in half and made into two 45° elbows. Spool number will also be etched into mat'l for future documentation purposes. <b>W. Sperson 2/21/79</b> <b>D. Shott 2/21/79</b>							
23. PROJECT ENGINEERING DISPOSITION							
26. QC ACCEPTANCE							
QC ENGINEER _____				DATE _____			
AUTHORIZED INSPECTOR _____				DATE _____			



Block #16. CONTINUED:

IN THE PIPING SYSTEM AND THE IDENTIFICATION HAS BEEN RECORDED IN THE RECORD ISOMETRIC OR OTHER RECORD DOCUMENT.

CONTRARY TO THE ABOVE, SPOOL NUMBER 1FCB-15-603-S-3 HAS TWO 45° ELBOWS INCORPORATED INTO THE RE-ASSEMBLY OF THE SPOOL. THE HEAT NUMBER MARKED ON THESE 45° ELBOWS IS JCMF. THESE HEAT NUMBERS ARE NOT TRACEABLE AS Q LISTED MATERIAL. THEREFOR, THE USE OF THESE TWO 45° ELBOWS (HT# JCMF) IS IN VIOLATION OF SPECIFICATION M204 REV 9 PARAGRAPH 4.1.3.

"Q" LIST NO. 4.037 (2) HOLD TAGS APPLIED TO SUBJECT 45° ELBOWS



## NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1886	20. PAGE 1 OF 1			
2. UNIT(S) Indeter- minate	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION 1 Hanger Assembly (Sketch # 1-603-3-27)	5. ITEM LOCATION Q.C. Hold, Wnse. # 2				
6. P.O. OR SPEC. NO. 7220-M-106-AC Rev. 7	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV _____ SER NO. _____		9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER ITT Grinnell, Warren, Ohio			
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER		IR NO. R-1.00-8770 NO. M-106-AC Rev. 7	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During (X) Rec'g ( ) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FLD		
16. NONCONFORMING CONDITION: Purchase Order 7220-M-106-AC Rev. 7 requires a G-321-D Form and Quality Verification Documentation. The G-321-D received for material on ITT Grinnells shop order number EMD-237 requires one sketch(1-603-3-27) to be attached with the Quality Verification Documentation Package. Contrary to the above, the sketch was not received. Hold for engineering disposition. "Q" number is 4.035. <u>1</u> hold tag applied.					24. DISPOSITION CONCURRENCE			
					rework	reject	repair	use as is
					PROJECT FIELD ENGINEER	DATE		
					PROJECT ENGINEER	DATE		
					PROJ CONSTR QC ENGINEER	DATE		
					AUTHORIZED INSPECTOR	DATE		
17. REPORTED BY <i>Bob A. Matthews</i>		DATE 2/15/79		18. VALIDATED BY <i>W. Beralay</i>		DATE 2-15-79		25. DISPOSITION RESULTS
21. ROUTING: (X) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)								
22. ( ) Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering								
23. PROJECT ENGINEERING DISPOSITION								
26. QC ACCEPTANCE								
						QC ENGINEER	DATE	
						AUTHORIZED INSPECTOR	DATE	

2/10 - 1-M-B  
2-A

### NONCONFORMANCE REPORT

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 1088	20. PAGE 1 OF 1		
2. UNIT(S) Common	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION Threaded Nelson Stud Welds	5. ITEM LOCATION Aux. Bldg. Elec. Pads of Four -			
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A	9. SOURCE Construction	10. CONTRACTOR/SUPPLIER N/A			
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (x) OTHER		IR NO. N/A NCR #1744	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 ( ) FLD	
16. NONCONFORMING CONDITION: NCR #1744 was given a conditional release under provisions of P.S.P. G-3.2 Sect. 3.4, to install equipment on these two pads in the Aux. Bldg. with the exclusion of any welding. Contrary to the above stud welding was done on these pads through the conditional release and thus, no Quality Control Inspections were performed. "Q-List" No. 1.205. Hold for Eng. Disposition. Two (2) Hold Tags applied, one to each pad.				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 <i>[Signature]</i>	DATE 2/16/77	18. VALIDATED BY <i>[Signature]</i>	DATE 2-16-77	25. DISPOSITION RESULTS			
21. ROUTING: (x) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)							
22. ( ) Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering							
23. PROJECT ENGINEERING DISPOSITION							
26. QC ACCEPTANCE							
				QC ENGINEER _____ DATE _____			
				AUTHORIZED INSPECTOR _____ DATE _____			

NONCONFORMANCE REPORT

2/23

1. PROJECT NAME MIDLAND		JOB NO. 7220		18. NO. 1891	19. PAGE 1	20. OF 1
2. UNIT(S) Cont 1	3. DRAWING/PART NO. E-753 E-758	4. ITEM DESCRIPTION SEISMIC TRAY SUPPORT		5. ITEM LOCATION FUEL 677 CONT 11		
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART PIN N/A REV N/A SER NO. N/A	9. SOURCE CONST.	10. CONTRACTOR/SUPPLIER N/A		
11. INSPECTION CRITERIA <input checked="" type="checkbox"/> DWG <input checked="" type="checkbox"/> SPEC <input type="checkbox"/> OTHER		IR NO. C304-535W NO. C304	12. ASME AUTHORIZED INSPECTION REQ'D <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	13. SKETCH ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	14. Discovered During <input type="checkbox"/> Rec'n <input checked="" type="checkbox"/> Const <input type="checkbox"/> Test	15. Equip Furnished by <input type="checkbox"/> Client <input checked="" type="checkbox"/> Eng <input type="checkbox"/> FLD
13. NONCONFORMING CONDITION: PER FPD-3.000 PARA 1.0 : STATES THAT LOCAL PRINTS OR CURRENT CONSTRUCTION DRAWINGS ARE UTILIZED TO ACCOMPLISH ACTUAL CONSTRUCTION AND/OR CHECK OUT OF A WORK ACTIVITY. THEY ARE CONTROLLED TO ASSURE THAT ONLY THE LATEST REVISIONS ARE IN USE. CONTRARY TO THE ABOVE, THE DRAWINGS FOR THE INSTALLATION, FOR THE TYPE (1) (SEE PAGE 2)				24. DISPOSITION CONCURRENCE		
17. REPORTED BY C. Hunt				25. DISPOSITION RESULTS		
DATE 2-16-79				18. VALIDATED BY [Signature] 2-23-79		
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING <input type="checkbox"/> TO OTHERS (SPECIFY)						
22. <input type="checkbox"/> Field Engineering Disposition <input type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering						
PCR E-1615 written <input checked="" type="checkbox"/> and submitted to cover installation 2/19/79. "Use As Is" [Signature] 2-23-79 [Signature] 2/23/79						
23. PROJECT ENGINEERING DISPOSITION						
26. QC ACCEPTANCE						
QC ENGINEER _____ DATE _____						
AUTHORIZED INSPECTOR _____ DATE _____						

Stack #16 CONT'D:

SECTION (A) ON DUG OUT (support) do not show  
OR CALL OUT THE CONNECTIONS USED FOR THE ATTACHMENT  
OF THE BEAM NET THE TRANSVERSE BRACE IN THE  
EMBED USED.

Hold for Engineering Disposition. Q list # 3005

I Hold TAG Applied to Support.

FORWARDED

NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1892	20. PAGE 1 OF 2		
2. UNIT(S) Common	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION ANSI E 55.1 No. 61 Touchup Paint	5. ITEM LOCATION Unknown			
6. P.O. OR SER. NO. 7220-E-13	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV	9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Westinghouse Electric			
11. INSPECTION CRITERIA ( ) DWG (x) SPEC ( ) OTHER		IR NO. R-1,00-7429 2 NO 3 Rev. 6	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (x) NO	13. SKETCH ATTACHED ( ) YES (x) NO	14. Discovered During (x) Rec'g ( ) Const ( ) Test	15. Equip Furnished By ( ) Client (x) Eng ( ) FLD	
16. NONCONFORMING CONDITION: Purchase Order E-13 states in part that Electrical Panels are coated in accordance with Specification G-3. Specification G-3 states that material to be applied will be ANSI 255.1 No. 61 and that Material Certification is required. Contrary to these requirements, the following situation exists:				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. Alentini 2-16-79				18. VALIDATED BY W. Darby 2-16-79		25. DISPOSITION RESULTS	
21. ROUTING: (x) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)							
22. ( ) Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering							
23. PROJECT ENGINEERING DISPOSITION							
				26. QC ACCEPTANCE			
				QC ENGINEER		DATE	
				AUTHORIZED INSPECTOR		DATE	

Continued on Page 2

10/15/74

1. The following information was received from the manufacturer of the product in question, dated 10/15/74, and is being included for your information. The manufacturer is the "Machinist Tool Company", 10000 1st Avenue, North, Dallas, Texas 75243. The manufacturer's name and address are as follows: "Machinist Tool Company", 10000 1st Avenue, North, Dallas, Texas 75243. The manufacturer's name and address are as follows: "Machinist Tool Company", 10000 1st Avenue, North, Dallas, Texas 75243.

2. No further action is warranted.

NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220			19. NO. 1893	20. PAGE 1 OF 3
2. UNIT(S) # 2	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION Corner & Iada Fig. 121-12" & 16" Riser Clamp		5. ITEM LOCATION Station 10	
6. P.O. OR SPEC. NO. 7220-F-29894	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV _____ SER NO. _____		9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Corner & Iada	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER		IR NO. R-1.00-1395 NO. See Below	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 ( ) Eng (X) FLD
16. NONCONFORMING CONDITION: The above listed clamps were purchased on Field P.O. F-29894 items # 1 & 2 with specific dimensions called out. Contrary to the P.O. the clamp diameter for item # 2, designed to fit a 12 3/4" OD Pipe is measured as 13 1/4" (See DWG Pg. 3) in addition, the stud dimension (F=5/8" x 3 1/2" & 7/8" x 5" for 12" & 16" clamps, respectively) specified in the purchase order is insufficiently long enough to accomodate double nuts on either end.					24. DISPOSITION CONCURRENCE rework reject repair use as is <i>[Signature]</i> PROJECT FIELD ENGINEER DATE 2/27/79 <i>[Signature]</i> PROJECT ENGINEER DATE 3/1/79 <i>[Signature]</i> PROJ CONST QC ENGINEER DATE AUTHORIZED INSPECTOR DATE	
17. REPORTED BY RON YONEKAWA Br Deane C. DeLaney 2/16/79		DATE	18. VALIDATED BY <i>[Signature]</i>		DATE 2-16-79	
21. ROUTING: (X) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)						
22. (X) Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering Reject and return to vendor. D. Shat 2/27/79 Field Eng. to revise P.O. to increase length of studs & require double nuts on each side of studs. D. Shat 2/27/79						
23. PROJECT ENGINEERING DISPOSITION						
26. QC ACCEPTANCE QC ENGINEER DATE AUTHORIZED INSPECTOR DATE						

Continued on Pg. 2

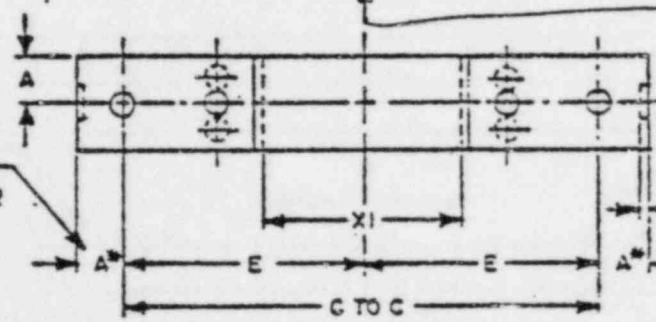
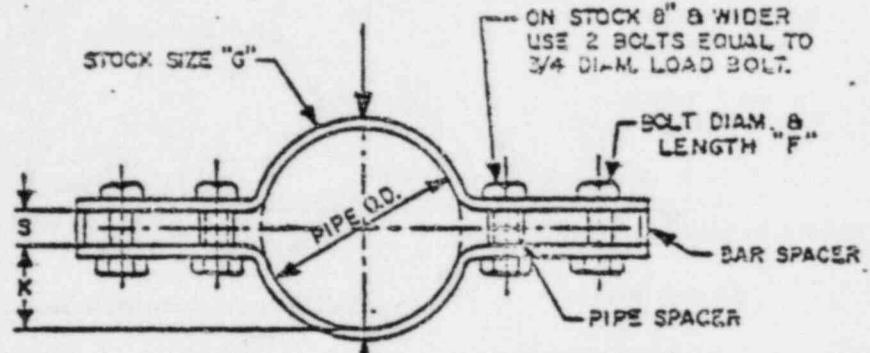


Block 16 Continued

The vendor, in noncompliance with the P.O., supplied longer studs and double nuts.

Hold pending final disposition. "Q" numbers are 12 inch clamp-4.321 and 16 inch clamp-4.391. 2 hold tag(s) applied.

# RISER CLAMP DESIGN TYPE A



MEASURED @  
THIS LOCATION,  
CLAMP ID = 1 3/4"

\* FOR BOLT DIA.  
1 1/4" AND SMALLER  
ADD 1/2"

# NONCONFORMANCE REPORT

Startup System Indeterminate

1- PKC  
2- PKC  
1- PKC

2-19-79

1. PROJECT NAME Midland		JOB NO. 07220			19. NO. 1895	20. PAGE 1 OF 3
2. UNIT(S) Common	3. DRAWING/PART NO. See Blk 16	REV	4. ITEM DESCRIPTION 9 each 125 Volt DC Distribution Panels	5. ITEM LOCATION Warehouse # 1		
6. W/O CD SPEC NO. E-45, Rev 3	7. SERIAL NO. See Blk 16	8. REPLACEMENT PART P/N N/A REV _____ SER NO. _____		9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Square D Company	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER		IR NO. R-1.00-8973	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 D
16. NONCONFORMING CONDITION.				24. DISPOSITION CONCURRENCE		
Specification E-45, Rev 3 requires that documentation arrive prior to or with shipment. Contrary to this requirement, documentation has not been received for the following distribution panels: 1D11, 1D21, 2D11, 2D21, 1D12, 1D22, 2D12, 2D22. "Q" List No. is indeterminate. Hold for Engineering dispositioning. Eight (8) hold tags applied.				rework    reject    repair    use as is Doc		
				PROJECT FIELD ENGINEER    DATE W. M. ... ASB 2-20-79		
				PROJECT ENGINEER    DATE PROJ CONSTR QC ENGINEER    DATE		
17. REPORTED BY R. Valentine		DATE 2-17-79	18. VALIDATED BY W. Barclay		DATE 2-19-79	
21. ROUTING: (X) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)						
22. (X) Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering						
Procurement supervisor to obtain proper documentation. Raymond Scheffele 2/19/79 B. Matthew 2-19-79						
23. PROJECT ENGINEERING DISPOSITION						
26. QC ACCEPTANCE						
					QC ENGINEER	DATE
					AUTHORIZED INSPECTOR	DATE

Request a conditional release in order to install the distribution panels. Panels will be retrievable after installation.

*W. L. Burley*

*2-19-79*

*W. L. Burley*

*2/19/79*

PFE

DATE

PFQCE

DATE

*E. Smith*

*2/19/79*

*for* PFOAE

DATE

TYPE DOUBLE SPACE • BE BRIEF

DBG	TELEX	TWX	TELEX	OTHER
		X		

CHECK APPROPRIATE BOX:

CHARGE ACCT. CODE:

Night Ltr: Full Rate: Report Delivery: YES NO

NUMBER TO BE CALLED

ADDRESSEE	ADDRESS	LOCATION (CITY, STATE OR CO)
BECHTEL POWER CORP.	3500 E. MILLER ROAD	MIDLAND, MICH. 48640
ATTN: J.F. NEWGEN		

*T-79 168*

PROJECT QA

FEB 2 1979

ROUTING

QA

FILE *Q2100 MCH25/3270*

SECTION - If additional addresses are required continue to list below:

BEAC-2682  
 SUBJECT: CPCO/MIDLAND PLANT - JOB 7220

P.O. 7220-E-45-AC

120 VAC AND 125 VDC DISTRIBUTION PANELS, ITEMS 85-

FILE: E-45, 0274

REFERENCE: SDDR'S 1009, 1013, 1017, DATED 11-27-78

1097, 1106, 1107, DATED 1-22-79

THIS IS TO ADVISE THAT SUBJECT EQUIPMENT HAS BEEN RELEASED FOR SHIPMENT UNDER REFERENCED SDDR'S WITH INCOMPLETE QUALIFICATION DOCUMENTS.

UPON RECEIPT AT THE SITE THE FIELD IS TO INITIATE APPROPRIATE ACTION ACCORDINGLY.

NOTE THAT NCR 1756 IS CURRENT AGAINST THIS P.O. FOR THE 480 VOLT DISTRIBUTION PANELS.

R.L. CASTLEBERRY

REM/PRG

AS TO: C. KERRADAY, L. SOKOL, P. GRAY, L. BASINSKI, W.A. MORING, R. BALTAZAR, CON LOG

SIGNATURE <i>R.L. Castleberry</i> R.L. CASTLEBERRY	LOCATION & EXT: 6A 7220	ORGANIZATION CODE: 7PE-2118
--	----------------------------	--------------------------------

ORIGINAL TO TELETYPE

NCR 3 OF 3

NONCONFORMANCE REPORT

1111 7900 1111  
 5/4 3-DEC + 0-EAA  
 1979  
 5-79

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 1896	20. PAGE 1 OF 2		
2. UNIT(S) COMMON	3. DRAWING/PART NO. LETTER BEBC-1592 DRAWING M-183 SHEET (Q)	REV 5	4. ITEM DESCRIPTION SINGLE SEAL LINK PACK UNIT	5. ITEM LOCATION SERVICE WATER PUMP STRUCTURE			
6. P.O. OR SPEC NO. F-20676	7. SERIAL NO. NA	8. REPLACEMENT PART P/N NA REV NA SER NO. NA		9. SOURCE VENDOR/CONSTR THUNDER LINE CORPORATION			
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER		IR NO. N/A NO. Sec 101.5.1 #16	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Rec'g (X) Const ( ) Test	15. Equip Furnished By ( ) Client ( ) Eng (X) FLD	
16. NONCONFORMING CONDITION: LETTER BEBC-1092 DATED 5-25-77 STATES THAT THE SINGLE SEAL LINK PACK UNITS SHOWN ON DRAWING M-183, SHEET 2, DETAIL A, IS A Q-LISTED ASSEMBLY. DRAWING M-183 SHOWS THE UNITS TO BE INSTALLED ON LINES 30"-OHBC-34 AND 30"-OHBC-33 ON THE NORTH SIDE OF THE CONCRETE WALL AT PENETRATIONS 16 AND 17 RESPECTIVELY. CONTRARY TO THE ABOVE, THE SINGLE SEAL LINK PACK UNITS WERE NOT PURCHASED AS "Q" AN NO (CONTINUED P 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 L. J. Landicola				DATE 2/16/79	18. VALIDATED BY W. J. Barclay		
				DATE 2/19/79	25. DISPOSITION RESULTS		
21. ROUTING: ( ) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)							
22. ( ) Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering							
1. "Use As Is" for the link pack units. Project Eng. to determine documentation requirements for the existing units. Field will contact the vendor and obtain the correct documentation. Additionally, Project Eng. to either provide a unique identification for each single seal link pack unit or place them on the bulk items list. 2. The Field shall rework the single seal <del>XX</del> link pack units to place them in the proper							
23. PROJECT ENGINEERING DISPOSITION							
26. QC ACCEPTANCE							
				QC ENGINEER	DATE		
				AUTHORIZED INSPECTOR	DATE		

RECEIVED

BLOCK 16 CONTINUED:  
PURCHASE SPECIFICATIONS EXISTED AT THE TIME THE UNITS WERE PURCHASED.  
ADDITIONALLY, THE UNITS WERE INSTALLED ON THE SOUTH SIDE OF THE CONCRETE WALL  
AT PENETRATIONS 16 AND 17.  
"Q" - LISTED No. INDETERMINATE      2 HOLD TAGS APPLIED TO SEALS.

Block 22 Con't.  
location as required by drawing 7220-M-183 Sh. 2(Q) Rev.5.

*D. Shook 2/28/79*

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

NONCONFORMANCE REPORT

S/M Non-Testable Unit

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1897	20. PAGE 4 OF 4		
2. UNIT(S) 1 & 2	3. DRAWING/PART NO. E-536	REV 19	4. ITEM DESCRIPTION Conduit (3" PVC)-Cable 2AA0512 A	5. ITEM LOCATION Aux Bldg 599'			
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N/A REV N/A SER NO. N/A	9. SOURCE Construction	10. CONTRACTOR/SUPPLIER N/A			
11. INSPECTION CRITERIA K) DWG ( ) SPEC ( ) OTHER		IR NO. 2AC008 NO. B-42, Rev. 37	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (x) NO	13. SKETCH ATTACHED ( ) YES (x) NO	14. Discovered During ( ) Rec'g (x) Const ( ) Test	15. Equip Furnished By ( ) Client ( ) Eng (x) FLD	
16. NONCONFORMING CONDITION: Conduit 2AC008 (3" PVC) was damaged by drilling slab-location, Aux. Bldg. Fl. 599', 2' 4" west of 6.9 line, 2" north of "E" line. The cable in this conduit (3" PVC) was also damaged. The insulation was out through to bare conductor. (cable no. 2AA0512 A) Q list - 3.006 1 Hold tag applied Hold for Engineering disposition				24. DISPOSITION CONCURRENCE			
				rework	reject	repair	use as is
				PROJECT FIELD ENGINEER		DATE	
				PROJECT ENGINEER		DATE	
				PROJ CONSTR QC ENGINEER		DATE	
				AUTHORIZED INSPECTOR		DATE	
17. REPORTED BY C.R. Blahney 2/16/79		DATE		18. VALIDATED BY W.P. Baulay 2/19/79		DATE	
21. ROUTING: ( ) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)				25. DISPOSITION RESULTS			
22. ( ) Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering							
23. PROJECT ENGINEERING DISPOSITION							
				26. OC ACCEPTANCE			
				QC ENGINEER		DATE	
				AUTHORIZED INSPECTOR		DATE	



**NONCONFORMANCE REPORT**

5/11 - Non-Festab...  
 2/21  
 RE

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1898	20. PAGE 1 OF 1		
2. UNIT(S) 1 & 2	3. DRAWING/PART NO. E-708 and E-709	REV 6/7	4. ITEM DESCRIPTION Cable Tray Seismic Support	5. ITEM LOCATION Aux Bldg. El. 584'			
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE Construction	10. CONTRACTOR/SUPPLIER N/A		
11. INSPECTION CRITERIA <input checked="" type="checkbox"/> DWG <input type="checkbox"/> SPEC <input type="checkbox"/> OTHER		IR NO. E-2.1-60 NO. _____	12. ASME AUTHORIZED INSPECTION REQ'D <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	13. SKETCH ATTACHED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	14. Discovered During <input type="checkbox"/> Rec'g <input checked="" type="checkbox"/> Const <input type="checkbox"/> Test	15. Equip Furnished By <input type="checkbox"/> Client <input type="checkbox"/> Eng <input checked="" type="checkbox"/> FLD	
16. NONCONFORMING CONDITION: Seismic Support located 12' North of Reactor center line on Column 6.6 was req reworked per DCN 7 to Dwg. E-708, Rev. 6. Contrary to the DCN, field removed a section from the bottom horizontal member as well. See copy of the DCN 7. "Q" list 3.005 1 "HOLD" tag applied. Held for engineering disposition				24. DISPOSITION CONCURRENCE			
				rework	reject	repair	use as is
				PROJECT FIELD ENGINEER	DATE		
				PROJECT ENGINEER	DATE		
				PROJ CONSTR QC ENGINEER	DATE		
				AUTHORIZED INSPECTOR	DATE		
17. REPORTED BY D.C. Quins		DATE 2-16-79		18. VALIDATED BY D.C. Barclay		DATE 2-19-79	
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING <input type="checkbox"/> TO OTHERS (SPECIFY)							
22. <input type="checkbox"/> Field Engineering Disposition <input checked="" type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering							
"Use As Is" Bottom brace has been modified to avoid H&V interference. Since time of modification, H&V has moved also.							
Raymond Scheuffele 2/21/79							
W.E. Hayes 2/21/79							
23. PROJECT ENGINEERING DISPOSITION							
26. QC ACCEPTANCE							
QC ENGINEER DATE							
AUTHORIZED INSPECTOR DATE							

Corrected Copy

slc Indeterminate

PM (D... ..) 1989 367

NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1899	20. PAGE 1 OF 1
2. UNIT(S) 2	3. DRAWING/PART NO. E-660	REV 4	4. ITEM DESCRIPTION Bolting Material	5. ITEM LOCATION Unit 2, Fl. 617	
6. P.O. OR SPEC. NO. 7220-E-20	7. SERIAL NO. 22440-120-2-21	8. REPLACEMENT PART P/N N/A REV _____ SER NO. _____		9. SOURCE Vendor	10. CONTRACTOR/SUPPLIER Bunker Ramo/Amphenol Sams
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC <input checked="" type="checkbox"/> OTHER		IR NO. <u>E-6.6-5c</u> NO. _____	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Rec'g (X) Const ( ) Test
15. Equip Furnished By ( ) Client (X) Eng ( ) FLD		16. NONCONFORMING CONDITION: Three 1 1/4"-8X7" vendor supplied bolts identified			24. DISPOSITION CONCURRENCE
KB7-X1, have a noticable crack in each bolt. These are from a shipment of 108 bolts to replace bolts that were too short. NOTE: (ALL 108 BOLTS HAVE BEEN "Q" list 3,002			rework <input checked="" type="checkbox"/> reject <input checked="" type="checkbox"/> re-use <input checked="" type="checkbox"/> use as is <input type="checkbox"/>		
9 Hold ts. applied			PROJECT FIELD ENGINEER DATE R. Bunnick/RIC 2-26-79		
Hold for Engineering disposition			PROJECT ENGINEER DATE R. Bunnick/RIC 2-27-79		
INSTALLED, THE QUALITY OF THESE BOLTS IS INDETERMINATE)			PROJ CONSTR QC ENGINEER DATE		
17. REPORTED BY <u>J.W. Miller</u> DATE <u>2-14-79</u>			AUTHORIZED INSPECTOR DATE		
VALIDATED BY <u>J.W. Miller</u> DATE <u>2-21-79</u>			25. DISPOSITION RESULTS		
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)					
22. <input checked="" type="checkbox"/> Field Engineering Disposition <input checked="" type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering					
Project Engineering to disposition. A field visual inspection will be made of every bolt in this shipment including those already installed. Vendor shall be notified of the findings and requested to replace all defective hardware.					
23. PROJECT ENGINEERING DISPOSITION					
<del>Project engineering has reviewed this NCR and instructs the field to remove and replace the three cracked bolts. Field to procure replacement bolts from the vendor.</del>					
Project engineering has reviewed this NCR and instructs the field to remove and inspect all 108 bolts, to replace any cracked bolts and procure replacement bolts from the vendor.					
J. Lakin 2-27-79			26. QC ACCEPTANCE		
			QC ENGINEER DATE		
			AUTHORIZED INSPECTOR DATE		



NONCONFORMANCE REPORT (CONT'D)

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
X	X		
<i>J. J. [Signature]</i> PROJECT FIELD ENGINEER		2-27-79 DATE	
<i>R. R. [Signature]</i> PROJECT ENGINEER		2-27-79 DATE	
<i>[Signature]</i> PROJECT CONSTR QC ENGINEER		3-1-79 DATE	
AUTHORIZED INSPECTOR		DATE	

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

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

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

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

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

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

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

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

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

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

24. 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

SLI 2-ABA

RE 21

1. PROJECT NAME Midland		JOB NO. 7220			19. NO. 1900	20. PAGE 1 OF 1		
2. UNIT(S) 2	3. DRAWING/PART NO. M632 Sh 1	REV	4. ITEM DESCRIPTION FW 8 on 2 ELB-10 & FW 15 on 2 ELB-9		5. ITEM LOCATION Cont. #2			
6. P.O. OR SPEC NO. NA	7. SERIAL NO. NA	8. REPLACEMENT PART P/N NA REV NA SER NO. NA		9. SOURCE Const.	10. CONTRACTOR/SUPPLIER NA			
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER		IR NO. NO. M-204	12. ASME AUTHORIZED INSPECTION REQ'D (X) YES ( ) NO		13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Rec'g (X) Const ( ) Test	15. Equip. Furnished By ( ) Client (X) Eng ( ) FLD	
16. NONCONFORMING CONDITION: Specification 7220-G-27 Q, Form 84 Mechanical lists					24. DISPOSITION CONCURRENCE			
P1-AT-Lh (CVN) as the project designated welding procedure specification to be used on welding of ELB piping over 2" in diameter: Contrary to the above, fit-up wedges were tacked in place on FW 8 for ELB-10 and FW-15 for ELB-9 using welding procedure specification P1-AT-Lh.  HOLD FOR ENGINEERING DISPOSITION. Q# 4.047 HOLD TAGS - 2					rework	reject	repair	use as is
					PROJECT FIELD ENGINEER		DATE	
					PROJECT ENGINEER		DATE	
					PROJ CONSTR QC ENGINEER		DATE	
17. REPORTED BY KL Bialaf 2/20/79					18. VALIDATED BY [Signature] 2-20-79			
21. ROUTING: (X) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)					25. DISPOSITION RESULTS			
22. ( ) Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering								
"Use As Is" based on the following: A) The essential variables for procedures P1-AT-LH and P1-AT-LH(CVN) are comparable. B) The certification of the welders who tacked the wedges in place is given to P1-AT-LH Rev.3 which also certifies the individual to P1-AT-LH (CVN). C) The filler mat'l used is the same for both procedures. KL Bialaf 2/21/79								
23. PROJECT ENGINEERING DISPOSITION								
26. QC ACCEPTANCE								
QC ENGINEER					DATE			
AUTHORIZED INSPECTOR					DATE			

NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. 1901 NO.	20. PAGE 1 OF 1		
2. UNIT(S) 1 & 2	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION Prepacked Non-Shrink Grout	5. ITEM LOCATION Whse. # 2			
6. P.O. OR SPEC NO. 7220-C-3147 Rev. 1 Rel. 1	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV _____ SER NO. _____		9. SOURCE Vendor	10. CONTRACTOR/SUPPLIER McCally Tool		
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER		IR NO. R-1.00-8820 NO. C-200 Rev. 15	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During (X) Rec'g ( ) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FLD	
16. NONCONFORMING CONDITION: Specification 7220-C-200 Rev. 15 Section 6.5 states non-shrink grout test batches shall be proportioned and mixed in accordance with the manufacturers instructions. Compressive strength test and shrinkage tests shall be performed. Contrary to the above, no results of the shrinkage tests have 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
				PROJECT FIELD ENGINEER _____ DATE _____			
				PROJECT ENGINEER _____ DATE _____			
				PROJ CONSTR QC ENGINEER _____ DATE _____			
				AUTHORIZED INSPECTOR _____ DATE _____			
17. REPORTED BY <i>[Signature]</i>		DATE 2-21-77	18. VALIDATED BY <i>[Signature]</i>		DATE 2-21-77		
21. ROUTING: ( ) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)							
22. ( ) Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering							
23. PROJECT ENGINEERING DISPOSITION							
25. DISPOSITION RESULTS							
26. QC ACCEPTANCE							
				QC ENGINEER _____ DATE _____			
				AUTHORIZED INSPECTOR _____ DATE _____			



NONCONFORMANCE REPORT (CONT'D)

Block 16 Cont't

A conditional release has been granted to release of grout. Corrections or removal can be accomplished without causing damage or contamination to associated plant equipment or structure.

U. J. [unclear] 7-21-79 DATE 2/26/79

DATE 10/20/79

PCAE

DATE

- White Copy - Originator
- Canary Copy - Field Engineer
- Pink Copy - QA/E
- Goldanrod Copy - QC



NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1903	20. PAGE 1 OF 1
2. UNIT(S) Inducter- M11111111	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION 2 Hanger Assemblies	5. ITEM LOCATION Q.C. Hold (BMS), Warehouse 2	
6. P.O. OR SPEC NO. 7220-M-106-AC Rev. 7	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV _____ SER NO. _____		9. SOURCE Supplier	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER		IR NO. R-1,00-8831 M-106-AC Rev.	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	10. CONTRACTOR/SUPPLIER ITT Grinnell, Warren, Ohio	
16. NONCONFORMING CONDITION Purchase Order 7220-M-106-AC Rev. 7 and Material Requisition 7220-M-106-AC Rev. 7 requires Quality Verification Documentation in accordance with Form G-321-D-1A Rev. 1. Contrary to the above, Form G-321-D-1A and Quality Verification Documentation has not been received for material on ITT Grinnell's Shop Order # EMD-198. Hold pending final disposition. "Q" number is 4,081. 2 hold tag(s) applied to the nonconforming material.			13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During (X) Rec'g ( ) Const ( ) Test	
			15. Equip Furnished By ( ) Client (X) Eng ( ) FLD		
			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 <i>[Signature]</i>		DATE 2/21/79	18. VALIDATED BY <i>W.J. Barclay</i>		DATE 2/22/79
21. ROUTING: (X) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)			25. DISPOSITION RESULTS		
22. ( ) Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
			26. QC ACCEPTANCE		
			QC ENGINEER	DATE	
			AUTHORIZED INSPECTOR	DATE	



### NONCONFORMANCE REPORT

56 IBGB

1. PROJECT NAME <b>MIDLAND</b>		JOB NO. <b>7220</b>		19. NO. <b>1904</b>	20. PAGE <b>1 OF 1</b>				
2. UNIT/ST <b>1</b>	3. DRAWING/PART NO. <b>IR-57B</b>	REV <b>NA</b>	4. ITEM DESCRIPTION <b>PURIFICATION DEMINERALIZER</b>	5. ITEM LOCATION INSTALLED <b>AUX BLDG EL 645</b>					
6. P.O. OR SPEC NO. <b>N/A</b>	7. SERIAL NO. <b>N/A</b>	8. REPLACEMENT PART P/N <b>N/A</b> REV <b>N/A</b> SER NO. <b>N/A</b>		9. SOURCE <b>CONSTRUCTION</b>	10. CONTRACTOR/SUPPLIER <b>N/A</b>				
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC ( <input checked="" type="checkbox"/> ) OTHER		IR NO. <b>M-100-1R-57</b> NO. <b>EPG-2000</b>	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES ( ) NO	13. SKETCH ATTACHED ( ) YES ( <input checked="" type="checkbox"/> ) NO	14. Discovered During ( ) Rec'g ( <input checked="" type="checkbox"/> ) Const ( ) Test	15. Equip Furnished By ( ) Client ( <input checked="" type="checkbox"/> ) Eng ( ) FLD			
16. NONCONFORMING CONDITION: <b>THERE IS AN ARCH STRIKE 3" LONG LOCATED APPROXIMATELY 36" HIGH ON THE SUBJECT EQUIPMENT IN THE SOUTH EAST CORNER OF THE TANK.</b>				24. DISPOSITION CONCURRENCE					
<b>"Q" LIST # 4.038 1 HOLD TAG APPLIED TO TANK</b>				<table border="1" style="width: 100%; text-align: center;"> <tr> <td>rework</td> <td>reject</td> <td>repair</td> <td>use as is</td> </tr> </table>		rework	reject	repair	use as is
				rework	reject	repair	use as is		
				<b>J. J. Luque</b> <b>1/23/79</b> PROJECT FIELD ENGINEER      DATE					
				<b>W. L. Barclay</b> <b>2/22/79</b> PROJECT ENGINEER      DATE PROJ CONSTR QC ENGINEER      DATE					
<b>H. W. Ketchum</b> <b>2/1/79</b> AUTHORIZED INSPECTOR      DATE									
17. REPORTED BY <b>M. Suleman</b>	DATE <b>2-21-79</b>	18. VALIDATED BY <b>W. L. Barclay</b>	DATE <b>2/22/79</b>	25. DISPOSITION RESULTS					
21. ROUTING: ( <input checked="" type="checkbox"/> ) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)									
22. <input checked="" type="checkbox"/> Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering									
Rework per spec. 7220-G-27(Q) procedure spec. IRP-1 Rev.0 Inspection and repair of surface defects.									
23. PROJECT ENGINEERING DISPOSITION									
26. QC ACCEPTANCE									
				QC ENGINEER	DATE				
				AUTHORIZED INSPECTOR	DATE				

NONCONFORMANCE REPORT

S/U 1-EGM

1. PROJECT NAME MIDLAND		JOB NO. 7220			19. NO. 1905	20. PAGE 1 OF 3
2. UNIT(S) 1	3. DRAWING/PART NO. M616 SH12	REV 6/F1	4. ITEM DESCRIPTION 358 LOCK #16		5. ITEM LOCATION 12th St. 1st Floor 4th Floor	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A-0003	8. REPLACEMENT PART P/N REV SER NO.	9. SOURCE CONSTRUCTION	10. CONTRACTOR/SUPPLIER N/A		
11. INSPECTION CRITERIA <input checked="" type="checkbox"/> DWG <input type="checkbox"/> SPEC <input type="checkbox"/> OTHER		IR NO. SFL 000016 NO. 306-12-302	12. ASME AUTHORIZED INSPECTION REQ'D <input type="checkbox"/> YES <input type="checkbox"/> NO	13. SKETCH ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	14. Discovered During <input type="checkbox"/> Rec'g <input checked="" type="checkbox"/> Const <input type="checkbox"/> Test	15. Equip Furnished By <input type="checkbox"/> Client <input checked="" type="checkbox"/> Eng <input type="checkbox"/> FLD
16. NONCONFORMING CONDITION: SPECIFICATION 14.342 PARAGRAPH 6.4.2 STATES: EXTERNAL SURFACES CLEANED TO CLASS "D" REQUIREMENTS SHALL BE INSPECTED VISUALLY TO ENSURE PROTECTION FROM GROSS FOREIGN MATERIALS AND REMOVAL OF CLEANING MEDIA. CONTRARY TO THIS, SPONS 1400-139-2-616-12-2, AND 1400-139-2-616-12-3, AND VALUE (S' ACC-0T-0) 416-1-050 ARE SOURCED WITH A GROSS COATING OF CONTAMINE. THESE ITEMS ARE RECORDED (INT. 1402)					24. DISPOSITION CONCURRENCE	
					rework	reject
					repair	use as is
					PROJECT FIELD ENGINEER	DATE
					PROJECT ENGINEER	DATE
					PROJ CONSTR QC ENGINEER	DATE
					AUTHORIZED INSPECTOR	DATE
17. REPORTED BY A. J. Cell 2-19-79					25. DISPOSITION RESULTS	
18. VALIDATED BY M. J. [Signature] 2-23-79						
21. ROUTING: <input type="checkbox"/> TO FIELD ENGINEERING <input type="checkbox"/> TO OTHERS (SPECIFY)						
22. <input type="checkbox"/> Field Engineering Disposition <input type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering						
23. PROJECT ENGINEERING DISPOSITION						
26. QC ACCEPTANCE						
					QC ENGINEER	DATE
					AUTHORIZED INSPECTOR	DATE



NONCONFORMANCE REPORT

See Non-Testable Unit

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1906	20. PAGE 1 OF 1		
2. UNIT(S) 1&2	3. DRAWING/PART NO. E-755 Sh 1 Rev 3/E-750 Sh 1	REV 6	4. ITEM DESCRIPTION Tray Supports	5. ITR LOCATION Cont #2, 609', Col 16-17 Cont #2, 609', Col 8			
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. N/A NO. N/A	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Rec'g (X) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FLD	
16. NONCONFORMING CONDITION: Service Air and Instrument Air lines are supported by W8 x 17 beams and C8 x 20.7 channel added for seismic tray supports. This condition is indeterminate because there is no acceptance criteria for this installation. Hold for Engineering Disposition.				24. DISPOSITION CONCURRENCE			
				rework	reject	repair	use as is
				<i>[Signature]</i> 2-27-79 PROJECT FIELD ENGINEER DATE			
				<i>[Signature]</i> 2-27-79 PROJECT ENGINEER DATE			
				<i>[Signature]</i> PROJ CONSTR QC ENGINEER DATE			
				AUTHORIZED INSPECTOR DATE			
7. <del>10</del> QC Hold Tags applied. Q List # 3,006		17. REPORTED BY <i>[Signature]</i> 2-23-79		18. VALIDATED BY <i>[Signature]</i> 2-23-79			
21. ROUTING: (X) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)		25. DISPOSITION RESULTS PIPING SUPPORTS IN CONT #1, 609', COL #16 TO #17 HAVE BEEN REMOVED FROM THE THREE W8x17s AND GROUND Smooth <i>[Signature]</i> 3-1-79					
22. (X) Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering Service air and instrument lines <del>XXXXXXXXXX</del> attached to electrical Q support steel will be removed and rerouted. <i>[Signature]</i> 2-26-79 <i>[Signature]</i> 2/26/79		23. PROJECT ENGINEERING DISPOSITION					
		26. QC ACCEPTANCE					
		QC ENGINEER DATE					
		AUTHORIZED INSPECTOR DATE					

See 3-1-79

5/12-ABH

NONCONFORMANCE REPORT

1. PROJECT NAME <i>MIDLAND</i>		JOB NO. <i>7220</i>		19. NO. <i>1007</i>	20. PAGE <i>1</i> OF <i>1</i>
2. UNIT(S) <i>UNIT-2</i>	3. DRAWING/PART NO. <i>07692-5H1</i>	4. ITEM DESCRIPTION <i>YES FLUED HEAD 27-39 (MAIN STEAM)</i>	5. ITEM LOCATION <i>UNIT-2 FEW 706'</i>		
6. P.O. OR SPEC NO. <i>N/A</i>	7. SERIAL NO. <i>N/A</i>	8. REPLACEMENT PART PIN <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>PL30-632-1-1</i> NO <i>07692-5H1</i>	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES ( ) NO	13. SKETCH ATTACHED ( ) YES ( ) NO	14. Discovered During ( ) Rec'g ( ) Const ( ) Test ( ) Client ( ) Eng ( ) FLD	
16. NONCONFORMING CONDITION: <i>SPEC 7220, M204 REV 9, PARA 5.2.1 STATES IN PART: CASE SHALL BE TAKEN IN THE HANDLING AND INSTALLATION OF PIPING TO PREVENT SURFACE DAMAGE. CONTRARY TO THE ABOVE, FLUED HEAD 27-39 HAS A LARGE ARC STAINC INSIDE AT 6 O'CLOCK, APPROX 10" LONG AND APPROX 24" EAST OF F.W.1 (M632-3), ALSO THERE ARE TWO DEPRESSIONS APPROX 2" IN DIAMETER, APPROX. 0.50 DEEP, 7' EAST OF F.W.1 (M632-3) AT 6 O'CLOCK, APPARENTLY FROM GRINDING OF PREVIOUS DAMAGE. Q# 4522 I OK HOLD TAG APPLIED AT OVER HEAD</i>					
17. REPORTED BY <i>W. J. [Signature]</i>	DATE <i>2-23-79</i>	18. VALIDATED BY <i>[Signature]</i>	DATE <i>2-23-79</i>	24. DISPOSITION CONCURRENCE	
21. ROUTING: ( ) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)		25. DISPOSITION RESULTS			
22. ( ) Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE					
QC ENGINEER				DATE	
AUTHORIZED INSPECTOR				DATE	

NONCONFORMANCE REPORT

*SHA Non-Festible Unit*

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1908	20. PAGE 4 OF 4
2. UNIT(S) 1 & 2	3. DRAWING/PART NO. E-612	REV 10	4. ITEM DESCRIPTION Makeup Pump - 2.P.58 B	5. ITEM LOCATION Aux. Bldg. El. 599	
6. P.O. OR SPEC NO. M1.16	7. SERIAL NO. KK0393112	8. REPLACEMENT PART P/N N/A REV N/A	SER NO. N/A	9. SOURCE Construction	10. CONTRACTOR/SUPPLIER General Electric 900 H.P.
11. INSPECTION CRITERIA ( ) DWG (x) SPEC ( ) OTHER		IR NO. E-6.0-113 NO. M 1.16	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (x) NO	13. SKETCH ATTACHED ( ) YES (x) NO	14. Discovered During ( ) Rec'g (x) Const ( ) Test
15. Equip Furnished By ( ) Client (x) Eng ( ) FLD			16. NONCONFORMING CONDITION: Electrical connection terminal box has 2" long split in the rear of the metal box. Motor model #5K030917A7. - 900 H.P.		
Q list 4.046			1 Hold tag applied		
Hold for Engineering disposition			24. DISPOSITION CONCURRENCE		
			rework		
			reject		
			repair		
			use as is		
17. REPORTED BY <i>A.M. Selman</i>			DATE 2/23/79		
18. VALIDATED BY <i>W. G. Day</i>			DATE 2-23-79		
21. ROUTING: ( ) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)					
22. ( ) Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
25. DISPOSITION RESULTS					
26. QC ACCEPTANCE					
			QC ENGINEER		
			DATE		
			AUTHORIZED INSPECTOR		
			DATE		

NONCONFORMANCE REPORT

S/U 142-SAA4B

1. PROJECT NAME Milland		JOB NO. 7220		19. NO. 1909	20. PAGE 4 OF 4
2. UNIT(S) 1 & 2	3. DRAWING/PART NO. E-510	REV 11	4. ITEM DESCRIPTION Control Panels 2014	5. ITEM LOCATION Aux. Bldg. Fl. 659	
6. P.O. OR SPEC NO. 7220-J207	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A	SER NO. N/A	9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Automation Industries, Inc. "Vitro"
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER		IR NO. N/A NO. J207	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Rec'g (X) Const ( ) Test
15. Equip Furnished By ( ) Client (X) Eng ( ) FLD			16. NONCONFORMING CONDITION: Control Panels 1035, 2035, 1043, 2043, 1044, 2044, located in the Safety Related and Control Room on Fl. 659', DO NOT have nameplate identification. Specification 7220/J207, page 19, para. P, Control Cabinets, Item 5, specified "engraved, laminated nameplates". Q list 5.302 6 Hold tags applied Hold for Engineering disposition		
17. REPORTED BY A.M. Schmitt		DATE 2/23/74	18. VALIDATED BY R. J. ...	DATE 2-23-74	24. DISPOSITION CONCURRENCE
21. ROUTING: ( ) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)			25. DISPOSITION RESULTS		
22. ( ) Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering			26. QC ACCEPTANCE		
23. PROJECT ENGINEERING DISPOSITION			QC ENGINEER _____ DATE _____		
			AUTHORIZED INSPECTOR _____ DATE _____		

NONCONFORMANCE REPORT

Site Non-Testable Unit

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 1910	20. PAGE 1 OF 1
2. UNIT(S) AUX. BLDG	3. DRAWING/PART NO. 7220-5538 (S)	REV 18	4. ITEM DESCRIPTION 2" GRS CONDUIT 2B 0016	5. ITEM LOCATION SLAB AT EL. 6.25'-0"	
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 CONSTR.	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA <input checked="" type="checkbox"/> DWG ( ) SPEC ( ) OTHER	IR NO. NO. E 538 REV. 18	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Rec'g (X) Const ( ) Test	
15. Equip. Furnished By ( ) Client ( ) Eng (X) FLD					
16. NONCONFORMING CONDITION: CONDUIT 2B0016 HAS BEEN DAMAGED BY DRILLING THE CONCRETE SLAB IN THE AUX BLDG., ELEV. 6.25'-0" APPROXIMATELY 8'-0" EAST OF "B.6" AND 5'-8" SOUTH OF "J" Q LIST # 3.006 DRILLING PERMIT # 3529 I QC HOLD TAG APPLIED					
17. REPORTED BY Stephen E. Hilliard 2-23-79		DATE 2-23-79		25. DISPOSITION RESULTS	
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)		24. DISPOSITION CONCURRENCE			
22. <input checked="" type="checkbox"/> Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering		26. QC ACCEPTANCE			
DISPOSITION 2-23-79, TO BE REPAIRED IN ACCORDANCE WITH E-42, SHEET 11C, REV. 2 PARAGRAPH 30 B. Matthews 3-1-79 Stephen E. Hilliard 2-23-79					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE					
OC ENGINEER					
AUTHORIZED INSPECTOR					
DATE					
DATE					

PROJECT ENGINEER  
STEPHEN E. HILLIARD  
PROJECT FIELD ENGINEER  
DATE 2-23-79

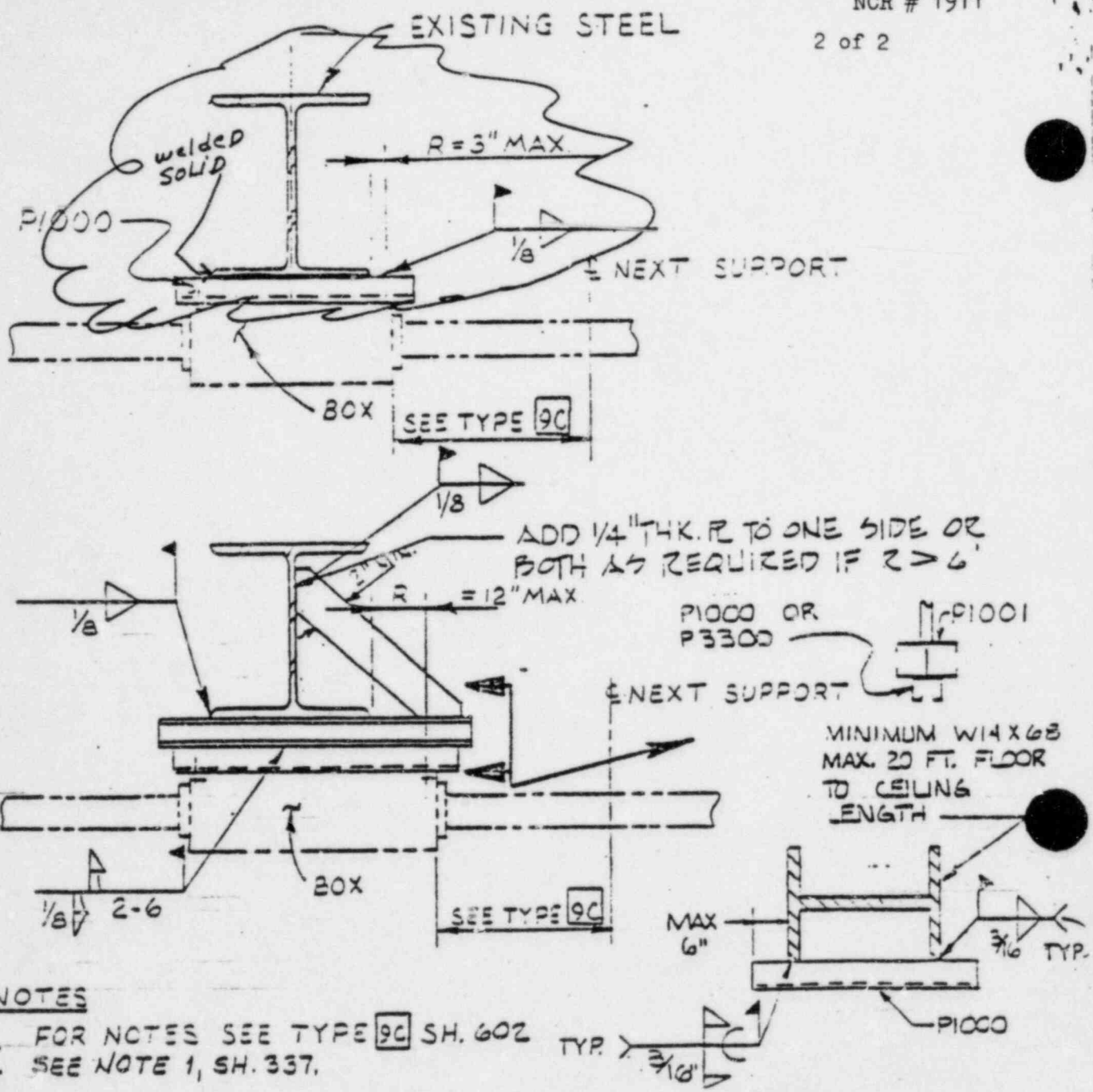
AUTHORIZED INSPECTOR  
DATE

DATE





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**NOTES**

- FOR NOTES SEE TYPE 9C SH. 602
- SEE NOTE 1, SH. 337.

**BOX SUPPORT**  
**TYPE 9E SUPPORT**

**TYPE 9E ALT. SUPPORT**  
FOR JUNCTION BOX AT COLUMN AND CONDUIT SUPPORT IN WEB OF COLUMN. MAX. TOTAL LOAD = 350#. MAX. LOAD ON EACH CANTILEVER = 200#. \*2 REIN'D

△									
△									
△	1243-??	ISSUED FOR CONSTRUCTION WAS	SC	J. J. G.	PLT				
No.	DATE	REVISIONS	BY	CHK'D	GROUP LEAD	GROUP SUPV.	PRC'G ENGR.	CHIEF ENGR.	
SCALE 1/8"		DESIGNED		DRAWN					
ORIGIN		MIDLAND PLANT UNITS 1 & 2 CONSUMERS POWER COMPANY CONDUIT AND TRAY NOTES, SYMBOLS AND DETAILS			JOB No. 7220		DRAWING No.		REV.
AA-G-122673 "A" SIZE		BECHTEL			E-42 (Q) SH. 604				0

**NONCONFORMANCE REPORT** *s/c Non-Tested Unit*

1. PROJECT NAME <b>Midland</b>		JOB NO. <b>7220</b>		19. NO. <b>1912</b>	20. PAGE <b>1</b> OF <b>2</b>			
2. UNIT(S) <b>Common</b>	3. DRAWING/PART NO. <b>N/A</b>	REV <b>N/A</b>	4. ITEM DESCRIPTION <b>Concrete Quality - Excessive Slump</b>	5. ITEM LOCATION <b>Die, Gen. Bldg. DC(678,25)C'</b>				
6. P.O. OR SPEC NO. <b>N/A</b>	7. SERIAL NO. <b>N/A</b>	8. REPLACEMENT PART P/N <b>N/A</b> REV <b>N/A</b> SER NO. <b>N/A</b>		9. SOURCE <b>Sub-contractor</b>	10. CONTRACTOR/SUPPLIER <b>Champion, Inc.</b>			
11. INSPECTION CRITERIA ( ) DWG (x) SPEC ( ) OTHER		IR NO. <b>C-1.30-743</b> NO. <b>C-230 Rev. 14</b>	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (x) NO	13. SKETCH ATTACHED ( ) YES (x) NO	14. Discovered During ( ) Rec'g ( ) Const (x) Test			
16. NONCONFORMING CONDITION:		Spec. C-230 Rev. 14 section 9.1.3 states in part that ...			24. DISPOSITION CONCURRENCE			
<p>The " Working Limits" &amp; " Inadvertency Margin" as specified in Table 9.1 will be the basis for evaluating concrete consistency at the point of placement. For C-1C concrete, the slump " Working Limits" is 3" with an " Inadvertency Margin" of 2". Contrary to the above, a slump of 5 1/4" was recorded on Ticket No. 31298, Truck No. 51, with a backup slump of 5 1/4", resulting in 24 cu. yds. of indeterminate high slump concrete placed.</p>					rework	reject	repair	use as is
					PROJECT FIELD ENGINEER		DATE	
					PROJECT ENGINEER		DATE	
					PROJ CONSTR QC ENGINEER		DATE	
					AUTHORIZED INSPECTOR		DATE	
17. REPORTED BY <i>[Signature]</i>	DATE <b>2/21/79</b>	18. VALIDATED BY <i>[Signature]</i>	DATE <b>2-23-79</b>	25. DISPOSITION RESULTS				
21. ROUTING: (x) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)								
22. ( ) Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering								
23. PROJECT ENGINEERING DISPOSITION								
26. QC ACCEPTANCE								
				QC ENGINEER	DATE			
				AUTHORIZED INSPECTOR	DATE			

Block 16 continued

Order for Laylaton's Disposal Inc. 3 Peta Corp Applied. 59 Unit No. 1,405.

IN-PROCESS CONCRETE TEST REPORT

Q.C. Acceptance \_\_\_\_\_ Date \_\_\_\_\_  
Control No. \_\_\_\_\_ File No. \_\_\_\_\_

Inspection Record No. C 120-743 2. Date 2-20-79 3. Page 3 of 3

CONCRETE PLACEMENT IDENTIFICATION

Placement Identification C 120-743 Thin Section  Thick  Mass   
Concrete Class I 6. Mix No. P-100 RT 10-10 7. Entrained Air Content Limits 3-6  
Slump Working Limits 3 9. Inadvertancy Margin 2  
10. Concrete Placing Temperature Limits 60 ± 10 11. Weather Conditions Applicable  
Hot  Cold

Bucket No.	Truck No.	13 Time	14 Cum. Yardage	15 Sampling Point	16 Slump ASTM C-143-74	17 Air Ent. ASTM C-231-74	18 (F) Conc. Temp.	19 (F) Air Temp.	20 Unit Wt. ASTM C-138-74	21 Conc. Cyls. ASTM C-31-69 Test No. Amt.
1235	29	7:35	6CY	TD	6 1/4 5 3/4	4.0	52°	7°		5-12-F 4
1238	29	-	-	TD ECL	5 4 1/4	4.4 4.6	52° 50°	7°		
31239	51	7:32	-	12cy (C-120-743)						
31240	51	7:32								
31241	30	7:41								
31242	30	7:41								
31243	56	7:48	12							
31244	51	7:55	18							
31245	29	7:58	24							
31246	30	8:06	30							
31247	56	8:17	36							
31248	51	8:26	42							
31249	29	8:27	48							
31250	30	8:40	54	TD ECL	7 1/2 1 1/2	3.1 3.3	52° 55°	12°	3cy Wt. Cont. Test No. 51-F	
31251	56	8:40	60	CONCRETE TO DRY TO						
31252	51	8:47	66	TD		4.7	53	12°		
31253	29	8:52	72							
31254	30	9:00	78							
31255	56	9:15	84							
31256	29	9:25	90							
31257	30	9:25	96							
31258	51	9:32	102	TD ECL	3 1/2 3	6.6 5.1	52° 50°	15°		
31259	56	9:35	108							
31260	30	9:40	114							
31261	51	9:50	120							
31262	29	9:51	126							
31263	56	9:55	132							
31264	30	10:00	138							
31265	51	10:00	144							

2. TESTING EQUIPMENT

Slump Rod	309 402 403 156	Calibration	Due Date	4-10-79 3-11-79 4-10-79 4-11-79
Slump Cone	147 347	Calibration	Due Date	4-30-79 4-30-79
Air Meter No.	316 314	Calibration	Due Date	4-30-79 4-19-79
Unit Wt. Cont. No.		Calibration	Due Date	
Scale No.	n/a	Calibration	Due Date	n/a
Thermometer No.	429 427	Calibration	Due Date	2-13-79 2-13-79

Concrete Rejected Cu. Yards 31cy  
Concrete Sampled & Tested by SAT BR RB RB DH TRS  
Quality Control Engineer Edmund Carter 26. Date 2-21-79

# IN-PROCESS CONCRETE TEST REPORT

CONTINUATION SHEET

#1912

ACCEPTANCE	DATE
CONTROL NO.	FILE NO.

PLACEMENT IDENTIFICATION: 1930-223 2. PAGE 4 OF   

TRUCK No.	TRUCK No.	TIME	SL. THICK. (inches)	SAMPLING POINT	* slump ASTM C-143-74	† AIR Encl. ASTM C-231-74	‡ CONC. Temp.	§ AMB. Temp.	DATE TEST ASTM C-138-74	CONC. TEST No. AME.
1266	29	10:12	150							
1267	30	10:21	150	4.1						
1268	56	10:31	160							
1269	51	10:32	168							
1270	29	10:57	174							
1271	30	10:41	180							
1272	51	10:58	180							
1273	30	11:05	190							
1274	29	11:24	178	TD	10.5	9.4	71	72		
1275	56	11:11	204							
1276	51	11:14	210							
1277	30	11:20	216							
1278	29	11:30	222	TD	9.2	9.1				REJECTED
1279	56	11:30	228							
1280	51	11:30	234							
1281	30	11:42	240							
1282	56	11:47	246	TD/ENCL	4 1/2	5	7.0	7.5	CA 52	7A
1283	51	12:12	252							
1284	30	12:18	258							
1285	56	13:06	264							
1286	51	13:30	270							
1287	29	13:50	276							
1288	30	13:50	282							
1289	56	13:46	288							
1290	51	13:50	294	TD/ENCL	4.5	4.5	4.5	4.5	31°	202253 11:24
1291	29	13:53	300							
1292	30	13:55	306							
1293	56	14:05	312							
1294	51	14:10	318							
1295	29	14:13	324							
1296	30	14:17	330							
1297	56	14:21	336							
1298	51	14:27	342	TD/ENCL	4.5	4.5	4.5	4.5	32°	401 20
1299	51	14:30	348							

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IN-PROCESS CONCRETE TEST REPORT  
CONTINUATION SHEET

ACCEPTANCE DATE  
CONTRACT NO. FILE NO.

PLACEMENT IDENTIFICATION: DC (678 24) C1 2. PAGE 8 OF

Lot No.	Truck No.	Time	Sum. Yards	Sampling Point	Slump ASTM C-143-74	5" Fall Test ASTM C-231-74	Comp. Temp.	10' Amb. Temp.	10' Cast Temp. ASTM C-138-74	10' Comp. Temp. ASTM C-138-74	Test No. Amb.
1300	30	14:36	354								
1301	50	14:38	360								
1302	51	14:45	366	ELL	4"	5.6	58°	32°			
1303	29	14:47	372	TD	4"	6.0	52	32°			
1304	30	14:52	378								
1305	50	14:58	384								
1306	51	15:15	390	TDECK	5 1/4"	4.2	4.2	53°	57°	32°	
1307	29	15:17	396								
1308	30	15:22	402								
1309	50	15:29	408	T.D.	2 3/4" 8 1/2"	(HE SELECTED)					
1310	51	15:30	414								
1311	30	15:33	420								
1312	29	15:35	426								
1313	51	15:50	432								
1314	29	15:54	438	T.	7 1/4"		51°	34°			
1315	50	15:57	444	ELL	3 1/2"	5.2	52°	34°			
1316	30	16:00	450								
1317	51	16:10	456								
1318	50	16:15	462								
1319	29	16:20	468								
1320	20	16:23	474								
1321	51	16:37	480								
1322	29	16:41	486	TDECK	4"	5 3/4"	2.2	54°	50°	32°	
1323	50	16:45	492								
1324	30	16:48	498								
1325	29	16:56	504								
1326	30	17:11	510								

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NONCONFORMANCE REPORT

S/C N/A

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. <del>4043</del>	20. PAGE 1 OF 2
2. UNIT(S) Indeter- minate	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION Plate 2 Pcs. of 3/8" x 6'-0" x 9'-0" SA-515 Gr. 70	5. ITEM LOCATION NH-16 Q.C. Hold, Poseyville	
6. P.O. OR SPEC. NO. 7220-F-29821 Rev. 1	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV _____ SER NO. _____		9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER NPS Industries Inc.
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (x) OTHER		IR NOR-1,00-8607 NOF-29821 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
16. NONCONFORMING CONDITION: (1) Purchase Order 7220-F-29821 Rev. 1 requires material to be in accordance with ASME Section III, Subsection NF Article 2000. Contrary to the above, the Certified Material Test Report receive the above listed material is certified to Subsection NF Article 1000 and the material has NF 1000 stenciled on it. (2) Purchase Order F-29821 requires material to be traceable to a Certified Material Test Report (Heat # 202391B1).			24. DISPOSITION CONCURRENCE		
			rework	reject	repair
			use as is		
			PROJECT FIELD ENGINEER	DATE	
			PROJECT ENGINEER	DATE	
			PROJ CONSTR QC ENGINEER	DATE	
			AUTHORIZED INSPECTOR	DATE	
			25. DISPOSITION RESULTS		
17. REPORTED BY [Signature] DATE 2-23-79			18. VALIDATED BY [Signature] DATE 2-23-79		
21. ROUTING: (x) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)					
22. ( ) Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE					
				QC ENGINEER	DATE
				AUTHORIZED INSPECTOR	DATE

Continued on Page 2



Block 16 Continued

Contrary to the above, the two plates are not marked to identify traceability with the UMR. Hold for engineering disposition. "Q" number is indeterminate. ? Hold the (a) applied to the re-conforming material.





Continued from Block 16

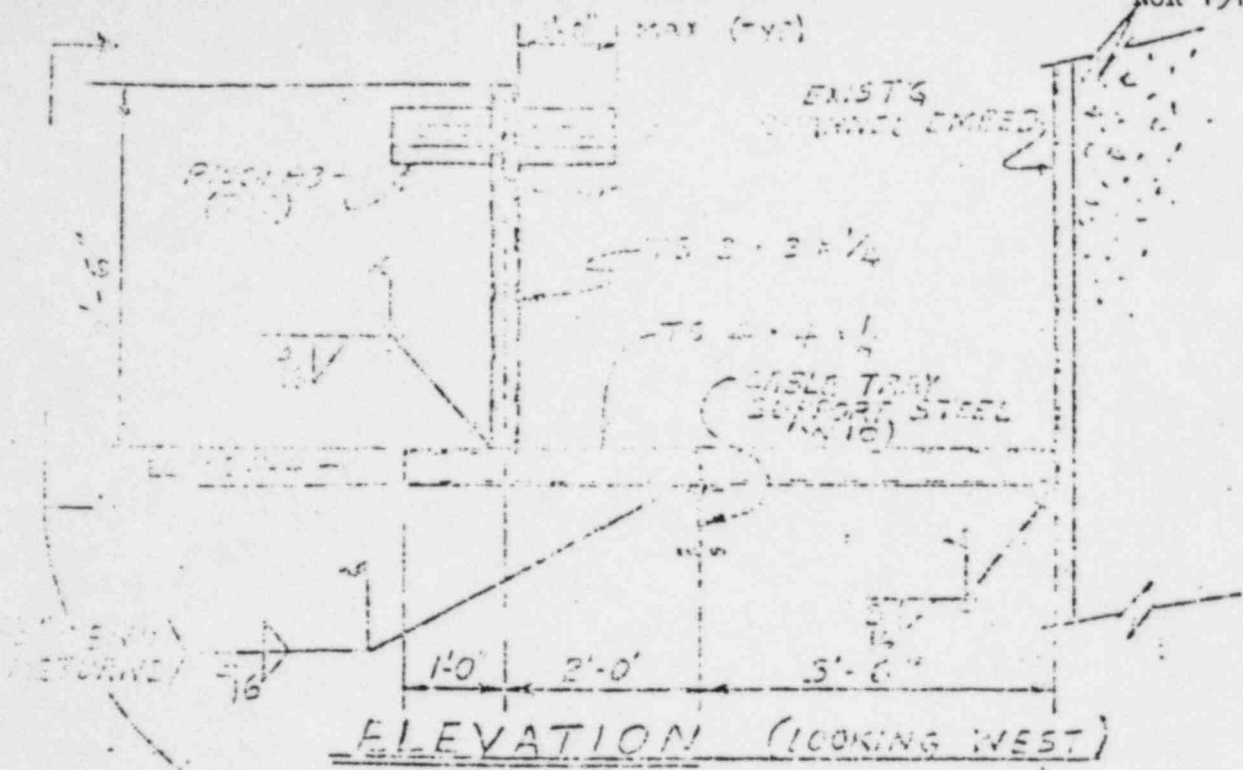
Also, Field Procedure FPD 1,000, para. 2.1.3 states: "All field Engineers and Superintendents shall be responsible for ascertaining that the work within their assignment is done in accordance with the latest revision of the drawings and project specifications."

Contrary to the above, the mentioned support was fabricated and installed prior to 1/31/79. Final inspection was called for and received by Welding Engineering on 1/31/79/ The attached drawing was used to build the support, prior to the drawing being issued for construction. It has not been issued as of this date, 2/24/79.

"Q" , st 3.006

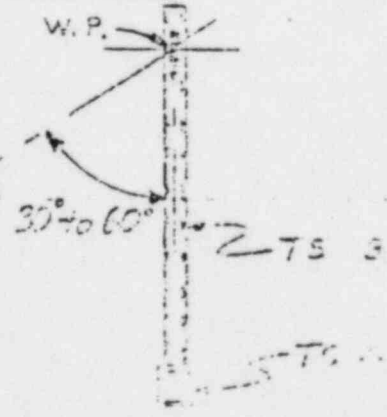
1 "HOLD" tag applied

Hold for Engineering disposition



11'-0" TO COL. 12  
(UNIT 1)

PICK UP BRACE  
(10'-0" MAX  
LENGTH)



THIS DRAWING IS A PART OF THE CONTRACT DOCUMENTS FOR THE PROJECT AND IS TO BE USED ONLY FOR THE PROJECT. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.

# TYPE 519 SUPPORT

	APPROVED FOR CONSTRUCTION REVIEWED				
	DESIGNED HEDLAND ENGINEERING CONTRACTORS FORTNA COMPANY	DRAWN	CHECKED	APPROVED	DATE
SCALE	PROJECT NO.	SHEET NO.	DRAWING NO.	7220	

NCR#

3 of 3



NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1918	20. PAGE 1 OF 3
2. UNIT(S) 1 & 2	3. DRAWING/PART NO. Tag No. 2PV-3201 5	REV N/A	4. ITEM DESCRIPTION Atmospheric Steam Dump Valves	5. ITEM LOCATION Whse. #1	
6. P.O. OR SPEC NO. 7220-J-253-AC Rev. 5	7. SERIAL NO. 17419-1-4	8. REPLACEMENT PART P/N N/A REV _____ SER NO. _____		9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Babcock & Wilcox Control Components, Inc.
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER		IR NO. R-1.00-8097 NO. J-253 Rev. 4	12. ASME AUTHORIZED INSPECTION REQ'D (X) YES ( ) NO	13. SKETCH ATTACHED (X) YES ( ) NO	14. Discovered During (X) Rec'g ( ) Const ( ) Test
15. Equip Furnished By ( ) Client (X) Eng ( ) FLD					
16. NONCONFORMING CONDITION: Item 1. Specification 7220-J-253 Rev. 4 Para. 13.3 requires a metal tag showing the following information: a.) Bechtel Purchase Order Number, b.) Bechtel Item Number, c.) Valve I.D. Number. (See attachment) Contrary to the above, the tags for the valves listed above contain the wrong item number and valve I.D. Number.				24. DISPOSITION CONCURRENCE	
				rework	reject
				repair	use as is
				<i>[Signature]</i>	<i>[Signature]</i>
				PROJECT FIELD ENGINEER	DATE
				PROJECT ENGINEER	DATE
				PROJ CONSTR QC ENGINEER	DATE
				AUTHORIZED INSPECTOR	DATE
Continued on Page 2					
17. REPORTED BY <i>[Signature]</i>		DATE 2-23-79		18. VALIDATED BY <i>[Signature]</i>	
				DATE 2/28/79	
21. ROUTING: ( ) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)					
22. <input checked="" type="checkbox"/> Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering					
Procurement Supervisor to obtain correct documentation and tags in accordance with spec. 7220-J-253.					
<i>[Signature]</i> 3-1-79					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE					
				QC ENGINEER	DATE
				AUTHORIZED INSPECTOR	DATE

Block 16 Continued

Item 2. Specification 7220-J-253 Rev. 4 Para. 15.0 & 15.2 requires results of all non-destructive examinations including a complete set of radiographs to be submitted to the buyer prior to or with shipment of the valves. Contrary to the above, no RT Film has been received for the valve listed above.

Item 3. Quality Verification Documentation & Form G-321-D have the following discrepancies: For the valve package the vendor mistakenly counted cat. # 16 (Heat treatment procedure & verification) vendor counted 2 when in fact 4 were received. Cat. # 14 (Repair Procedure and Verification) vendor counted 1 when in fact none were received. Cat. # 18.0 (Code Compliance) vendor states 3 pages in fact 4 pages were received. No mention of Cat. # 17.4 (Material Certificate of Compliance) 7 pages received.

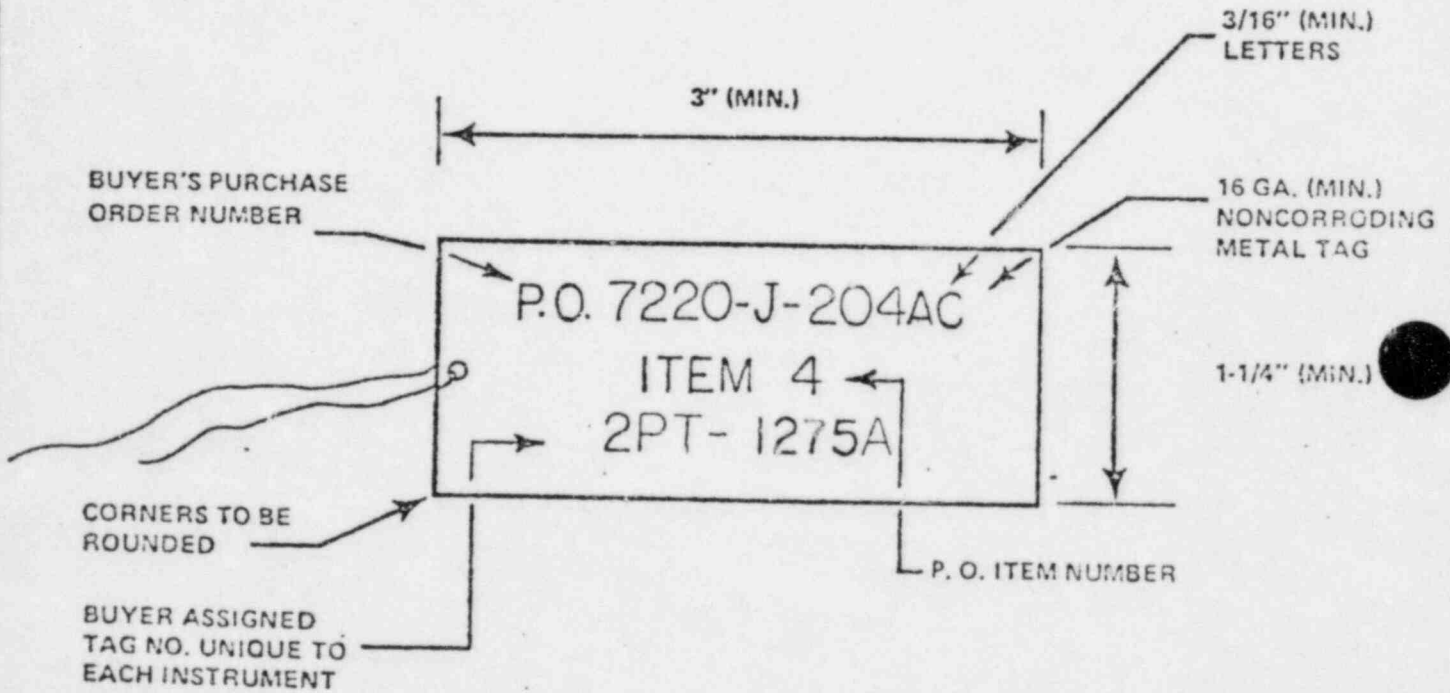
"Q" number is 5.021. Hold pending final disposition. 1 hold tag applied to the nonconforming item(s).



EACH INSTRUMENT, CONTROL VALVE, ELECTRICAL DEVICE AND LOOSE ACCESSORY SHALL BE TAGGED WITH A NONCORRODING METAL TAG AS SHOWN BELOW AND SECURELY AFFIXED TO THE INSTRUMENT BY PINS, METAL SCREWS, OR STAINLESS STEEL WIRE.

TAGGING INFORMATION SHALL INCLUDE THE BUYER'S PURCHASE ORDER NUMBER, P.O. ITEM NUMBER, AND BUYER'S IDENTIFICATION NUMBER, STAMPED ON THE TAG.

TYPICAL TAGGING INFORMATION IS SHOWN BELOW. THE SELER SHALL REFER TO THE PURCHASE ORDER FOR SPECIFIC NUMBERS TO APPEAR ON EACH TAG.



(THIS FORM IS FOR ATTACHMENT TO MATERIAL REQUISITIONS FOR INSTRUMENTS, CONTROL VALVES, MECHANICAL PACKAGE UNITS, AND EQUIPMENT CONTAINING INSTRUMENTS.)

ATTACHMENT D TO DESIGN SPECIFICATION 7220-J-253

9/25/74		Issued as Project Standard		BY <i>[Signature]</i> CHK.		DESIGN SUPV. <i>[Signature]</i>		TPO <i>[Signature]</i>	
SCALE		DESIGNED		DRAWN		OFFICE CHIEF		TPO CHIEF	
ORIGIN CS BPD/GPD TPO				<b>INSTRUCTIONS FOR INSTRUMENT TAGGING</b>		JOB NO. 7220			
						DRAWING NO.		REV.	
						7220-J-599		0	
						SHEET 1		OF 1	

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JA-10218(7/74)



NONCONFORMANCE REPORT

5/4 2-B

1. PROJECT NAME <b>MIDLAND</b>			JOB NO. <b>7220</b>			19. NO. <b>4949</b>	20. PAGE <b>LOFL</b>	
2. UNIT(S) <b>UNIT-2</b>	3. DRAWING/PART NO. <b>17613-SHA</b>	REV <b>3/ES</b>	4. ITEM DESCRIPTION <b>15 NTH 8-26-77 PIPE SPOOL 26CB 613-2-8</b>			5. ITEM LOCATION <b>APPROX 270° UNIT-2 ELEV 685'</b>		
6. P.O. OR SPEC NO. <b>N/A</b>	7. SERIAL NO. <b>N/A</b>	8. REPLACEMENT PART P/N <b>N/A</b> REV <b>N/A</b> SER NO. <b>N/A</b>		9. SOURCE <b>CONSTRUCTION</b>	10. CONTRACTOR/SUPPLIER <b>N/A</b>			
11. INSPECTION CRITERIA <input type="checkbox"/> DWG <input checked="" type="checkbox"/> SPEC <input type="checkbox"/> OTHER		IR NO. <b>RA1218-2-5</b> NO. <b>17613-REV9</b>	12. ASME AUTHORIZED INSPECTION REQ'D <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		13. SKETCH ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	14. Discovered During <input type="checkbox"/> Rec'g <input checked="" type="checkbox"/> Const <input type="checkbox"/> Test	15. Equip Furnished By <input type="checkbox"/> Client <input checked="" type="checkbox"/> Eng <input type="checkbox"/> IFLD	
16. NONCONFORMING CONDITION: <b>SPECIFICATION 7220-17604, REV 9 PARA 5.2.1 STATES IN PART: CARE SHALL BE TAKEN IN THE HANDLING AND INSTALLATION OF PIPING TO PREVENT SURFACE DAMAGE. CONTRARY TO THE ABOVE, PIPE SPOOL 26CB 613-2-8 HAS A LARGE ARC BURN APPROX 8" LONG AND 1/2" WIDE. THE ARC BURN IS FULL COPPER CLAD THIS ARC BURN IS APPROX 6" FROM THE END WITH NO 90° ELBOW ON IT. Q# 4.134 ONE Q.C. HOLD TAG APPLIED AT ARC BURN</b>					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 <b>M. W. [Signature]</b> DATE <b>2-26-79</b>					18. VALIDATED BY <b>W. J. Barclay/498</b> DATE <b>2/28/79</b>			
21. ROUTING: <input type="checkbox"/> TO FIELD ENGINEERING <input type="checkbox"/> TO OTHERS (SPECIFY)								
22. <input type="checkbox"/> Field Engineering Disposition <input type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering								
23. PROJECT ENGINEERING DISPOSITION								
					26. QC ACCEPTANCE			
					QC ENGINEER		DATE	
					AUTHORIZED INSPECTOR		DATE	

SW-EAA



### NONCONFORMANCE REPORT

1. PROJECT NAME <u>Midland</u>		JOB NO. <u>1220</u>		19. NO. <u>1920</u>	20. PAGE <u>1</u> OF <u>2</u>	
2. UNIT(S) <u>132</u>	3. DRAWING/PART NO. <u>1167</u>	REV <u>S/E</u>	4. ITEM DESCRIPTION <u>See block #16</u> <u>TEN (10) YARD PIPING LINES</u>	5. ITEM LOCATION <u>WARD PIPE</u>		
6. P.O.-OR SPEC NO. <u>1124 Rev 3</u>	7. SERIAL NO. <u>N/A</u>	8. REPLACEMENT PART P/N <u>---</u> REV <u>---</u> SER NO. <u>N/A</u>		9. SOURCE <u>CONTRACTOR</u>	10. CONTRACTOR/SUPPLIER <u>N/A</u>	
11. INSPECTION CRITERIA <input type="checkbox"/> DWG <input checked="" type="checkbox"/> SPEC <input type="checkbox"/> OTHER		IR NO. <u>---</u> # <u>16</u> NO. <u>1124 Rev 3</u>	12. ASME AUTHORIZED INSPECTION REQ'D <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	13. SKETCH ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	14. Discovered During <input type="checkbox"/> Rec'g <input checked="" type="checkbox"/> Const <input type="checkbox"/> Test	15. Equip Furnished By <input type="checkbox"/> Client <input checked="" type="checkbox"/> Eng <input type="checkbox"/> FLD
16. NONCONFORMING CONDITION: <u>SPEC. 11219, REV 3, PARA 9.6, STATES</u> <u>IMPACT: "A PIPE SHALL OR ANY PART OF THE SYSTEM</u> <u>MAY VARY FROM DESIGN POSITION UP TO A MAXIMUM</u> <u>OF 2. INCHES IN NORTH-SOUTH AND EAST-WEST</u> <u>DIRECTION AND IN ELEVATION, RELATIVE TO THE PLANT</u> <u>REFERENCE BASE LINES AND ELEVATION."</u> <u>(Block #16 CONTINUED ON PAGE 2)</u>				24. DISPOSITION CONCURRENCE		
17. REPORTED BY <u>T. Daw</u>				DATE <u>2/26/19</u>		
18. VALIDATED BY <u>W.T. Karlauff</u>				DATE <u>2/28/19</u>		
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING <input type="checkbox"/> TO OTHERS (SPECIFY)						
22. <input type="checkbox"/> Field Engineering Disposition <input type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering						
23. PROJECT ENGINEERING DISPOSITION						
25. DISPOSITION RESULTS						
26. QC ACCEPTANCE						
				QC ENGINEER	DATE	
				AUTHORIZED INSPECTOR	DATE	





NONCONFORMANCE REPORT

1. Project Name <b>Midland</b>		Job No. <b>7220</b>		19. No. <b>672</b>		20. Page <b>1</b> of <b>1</b>	
2. Unit(s) <b>Common</b>	3. Drawing/Part No. <b>A-52</b>	Rev <b>2</b>	4. Item Description <b>Broken Block Wall Dowels</b>		5. Item Location <b>Aux. Bldg, El. 599'-0"</b>		
6. P.O. Or Spec No. <b>N/A</b>	7. Serial No. <b>N/A</b>	8. Replacement Part P/N <b>N/A</b> REV <b>N/A</b> SER NO. <b>N/A</b>		9. Source <b>Construction</b>	10. Contractor/Supplier <b>N/A</b>		
11. Inspection Criteria <input checked="" type="checkbox"/> DWG <input type="checkbox"/> SPEC <input type="checkbox"/> OTHER		IN NO. <b>N/A</b> NO. <b>N/A</b>	12. ASME AUTHORIZED INSPECTION REQ'D <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		13. SKETCH ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		14. Discovered During <input type="checkbox"/> RECIG <input checked="" type="checkbox"/> CONST <input type="checkbox"/> TEST <input type="checkbox"/> CLIENT <input type="checkbox"/> ENG <input checked="" type="checkbox"/> FIELD
16. Nonconforming Condition: <b>The note on Drawing 7220-A-52 states.... Block walls 8" to 36" thick will use #5 rebar dowels at 16" spacing. Contrary to this the block wall shown on Drawing 7220-A-203 at 6' east of 7.9 and 4' north of B Line at Elev. 599'-0" has a broken dowel at the above location. The remaining dowel projection is approx. 2" beyond the construction joint. One Hold Tag Applied. "Q"-List is #1.203. Hold for Engineering Disposition.</b>				24. Disposition Concurrence <b>STD</b> <b>4/22/77</b> <b>4/24/77</b> <b>4-28-77</b>			
17. Reported By <b>Floyd C. Edwards</b>		Date <b>1/17/77</b>	18. Validated By <b>John G. Foster</b>		Date <b>1-17-77</b>		
21. Routing <input checked="" type="checkbox"/> TO FIELD ENGINEERING <input type="checkbox"/> TO OTHERS (SPECIFY)		25. Disposition Results					
22. <input checked="" type="checkbox"/> Field Engineering Disposition <input type="checkbox"/> FIELD ENGINEERING RECOMMENDED DISPOSITION TO PROJECT ENGINEERING <b>4/12/77</b>		This is not a non-conformance because Drawing A52 Note #1 for block wall dowels states: "As an alternative to embedded dowels cast into floor slab, dowels may be set into drilled holes and filled with flowable non-shrink grout after rebar is set. See Vertical Reinforcement Schedule for dowel embedment length". For the single dowel that is broken off, the field will utilize the alternative stated above to meet drawing requirements.					
23. Project Engineering Disposition <b>John G. Foster 1/21/77</b>		Work performed on I.R. C-1.10-444.					
		29. QC ENGINEER <b>John G. Foster</b> <b>2/14/79</b> DATE					
		AUTHORIZED INSPECTOR <b>D</b>					



# NONCONFORMANCE REPORT

## NONCONFORMANCE REPORT

6-7-77  
206  
3-77  
15.3

1. Project Name <b>Midland</b>		Job No. <b>7220</b>		19. No. <b>888</b>	20. Page <b>1</b> of <b>2</b>	
2. Unit(s) <b>1 &amp; 2 Common</b>	3. Drawing/Part No. <b>N/A</b>	Rev <b>N/A</b>	4. Item Description <b>Nuclear Service Butterfly Valves</b>	5. Item Location <b>Storage Whse 1 &amp; 2</b>		
8. P.O. Or Spec No. <b>M-132AC</b>	7. Serial No. <b>See Block 16</b>	8. Replacement Part <b>N/A</b>	9. Source <b>Vendor</b>	10. Contractor/Supplier <b>Henry-Pratt Company</b>		
11. Inspection Criteria <input type="checkbox"/> DWG <input checked="" type="checkbox"/> SPEC <input type="checkbox"/> OTHER		IR NO. <b>7220-G-9</b>	12. ASME AUTHORIZED INSPECTION REQ'D <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	13. SKETCH ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	14. Discovered During <input type="checkbox"/> REC'G <input type="checkbox"/> CONST <input checked="" type="checkbox"/> TEST	
15. Equip Furnished By		16. Nonconforming Condition: <b>Per Spec. 7220-G-9, Rev, 3, Figure 1, two terminal blocks are shown for distribution of the 480 volt, 3-phase, 60 Hz and 120 volt AC control supply. Also, Note 1 states: "Factory wiring - all terminals marked 'X' are connected together." Contrary to the above, the following items per serial no. do not have two terminal strips nor are the 'X' connections jumpered. Hold for Engineering Disposition</b>		24. Disposition Concurrence		
		<b>Hold for Engineering Disposition</b>		REWORK <input checked="" type="checkbox"/> REJECT <input type="checkbox"/> REPAIR <input type="checkbox"/> USE AS IS <input type="checkbox"/>		
		<b>66-88 Hold Tags applied</b>		PROJECT FIELD ENGINEER DATE <b>W. Howell 1A3D 9/21/77</b>		
		<b>Q no. 4.106, 4.116, 4.127, 4.137, 4.176, 4.186, 4.193, 4.384</b>		PROJECT ENGINEER DATE <b>W. Howell 9-19-77</b>		
17. Reported By <b>DMB</b>		Date <b>8/3/77</b>	18. Validated By <b>W. Burley</b>	25. Disposition Results <b>Closed by Duane Duckert</b>		
			Date <b>6-6-78</b>	<b>April, 1978. Back change to</b>		
21. Routing <input checked="" type="checkbox"/> TO FIELD ENGINEERING		<input type="checkbox"/> TO OTHERS (SPECIFY)		<b>Henry Pratt Lintzema</b>		
22. <input type="checkbox"/> Field Engineering Disposition		<input checked="" type="checkbox"/> FIELD ENGINEERING RECOMMENDED DISPOSITION TO PROJECT ENGINEERING		<b>OX 97910. Completed</b>		
		<b>DISPOSITION REQUIRED BY 9-19-77</b>		<b>April 1978. George J. [unclear] 2/2/79</b>		
		<b>PROJECT ENGINEERING TO RESOLVE THE DISCREPANCY BETWEEN THE SPECIFICATION, THE VENDOR DRAWING AND THE AS-BUILT CONFIGURATION OF THE ELECTRICAL TERMINATION STRIPS AND JUMPERS.</b>				
		<b>W. Green 8-5-77</b>				
23. Project Engineering Disposition		<b>"REWORK BY VENDOR AT THE JOBSITE"</b>				
		<b>Valve supplier will replace the existing 5 point terminal blocks with 6 point terminal blocks which establish the required separation between the 480 V and 120 V systems. Supplier's representative will travel to the jobsite and install the replacement terminal blocks.</b>				
		<b>SEE PROJECT ENGINEERING DISPOSITION ON PAGE 4.</b>				
		<b>Paul Galt 9-15-77</b>				
		<b>Jan 9-16-77</b>				
		26. QC Acceptance <b>W. Liborak</b>		DATE <b>2/2/77</b>		
		QC ENGINEER		AUTHORIZED INSPECTOR		

## NONCONFORMANCE REPORT (CONT'D)

20 PAGE

2

OF

4 ICE

3-8

19

NO 888

Block 16 Cont.

Item No.	Qty.	Serial No.	
<del>2.1</del>	6	16" HBC-BF-R	Sub 6-2-78
<del>2.2</del>	7	"	Sub 6-2-78
<del>2.3</del>	5	18" HBC-BF-R	Sub 6-2-78
<del>2.4</del>	4	"	Sub 6-2-78
<del>2.5</del>	4	12" HBC-BF-DR	Sub 6-2-78
<del>2.6</del>	4	"	Sub 6-2-78
3.1	1	18" HBC-BF-1MO-1610A-R	
3.2	1	18" HBC-BF-2MO-1710A-R	
3.3	1	10" HBC-BF-1MO-1620B-R	
3.4	1	10" HBC-BF-2MO-1720B-R	
<del>3.6</del>	1	14" HBC-BF-2MO-1723A-R	Sub 6-2-78
3.7	1	10" HBC-BF-1MO-1620A-R	
3.8	1	10" HBC-BF-2MO-1720A-R	
3.11	1	12" HBC-BF-1MO-1607A-R	
3.12	1	12" HBC-BF-2MO-1707A-R	
3.13	1	18" HBC-BF-1MO-1610B-R	
3.14	1	18" HBC-BF-2MO-1710B-R	
3.15	1	12" HBC-BF-1MO-1607B-R	
<del>6.1</del>	1	6" HBC-BF-R	Sub 6-2-78
<del>6.3</del>	4	8" HBC-BF-R	Sub 6-2-78
7.2	1	8" HBC-BF-2MO-1856-R	
7.4	1	8" HBC-BF-1MO-1847-R	
7.5	1	24" HBC-BF-2MO-1848-R	
7.6	1	24" HBC-BF-2MO-1858-R	
7.7	1	24" HBC-BF-1MO-1857-R	
7.8	1	24" HBC-BF-1MO-1843-R	
7.9	1	8" HBC-BF-2MO-1852-R	
7.11	1	8" HBC-BF-1MO-1842-R	
<del>8.1</del>	2	20" HBC-BF-R	Sub 6-2-78

NONCONFORMANCE REPORT (CONT'D)

20 PAGE 3

OF

4  
3  
KCS  
3-7-78  
19NCR

888

Item No.	Qty.	Serial No.	Item No.	Qty.	Serial No.
8.2	2	20" HBC-BF-R QWB 6-2-78	13.2	1	6" HBC-BF QWB 6-2-78
8.5	2	8" HBC-BF-R QWB 6-2-78	13.3	1	" QWB 6-2-78
9.1	1	20" HBC-BF-1MO-1907-R	13.4	1	" QWB 6-2-78
9.2	1	20" HBC-BF-2MO-1937-R	14.1	1	8" HBC-BF-OMO-3893-R
9.3	1	20" HBC-BF-R QWB 6-2-78	14.2	1	8" HBC-BF-OMO-3893-R
9.4	1	" QWB 6-2-78	14.3	1	8" HBC-BF-OMO-3993-R
9.5	1	" QWB 6-2-78	14.4	1	8" HBC-BF-OMO-3993B-R
9.6	1	" QWB 6-2-78			
9.10	1	6" HBC-BF-2MO-1941-RP			
9.17	1	20" HBC-BF-1MO-1903-R			
9.18	1	20" HBC-BF-2MO-1933-R			
10.1	1	10" HBB-BF-2MO-1984-R			
10.2	1	10" HBB-BF-2MO-1985-R			
10.3	1	10" HBB-BF-2MO-1982-R			
10.4	1	10" HBB-BF-2MO-1983-R			
10.5	1	10" HBB-BF-1MO-1978-R			
10.6	1	10" HBB-BF-1MO-1979-R			
10.7	1	10" HBB-BF-1MO-1980-R			
10.8	1	10" HBB-BF-1MO-1981-R			
12.1	1	6" HBC-BF-1MO-1685A-R			
12.2	1	18" HBC-BF-1MO-1687-R			
12.3	1	16" HBC-BF-1MO-1685B-R			
12.4	1	16" HBC-BF-1MO-1623A-R			
12.5	1	16" HBC-BF-1MO-1623B-R			
12.6	1	16" HBC-BF-2MO-1723A-R			
12.7	1	16" HBC-BF-2MO-1723B-R			
12.8	1	16" HBC-BF-2MO-1785B-R			
12.9	1	6" HBC-BF-2MO-1785-A-R			
13.1	1	6" HBC-BF QWB 6-2-78			



SECRET

NONCONFORMANCE REPORT (CONT'D)

PAGE 4 OF 4 5070 5777 14. NCR NO 603

Block 16 continued:

Request for Conditional Release:

The units listed herein may be conditionally released for installation or further work subject to the requirements described in paragraph 3.4 of SF/PSP G-3.2, Rev. 3 and prior to cable termination for hook-up.

AJ B... by L 8/8/77  
PFE Date

R-4 J. L. Richardson 8/8/77  
LQAE Date

Sgt M. Brody 8-8-77  
PFQCE Date

Block 23 Continued:

- "REWORK" - 1. Separation between the three 480V and the two 120V leads is required.
- 2. Valve supplier (Henry Pratt Co.) has agreed to replace the existing 5 point terminal strips with 6 point terminal strips (with the number 4 terminal electrically eliminated) to achieve this separation. This modification is acceptable to project engineering. The Supplier is also willing to provide a service representative from Limitorque to perform the work.
- 3. The Field should contact the Henry Pratt Co. and make the necessary arrangements to accomplish the required valve modifications.

R. Pope 9/6/77 jae

14000-2

White Copy	Originator
Canary Copy	Field Engineer
Pink Copy	POAF
Goldened Copy	OK

41-1-1-3

Block <sup>16</sup>~~22~~ continued.

1. Corrected copy issued to delete valves listed that do not have the terminal block as identified on the NCR, these are manual operated valves.

2. The following is a list of Motor Operated Valves which have the same problem terminal block, which were subsequently found and not recorded on the NCR.

ITEM NO.	QUANTITY	SERIAL NO.
3.16	1	12"-HBC-BF-2MO-1707B-R
7.16	1	30"-HBC-BF-OMO-1826-1-R
7.17	1	30"-HBC-BF-OMO-1826-2-R
7.18	1	30"-HBC-BF-OMO-1826-3-R
7.19	1	30"-HBC-BF-OMO-1826-4-R
9.7	1	8"-HBC-BF-2MO-1943-RP
9.8	1	8"-HBC-BF-2MO-1940-RP
9.9	1	6"-HBC-BF-2MO-1938-RP
9.11	1	8"-HBC-BF-2MO-1950-RP
9.12	1	8"-HBC-BF-2MO-1947-RP
9.13	1	6"-HBC-BF-2MO-1948-RP
9.14	1	6"-HBC-BF-2MO-1945-RP
9.19	1	8"-HBC-BF-1MO-1918-RP
9.20	1	8"-HBC-BF-1MO-1915-RP
9.21	1	6"-HBC-BF-1MO-1920-RP
9.22	1	6"-HBC-BF-1MO-1917-RP
9.23	1	8"-HBC-BF-1MO-1911-RP
9.24	1	8"-HBC-BF-1MO-1908-RP
9.25	1	6"-HBC-BF-1MO-1913-RP
9.26	1	6"-HBC-BF-1MO-1910-RP
12.10	1	10"-HBC-BF-1787-2MO-1787-R

NONCONFORMANCE REPORT

1. PROJECT NAME <b>MIDLAND</b>		JOB NO. <b>7220</b>		19. NO. <b>1053</b>	20. PAGE <b>1 of 7</b>
2. ISSUE <b>1 of 2</b>	3. DRAWING/PART NO. <b>112-4-16 Sub. 3</b>	4. ITEM DESCRIPTION <b>FIELD WELDS</b>	5. ITERATION <b>REV. 15/77</b>		
6. P.O. OR SPEC. NO. <b>24</b>	7. SERIAL NO. <b>1/4</b>	8. REPLACEMENT PART P/N <b>2/8</b> REV <b>2/8</b> SER. NO. <b>N/A</b>	9. SOURCE <b>CASTALUNA</b>	10. CONTRACTOR/SUPPLIER <b>WH</b>	
11. DEFECT/CRITERIA (a) DRAW (b) SPEC (c) OTHER		12. ASER AUTHORIZED INSPECTION REQ'D (1) YES (2) NO <b>NO. 277, 6/2/76</b>	13. SEARCH ATTACHED (1) YES (2) NO	14. Inspected During (1) Huc'g (2) Const (3) Test	15. Insp. From (1) Const (2) Equip (3) Field
16. DEFECT/FORMING CONDITION: <b>CONDITION #1: AUXILIARY BUILDING HANGER</b> <b>6-140B-15-117 REGRINATE SKETCH 1-612-4-16, FIELD WELD ATTACHING</b> <b>ITEM #1 (SWAY SERV ASSY.) TO ITEM #2 (4" M-BEAM) AT ELEVATION</b> <b>570'-9" REQUIRES A 5/8" FLAKE WELD.</b> <b>... TO THE BOW, ONE END OF THE 7" WELD BEING</b> <b>WELD BEING IN PLACE FROM SLIGHTLY OVER 5" AT THE</b> <b>END (START) OF THE WELD TO BE MEASURING APPROXIMATELY</b>			24. DISPOSITION CONCURRENCE rework   reject   repair   use as is <b>Use as is</b>		
17. REPORTED BY <b>...</b>	DATE <b>11/17/77</b>	18. VALIDATED BY <b>...</b>	DATE <b>11-15-77</b>	25. DISPOSITION RESULT <b>Use as is per drawing</b> <b>part of drawing 23</b> <b>REQUIRES NO FURTHER</b> <b>ACTION BY QC. Two (2)</b> <b>HOLD TAGS REMOVED</b> <b>J.C. Johnson 2/5/79</b>	
26. COMMENTS (a) TO FIELD ENGINEERING (b) TO OTHERS (SPECIFY) <b>CONDITION 1. "USE AS IS"</b>					
27. (1) Field Engineering Disposition (2) Field Engineering Recommended Disposition to Project Engineering <b>Disposition requested by IN/2/77</b>					
23. PROJECT ENGINEERING DISPOSITION <b>Condition 1: Hanger 1-612-4-16 Field Weld Attaching</b> <b>Item 1 to Item 2, "Use As Is". The Undersize Portion of Weld is Acceptable. See</b> <b>Final Report for MCAR-21.</b>					
<b>Condition 2: Hanger 2-604-7-3, "Use As Is". Project Civil Group Reviewed The</b> <b>Condition of Bow in the Plate and the Void Between the Plate and Embedment and</b> <b>Finds it Acceptable "As Is".</b>					
			28. DATE OF ACCEPTANCE <b>J.C. Johnson 2/5/79</b>		
			QC ENGINEER		
			AUTHORIZED INSPECTOR		
			DATE		

NONCONFORMANCE REPORT (CONT'D)

BLOCK 16 CONTINUED:

HALF WAY UP THE LENGTH OF THE WELDS (ANY ADDITION OF WELD METAL WOULD MAKE THE FILLET OVERSIZE). PROJECT ENGINEERING SPECIFICATIONS AND/OR DRAWINGS DO NOT GIVE ANY TOLERANCE ALLOWANCE FOR ACCEPTING OVERSIZE OR THE EXISTING UNDERSIZE CONDITION, IN ONE AREA.

CONDITION #2: AUXILIARY BUILDING HANGER 2 1/2-2 CCB-12-N3 ON GRINNEL SKETCH 2-604-T-3, WELD ATTACHING ITEM #1 (3/8" X 10" PLATE) TO WALL EMBEDMENT AT ELEVATION 605'-9" (ROOM 217) REQUIRES A 3/16" FILLET WELD. CONTRARY TO THE ABOVE, ITEM #1 WAS DISTORTED DURING FABRICATION RESULTING IN A SLIGHT BOW IN THE PLATE. DURING INSTALLATION, THIS BOW LEFT A VOID BETWEEN THE EMBEDMENT AND THE PLATE THAT MEASURES .075" (1.91 MM). EVEN THOUGH THE FILLET WELD MEASURES THE REQUIRED 3/16" SIZE, PROJECT ENGINEERING FURNISHED SPECIFICATIONS AND/OR DRAWINGS DO NOT STIPULATE ANY TOLERANCE ACCEPTANCE FOR THIS AS WELDED CONDITION WHEN SURFACES TO BE WELDED ARE NOT IN CONTACT.

HOLD FOR ENGINEERING DISPOSITION

8-NB H. 571

2 HOLD TAGS APPLIED to hanger assemblies.

A CONDITIONAL RELEASE IS HEREBY GRANTED TO INSTALL SUBJECT HANGERS. HANGERS ARE RETRIEVABLE AFTER INSTALLATION.

PFE [Signature] DATE 12-7-77

[Signature] PFOCE DATE 12-7-77

[Signature] PFOAE DATE 12/6/77

K204

**COMPASS COMPANY**

Alat

**NONCONFORMANCE REPORT**

1. PROJECT NAME Hid and		JOB NO. 7220		19. NO. 1074	20. PAGE 1 OF 1
2. UNIT(S) Unit 1	3. DRAWING/PART NO. HP-4-20X	4. ITEM DESCRIPTION Pipe Spool IEBB-5-363B-14-1	9. SOURCE Supplier	5. ITEM LOCATION Tomberville	
6. P.O. OR SPEC. NO. 7220-101A-AC	7. SERIAL NO. Rev. B	8. REPLACEMENT PART P/N I/A	10. CONTRACTOR/SUPPLIER TTP Grinnell, Kernersville, N.C.	15. Equip Furnished By ( ) Rec'g ( ) Const ( ) Test ( ) FLD	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC ( ) OTHER	IR NO. R-1, CO-2365 NO. M-201 Rev. 7	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES ( ) NO	13. SKETCH ATTACHED ( ) YES ( ) NO	24. DISPOSITION CONCURRENCE	
16. NONCONFORMING CONDITION: Pipe Spool piece mark no. IEBB-5-363B-14-1 Invy. No. HP-4-20X was returned to vendor to be cleaned, have rust removed and have dessicant placed inside (previously written up on MCR #650, Shipping Notice 2405). Spool was received on jobsite with dessicant inside but spool is pitted and rusting on inside. "Q" number is 4.383. Hold pending final disposition.   Hold tog(s) applied to the nonconforming item.					
17. REPORTED BY Marisa Donovan	DATE 11-28-77	18. VALIDATED BY P.M. Barelay	DATE 11-29-77	25. DISPOSITION RESULTS Spool shipped to Dow Chemical Co. for cleaning 5-4-78 on shipping labels #4449. MEO 5-10-78	
22. <input checked="" type="checkbox"/> Field Engineering Disposition <input type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering Spool must be chemically cleaned, passivated, dried with gaseous nitrogen, dessicant attached to interior side of end protector caps, and caps sealed. Obtain price from a chemical cleaning service company (local if possible) inspection and acceptance must be performed by field engineering and quality control. Spools may be stored outside, but must be on dunnage. (Block 22 Cont'D.)					
23. PROJECT ENGINEERING DISPOSITION PROJECT ENGINEERING CONCURS WITH THE FIELD ENGINEERING RECOMMENDED DISPOSITION AS STATED IN PARAGRAPH 22. COMMENTS: MORE TO BE CLEANED TO MEET SPEC. M-420 AND RECORDANCE WITH SPEC. M-420 AND RECORDANCE WITH SPEC. M-347 REV. 2					
26. QC ACCEPTANCE DATE 11/28/77 AUTHORIZED INSPECTOR DATE 11/28/77 SEE PG. 2 MEO 2-23-77					

SEE PG. 2  
MEO 2-23-77

QC ACCEPTANCE  
DATE 11/28/77  
AUTHORIZED INSPECTOR  
DATE 11/28/77  
SEE PG. 2 MEO 2-23-77

QC ACCEPTANCE  
DATE 11/28/77  
AUTHORIZED INSPECTOR  
DATE 11/28/77  
SEE PG. 2 MEO 2-23-77

QC ACCEPTANCE  
DATE 11/28/77  
AUTHORIZED INSPECTOR  
DATE 11/28/77  
SEE PG. 2 MEO 2-23-77

QC ACCEPTANCE  
DATE 11/28/77  
AUTHORIZED INSPECTOR  
DATE 11/28/77  
SEE PG. 2 MEO 2-23-77

Block 22 Cont'D).

Back charge vendor (ITT Grimell).

Wes. Gulletter 4-7-78

W. Gulletter 4/7/78

Block 5 (cont'd)

PIPE SPIGOT LOCATED IN THE VICINITY OF DESIGN LOCATION 230' EAST 47' No. OF UNIT 1  
R.R. & AIN'S AT ELEV. 600', A MILLION 3/1/78

Block 24 (cont'd)

THE BLOCK 22/23 F.E./P.E. DESIGNER IS UNACCEPTABLE FOR THE FOLLOWING  
REASONS:

- ① M-481 DOES NOT PROVIDE EXISTING ACCEPTABLE EVIDENCE (NECESSARY TO CONFIRM AND  
E I.E. "PASSAGE" IS REQUIRED ON THIS <sup>AS SHOWN</sup> ~~AS SHOWN~~ PIPE SPIGOT, THERE WILL BE  
TO BE DETAILED INSTRUCTIONS ~~AS SHOWN~~ TO PROVIDE THAT THE INSTALLED DESIGN  
ARE ACCEPTABLE.

② THE "PITTING" IN BLOCK 16 WAS NOT ADDRESSED IN THE DISCUSSION.

Not to be used  
W. Gulletter 4/7/78

Block 25 Cont'D

CLEARNESS HAS BEEN VERIFIED TO BE SATISFACTORY IN ACCORDANCE WITH SPECIFICATIONS  
M-481 AND M-342. PITS AND VALLEYS ARE ACCEPTABLE ACCORDING TO DISPOSITION

Block 26 Cont'D

QC ACCEPTANCE

QC ENGINEER

M. P. [Signature]

DATE 2-26-79

AUTHORIZED INSPECTOR

S. W. [Signature]

DATE 5-1-79

BECHTEL

NONCONFORMANCE REPORT (CONT'D)

PAGE 3 OF 4

14 NCR NO. 1074

Block 22 continued:

Response to Block 24 above: Items 1, 2, and 3

1. Level of cleanliness in accordance with Spec. 7220-M-480, Rev. 6.

2. Since P.O. did not contain detailed instructions for cleaning and passivating of the carbon steel pipe spool, verbal instructions were given to J.D. Wenger of Dowell by the writer. They are as follows:

- a) Remove iron oxide scale using a 7½% inhibited hydrochloric acid solution, by immersion or spraying.
  - b) Flush all surfaces with a copius amount of water.
  - c) Flush all surfaces with a 1% solution of sodium hydroxide.
  - d) Flush all surfaces with a 1% solution, consisting of sodium hydroxide and sodium nitrate.
  - e) Dry with gaseous nitrogen.
  - f) Cap and seal with bagged dessicant attached to interior side of protective cap.
- Note: During cleaning, flushing, neutralizing, and passivating, keep surfaces wet at all times.

3. The rusting will be removed by the cleaning process. This spool had been cleaned by the vendor (ITT Grinnell) and upon removal of mill varnish and scale, all carbon steel pipe will reveal peaks and valleys as it is not a machined surface. Therefore, this condition is normal and no detrimental effect to the pipe spool.

*Wenger 10-26-78*  
*Ward 10/26/78*

BLOCK 23 - PROJECT ENGINEERING CONCURS WITH THE FIELD ENGINEERING DISPOSITION AS DESCRIBED IN BLOCK 22 DATED 10/26/78. THE REWORK WILL BE PERFORMED AND THE CLEANLINESS LEVEL WILL BE IN ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS.

10000-2

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

*A. Edman*  
11/7/78



DOWELL DIVISION OF DOW CHEMICAL U.S.A.

INDUSTRIAL SERVICES

Midland, Michigan  
May 30, 1978

Bechtel  
3500 E. Miller Rd.  
Midland, Michigan 48640

Attn: Mr. Bruce McKenzie

One pipe spool, tag No. 1-EBB-5-S-638-14-1 was chemically cleaned and passivated to your P.O. No. 7220F28298. After cleaning it was inspected and passed by your inspector at our facility in Midland, Michigan.

*James D. Wenger*

Sincerely,  
James D. Wenger  
Service Manager  
Dowell



NONCONFORMANCE REPORT (CONT'D)

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
X			
<u>[Signature]</u>		11-7-78	
PROJECT FIELD ENGINEER		DATE	
<u>S. R. Basim/RBC</u>		11-7-78	
PROJECT ENGINEER		DATE	
<u>[Signature]</u>		11-9-78	
PROJECT CONSTR QC ENGINEER		DATE	
<u>[Signature]</u>		11/10/78	
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	
AUTH	INSPECTOR	DATE	

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

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

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

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

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

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

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

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



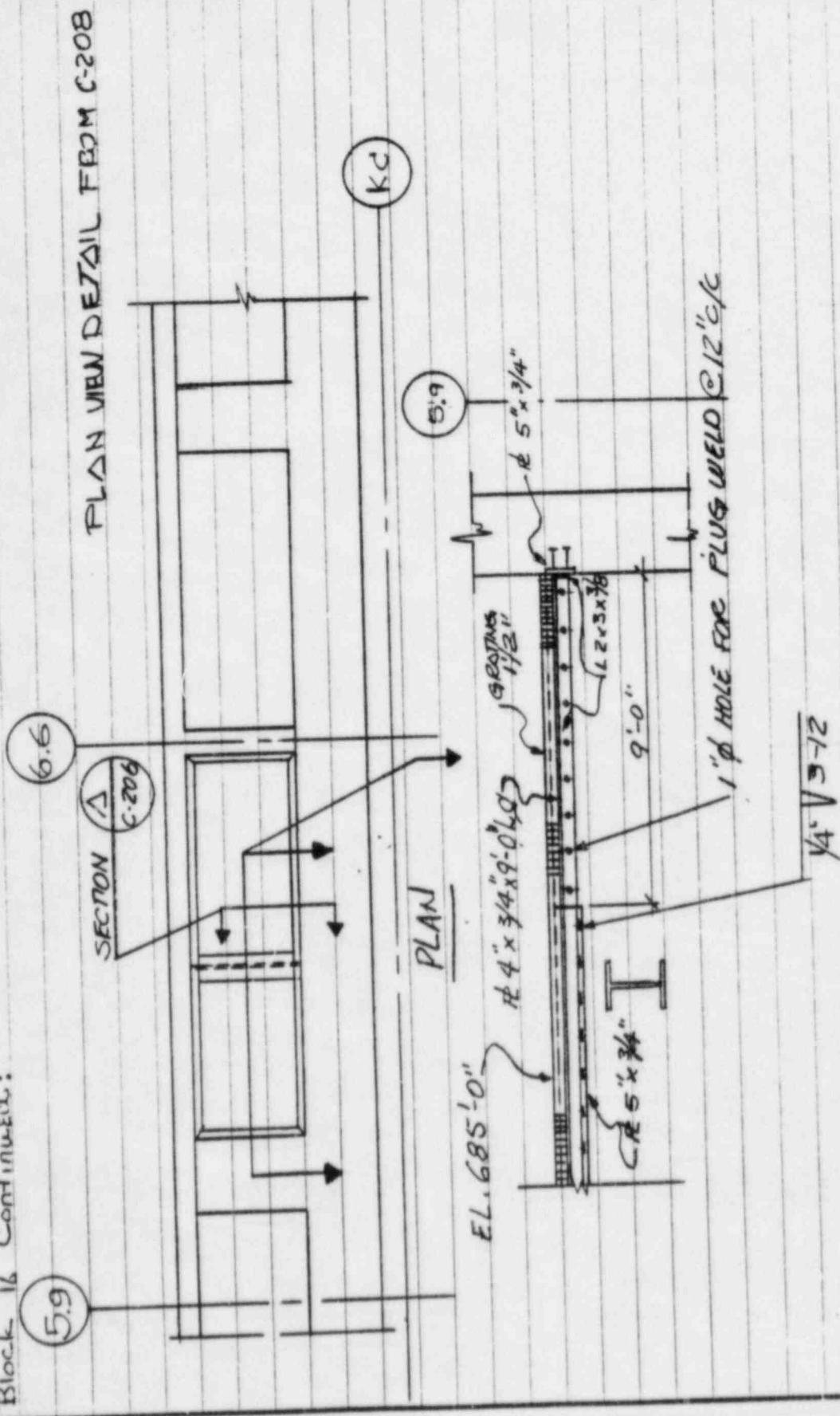


NONCONFORMANCE REPORT

1. Project Name Midland		Job No. 7220		19. No. 1213		20. Page 1 of 2			
2. Unit(s) COMMON		3. Drawing/Part No. C-208, C-206		4. Item Description Support angle for grating		5. Item Location Aux. Bldg. El. 685'-0"			
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			
11. Inspection Criteria <input checked="" type="checkbox"/> DWG <input type="checkbox"/> SPEC <input type="checkbox"/> OTHER		IR NO. N/A NO. C-208		12. ASME AUTHORIZED INSPECTION REQ'D <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		13. SKETCH ATTACHED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
14. Discovered During		15. Equip Furnished By		24. Disposition Concurrence					
16. Nonconforming Condition:		Drawing C-208 Q Rev. 4 calls for embedded Plate 5" x 3/4" located on north face of KC line wall between lines 5.9 & 6.6. Contrary to the above, a 4" x 3/4" <del>PI</del> Plate has been installed as shown on attached sketch. The existing condition results in the inability to weld bottom of grating support angle, that is called out on drawing C-206, section A. Q-list No. 1.202. One hold tag applied. Hold for engineering disposition. Hold tag applied ON "Kc" LINE WALL BETWEEN "5.9" & "6.6" LINES. J.E.M. 2/13/78.		REWORK		REJECT		REPAIR	
17. Reported By GENE PASZOS		Date 02/09/78		18. Validated By J. Barely		Date 2-9-78		USE AS IS	
21. Routing <input checked="" type="checkbox"/> TO WELD ENGINEERING		25. Disposition Results EXISTING CONDITION BLOCK 23 FOUND SATISFACTORY QC IR C-304-1103W. ONE HOLD TAG REMOVED NO FURTHER ACTION REQUIRED		PROJECT FIELD ENGINEER DATE 2-15-78		PROJECT ENGINEER DATE 2-11-78		PROJECT CONSTR. ENGINEER DATE	
22. <input type="checkbox"/> Field Engineering Disposition		<input checked="" type="checkbox"/> FIELD ENGINEERING RECOMMENDED DISPOSITION TO PROJECT ENGINEERING		AUTHORIZED INSPECTOR		DATE			
Field Engineering Recommended: Substitution of plug weld of 1" Ø @ 12" O/C for bottom weld, that is 1/4"x3" @ 12" O/C.		NOTE: See attached sketch.		26. QC Acceptance DATE 2-24-79		2-21-79			
DISPOSITION REQ'D BY 2-13-78.		2/9/78		2/9/78		2/15/78			
23. Project Engineering Disposition		Project Engineering has reviewed the existing condition of the embedded 3/4" x 4" plate as reported in block #16 and concurs with the Field Engineering recommended disposition in block #22 including "use-as-is" for the plate. Structural capacity of the modified connection is adequate and no safety implications are involved.		AUTHORIZED INSPECTOR		DATE			
ACM-C-1230		2-15-78		2-24-79		2-21-79			

NONCONFORMANCE REPORT (CONT'D)

Block 16 Continued:





### NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220			19. NO. 1326	20. PAGE 1 OF 2	
2. UNIT(S) 1	3. DRAWING/PART NO. C-381	REV 5	4. ITEM DESCRIPTION Welding Beams to Embeds		5. ITEM LOCATION Cont. #1 El. 605'		
6. P.O. OR SPEC NO. NA	7. SERIAL NO. NA	8. REPLACEMENT PART P/N NA REV NA SER NO. NA		9. SOURCE Const.	10. CONTRACTOR/SUPPLIER NA		
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER		IR NO C-304-283W NO. C-304	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO		13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Rec'g (X) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FLD
16. NONCONFORMING CONDITION: Per Engineering Specification C-304, Section 6.2, "Welds shall conform to the Visual Inspection acceptance criteria of AWS D1.1 except as specified with the following tolerances: Pr. 6.2.1(a), "Minimum Fillet Weld sizes shall be per AWS D1.1, Section 8.15.1.6 "Fillet Welds in a single continuous weld shall be permitted to underrun the nominal Fillet size required by 1/16" without correction provided that the undersize weld does not exceed 10% of the length of the weld".					24. DISPOSITION CONCURRENCE rework <input checked="" type="checkbox"/> reject <input type="checkbox"/> repair <input type="checkbox"/> use as is <input type="checkbox"/>		
17. REPORTED BY R. M. [Signature] 4-24-78			18. VALIDATED BY [Signature] 4-24-78		25. DISPOSITION RESULTS REWORK WAS SATISFACTORILY ACCOMPLISHED PER DISPOSITION OF BLOCK 22 AND DOCUMENTED ON QCIR C-304-283Wa. TWO HOLD TAGS REMOVED. J.C. Wilson 2-4-79		
21. ROUTING: ( ) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)							
22. (X) Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering The under sized welds are to be repaired in accordance with specification C-304-3 Section 11.2. [Signature] 4-26-78 [Signature] 4-26-78							
23. PROJECT ENGINEERING DISPOSITION							
					26. QC ACCEPTANCE [Signature] 2-4-79 QC ENGINEER DATE		
					AUTHORIZED INSPECTOR DATE		

Block 16 continued:

Contrary to the above, I Beam #512B3 and #512B4 (W36x230) welded angle iron connection Fillet Weld Leg measured 1/16" undersize over 90% of the total length of the weld.

Q-list number # 1.102

2 Hold tags applied to the beams

Hold for Engineering Disposition



NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1370	20. PAGE 1 OF 2		
2. UNIT(S) Common	3. DRAWING/PART NO. See Block 16	REV N/A	4. ITEM DESCRIPTION Nuclear Wye Strainers	5. ITEM LOCATION QC Hold, Whse. # 1			
6. P.O. OR SPEC. NO. 7220-M-336 AC Rev. 0	7. SERIAL NO. See Blk. 16	8. REPLACEMENT PART P/N N/A REV _____	9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Leslie Company			
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER		IR NO. R-1,00-3133 NOL-336 Rev. 2	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 ( ) Chart (X) Eq. ( ) FLD	
16. NONCONFORMING CONDITION: Item # 1. Specification 7220-M-336 Rev. 2 para. 12.0 MARKING AND IDENTIFICATION states in part: "The tags shall be secured to the strainer by stainless steel wire, tack welding, or corrosion-resistant screws tapped into the strainer body so as not to encroach upon the minimum wall thickness or impair the structural integrity or functional capability of the strainer..." Contrary to the above, upon receipt inspection of wye strainers 1Y3-5201A, 2Y3-5711A the code data				24. DISPOSITION CONCURRENCE			
				rework	reject	repair	use as is
				PROJECT FIELD ENGINEER DATE PROJECT ENGINEER DATE PROJECT CONSTRUCTION ENGINEER DATE AUTHORIZED INSPECTOR DATE			
17. REPORTED BY Dennis J. Dulaney		DATE 6/2/78	18. VALIDATED BY D. J. Barclay		DATE 6-2-78	25. DISPOSITION RESULTS Item 3. Corrected documentation received and accepted. Dennis J. Dulaney 1/23/79	
21. ROUTING ( ) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)							
22. (X) Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering		Procurement Supervisor (1) to contact vendor for instructions to reapply code data plates, (2) to remove Bechtel tags and replace on strainers to concur with code data plates and (3) to contact vendor to supply correct documentation per Specification 7220-M-336 Rev. 2.					
23. PROJECT ENGINEERING DISPOSITION		D. J. Barclay 7/6/78 J. H. ... 7/14/78					
		26. QC ACCEPTANCE					
		QC ENGINEER D. J. Barclay				DATE 7/21/78	
		AUTHORIZED INSPECTOR				DATE	

Continued Block 16

plates were found detached from the strainers.

Item # 2. Upon receipt inspection of wye strainers LYS-0301B and 2YS-0401A it was found that the strainers were incorrectly identified as such: for strainer LYS-0301B the Bechtel tag reads 2YS-0401A, S/N D12482-AGB and the Code Data Plate reads S/N D12482-AGA. For strainer 2YS-0401A the Bechtel Tag reads LYS-0301B, S/N D12482-AGA and the Code Data Plate reads S/N D12482-AGB.

Item # 3. Column 8 of the G-321-D forms were incorrectly filled out by the vendor for 18 wye strainers with tag numbers LYS-0301A, B; 2YS-0401A, B; LYS-5201A, B; OYS-5710 and OYS-5712; LYS-5709A, B, C, D; 2YS-5711A, B, C, D; LYS-3803 and 2YS-3903.

"n" numbers are indeterminate. Hold pending final disposition. 18 hold tag(s) applied to nonconforming item(s).







NONCONFORMANCE REPORT

S/W N/A 19. NO. 1469 20. PAGE 1 OF 2 805 2-21-79

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1469	20. PAGE 1 OF 2
2. UNIT(S) Indeter- minate	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION 2 Pcs. 2 1/2" 45° Carbon Steel Elbows ASME SA 234	5. ITEM LOCATION QC Hold, Whse. #1	
6. P.O. OR SPEC NO. 7220-F-26182	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		IR NO. R-1.00-3444 NO.M-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 M-215 Rev. 1 Para. 3.0 requires marking in accordance with ASME B & PV code Section III. ASME Section III requires the manufacturers name and heat number to be marked on each piece. Contrary to the above, manufacturers name and heat number are illegible. "Q" number is indeterminate. Hold pending final disposition. <u>2</u> hold tag(s) applied to the nonconforming item(s).		
17. REPORTED BY Tim Christoffersen 8/11/78			18. VALIDATED BY J. S. Bareley 8-14-78		
21. ROUTING: ( ) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)			24. DISPOSITION CONCURRENCE rework reject repair use as is X PROJECT FIELD ENGINEER DATE 8-17-78 PROJECT ENGINEER DATE 8-21-78 PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE		
22. (X) Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering  Procurement Supervisor to return Non-conforming material.  Procurement Supervisor to obtain replacement for non-conforming material from vendor. Place Non-conforming material in Non "Q" stock.			25. DISPOSITION RESULTS 2 pcs. replaced on QC IR-R-100-9001 MJM 2-22-79		
23. PROJECT ENGINEERING DISPOSITION  K. Ward 8/17/78			26. QC ACCEPTANCE Michael J. Moore 2-22-79 QC ENGINEER DATE AUTHORIZED INSPECTOR DATE		



NONCONFORMANCE REPORT (CONT'D)

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
	X		
<i>[Signature]</i>		11-7-78	
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
<i>[Signature]</i>		11-10-78	
PROJECT CONST QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

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

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

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONST QC ENGINEER		DATE	
AUTHI	ED INSPECTOR	DATE	

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

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

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

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

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

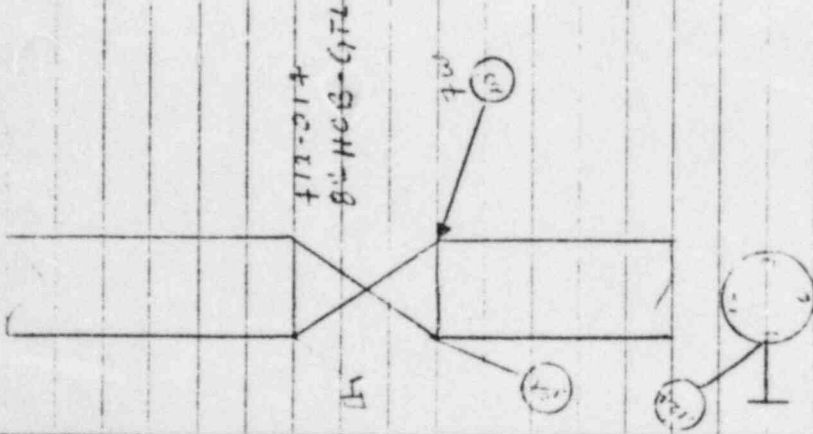
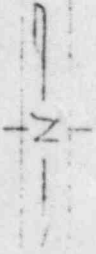
24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONST QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

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

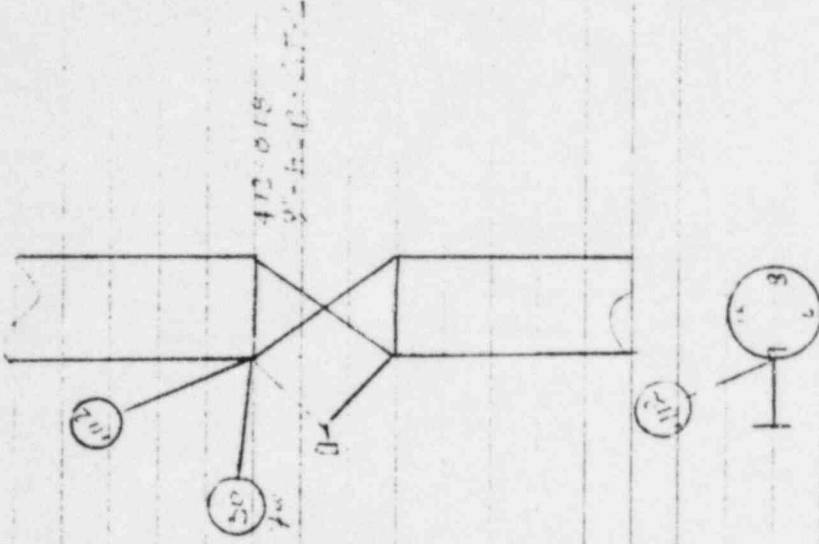
24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
PROJECT CONST QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

# NONCONFORMANCE REPORT

1. PROJECT NAME <b>Midland</b>		JOB NO. <b>7220</b>		19. NO. 1500	20. PAGE 1 OF 2	
2. UNIT(S) <b>1+2</b>	3. DRAWING/PART NO. <b>612-5 &amp; 613-6</b>	REV <b>9/2/78</b>	4. ITEM DESCRIPTION <b>TWO (2) SPOCKS</b>	5. ITEM LOCATION <b>Box - B&amp;P - EL-614</b>		
6. P.O. OR SPEC NO. <b>N/A</b>	7. SERIAL NO. <b>N/A</b>	8. REPLACEMENT PART P/N <b>3.9</b> REV <b>N/A</b> SER NO. <b>N/A</b>	9. SOURCE <b>Conservation</b>	10. CONTRACTOR/SUPPLIER <b>N/A</b>		
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC ( ) OTHER		IR NO. <b>See Proc 16</b> NO. <b>M-207</b>	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES ( ) NO	13. SKETCH ATTACHED ( ) YES ( ) NO	14. Discovered During ( ) Rec'g ( ) Const ( ) Test	15. Equip Furnished By ( ) Chem ( ) Eng ( ) FLD
16. NONCONFORMING CONDITION: <i>Specification Min. R. I. Castleberry Part 5.2.6 States that the wall thickness for fabricated assemblies is equal to fabricated wall or at least 80% of the nominal wall thickness for pipe specified by ASME B31.1. Spock pieces, HCB-14-5-2-2-2 &amp; HCB-14-613-6-1 have nominal wall thickness of 8" minimum wall thickness is 12.25" contrary to the above V.I. Measurements indicate wall thickness must be made to be less than the minimum allowable wall thickness. (See sketch)</i>			24. DISPOSITION CONCURRENCE			
17. REPORTED BY <b>L. W. Hamler</b>			18. VALIDATED BY <b>J. W. Barclay</b>			
DATE <b>8/25/78</b>			DATE <b>1-30-78</b>			
21. ROUTING: ( ) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)			25. DISPOSITION RESULT: <b>Accepted in accordance with Engineering Use As Is disposition.</b>			
22. <input checked="" type="checkbox"/> Field Engineering Disposition <input checked="" type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering			<p><b>Field Engineering Recommends "use as is."</b></p> <p><i>W. Hamler 1/11/78</i></p> <p><i>Midland 1/14/78</i></p>			
23. PROJECT ENGINEERING DISPOSITION Project Engineering concurs with the Field recommendation to "use as is" because the actual wall thickness exceeds the calculated pressure retaining minimum allowable wall thickness of 8" class HCB pipe of 0.111 inches given in the R. I. Castleberry to J. F. Newgen IOM BEBC-2657, dated 1/23/79.						
26. OC ACCEPTANCE <b>A. S. Seltzer</b>			DATE <b>2/6/79</b>			
OC ENGINEER <b>A. W. Hamler</b>			DATE <b>2/1/79</b>			
AUTHORIZED INSPECTOR			DATE			



ITEM # 4.124  
 1420-175-612-2, MF63-100  
 I.R. P-10-612-6-6  
 CONTINUATION OF BLACK LOG  
 HOLD TAPS (A) SHOW TO AT LOCATION OF NONCONFORMANCE  
 ON PIPE.



ITEM # 4.14  
 1420-175-612-6, MF63-100  
 I.R. P-10-612-6-6



### 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 Q.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 <input type="checkbox"/> DWG <input checked="" type="checkbox"/> SPEC <input type="checkbox"/> OTHER		IR NO. R-1.00-3500 NOJ-201 Rev. 4	12. ASME AUTHORIZED INSPECTION REQ'D <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	13. SKETCH ATTACHED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	14. Discovered During <input checked="" type="checkbox"/> Rec'g <input type="checkbox"/> Const <input type="checkbox"/> Test	15. Equip Furnished By <input type="checkbox"/> Const <input checked="" type="checkbox"/> Eng <input type="checkbox"/> 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". "O" number is 5.031. Hold pending final disposition. 1 hold tag(s) applied to the nonconforming item(s).				24. DISPOSITION CONCURRENCE rework reject repair use as is Doc 9-12-78 PROJECT FIELD ENGINEER DATE 9-17-78 PROJECT ENGINEER DATE PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE		
17. REPORTED BY Dean A. Delaney 8/31/78		18. VALIDATED BY J.A. Barclay 9-1-78		25. DISPOSITION RESULTS DOCUMENTATION RECEIVED & ACCEPTED. Dean A. Delaney 2/20/79		
21. ROUTING: <input type="checkbox"/> TO FIELD ENGINEERING <input type="checkbox"/> TO OTHERS (SPECIFY)						
22. <input checked="" type="checkbox"/> Field Engineering Disposition <input type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering Field Procurement Supervisor is to obtain the required documentation from the vendor. R. J. Lutz 9-11-78						
23. PROJECT ENGINEERING DISPOSITION						
				26. DC ACCEPTANCE Dean A. Delaney 2/20/79 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





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.

# Corrected Copy

5 KED  
3-5-78  
KCB  
10-11-78  
10-10-78  
2-10-78

## NONCONFORMANCE REPORT

1. PROJECT NAME <b>MIDLAND</b>		JOB NO. <b>7220</b>		19. NO. 1560	20. PAGE 1 OF 2		
2. UNIT(S) <b>1 &amp; 2</b>	3. DRAWING/PART NO. <b>1P-05B &amp; 2P-05B</b>	REV <b>N/A</b>	4. ITEM DESCRIPTION <b>STEAM DRIVEN AUX. FEEDWATER PUMPS</b>	5. ITEM LOCATION <b>AUX. BLDG. INSTALLED EL. 584</b>			
6. P.O. OR SPEC NO. <b>N/A</b>	7. SERIAL NO. <b>N/A</b>	8. REPLACEMENT PART P/N <b>N/A</b> REV _____ SER NO. _____		9. SOURCE <b>CONSTRUCTION</b>	10. CONTRACTOR/SUPPLIER <b>N/A</b>		
11. INSPECTION CRITERIA <input checked="" type="checkbox"/> DWG ( ) SPEC ( ) OTHER		IR NO. <b>M.100-1/2P-05</b>	12. ASME AUTHORIZED INSPECTION REQ'D <input checked="" type="checkbox"/> YES ( ) NO	13. SKETCH ATTACHED ( ) YES <input checked="" type="checkbox"/> NO	14. Discovered During ( ) Rec'g <input checked="" type="checkbox"/> Const ( ) Test	15. Equip Furnished By ( ) Client <input checked="" type="checkbox"/> Eng ( ) FLD	
16. NONCONFORMING CONDITION: <b>VENDOR'S DWG. NO. 7220-M14-16-7</b> <b>SPECIFIES PEDUSTAL HOLD DOWN BOLT HOLES TO BE 3/4" DIAMETER. CONTRARY TO THIS HOLES HAVE BEEN DRILLED TO 7/8" DIAMETER.</b> <b>Q-LIST NO. 4.382 2 HOLD TAGS APPLIED TO THESE PUMPS</b>				24. DISPOSITION CONCURRENCE			
				rework	reject	repair <input checked="" type="checkbox"/>	use as is
				PROJECT FIELD ENGINEER DATE <i>[Signature]</i> 9-29-78 PROJECT ENGINEER DATE <i>[Signature]</i> 9-29-78 CONST. AC ENGINEER DATE AUTHORIZED INSPECTOR DATE			
17. REPORTED BY <i>[Signature]</i>	DATE <b>9-25-78</b>	18. VALIDATED BY <i>[Signature]</i> DATE <b>10-11-78</b>		25. DISPOSITION RESULTS			
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)		Field Engineering Disposition <input checked="" type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering Disposition Recommended by: <b>10-4-78</b>		PEDUSTAL HOLD DOWN BOLT HOLES REPAIRED PER BLOCK #23 DISPOSITION <i>[Signature]</i> <b>2-8-79</b>			
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.				Welding complete <i>[Signature]</i> <b>2-8-79</b>			
23. PROJECT ENGINEERING DISPOSITION Project Engineering concurs with Field Engineering disposition and the method of <u>repair</u> 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. ACCEPTANCE <i>[Signature]</i> DATE <b>2-8-79</b> OC ENGINEER DATE <b>2-8-79</b> AUTHORIZED INSPECTOR DATE			

9-27-78

*[Signature]*  
9/28/78

41 KCB 10-10-78

Block 22 continued;

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

Ward 9/27/78

Corrected Copy

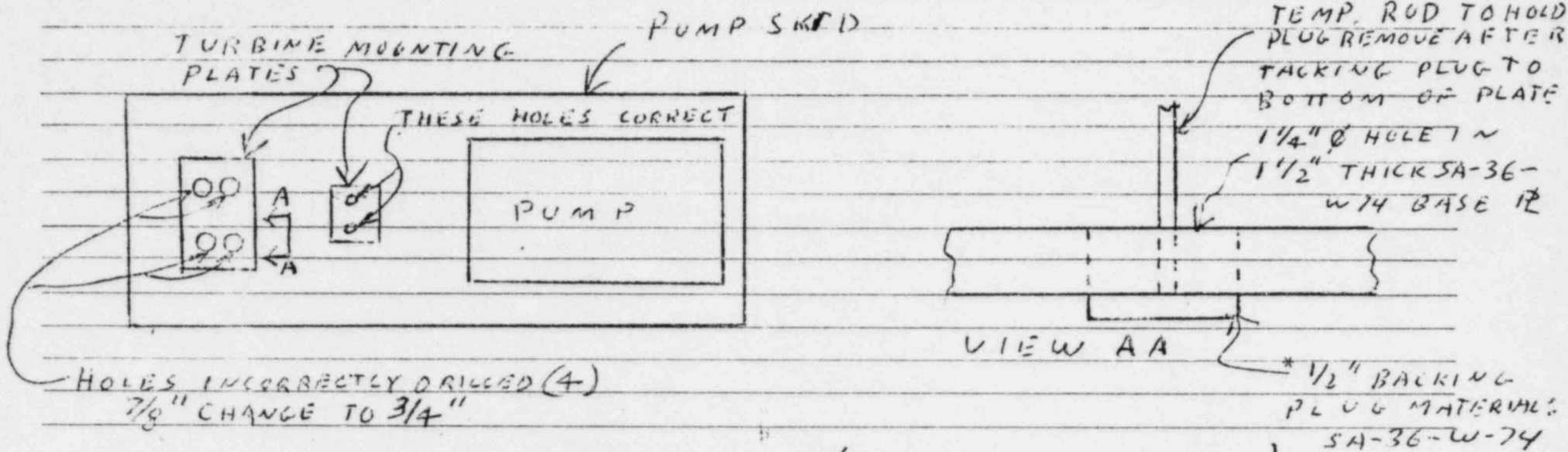


FIG A (TYP 1+2 P05 B)

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

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

ATTACHMENT TO NCR. NO. 1560

*10/11/78 M-14*



TECHTEL WIDL

BING WILL DV  
CT 10/20/78  
FROM: MR. SKIP SCHMIDTCH  
REF: P.O. 7220-M-14-AC  
BWC 15210276/9

CONVERSING TELEPHON TODAY WITH OUR 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  
TERRY 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 ACCOMODATE YOUR SITE  
NEEDS SHOULD BE EMPLOYED.

R.H. LOGAN

BING WILL DV

NCR 1560

Page 3 of 3

X

KEB

10-11-78  
5 KAR 3-5-78

Corrected Copy

BLOCK #16 - CONTINUATION  
REFERENCE: PUMP # 2P-05B

CONTRARY TO THE DISPOSITION STATED IN BLOCK #22 & 23 AND AFTER WELDING REPAIR WAS COMPLETE AND ACCEPTED BY QUALITY CONTROL THE HOLES (4 EA.) WERE INCORRECTLY RETAPPED TO 7/8" DIAMETER INSTEAD OF 3/4" DIAMETER AS SPECIFIED IN VENDOR TELETYPE NO. 15210278/9. HOLES HAVE SINCE BEEN REDRILLED TO 1/4" DIAMETER AND NEW BACKING PLATES HAVE BEEN TACKWELDED IN POSITION. ALSO NEW BACKING PLATES CAN NOT BE IDENTIFIED AS SA-36-W-74 MATERIAL BY QUALITY CONTROL.

*Frank Mabeles*  
10-11-78

Continued Copy

Block 22 Continued:

Identified backing plates to be removed and holes to be repaired per disposition outlined in original

block 22. *10/12/78*

BLOCK 23:

PROJECT ENGINEERING CONCURS WITH THE FIELD ENGINEERING DISPOSITION PAISED 10/12/78 THAT THE PUMP FEEDSTAY SHOULD BE REPAIRED TO CONFORM TO PROJECT ENGINEERING DISPOSITION PAISED 2/28/76.

*[Signature]*  
10/24/78



NONCONFORMANCE REPORT (CONT'D)

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
		X	
<i>Boor</i>		10/24/78	
PROJECT FIELD ENGINEER		DATE	
<i>K. D. ...</i>		10-24-78	
PROJECT ENGINEER		DATE	
<i>...</i>		10-25-78	
PROJECT CONSTR QC ENGINEER		DATE	
<i>...</i>		10/25/78	
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	
AUTHO	D INSPECTOR	DATE	

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

24. 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 (CONT'D)

Block 16 Continued

<u>P.O. No.</u>	<u>P.O. Item #</u>	<u>Shipping Notice #</u>	<u>NPSI MIC #</u>	<u>Amt. Rec'd</u>	<u>Description</u>
F-29361 Q	12	7238/NAP	Not Specified	4	6" x 5/8 U-bolt, ID 8 3/16" DL 2'-4"

Hold pending final disposition. 1 hold tag applied. "Q" number is indeterminate.





Block 16 Continued

2. 1T-41B, S/N N-2414.20 - An incorrect heat number is shown on the Heat Number Chart and Welding Control Sheets.
3. 2T-41A, S/N N-2414.30 - An incorrect heat number is shown on the Heat Number Chart and Welding Control Sheets.  
No Welding Qualification Verification Report has been provided for Welder stamp # 54.
4. 2T-41B, S/N N-2414.40 - An incorrect heat number is shown on the Heat Number Chart and Welding Control Sheets.  
A Welding Control Sheet also shows a Ht. # E 6951 for which no MTR has been provided. Weld Map shows welder stamp # 54 for which there is no Welding Qualification Verification Report.

"Q" numbers are 4.213 & 4.223. Hold pending final disposition. 4 hold tag(s) applied to the nonconforming item(s).



### NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1618	20. PAGE 1 OF 2	
2. UNIT(S) Common	3. DRAWING/PART NO. See Block #16	REV	4. ITEM DESCRIPTION Anchor Bolts for Elec. Panels	5. ITEM LOCATION Aux. El. 659' Control Rm.		
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE Construction	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (x) OTHER		IR NO. N/A NO. W-1.00B R. 6	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (x) NO	13. SKETCH ATTACHED ( ) YES (x) NO	14. Discovered During ( ) Rec'g (x) Const ( ) Test	15. Equip Furnished By ( ) Client (x) Eng ( ) FLD
16. NONCONFORMING CONDITION: QCI 7220/W-1.00 Rev. 6, Para "b" states that fillet and other attachment welds shall be identified by individual weld numbers on the QCI inspection record (IR) W-1.00B or by a specifically defined group of welds through reference to a marked up drawing or sketch attached to the QCI inspection record (IR) W-1.00B.  Contrary to the above, mounting plates are being installed as per FCR M-1405 (which is to drawing No. M1.32) without an issued QCIR for				24. DISPOSITION CONCURRENCE rework reject repair use as is  [Signature] 2-14-79 PROJECT FIELD ENGINEER DATE [Signature] 2-13-79 PROJECT ENGINEER DATE [Signature] 2-17-79 PROJ CONSTR QC ENGINEER DATE  AUTHORIZED INSPECTOR DATE		
17. REPORTED BY C. Hoat	DATE 11-1-78	18. VALIDATED BY [Signature]	DATE 11-1-78	25. DISPOSITION RESULTS "USE AS IS" DISPOSITION PER BLOCK 23 REQUIRES NO FURTHER ACTION. ALL 5x(6) HOLD TAGS REMOVED. [Signature] 2/17/79		
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)						
22. ( ) Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering  "Use As Is" based on the following: (A) Welders who worked on the items in question, J. Clarady, E-17 and J. Morrison, E-85 were both qualified in accordance with ASME Sec. IX (B) WR-6 filler metal withdrawal authorizations were used to control the weld rod, E-7018, which is the correct rod to be used for the work involved. These were written against QCIR C-304-930W. (C) Visual inspection of the						
23. PROJECT ENGINEERING DISPOSITION (Con't pg 2)  Project Engineering concurs with the field recommendation to "use as Is" because the welder was qualified in accordance with ASME Section IX, the weld rod E-7018 was correct for the work involved and visual inspection has shown that the welds were of acceptable quality. [Signature] 2/12/79 [Signature] 2/13/79						
				26. QC ACCEPTANCE [Signature] 2/17/79 QC ENGINEER DATE	AUTHORIZED INSPECTOR DATE	

Block 16 continued:

installation, which is in conflict with Spec. G-27, Para. 3.3 (Instructions for use of Form ER-6 Rev.0).  
Weld electrodes for the above installation were issued on QCIR C-304-930W.

Hold for Engineering Disposition

<sup>10-19-78</sup>  
6 2 Hold Tags Applied

Block 16 Cont.

A conditional release is granted to allow installations of Electrical panels 1C041, 2C041, 1C042, 1C045, 2C042, and 2C045. Corrections or removal can be accomplished without causing damage or contamination to plant equipment or structure.

J. J. Schmitt  
PFE

11/2/78  
Date

D. W. Barclay  
KR PFQE

11-2-78  
Date

BSE

PQAE

L. A. Dressbach

11-2-78

Date

Block 22 Con't.

welds showed them to be acceptable in accordance with project specifications.

K. Bishop 2/1/79  
D. Williams 7/1/79



# NONCONFORMANCE REPORT

# Copy 1 Copy

1. PROJECT NAME Midland Units 1 & 2		JOB NO. 7220			19. NO. 1619	20. PAGE 1 OF 2
2. UNIT(S) Common	3. DRAWING/PART NO. 0-616-1-1 0-618-1-15, 0-618-1-16	REV	4. ITEM DESCRIPTION Pipe Support Hangers	5. ITEM LOCATION S/W Bldg.		
6. P/O OR SPEC NO. M-326	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO N/A		9. SOURCE Construction	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER		IR NO See page 2 NO See page 2	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Rec'g (X) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FL D
16. NONCONFORMING CONDITION: Per Engineering Specification G-27, WD-1M Filler Material Control, Par. 3.3.1, Item (3), "Welding Procedures and Rev. No. .... This information is obtained from Welding Process Control Checklist/QCIR". Contrary to the above, the subject hangers were installed by welding, prior to a welding QCIR being issued. Filler material was issued on "Q" No. 7.183 4 7 Hold Tags Applied JOK 11/2/78				24. DISPOSITION CONCURRENCE rework reject repair use as is J. Williams / R/C 2/6/79 PROJECT FIELD ENGINEER DATE K. Barmann / R/C 2-6-79 PROJECT ENGINEER DATE PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE		
17. REPORTED BY E. Dyer	DATE 11/1/78	18. VALIDATED BY J. Barmann		DATE 11-2-78	25. DISPOSITION RESULTS QCIR'S WERE OPENED FOR DOCUMENTATION & INSPECTION FOR HANGERS LISTED. ALSO "REWORK" PER BLOCK # 32 (REVISION) PAGE NO. 2, WAS COMPLETED AND DOCUMENTED ON ISSUED IR'S. K. Barmann 1/25/79 J. Barmann 1/25/79	
21. ROUTING: (X) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)			22. ( ) Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering "Use As Is" for welding of hangers OHBC-19-H13 and OHBC-14-H7, OHBC-14-H6 and OHBC-14-H8 based on the fact that non-Q WR-6's were issued to weld the hangers showing that welder P-525, D. Myers was qualified to weld using P1-A-LH Rev. 0 and that only E-7018 electrodes were issued to him. Also, a visual examination of the welds showed them to be of good quality and acceptability.			
23. PROJECT ENGINEERING DISPOSITION Project Engineering concurs with the field recommendation to "use as is" because the welder was qualified to perform P1-A-LH (Rev. 0) welds, the weld electrodes were E-7018 and NDE showed the welds were of acceptable quality.			26. ACCEPTANCE J. Williams 2/6/79 K. Barmann 2/6/79 PROJECT ENGINEER DATE AUTHORIZED INSPECTOR DATE			

2/21/79

See continuation of sheet 2/27/79

E. Hunt 2-27-79

46  
2/22/19

Block 16 continued:

Non "q" WR-6 Forms.

Spec. M-326 Rev. 2

Hanger # OHBC-19-H13

Sketch # 0-618-1-1

Hanger # OHBC-14-H7

Sketch # 0-618-1-16

Hanger # OHBC-14-H6

Sketch # 0-618-1-15

see 11/2/18 WBS 11/2/18

 Hanger # ~~HBCG-~~ HBC-14-H8

Sketch # 618-1-17

BLOCK 22 (CONT) ACTION TO PREVENT RECURRENCE: A TRAINING SESSION WAS  
 HELD ON 2/12/19 RE-INSTRUCTING ALL FIELD WELDING  
 ENGINEERS IN THEIR RESPONSIBILITIES REGARDING REVIEW  
 AND ISSUANCE OF WR-6, WELD WITHDRAWAL FORMS, TO  
 THE VARIOUS CRAFTS, FOR ON-SITE WELDING OPERATIONS.

K. Bishop  
 2/22/19

Block 22 Revised.

Repair and complete welding on hangers OHBC-14-H6, OHBC-14-H7, OHBC-14-H8, & OHBC-19-H13  
 as necessary in accordance with spec. G-27Q, spec. M-326 and weld procedure Pl-A-LH(Rev.0)  
 Reason for revised disp. - Upon further investigation of the mentioned hangers, they were  
 found to be in less than acceptable condition for final acceptance.

K. Bishop  
 2/22/19

NONCONFORMANCE REPORT (CONT'D)

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
<u>J. J. Williams</u>		<u>2/23/19</u>	
PROJECT FIELD ENGINEER		DATE	
<u>M. Barclay</u>		<u>2-26-19</u>	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

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

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

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

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

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

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

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

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

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

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

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



# CONFORM

## NONCONFORMANCE REPORT

1. PROJECT NAME <b>M. PLAND</b>		JOB NO. <b>7220</b>		19. NO. <b>1627</b>	20. PAGE <b>1</b> OF <b>2</b>
2. UNIT(S) <b>2</b>	3. DRAWING/PART NO. <b>2P-05 11-7-78</b>	REV <b>N/A</b>	4. ITEM DESCRIPTION <b>ELECTRIC DRIVEN AUXILIARY FEEDWATER PUMP</b>		
6. P.O. OR SPEC NO. <b>N/A</b>	7. SERIAL NO. <b>N/A</b>	8. REPLACEMENT PART P/N <b>N/A</b>	9. SOURCE <b>CONSTRUCTION</b>	10. CONTRACTOR/SUPPLIER <b>N/A</b>	5. ITEM LOCATION/INSTALLED <b>AX BLDG, EL 584.</b>
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC ( ) OTHER		IR NO. <b>F-10-119</b>	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES ( ) NO	13. SKETCH ATTACHED ( ) YES ( ) NO	14. Discovered During ( ) Rec'g ( ) Const ( ) Test
16. NONCONFORMING CONDITION: <b>① SIGHT GAUGE BROKEN OFF AT HOUSING, OF THE COUPLING END BEARING, LEAVING RESERVOIR OPEN TO THE ATMOSPHERE AND THE THREADED PORTION OF THE SIGHT GAUGE PILING IS LEFT INSIDE THE PUMP CASTING SIGHT GAUGE MOUNTING HOLE. ② 180 DAY MAINTANCE INSPECTION CAN'T BE COMPLETED (UNABLE TO FILL PUMP RESERVOIR WITH OIL) REF. F-10-119 PAR. 3.2</b>					
17. REPORTED BY <b>M. Schling</b>	DATE <b>11-6-78</b>	18. VALIDATED BY <b>W. B. Bary</b>		DATE <b>11-9-78</b>	24. DISPOSITION CONFORMANCE
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)		22. (X) Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering		25. DISPOSITION RESULTS	
1. Field to order new oiler and install on pump.					
2. Maintenance inspection to be completed after oiler is installed.					
23. PROJECT ENGINEERING DISPOSITION					
26. DC ACCEPTANCE <b>W. B. Bary</b> 2-7-79					
OC ENGINEER					
AUTHORIZED INSPECTOR					
DATE					

rework  reject  repair  use as is

PROJECT FIELD ENGINEER  
**W. B. Bary** 11/13/78 DATE

PROJECT ENGINEER  
**W. B. Bary** 11-11-78 DATE

AUTHORIZED INSPECTOR

① OLD SIGHT GAUGE ASSEMBLY REMOVED AND DISASSEMBLED, NEW ASSEMBLY INSTALLED.

② 180 DAY MAINTENANCE INSPECTION PERFORMED ON F-10-119 PAR. 3.2

1-26-79

Tom Arnold 2-7-79

26. DC ACCEPTANCE  
**W. B. Bary** 2-7-79

OC ENGINEER

AUTHORIZED INSPECTOR

DATE



SIGHT GAUGE WAS PREVIOUSLY REPORTED MISSING ON DR. PM 409 DATED 3/13/78

"Q"-LIST # 4.392

1 HOLD TAG APPLIED.

Corrected 5/7

Block 16 Cont.

A conditional release is granted to allow bolt up of piping to the pump. Corrections or removal can be accomplished without causing ~~XXXX~~<sup>11-13-78</sup> damage or contamination to associated plant equipment or structure.

PFE

*[Signature]*

11/13/78

Date

PFQCE

*[Signature]*

11-14-78

Date

PQAE

*[Signature]*

11-14-78

Date

AI

N/A *[Signature]*

Date



### NONCONFORMANCE REPORT

1. PROJECT NAME <b>MIDLAND</b>		JOB NO. <b>7220</b>		19. NO. <b>1634</b>	20. PAGE <b>1 OF 2</b>								
2. UNIT(S) <b>1</b>	3. DRAWING/PART NO. <b>IP-05B</b>	REV <b>N/A</b>	4. ITEM DESCRIPTION <b>STEAM DRIVEN AUXILIARY FEEDWATER PUMP</b>	5. ITEM LOCATION <b>INSTALLED AUX BLDG. EL 584</b>									
6. P.O. OR SPEC NO. <b>N/A</b>	7. SERIAL NO. <b>N/A</b>	8. REPLACEMENT PART P/N <b>N/A</b> REV <b>N/A</b> SER NO. <b>N/A</b>		9. SOURCE <b>CONSTRUCTION</b>	10. CONTRACTOR/SUPPLIER <b>N/A</b>								
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC ( ) OTHER		IR NO. <b>N/A</b> NO. <b>F10-118</b>	12. <del>FORM</del> AUTHORIZED INSPECTION REC'D ( ) YES ( ) NO	13. SKETCH ATTACHED ( ) YES ( ) NO	14. Discovered During ( ) Rec'g ( ) Const ( ) Test								
15. Equip Furnished By ( ) Client ( ) Eng ( ) FLD		16. NONCONFORMING CONDITION: <p>① Two (2) OIL LEVEL INDICATORS ON AUX FEED - WATER PUMP IP-05B ARE BROKEN (GLASS BUBBLE TYPE, ONE ON EACH END OF PUMP AT THE BEARINGS).</p> <p>② 180 DAY MAINTENANCE INSPECTION COULD NOT BE COMPLETED PER F10-118 PARAGRAPH 3.2.</p> <p>SEE CONTINUATION SHEET PAGE 2</p> <p>"Q" LIST NO. 4.392      1 HOLD TAG APPLIED TO PUMP</p>											
17. REPORTED BY <b>M. Sullivan</b>		DATE <b>11-7-78</b>	18. VALIDATED BY <b>KAN</b>	DATE <b>11-8-78</b>	24. DISPOSITION CONCURRENCE <table border="1"> <tr> <td>rework</td> <td>reject</td> <td>repair</td> <td>use as is</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p><b>M. Sullivan</b> <b>11/16/79</b> PROJECT FIELD ENGINEER      DATE</p> <p><b>M. Sullivan</b> <b>1-17-79</b> PROJECT ENG. NEER      DATE</p> <p><b>M. Sullivan</b> <b>1-17-79</b> PROJ CONSTR QC ENGINEER      DATE</p> <p>AUTHORIZED INSPECTOR      DATE</p>	rework	reject	repair	use as is				
rework	reject	repair	use as is										
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)		25. DISPOSITION RESULTS <p>① OLD SIGHT GAUGES REMOVED AND DISCARDED, NEW ASSEMBLY INSTALLED.</p> <p>② 180 DAY MAINTENANCE INSPECTION PERFORMED ON F-10-118 ON 1-24-79.</p> <p><b>M. Sullivan</b> <b>2/8/79</b></p>											
22. <input checked="" type="checkbox"/> Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering		26. QC ACCEPTANCE <b>M. Sullivan</b> <b>2/8/79</b> QC ENGINEER      DATE <p>AUTHORIZED INSPECTOR      DATE</p>											
23. PROJECT ENGINEERING DISPOSITION		<p><b>Slip Sheet 1/15/79</b></p> <p><b>O. Short 1-15-79</b></p>											

(BEARINGS WERE UNABLE TO BE FILLED TO REQUIRED LEVEL)



NONCONFORMANCE REPORT

1. PROJECT NAME <b>MIDLAND</b>		JOB NO. <b>7220</b>		19. NO. <b>1647</b>	20. PAGE <b>1</b> OF <b>3</b>
2. UNIT(S) <b>COMMON</b>	3. DRAWING/PART NO. <b>N/A</b>	REV <b>N/A</b>	4. ITEM DESCRIPTION <b>CUT REBAR</b>	5. ITEM LOCATION <b>AUX. BLDE.</b>	
6. P.O. OR SPEC NO. <b>C-231(G) REV. 16</b>	7. SERIAL NO. <b>N/A</b>	8. REPLACEMENT PART P/N <b>N/A</b> REV <b>N/A</b> SER NO. <b>N/A</b>		9. SOURCE <b>CONSTRUCTION</b>	10. CONTRACTOR/SUPPLIER <b>N/A</b>
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER		IR NO. NO. <b>C-231(G)</b>	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) FL D					

16. NONCONFORMING CONDITION: **SPEC. C-231, APPENDIX E, PART 2.2, STATES IN PART THAT TWO BARS IN THE SAME DIRECTION, ON THE SAME FACE, MAY BE CUT WITHIN FIVE FEET RADIALLY, PROVIDED THAT THERE ARE NO OTHER BARS CUT IN THE SAME DIRECTION, ON THE SAME FACE, WITHIN TEN FEET RADIALLY. CONTRARY TO THIS, A #11 VERT. BAR WAS CUT ON THE SOUTH FACE OF G LINE WALL, 12" EAST OF 5.6 LINE @ EL. 599'-6.5", WHILE CORE DRILLING A 3" DIAMETER PENETRATION. (CONT'D PG. 2)**

24. DISPOSITION CONCURRENCE			
rework	reject	repair	use as is
			<input checked="" type="checkbox"/>
PROJECT FIELD ENGINEER		DATE	
<i>[Signature]</i>		1-23-79	
PROJECT ENGINEER		DATE	
<i>[Signature]</i>		1-23-79	
PROJ CONSTR QC ENGINEER		DATE	
<i>[Signature]</i>		1-23-79	
AUTHORIZED INSPECTOR		DATE	

17. REPORTED BY <i>[Signature]</i>	DATE <b>11-13-78</b>	18. VALIDATED BY <i>[Signature]</i>	DATE <b>11-14-78</b>
---------------------------------------	-------------------------	--	-------------------------

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

22. ( ) Field Engineering Disposition  Field Engineering Recommended Disposition to Project Engineering  
Disposition requested by: **11-22-78**

Project Engineering to evaluate.  
*[Signature]* 11-15-78  
*[Signature]* 11-15-78

23. PROJECT ENGINEERING DISPOSITION **Project Engineering has evaluated the referenced condition and has determined that adequate reinforcement exists within the G line wall to maintain overall structural integrity. The increased stress level resulting from the cut bars will still be within design allowables. Therefore, Project Engineering recommends that the existing condition be use as is.**

*[Signature]* 1-22-79  
*[Signature]* 1/24/79

26. QC ACCEPTANCE John G. [Signature]	DATE <b>2/1/79</b>
QC ENGINEER	DATE
AUTHORIZED INSPECTOR	DATE



NONCONFORMANCE REPORT (CONT'D)

1. PAGE 2 OF 3

14. NCR NO.

(Block 16 CONT'D FROM PAGE 1)

SEVERAL OTHER VERTICAL REBAR HAVE BEEN CUT PREVIOUSLY ON THE SOUTH FACE OF G WALL. REFERENCE DRAWING CA-118, SHEET 162, ATTACHED. ONE HOLD TAG APPLIED. HOLD FOR ENG. DISPOSITION, Q LIST # 1.203.

10000-2

White Copy - Originator  
 Canary Copy - Field Engineer  
 Pink Copy - PQAE  
 Goldendred Copy - OC

GC-01-1

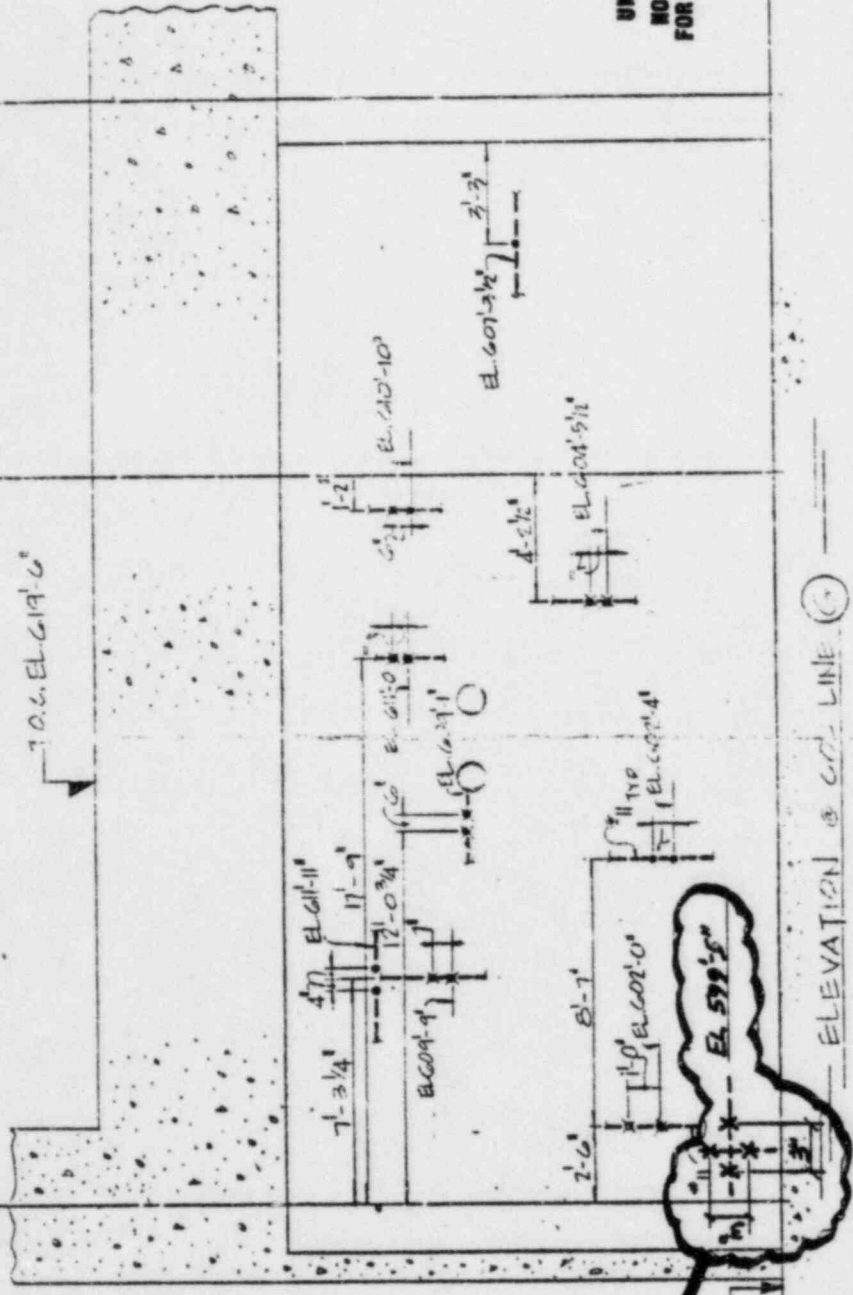
19

13

1

602

50



UNCONTROLLED  
NOT TO BE USED  
FOR CONSTRUCTION

ELEVATION @ C-C LINE

LEGEND

- X - CUT REPAIR
- - - DIRECTION OF BAR
- - REBAR
- ALL BAR NEAR FACE U.S.

NOTE:

1. FOR FAR FACE CUT REBAR SEE REFERENCE DRAWING: PAK-CA-118 54T.145

BLDG. AUX.	ROOM 200
ELEV. 599'-0"	NORTH WALL

STATE	SO. U.I.	DRAWN BY	Z.L.C.
BECHTEL POWER CORP. MIDLAND, MICHIGAN			
TITLE	RECORD OF CUT REBAR CUT 162		
JOB NO.	7279	DRAWING NO.	FSK-CA-118 (E) 3
REV			

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NONCONFORMANCE REPORT

1. PROJECT NAME <i>Midland</i>		JOB NO. <i>7220</i>		19. NO. <i>1675</i>	20. PAGE <i>1</i> OF <i>2</i>			
2. UNIT(S) <i>A2</i>	3. DRAWING/PART NO. <i>142 PSU-0131+0132</i>	REV <i>HA</i>	4. ITEM DESCRIPTION <i>PRESSURIZER SAFETY VALVES</i>	5. ITEM LOCATION <i>WHSE #1</i>				
6. P.O. OR SPEC NO. <i>7220-M-1.11</i>	7. SERIAL NO. <i>N/A</i>	8. REPLACEMENT PART PIN <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>N/A</i> NO. <i>F-1-255</i>	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES ( ) NO	13. SKETCH ATTACHED ( ) YES ( ) NO	14. Discovered During ( ) Rec'g ( ) Const ( ) Test			
16. NONCONFORMING CONDITION: <i>The 90-day inspection on F-1-255 was due 11-8-78. This inspection is overdue, a work request (W.R. # 792, dated 11-9-78) has been written to facilitate manual operation of these valves.</i>					15. Equip Furnished By ( ) Client ( ) Eng ( ) IFLD			
24. DISPOSITION CONCURRENCE <i>4 Hold tags applied to valves. "Q"-list # 4.0112 and 4.0212</i>					rework	reject	repair	use as is
					PROJECT FIELD ENGINEER <i>A. Gilman/R.L.C.</i> DATE <i>11/4/79</i> PROJECT ENGINEER <i>R. Ward</i> DATE <i>12/1/78</i> PROJ CONSTH QC ENGINEER <i>R. Ward</i> DATE <i>11/11/79</i>			
17. REPORTED BY <i>S. Lugate</i>		DATE <i>11-28-78</i>	18. VALIDATED BY <i>R. Ward</i>		DATE <i>11-28-78</i>			
21. ROUTING: ( ) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)					25. DISPOSITION RESULTS <i>F-1-255 has been revised to delete the manual operation of these valves.</i>			
22. <input checked="" type="checkbox"/> Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering					<i>S. Lugate</i> <i>2-16-79</i>			
F1-255 revised to remove requirement for manual operation of valves. These are relief valves and do not require manual operation.					<i>Dale Short 1-2-79 Dale Short 12-1-78</i> <i>R Ward 11/1/79 R Ward 12/1/78</i>			
23. PROJECT ENGINEERING DISPOSITION Project engineering concurs with the field recommendation to delete requirement for manual operation of the pressurizer safety valves because the valves are relief valves which do not require manual operation. (per telecon with A. K. Vovides of project engineering on 1/3/79.)					26. QC ACCEPTANCE <i>S. Lugate</i> DATE <i>2-16-79</i>			
AUTHORIZED INSPECTOR <i>AS</i> DATE <i>1/4/79</i>					OC ENGINEER <i>S. Lugate</i> DATE			
AUTHORIZED INSPECTOR <i>AS</i> DATE					DATE			



# Corrected Copy

## NONCONFORMANCE REPORT

*S/L N/A*

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1682	20. PAGE 1 OF 2
2. UNIT(S) 1 & 2	3. DRAWING/PART NO. Item 8.0, Tag "1"-CCB-GT-L	REV N/A	4. ITEM DESCRIPTION Nuclear Service Valves	5. ITEM LOCATION Warehouse # 1	
6. P.O. OR REF NO. 7220-M-129-BC Rev. 5	7. SERIAL NO. 31952 thru 31983	8. REPLACEMENT PART P/N N/A REV	SER NO.	9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Borg Warner Corp. <del>Anchor/Parling Valve Company</del>
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER		IR NO R-1.00-4111 NO M-129B Rev. 4	12. ASME AUTHORIZED INSPECTION RECD (X) YES ( ) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During (X) Rec'g ( ) Const ( ) Test
15. Equip Furnished By ( ) Client (X) Eng ( ) FLD		16. NONCONFORMING CONDITION: Specification 7220-M-129B Rev. 4 requires Quality Verification documentation in accordance with Form G-321-D. Item 1. The page count as required in Document Categories 12.0, 13.0 and 13.0 of the G-321-D Form don't agree with the documentation submitted for those categories. Document Cat. 12.0 (Welding Verification Reports), one report is required but there is no report in the documentation package. Document Cat. 13.0 (Weld Rod Verification Report), Form G-321-D requires			
17. REPORTED BY Dean A. Delaney		DATE 11/30/78	18. VALIDATED BY R. W. Kelley		DATE 12/4/78
21. ROUTING: (X) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)		24. DISPOSITION CONCURRENCE			
22. (X) Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering		rework <input type="checkbox"/> reject <input type="checkbox"/> repair <input type="checkbox"/> use as is <input type="checkbox"/>			
Procurement Supervisor to obtain proper documentation.		Doc			
		W. T. ... 12-6-78 PROJECT FIELD ENGINEER DATE			
		PROJECT ENGINEER DATE R. W. Kelley 12-8-78			
		PHD CONSTRUCTION ENGINEER DATE H. W. Kelley 12-11-78			
		AUTHORIZED INSPECTOR DATE			
		25. DISPOSITION RESULTS			
		CORRECTED DOCUMENTATION			
		RECEIVED & ACCEPTED			
		Dean A. Delaney 3/25/79			
		Dale Short 12-6-78			
		R. W. Kelley 12/1/78			
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE					
Dean A. Delaney 3/28/79					
QC ENGINEER DATE					
R. W. Kelley 3/1/79					
AUTHORIZED INSPECTOR DATE					



Block 16 Continued

seven pages but there are eight reports in the package. Document Cat. 18.0 (Code Compliance), Form G-321-D requires one Code Data Report but there are actually two in the documentation package.

Item 2. The G-321-D Form submitted with the Quality Verification Documentation Package is from Specification 7220-M-129A, it should be from 7220-M-129B.

Item 3. There is no traceability for a Liquid Penetrant Certification and a Welding Certification Report.

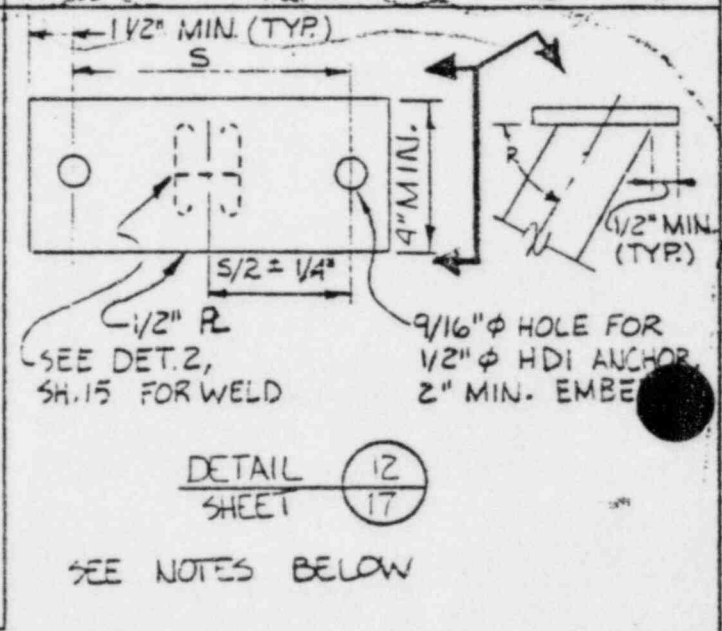
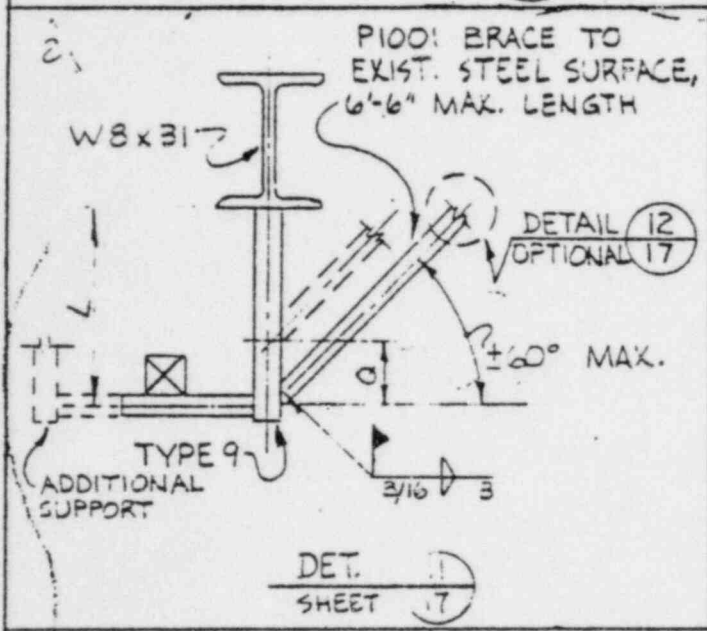
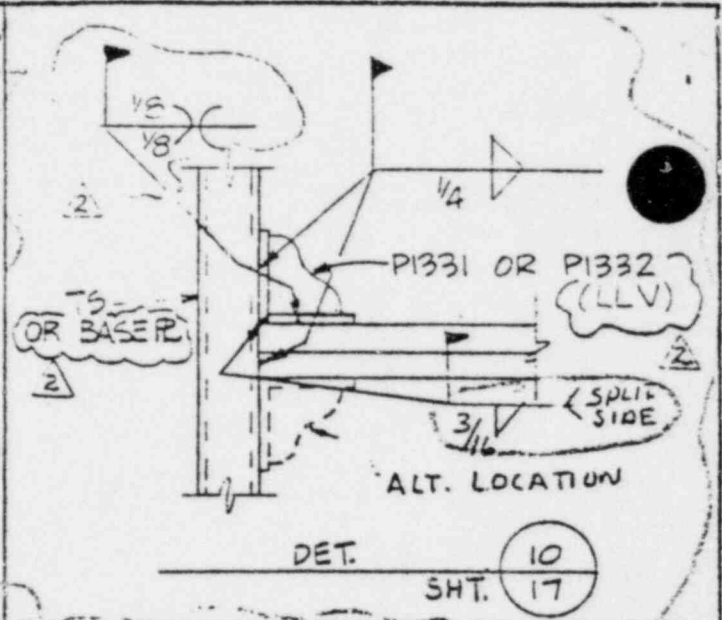
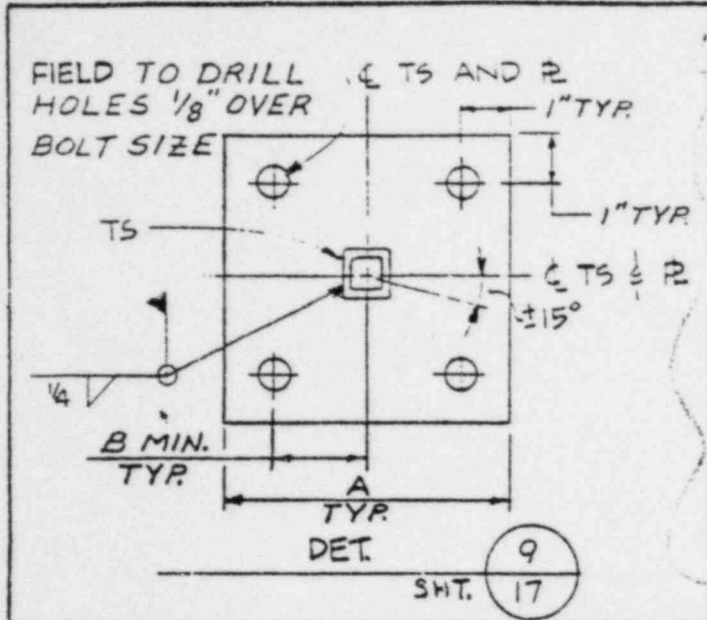
"Q" numbers are 4.0310 and 4.0410. Hold pending final disposition. 3 hold tag(s) applied to the nonconforming item(s).

### NONCONFORMANCE REPORT

3/13/79

1. PROJECT NAME <i>MIDLAND UNITS 1 &amp; 2</i>		JOB NO. <i>7.270</i>			19. NO. <i>1710</i>	20. PAGE <i>1</i> OF <i>2</i>
2. UNIT(S) <i>AUX</i>	3. DRAWING/PART NO. <i>E 39 Q</i>	REV <i>3</i>	4. ITEM DESCRIPTION <i>SEISMIC WIRELOOM SUPPORT</i>		5. ITEM LOCATION <i>UPPER CHAIR SADDLE (1)</i>	
6. P.O. OR SPEC NO. <i>N/A</i>	7. SERIAL NO. <i>N/A</i>	8. REPLACEMENT PART P/N _____ REV _____ SER NO. _____		9. SOURCE <i>CONST.</i>	10. CONTRACTOR/SUPPLIER <i>N/A</i>	
11. INSPECTION CRITERIA <input checked="" type="checkbox"/> DWG <input type="checkbox"/> SPEC <input type="checkbox"/> OTHER		IR NO. <i>2301-8110</i> NO. <i>2304-8110</i>	12. ASME AUTHORIZED INSPECTION REQ'D <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	13. SKETCH ATTACHED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	14. Discovered During <input type="checkbox"/> Rec'g <input checked="" type="checkbox"/> Const <input type="checkbox"/> Test	15. Equip Furnished By <input type="checkbox"/> Client <input type="checkbox"/> Eng <input checked="" type="checkbox"/> FLD
16. NONCONFORMING CONDITION: <i>DWG E39 Q REV 3, SHEET 17, DETAIL 10</i> <i>REQUIRES A 3/16" FILLET WELD ON THE SPLIT SIDE OF PART NUMBER</i> <i>P1331 OR P1332. CONTRARY TO THE ABOVE THIS WELD HAS BEEN</i> <i>OMITTED. HOLD FOR ENGINEERING DISPOSITION. "C" NUMBER 3.006.</i> <i>35 WELD TAGS ADDED</i> <i>13 AH</i> <i>12/19/78</i>				24. DISPOSITION CONCURRENCE		
				rework	reject	repair
						<input checked="" type="checkbox"/> use as is
				PROJECT FIELD ENGINEER DATE <i>J.R. Barnum / REC 1-25-79</i> PROJECT ENGINEER DATE <i>W.L. Barclay / REC 2-1-79</i> PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE		
17. REPORTED BY <i>J. A. Schuman</i>	DATE <i>12/19/78</i>	18. VALIDATED BY <i>W.L. Barclay</i>	DATE <i>12/15/78</i>	25. DISPOSITION RESULTS		
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING <input type="checkbox"/> TO OTHERS (SPECIFY)				<i>Use as is disposition of</i> <i>Block 23 requires no</i> <i>features. Notes by G.</i> <i>2-15-79</i>		
22. <input type="checkbox"/> Field Engineering Disposition <input checked="" type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering						
Project Engineering to evaluate reduction in load capacity due to missing weld and this reduced capacity to be compared to actual installations. If actual installation loading exceeds reduced capacity, weld is to be added. All others to be "Used as is"						
23. PROJECT ENGINEERING DISPOSITION Project Engineering has evaluated the as-built condition and has determined that the P1331 and P1332 fittings will perform satisfactorily without the 3/16 inch fillet weld on the split side. Therefore, Project Engineering recommends use as is.						
<i>P. Schulman 4/25/79</i>						
				26. QC ACCEPTANCE		
				QC ENGINEER DATE <i>[Signature]</i> <i>4/25/79</i>		
				AUTHORIZED INSPECTOR DATE		

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**NOTES:**

1. BRACINGS MAY CONNECT TO W8x31 OF ADJACENT TYPE 9 SUPPORT.
2. MAX. ALLOWED LOAD SHALL BE 1000 # (L-Q)/L OR TABLE 4 VALUE, WHICHEVER IS LESS Q MAX = 8\".
3. TYPE 9'S MAY BE COMBINED AS SHOWN. MAX. LOAD PER. COMBINATION = 517 # (L-Q)/L.
4. S = 6 1/4\" MIN., 12\" MAX.
5. R = 50° MAX.
6. BRACES MAY CONNECT TO 1 PL. IF SUM OF SUPPORTED LOADS IS < 1000 # (L-Q)/L.

No.	DATE	REVISIONS	BY	CHK'D	GROUP LEAD	GROUP SUPV.	PROJ. ENGR.	CHIEF ENGR.
△	10-24-78	IN CORR. D.L. N° 3, 1	J.S.	G.A.	R.W.	R.S.	R.C./L.S.	
△	8/18/78	REDRAWN AND REISSUED FOR CONSTRUCTION	B.C.	J.A.	B.A.M.	R.S.	S.R.B./R.C.	

SCALE	DESIGNED B. C. McCONNEL	DRAWN J.A. HOPFENSBERGER
ORIGIN	MIDLAND PLANT UNITS 1 & 2 CONSUMERS POWER COMPANY SEISMIC WIREWAY SUPPORTS NOTES, SYMBOLS, DETAILS	JOB No. 7220
		DRAWING No. E-39 (Q) SM. 17
		REV. 2

AA G 122673  
"A" SIZE



MIDLAND PROJECT

RESIDENT ENGINEER MEMORANDUM

RE- E-1294

DATE 1.25.79

SUBJECT: EVALUATION OF AS BUILT CONDITION

REF: N.C.R. # 1710

AAO COORDINATION: Date 1.24.79 / Time 8<sup>00</sup> / AAO Contact J. ALEXANDER

PROJECT HAS REVIEWED  
THE "AS BUILT" CONDITION  
DESCRIBED IN REFERENCED  
NCR, AND RECOMMENDS  
USE AS IS.

RESIDENT ENGINEER

J. H. Ward  
1.25.79

AAO Review: Group Supervisor \_\_\_\_\_

Date: \_\_\_\_\_

Page 5 of 5  
1/25/79



NONCONFORMANCE REPORT

1. PROJECT NAME <b>Midland</b>		JOB NO. <b>7220</b>			19. NO. <b>1715</b>	20. PAGE <b>1</b> OF <b>2</b>		
2. UNIT(S) <b>132</b>	3. DRAWING/PART NO. <b>M618sh1</b>	REV <b>7/85</b>	4. ITEM DESCRIPTION <b>See Block #16 - Large Pipe Spools</b>	5. ITEM LOCATION <b>Service Unit #19, Fl. 638'9"</b>				
6. P.O. OR SPEC NO. <b>M104A</b>	7. SERIAL NO. <b>See Block #16</b>	8. REPLACEMENT PART P/N <b>NIA</b> REV <b>NIA</b> SER NO. <b>NIA</b>		9. SOURCE <b>Supplier</b>	10. CONTRACTOR/SUPPLIER <b>ITT Grinnell, KENNESVILLE, N.C.</b>			
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER		IR NO. <b>R110618-237</b> NO. <b>M481</b>	12. ASME AUTHORIZED INSPECTION REQ'D (X) YES ( ) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Rec'g (X) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FL D		
16. NONCONFORMING CONDITION: <b>Spec. M481, Rev. 14 states in part: "CLASS HBC Flanges 26" and larger will be 150lb. weld neck, R.F. (MSS-SP-44)." The certs received for spool 30"-OHBC-20-618-14/MR-21-204X ALSO show this fig to be A 150lb. weld neck, R.F. (MSS-SP-44).  ( Block #16 continued on PG 2 )</b>					24. DISPOSITION CONCURRENCE			
					rework	reject	repair	use as is
					<b>J. Starn 2/19/79</b> PROJECT FIELD ENGINEER DATE			
					<b>R. Basinski/RIC 2-6-79</b> PROJECT ENGINEER DATE			
					<b>R. Barclay 2/8/79</b> PROJECT CONSULTING ENGINEER DATE			
					<b>H.W. Kestner Jr 2/14/79</b> AUTHORIZED INSPECTOR DATE			
17. REPORTED BY <b>J. Starn</b>	DATE <b>12/15/78</b>	18. VALIDATED BY <b>R. Barclay</b>		DATE <b>12/18/78</b>		25. DISPOSITION RESULTS		
21. ROUTING: (X) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)						"Use As Is"		
22. ( ) Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering						<b>J. Starn 2/19/79</b>		
"USE AS IS" Only physical difference between 150# STD. flange and 150# MSS-SP-44 flange is the dimension from flange face to weld prep. This could cause fit-up problems, but in this case the pipe is installed with satisfactory fit-up. Info. stamped on flange Ladish 511.30 125 150 <b>Dale Short 12/20/78</b> 294 DX 375w A105 PCAY <b>R Ward 12/20/78</b>								
23. PROJECT ENGINEERING DISPOSITION <b>R Ward 1/2/79</b>								
Project Engineering concurs with the field recommendation to "use as is" for the above listed spools only, based on the design pressure and temperature of this particular pipe. <b>A. Kr... 1/5/79</b> <b>A. Sidhu 2/6/79</b>								
26. OC ACCEPTANCE <b>J. Starn</b>						DATE <b>2/19/79</b>		
OC ENGINEER <b>H.W. Kestner Jr</b>						DATE <b>2/14/79</b>		
AUTHORIZED INSPECTOR						DATE		

Block # 16 CONTINUED

NONCONFORMANCE REPORT (CONT'D)

CONTRARY to this, the fig on pipe spools 30" OHS-20-618-1A/MR-21204X (fig HT # PCAY) and 36" OHS-15-618-12/MR-21194X (fig HT # PCAY) ARE STANDARD 150 lb. weldneck, R.F., not 150 lb. weldneck, R.F. (MSS-SP-44).

"Q" NO. 4-185 Hold For Engineering Disposition. 2 Q.C. Hold Tags Applied to each flange.



### NONCONFORMANCE REPORT

1. PROJECT NAME <b>Midland</b>		JOB NO. <b>7220</b>		19. NO. <b>1716</b>	20. PAGE <b>1</b> OF <b>2</b> <sup>1 X/B</sup> <sub>12-18-78</sub>
2. UNIT(S) <b>1 &amp; 2</b>	3. DRAWING/PART NO. <b>M-619-SH#6</b>	REV <b>7/F3</b>	4. ITEM DESCRIPTION <b>See Block # 16 Large Pipe Spools</b>	5. ITEM LOCATION <b>Aux Bldg. E1. 603'3"</b>	
6. P.O. OR SPEC NO. <b>M-104A</b>	7. SERIAL NO. <b>See Block #16</b>	8. REPLACEMENT PART DAN <b>N/A</b> REV <b>N/A</b> SER NO. <b>N/A</b>		9. SOURCE <b>Supplies</b>	10. CONTRACTOR/SUPPLIER <b>ITT Grinnell, Kernersville, N.C.</b>
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER		IR NO. <b>P-1</b>	10-619- <del>6</del>	13. SKETCH ATTACHED ( ) YES (X) NO	15. Equip Furnished By ( ) Client ( ) Eng (X) FLD
16. NONCONFORMING CONDITION:		IR NO. <b>M-481</b>	NO. <b>10-619-6</b>	14. Discovered During ( ) Rec'g (X) Const ( ) Test	15. Equip Furnished By ( ) Client ( ) Eng (X) FLD
<p><b>Spec. M-481, Rev # 14 states in part: Class HBC flanges, 26" &amp; larger. Will be 150 # W.N.R.F., MSS-SP44. Contrary to the above, the flgs. on pipe spool OHBC-19-619-6-1 MR-21-43 &amp; pipe spool OHBC-20-619-7-7 MR-21-67, were received with 30" flanges, having thickness of 2.125", instead of the required 2.94". Hold for engineering disposition ("Q#4.192), 2 Q.C. Hold Tags applied.</b></p>				24. DISPOSITION CONCURRENCE	
17. REPORTED BY <i>C. Cabral</i>				25. DISPOSITION RESULTS	
DATE <b>12/18/78</b>				rework	
VALIDATED BY <i>D. Barlay</i>				reject	
DATE <b>12/18/78</b>				repair	
21. ROUTING: (X) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)				use as is	
22. ( ) Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering				<p><i>J. Cabral</i> PROJECT FIELD ENGINEER DATE <b>2/12/79</b></p> <p><i>R. Basinski</i> PROJECT ENGINEER DATE <b>2-6-79</b></p> <p><i>M. Strelay</i> PROJ CONSTR. ENGINEER DATE <b>2/8/79</b></p> <p><i>H. W. Kattner Jr.</i> AUTHORIZED INSPECTOR DATE <b>2/13/79</b></p>	
"Use As IS"				Acceptable per Engineering Disposition, FCR M-1559	
D. Short 1-22-79				"use as is."	
23. PROJECT ENGINEERING DISPOSITION				<p><i>J. Cabral</i> DATE <b>1/22/79</b></p> <p><b>2/12/79</b></p>	
Project Engineering concurs with the field recommendation to "use as is" for these two spools only because Project Engineering has determined that 2 1/8" flanges are adequate for the design temperature and pressure of this piping. Refer to FCR-M-1559 and REM-588.					
<p><i>A. Kraus</i> 2/1/79</p> <p><i>A. Sidhu</i> 2/6/79</p>				26. DC ACCEPTANCE	
				<p><i>J. Cabral</i> 2/12/79</p> <p>DC ENGINEER DATE</p> <p><i>H. W. Kattner Jr.</i> 2/3/79</p> <p>AUTHORIZED INSPECTOR DATE</p>	







NONCONFORMANCE REPORT

1728

1. PROJECT NAME Midland Units 1 & 2		JOB NO. 7220		19. NO. <b>1728</b>	20. PAGE 1 OF 2	
2. UNIT(S) 1	3. DRAWING/PART NO. C-378	REV 4	4. ITEM DESCRIPTION Lower Support Pressurizer Ring	5. ITEM LOCATION Containment #1		
6. P.O. OR SPEC NO. C-304	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE Construction	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER		IR NO C-304-676W NO.	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Rec'g (X) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FLD
16. NONCONFORMING CONDITION: Completed weld #15 on QCIR C-304-676W of the lower support pressurizer ring was UT examined for information in accordance with part C, section 6, of AWS D1.1 72 to 75 with the following exception that the Bechtel NDE Level II did not include the required UT report that indicated the rejectable weld indications prior to repair as required by paragraph 6.203 of the referenced Section of the code.  (continued on page 2)				24. DISPOSITION CONCURRENCE		
17. REPORTED BY <i>E.R. Stankiewicz</i> DATE 12-22-78				25. DISPOSITION RESULTS THE USE AS IS DISPOSITION OF BACK 23 REQUIRES NO FURTHER CORRECTIVE ACTION BY QC. NO HOLD TAGS TO BE REMOVED.		
21. ROUTING: ( ) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)				26. QC ACCEPTANCE <i>W. B. ...</i> 2/6/79 QC ENGINEER AUTHORIZED INSPECTOR		
22. ( ) Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering  "Use As Is" for field weld #15 on QCIR# C-304-676W based on the re-examination performed on the repaired weld by Peabody Testing Co. and documented on Peabody U.T. Report# 5946.				DATE		
23. PROJECT ENGINEERING DISPOSITION <i>RS 1/31/79</i> Project Engineering has evaluated the nonconformance condition, and has determined that based upon the weld in question being repaired and passing re-examination in accordance with Specification C-304, Project Engineering recommends to "use as is." <i>J. Hartman</i> 1-31-79 <i>R. Schuman</i> 1-31-79				DATE		

NONCONFORMANCE REPORT (CONT'D)

PAGE 2 OF 2

14 NCR NO 1728

(Block 16, Continued)

Rejectable indications disclosed by UT were repaired in accordance with C-304, paragraph 11.2, and reexamined in accordance with part C of section 6, or AMS D1.1, 1972 to 75, and documented on Peabody UT report #5946.

*Ke. Baiding* 1/25/79



NONCONFORMANCE REPORT

1. PROJECT NAME <b>MIDLAND</b>		JOB NO. <b>7220</b>		19. NO. <b>1740</b>	20. PAGE <b>102</b>			
2. UNIT(S) <b>COMMON</b>	3. DRAWING/PART NO. <b>C-1032</b>	REV <b>0</b>	4. ITEM DESCRIPTION <b>MISLOCATED DOORWAY REINFORCING BARS</b>	5. ITEM LOCATION <b>EM. DIESEL GEN. BLDG</b>				
6. P.O. OR SPEC NO. <b>N/A</b>	7. SERIAL NO. <b>N/A</b>	8. REPLACEMENT PART P/N <b>N/A</b> REV <b>N/A</b> SER NO. <b>N/A</b>	9. SOURCE <b>CONSTR.</b>	10. CONTRACTOR/SUPPLIER <b>N/A</b>				
11. INSPECTION CRITERIA <input checked="" type="checkbox"/> DWG <input type="checkbox"/> SPEC <input type="checkbox"/> OTHER		IR NO. <b>C-120-728#9</b> NO. <b>C-1032</b>	12. ASME AUTHORIZED INSPECTION REQ'D <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	13. SKETCH ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	14. Discovered During <input type="checkbox"/> Rec'g <input checked="" type="checkbox"/> Const <input type="checkbox"/> Test	15. Equip Furnished By <input type="checkbox"/> Client <input type="checkbox"/> Eng <input checked="" type="checkbox"/> FLD		
16. NONCONFORMING CONDITION: <b>SECTION (C) ON DWG # C-1032 SHOWS A DOORWAY AT ELEV. 664 WITH ADDITIONAL REINFORCING REQUIRED THUS: "2-#6 X 11'-3" ADDITIONAL PAR FACE" AND "1-#5 X 11'-0" TRIM" ON THE NORTH SIDE AND "2-#6 X 11'-3" ADDITIONAL IN FACE" ON THE SOUTH SIDE. CONTRARY TO THE ABOVE, THESE ADDITIONAL BARS WERE INSTALLED ON OPPOSITE SIDES OF THE DOORWAY THAN THAT SHOWN.</b>				24. DISPOSITION CONCURRENCE				
<b>CONT'D ON PAGE #2</b>				rework		reject	repair	use as is
				<b>W. Taylor RIB</b>		<b>1-23-79</b>		
				PROJECT FIELD ENGINEER <b>W. Taylor RIB</b>		DATE <b>1-22-79</b>		
				PROJECT ENGINEER <b>W. Taylor RIB</b>		DATE <b>1-23-79</b>		
				PROJ CONSTR QC ENGINEER		DATE		
				AUTHORIZED INSPECTOR		DATE		
17. REPORTED BY <b>Allen Hensch</b>		DATE <b>1-4-79</b>		18. VALIDATED BY <b>W. Taylor RIB</b>		DATE <b>1/4/79</b>		
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING <input type="checkbox"/> TO OTHERS (SPECIFY)								
22. <input type="checkbox"/> Field Engineering Disposition <input checked="" type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering								
<b>"Use as is".</b>								
<b>1/1/79</b>								
23. PROJECT ENGINEERING DISPOSITION <b>Project Engineering has evaluated the "as built" condition as stated in Block 16, and has determined that the wall satisfies design requirements in its as-built configuration. Project Engineering concurs with Field Engineering's recommended disposition to "use as is."</b>								
<b>REM C-1984</b>								
<b>J. Thutman</b>				<b>2/1/79</b>				
<b>R. Schulman</b>				<b>2/1/79</b>				
				26. QC ACCEPTANCE <b>W. Taylor RIB</b>		DATE <b>2/1/79</b>		
				QC ENGINEER		DATE		
				AUTHORIZED INSPECTOR		DATE		

BOX #16 CONT'D FROM PAGE #1

THIS CONDITION OCCURRED IN THE EAST CENTER BAY (BAY#3) AND IN THE WESTERN-MOST BAY (BAY#1) OF THE BUILDING.

Q-LIST NUMBER IS 1.403 HOLD FOR ENGINEERING DISPOSITION

TWO HOLD TAGS APPLIED (ONE IN EACH BAY)



### NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 07220		19. NO. 1753	20. PAGE 1 OF 2		
2. UNIT(S) 1&2	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION 5000 & 8000 Volt Power Cable	5. ITEM LOCATION N/A			
6. P.O. OR SPEC NO. E-21 - AC	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER The Kerite Company		
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER		IR NO. N/A NO. BEBC 2606	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Rec'g ( ) Const ( ) Test	15. Equip Furnished By ( ) Client ( ) Eng (X) IFLD	
16. NONCONFORMING CONDITION: Q Material on this PO has been identified by Project/ Quality Engineering to be indeterminate in regards to satisfactorily completion qualification test requirements per spec. M/R E-21. Q # 3,105. hold tags applied.				24. DISPOSITION CONCURRENCE			
				rework	reject	repair	use as is
				<i>[Signature]</i> 2-22-79 PROJECT FIELD ENGINEER DATE			
				<i>[Signature]</i> 2-15-79 PROJECT ENGINEER DATE			
				<i>[Signature]</i> 2-23-79 PROJ CONSTR OR ENGINEER DATE			
				AUTHORIZED INSPECTOR DATE			
17. REPORTED BY <i>[Signature]</i>		DATE 1-9-79		18. VALIDATED BY <i>[Signature]</i>		DATE 1-9-79	
21. ROUTING: (X) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)							
22. ( ) Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering		Project engineer to evaluate					
		<i>B. Matthews</i>					
23. PROJECT ENGINEERING DISPOSITION		Use as is, Qualification test documentation has been completed and is status level 1.					
		<i>[Signature]</i> 2/19/79					
		26. AC ACCEPTANCE <i>[Signature]</i> 2-23-79 OC ENGINEER DATE					
		AUTHORIZED INSPECTOR DATE					

Block 16 Continued.

A conditional release is granted to install the Q Material on this NCR. Corrections or removal can be accomplished without causing damage or contamination to the associated plant equipment or structure.

W. D. Dumas AIB 1-12-79  
PFE Date

J. J. Parlay 1-12-79  
PPQCE Date

E. Smith 1-12-79  
LQAE Date



### NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 07220		19. NO. 1755	20. PAGE 1 OF 2		
2. UNIT(S) 1&2	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION 600 Volt Control Cable	5. ITEM LOCATION N/A			
6. P.O. OR SPEC NO. E-26 - AC	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Rockbestos Products		
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER		IR NO. N/A NO. BEBC 2606	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Rec'g (X) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FLD	
16. NONCONFORMING CONDITION: Q Material on this PO has been identified by Project/ Quality Engineering to be indeterminate in regards to satisfactorily completion qualification test requirements per spec. E-26. Q# 3.007. hold tags applied.				24. DISPOSITION CONCURRENCE			
				rework	reject	repair	use as is
				<i>W. Shaw</i> <i>ASB</i> <i>2-22-79</i> PROJECT FIELD ENGINEER DATE <i>R.C. [unclear]</i> <i>2-13-79</i> PROJECT ENGINEER DATE <i>[unclear]</i> <i>2-23-79</i> PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE			
17. REPORTED BY <i>[Signature]</i>		DATE 1-9-79	18. VALIDATED BY <i>[Signature]</i>		DATE 1-9-79		
25. DISPOSITION RESULTS							
21. ROUTING: (X) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)							
22. ( ) Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering Project engineer to evaluate  <i>B. Matthew</i> <i>1-12-79</i>							
23. PROJECT ENGINEERING DISPOSITION Use as is. Qualification test documentation has been completed and is status level 1.  <i>JK</i> <i>2/13/79</i>							
26. QC ACCEPTANCE <i>[Signature]</i> <i>2-23-79</i> QC ENGINEER DATE AUTHORIZED INSPECTOR DATE							

Block 16 Continued.

A conditional release is granted to install the Q Material on this NCR. Corrections or removal can be accomplished without causing damage or contamination to the associated plant equipment or structure.

PFE

Date

PFQCE

Date

LQAE

Date

W. T. Allen AB 1-12-79

J. Barclay 1-12-79

E. Smith 1-12-79





NONCONFORMANCE REPORT

SLA Non-Feasible Hold

1. PROJECT NAME Midland 1 & 2		JOB NO. 7220		19. NO. 1806	20. 1 OF 1 PAGE OF																								
2. UNIT(S) Common	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION Concrete Test Cylinders	5. ITEM LOCATION On-Site Test Lab																									
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 Subcontract	10. CONTRACTOR/SUPPLIER U. S. Testing																								
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER		IR NO. SC/L-05-104 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																								
16. NONCONFORMING CONDITION: ASTM C-31-69 paragraph 7.1 states that concrete test specimens must be maintained between the range of 60° to 80° F for the first 24 hours after molding. Contrary to this, cylinder set #'s 3086 and 3088 representing concrete ticket #'s 30939 and 30957 respectively for pour DG (681.5)A' placed 1-5-79 had a recorded initial cure of 54° F to 67° F. Q list is 1.105 NOZ Hold tags applied. <i>MC 1/23/79</i>					15. Equip Furnished By ( ) Client ( ) Eng (X) FLD																								
17. REPORTED BY <i>Jan Lint</i> DATE 1-11-78					18. VALIDATED BY <i>W Barclay</i> DATE 1-11-79																								
21. ROUTING: (X) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)					24. DISPOSITION CONCURRENCE																								
22. ( ) Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering Disposition req'd by 2-14-79 "Use AS IS" These concrete cylinders represent the best available data. It should be noted that all cylinders cast for pour dg(681.5)A' placed 1-5-79 exceeded their design strength at seven days of age. <i>1-6-79</i>					<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>X</td> </tr> <tr> <td colspan="3">PROJECT FIELD ENGINEER <i>W. D. New</i></td> <td>DATE 1-29-79</td> </tr> <tr> <td colspan="3">PROJECT ENGINEER <i>R. R. Bush</i></td> <td>DATE 1-24-79</td> </tr> <tr> <td colspan="3">PROJ CONSTR QC ENGINEER <i>W. Barclay</i></td> <td>DATE 1-29-79</td> </tr> <tr> <td colspan="3">AUTHORIZED INSPECTOR</td> <td>DATE</td> </tr> </table>	rework	reject	repair	use as is				X	PROJECT FIELD ENGINEER <i>W. D. New</i>			DATE 1-29-79	PROJECT ENGINEER <i>R. R. Bush</i>			DATE 1-24-79	PROJ CONSTR QC ENGINEER <i>W. Barclay</i>			DATE 1-29-79	AUTHORIZED INSPECTOR			DATE
rework	reject	repair	use as is																										
			X																										
PROJECT FIELD ENGINEER <i>W. D. New</i>			DATE 1-29-79																										
PROJECT ENGINEER <i>R. R. Bush</i>			DATE 1-24-79																										
PROJ CONSTR QC ENGINEER <i>W. Barclay</i>			DATE 1-29-79																										
AUTHORIZED INSPECTOR			DATE																										
23. PROJECT ENGINEERING DISPOSITION Project Engineering has evaluated the nonconforming condition described in Block 16 and has determined that the low temperature of the concrete test cylinders during the first 24 hours of curing will tend to reduce the early age strength but will have insignificant effect on the long term strength. Based upon the seven day strengths, the projected 90 day strengths are expected to meet design requirements. Therefore, Project Engineering concurs with the Field Engineering recommended disposition to "use as is". <i>BEM CF 1989</i>					25. DISPOSITION RESULTS																								
26. QC ACCEPTANCE <i>Jan Lint</i> DATE 2-26-79					QC ENGINEER																								
AUTHORIZED INSPECTOR <i>J. Hartman</i> DATE 1-24-79					DATE																								



NONCONFORMANCE REPORT

S/M Non-Estable Unit

1. PROJECT NAME Midland		JOB NO. 07220		19. NO. 1814	20. PAGE 1 OF 1
2. UNIT(S) Common XXXXXX	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION Concrete Test Specimens	5. ITEM LOCATION On-Site Test Lab	
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 U. S. Testing
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER		IR NO. SC-1.05-105 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: ASTM C-31-69 para. 7.1 states that concrete test specimens must be maintained between the range of 60° to 80°F for the first 24 hrs. after molding. Contrary to this, cylinder sets 3893 and 3895 representing Pour DG(680)A' placed 1/10/79 had a recorded initial cure of 58°F to 69°F. "Q" list is 1.105. NO (25) hold tags applied. <i>1/23/79</i>			
24. DISPOSITION CONCURRENCE				rework	reject
				repair	use as is
				<i>W. Nelson</i>	<i>1-25-79</i>
				PROJECT FIELD ENGINEER	DATE
				<i>R. Bannister</i>	<i>1-24-79</i>
				PROJECT ENGINEER	DATE
				<i>R. Barelay</i>	<i>1-29-79</i>
				PROJ CONSTR QC ENGINEER	DATE
				AUTHORIZED INSPECTOR	DATE
17. REPORTED BY <i>W. Nelson</i>		DATE <i>1-12-79</i>	18. VALIDATED BY <i>R. Barelay</i>		DATE <i>1-15-79</i>
21. ROUTING: (X) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)					
22. ( ) Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering <i>1-14-79</i> Disposition req'd by					
"Use As Is" These concrete cylinders represent the best available strength data. It should be noted that all cylinders cast for pour DG(680)A' placed 1-10-79 are estimated to exceed their design strength of 4000psi at 28 days. Cylinder sets 3893 and 3895 had average compressive strengths of 3525psi and 4685psi at seven days of age.					
23. PROJECT ENGINEERING DISPOSITION <i>D. Hammett</i> <i>1/19/79</i> Project Engineering has evaluated the nonconforming condition described in Block 16 and has determined that the low temperature of the concrete test cylinders during the first 24 hours of curing will tend to reduce the early age strength but will have insignificant effect on the long term strength. Based upon the seven day strengths, the projected 90 day strengths are expected to meet design requirements. Therefore, Project Engineering concurs with the Field Engineering recommended disposition to "use as is".					
26. QC ACCEPTANCE <i>W. Nelson</i>				<i>2/20/79</i>	
QC ENGINEER				DATE	
AUTHORIZED INSPECTOR <i>J. R. Hammett</i>				DATE <i>1-29-79</i>	

REM C-1990

*J. R. Hammett*  
*1-29-79*



NONCONFORMANCE REPORT

1. PROJECT NAME <b>MIDLAND</b>		JOB NO. <b>7220</b>		19. NO. <b>1820</b>	20. PAGE <b>1</b> OF <b>1</b>
2. UNIT(S) <b>1 &amp; 2</b>	3. DRAWING/PART NO. <b>N/A</b>	REV <b>N/A</b>	4. ITEM DESCRIPTION <b>ITT GRINNELL PIPE HANGERS</b>	5. ITEM LOCATION <b>QC HOLD, WHSE. #2</b>	
6. P.O. OR SPEC NO. <b>7220-M-106AC</b>	7. SERIAL NO. <b>N/A</b>	8. REPLACEMENT PART P/N <b>N/A</b> REV _____ SER NO. _____		9. SOURCE <b>Supplier</b>	10. CONTRACTOR/SUPPLIER <b>ITT GRINNELL, WARREN OHIO</b>
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER		IR NO. <b>R-1-00-7871</b> NO. <b>M-106AC</b>	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: <b>Purchase ORDER M-106AC REVISION 7 requires documentation in accordance with FORM G-321-D. Contrary to the above, no Quality Verification Documentation was received on the jobsite for ITT GRINNELL'S SHOP ORDER EMD-331-01. HOLD PENDING FINAL DISPOSITION. "Q" number is 4.045 - 1 - hold tags) applied to the nonconforming item(s).</b>			24. DISPOSITION CONCURRENCE		
			rework	reject	repair
					use as is
			PROJECT FIELD ENGINEER <b>Steve</b> DATE <b>1-22-79</b> PROJECT ENGINEER _____ DATE _____ PROJ CONSTR QC ENGINEER _____ DATE _____ AUTHORIZED INSPECTOR _____ DATE _____		
17. REPORTED BY <b>Shedding, Steve</b>		DATE <b>1/18/79</b>	18. VALIDATED BY <b>W J Bowling</b>		DATE <b>1/18/79</b>
21. ROUTING: (X) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)			25. DISPOSITION RESULTS		
22. (X) Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering			Proper documentation received 2-1-79 <b>Shedding, Steve</b>		
Procurement Supervisor to obtain proper documentation. <b>D. Short 1-22-79</b>					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE <b>Shedding, Steve</b> DATE <b>2/1/79</b>					
AUTHORIZED INSPECTOR _____ DATE _____					



NONCONFORMANCE REPORT

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 1822	20. PAGE 1 OF 1												
2. UNIT(S) 1 & 2	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION ITT GRINNELL PIPE HANGERS	5. ITEM LOCATION QC HOLD WHSE. #2													
6. P.O. OR SPEC NO. 7220-M-106AC	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV _____ SER NO. _____		9. SOURCE SUPPLIER	10. CONTRACTOR/SUPPLIER ITT GRINNELL, WARREN, OHIO												
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC <input checked="" type="checkbox"/> OTHER		IR NO. R-1.00-7872A NO. M-106AC	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES <input checked="" type="checkbox"/> NO	13. SKETCH ATTACHED ( ) YES <input checked="" type="checkbox"/> NO	14. Discovered During <input checked="" type="checkbox"/> Rec'g ( ) Const ( ) Test	15. Equip Furnished By ( ) Client <input checked="" type="checkbox"/> Eng ( ) FLD											
16. NONCONFORMING CONDITION: PURCHASE ORDER M-106AC REVISION 7 requires documentation in accordance with form G-321-D. Contrary to the above Bechtel Shop Inspector failed to complete G-321-D on ITT GRINNELL'S SHOP ORDER EMD-315-01. HOLD PENDING FINAL DISPOSITION. "Q" number is 4.045. 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></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> </tr> </table>			rework	reject	repair	use as is			<input checked="" type="checkbox"/>					
rework	reject	repair	use as is														
		<input checked="" type="checkbox"/>															
			<table border="1"> <tr> <td>PROJECT ENGINEER</td> <td>DATE</td> </tr> <tr> <td>G. Taylor</td> <td>1-21-79</td> </tr> <tr> <td>PROJECT ENGINEER</td> <td>DATE</td> </tr> <tr> <td>S. Barclay</td> <td>1-25-79</td> </tr> <tr> <td>AUTHORIZED INSPECTOR</td> <td>DATE</td> </tr> <tr> <td></td> <td></td> </tr> </table>			PROJECT ENGINEER	DATE	G. Taylor	1-21-79	PROJECT ENGINEER	DATE	S. Barclay	1-25-79	AUTHORIZED INSPECTOR	DATE		
PROJECT ENGINEER	DATE																
G. Taylor	1-21-79																
PROJECT ENGINEER	DATE																
S. Barclay	1-25-79																
AUTHORIZED INSPECTOR	DATE																
17. REPORTED BY Shedden, S. Stee	DATE 1/18/79	18. VALIDATED BY S. Barclay	DATE 1/18/79	25. DISPOSITION RESULTS													
21. ROUTING <input checked="" type="checkbox"/> TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)			G-321-D corrected and signed per disposition 2-1-79 Shedden, S. Stee														
22. <input checked="" type="checkbox"/> Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering Procurement Supervisor to obtain proper documentation. D. Short 1-19-79																	
23. PROJECT ENGINEERING DISPOSITION																	
26. QC ACCEPTANCE Shedden, S. Stee 2/1/79 QC ENGINEER DATE																	
AUTHORIZED INSPECTOR DATE																	



NONCONFORMANCE REPORT

De Vault

1829 1-22-79

1. PROJECT NAME Midland, Units 1 & 2		JOB NO. 7220		19. NO. 1826	20. PAGE 1 OF 3	
2. UNIT(S) Common	3. DRAWING/PART NO. C-100B (Q) Rev. 8	REV 8	4. ITEM DESCRIPTION Fab. of angle frames	5. ITEM LOCATION Diesel Gen. Bldg.		
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N n/a REV n/a SER NO. n/a		9. SOURCE Const.	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER		IR NO C-304	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED (X) YES ( ) NO	14. Discovered During ( ) Rec'g (X) Const ( ) Test	15. Equip Furnished By ( ) Client (X) Eng ( ) FLD
16. NONCONFORMING CONDITION:				24. DISPOSITION CONCURRENCE		
Welding of angle frames was accomplished without an open, inspection record (QCIR). Weld filler material was issued as Non-Q.				rework reject repair use as is		
Hold for Eng. Disposition. Q list no. # 1,402				<i>J. C. Braun</i> ASB 2/8/79 <i>J. C. Braun</i> R/C 2-8-79 <i>J. C. Braun</i> 2/15/79 AUTHORIZED INSPECTOR DATE		
4 (four) hold tag's applied.				25. DISPOSITION RESULTS		
17. REPORTED BY <i>John C. Braun</i>	DATE 1-22-79	18. VALIDATED BY <i>J. C. Braun</i>	DATE 1-22-79	"USE AS IS" DISPOSITION OF BLOCK 23 REQUIRED NO FURTHER ACTION BY QC. WELDING. THE FOUR (4) HOLD TAGS WERE REMOVED. <i>J. C. Braun</i> 2/15/79		
21. ROUTING: (X) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)						
22. ( ) Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering Disposition Req'd by 2/7/79						
The frames are already embedded in concrete to el.664'-0". Therefore, to avoid chipping out the concrete; to grind out and reweld the joints, the field recommended to use the frames in their present condition.						
23. PROJECT ENGINEERING DISPOSITION Project Engineering has evaluated the nonconformance condition and has determined that the welds are not structurally required for this application. Project Engineering recommends to "use as is". <i>J. C. Braun Jr.</i> REM C-2034 2-8-79 <i>S. K. ...</i> 3/8/79						
				26. QC ACCEPTANCE <i>J. C. Braun</i> 2/15/79 QC ENGINEER DATE		
				AUTHORIZED INSPECTOR DATE		

SECRET

NONCONFORMANCE REPORT (CONT'D)

Block 16 Con't.

A conditional release has been granted to allow welding of the upper part of the Angle Frames. Corrections or removal can be accomplished without causing damage or contamination to associated plant equipment or structure.

*W. Barclay* 1-25-79

PFE

DATE

PFQCE

DATE

*W. Barclay* 1-25-79  
*for. POAE*

DATE

PFQCE

DATE

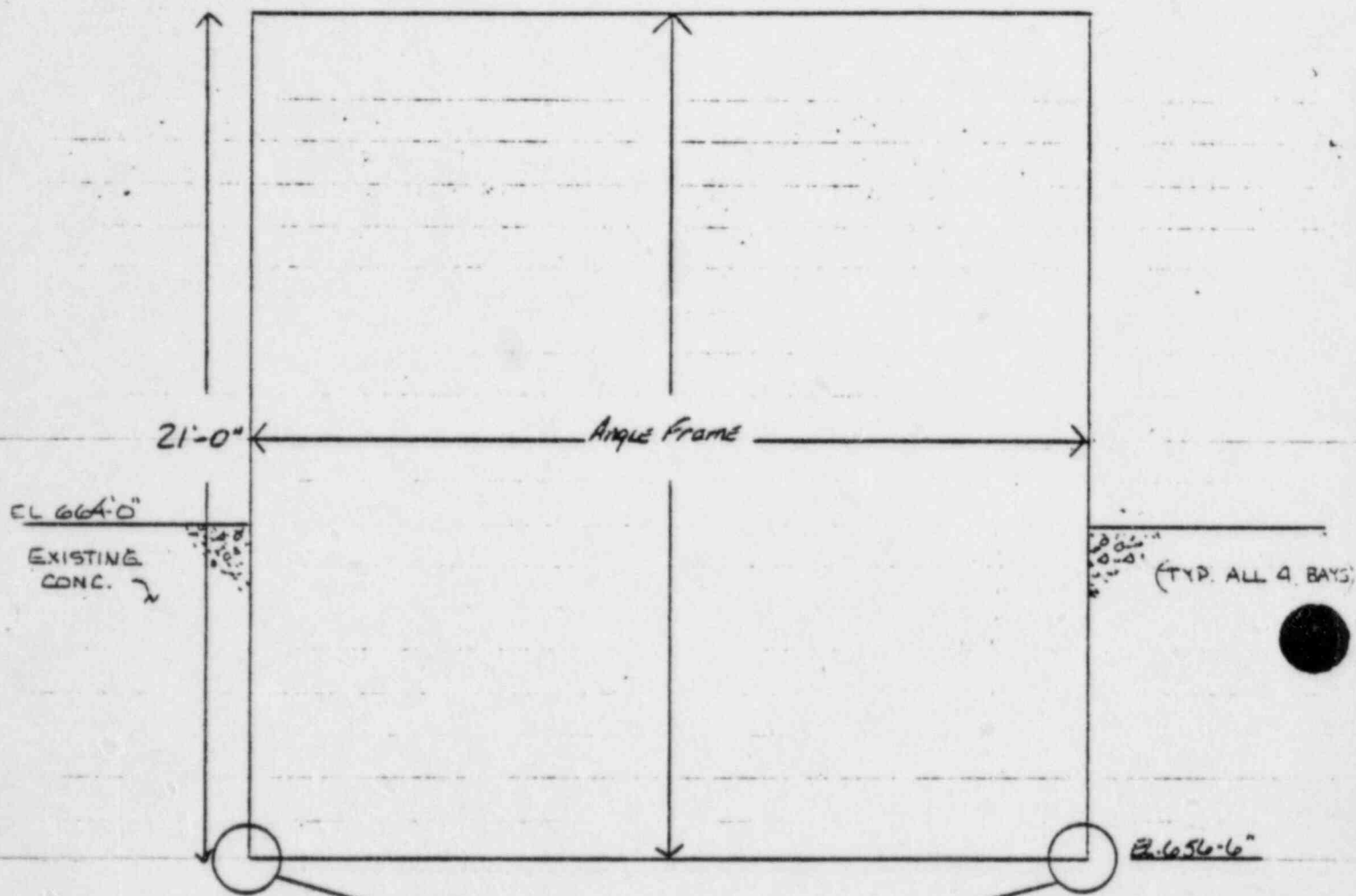
100000-2

GC-G13

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



SOUTH WALL ELEVATION (LOOKING NORTH)  
Typ. EACH UNIT



Typ. weld location for each angle  
frame. Total of 8 (eight) welds. Two (2)  
welds in each bay, total of 4 (four)  
bays. See ISO. C-146 Rev. 7 for  
weld detail.





### NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1845	20. PAGE 1 of 1	
2. UNIT(S) 1 & 2	3. DRAWING/PART NO. E-617 (Q) Sh. 2	REV 8	4. ITEM DESCRIPTION Conduit-4 GRS	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 Construction	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA <input checked="" type="checkbox"/> DWG <input type="checkbox"/> SPEC <input type="checkbox"/> OTHER		IR NO. 2BJA024 NO.	12. ASME AUTHORIZED INSPECTION REC'D <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	13. SKETCH ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	14. Discovered During <input type="checkbox"/> Rec'g <input checked="" type="checkbox"/> Const <input type="checkbox"/> Test	15. Equip Furnished By <input type="checkbox"/> Client <input type="checkbox"/> Eng <input checked="" type="checkbox"/> FLD
16. NONCONFORMING CONDITION: Conduit 2BJA024 ends at raceway 2BBB01. E-36, Rev. 31, calls for this conduit to end at raceway 2BKPO1. This conduit is located at El. 614' between lines 7.2 and 7.8 and K & KC lines. Q-List #3.006. 1 "HOLD" tag attached to conduit Hold for engineering disposition				24. DISPOSITION CONCURRENCE rework <input checked="" type="checkbox"/> reject <input type="checkbox"/> repair <input type="checkbox"/> use as is <input type="checkbox"/> <i>[Signature]</i> 2-5-79 PROJECT FIELD ENGINEER DATE <i>[Signature]</i> 2/5/79 PROJECT ENGINEER DATE PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE		
17. REPORTED BY <i>[Signature]</i>		DATE 1-30-79	18. VALIDATED BY <i>[Signature]</i>		DATE 1/31/79	
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING <input type="checkbox"/> TO OTHERS (SPECIFY)						
22. <input checked="" type="checkbox"/> Field Engineering Disposition <input type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering Conduit will be reworked to end at correct raceway. <i>[Signature]</i> 2/2/79						
23. PROJECT ENGINEERING DISPOSITION						
				26. QC ACCEPTANCE <i>[Signature]</i> 2879 QC ENGINEER DATE AUTHORIZED INSPECTOR DATE		

1-10



NONCONFORMANCE REPORT

S/N N/A

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1853	20. PAGE 1 OF 1	
2. UNIT(S) 1 & 2	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION Hydraulic Shock Suppressors Bearings	5. ITEM LOCATION Warehouse # 2		
6. P.O. OR SPEC NO. 7220-C-70	7. SERIAL NO. See Blk. 16	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-1,00-8012 NO. C-70 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 C-70 Rev. 3 requires the Seller to furnish documentation in accordance with the specification as summarized and directed by the G-321-D. Contrary to the above, no documentation was received on bearings S/N GE 2-408ES, GE 2-500ES, GE 2-600ES, GE 2-408ES, and GE 2-500ES. 2. Packing slip no. E-MB-006 states bearing S/N GE 2-408ES was shipped. Contrary to the above, bearing S/N 365645 was received making bearings indeterminate. "Q" number is indeterminate. Hold pending final disposition. 2 hold tag(s) applied.				24. DISPOSITION CONCURRENCE		
17. REPORTED BY S. H. M. Shaskan 2-2-79				18. VALIDATED BY P. Barclay 2/2/79		
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)				25. DISPOSITION RESULTS MATERIAL RETURNED TO VENDOR ON SHIPPING NOTICE S/N-7220-6545 S. H. M. Shaskan 2-23-79		
22. <input checked="" type="checkbox"/> Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering Since the bearings were shipped without shop inspection and without documentation, they are to be sent back to the vendor at the vendor's expense. The discrepancy between mark numbers on the pieces and the packing slip is explained in a letter, S.K.F. Industries to ITT Grinnell dated 6/12/78. Paul Rogers 2-7-79 P. Barclay 2/7/79				26. QC ACCEPTANCE QC ENGINEER _____ DATE 2-23-79 AUTHORIZED INSPECTOR _____ DATE		





Block 16 Con't.

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

<u>C. T. Jones</u>	<u>2-6-79</u>	<u>A. J. Barclay</u>	<u>2/6/79</u>
PFE	DATE	PFQCE	DATE
	<u>I. D. ...</u>	<u>2-6-79</u>	
	PQAE	DATE	

Telex  
western union



10781  
BGB

BECHTEL MIDL

INFOMASTER 1-7030301029 01/29/79  
BY BECHTEL A SFO  
003 SAN FRANCISCO CA CHG:7223 3731035  
BY 3102669497 BECHTEL-MIDL

ATTN: J.F. NEWGEN, SPC, MIDLAND, MI  
R.L. CASTLEBERRY, SPC, ANN ARBOR, MI  
P.O. #  
7020 1-32AC

REV 2

SUPPLIER:  
ROCKBESTOS

CITY  
EAST SPARTAN

STATE  
CT

P.O. ITEM	QTY	DESCRIPTION	ID NUMBER
101	31,943 FT	1 TWISTED SHIELDED PAIR #14 REEL #33303, 33321, 33322, 33733, 33376, 33320, 33390, 33395, 33152, 33031	
223	24,370 FT	6 CONDUCTOR 14 SHIELDED CONTROL CABLE-REEL #33360, 33359, 33365, 33362, 33363, 33363, 33375, 33355, 33340, 33392, 33146, 33325, 33320, 33303, 33309, 33343, 33365, 33342	

DATE RELEASED FOR SHIPMENT: 1-26-79

WITH THE FOLLOWING EXCEPTIONS: SDDR #335, 336, 332, 253, 956, 1053  
AS APPROVED BY BECHTEL ENGINEERING. ALSO ALL EXCEPTIONS NOTED IN CSR  
#6 PER JOHN KOVACH, BECHTEL ENGINEER.

X SUPPLIER'S STATEMENT OF COMPLIANCE FOLLOWS BY MAIL  
X DOCUMENTATION PACKAGE MAILED TO JOBSITE WITH THE MATERIAL & TO  
ENGINEERING-ATTN: DC ENGINEERING

ANTHONY SYCHEVSKY  
1-29-79/0550

1114 EST

BECHTEL MIDL

Telex/TWIX  
western union

306  
# 1856





### NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1858	20. PAGE 1 OF 1	
2. UNIT(S) 1 & 2	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION 312 Hvy. Hex Nuts SA-194-2H 152-1" x 5 1/2" Stud Bolts SA-193-2H	5. ITEM LOCATION Q.C. Hold, Whse. # 1		
6. P.O. OR ORDER NO. 7220-F-32161	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 REC Corporation	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (x) OTHER		IR NO. R-1.00-8702 NO. F-32161	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-32161 requires Quality Verification Documentation according to Form G-321-D. Contrary to this, no documentation was received. Hold pending final disposition. <u>1</u> hold tag(s) applied to the nonconforming item(s).				24. DISPOSITION CONCURRENCE rework reject repair use as is <i>D. Shatt</i> 2/7/79 PROJECT FIELD ENGINEER DATE <i>Barclay</i> 2/7/79 PROJECT ENGINEER DATE PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE		
17. REPORTED BY <i>Shedd</i> 2/6/79		18. VALIDATED BY <i>Barclay</i> 2/6/79		25. DISPOSITION RESULTS		
21. ROUTING: (x) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)				Proper documentation received 2-19-78 <i>Shedd</i>		
22. (x) Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering Procurement Supervisor to obtain documentation. <i>D. Shatt</i> 2/7/79						
23. PROJECT ENGINEERING DISPOSITION						
				26. (x) ACCEPTANCE ( ) REJECTION <i>Shedd</i> 2/19/79 GC ENGINEER DATE AUTHORIZED INSPECTOR DATE		

### NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1859	20. PAGE 1 OF 1		
2. UNIT(S) Indeterminate	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION Ht. # I64984 5000' of 2" Sch. 80 C.S. Pipe A-106 Gr. B	5. ITEM LOCATION Poseyville			
6. P.O. OR SPEC NO. 7220-T-33700	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N REV	SER NO. N/A	9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Guyon Alloy		
11. INSPECTION CRITERIA ( ) DWG (x) SPEC ( ) OTHER		IR NO. R-1.00-8834 NO M-305 Rev. 3	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (x) NO	13. SKETCH ATTACHED ( ) YES (x) NO	14. Discovered During (x) Rec'g ( ) Const ( ) Test	15. Equip Furnished By ( ) Client ( ) Eng ( ) FLD	
16. NONCONFORMING CONDITION: Bechtel Specification M-305 Rev. 3 requires documentation specified by Form G-321-D. Contrary to the above, a G-321-D Form was not received with the documentation for the pipe on this order. "O" number is indeterminate until installation. Hold pending final disposition. 2 hold tag(s) applied to the nonconforming item(s).				24. DISPOSITION CONCURRENCE			
				rework	reject	repair	use as is
				<i>J.P. Dunlap</i> ASSE 2/6/79 PROJECT FIELD ENGINEER DATE			
				<i>A. Berelay</i> PROJECT ENGINEER DATE PROJ CONSTR QC ENGINEER DATE 2/6/79			
				AUTHORIZED INSPECTOR DATE			
17. REPORTED BY <i>Michael J. Moore</i> 2-6-79		18. VALIDATED BY <i>A. Berelay</i> 2/6/79		25. DISPOSITION RESULTS			
21. ROUTING: ( ) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)				Documentation RECEIVED AND REVIEWED 2-7-79 <i>MJM</i>			
22. <input checked="" type="checkbox"/> Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering							
THE PROCUREMENT SUPR TO OBTAIN PROPER DOCUMENTATION <i>Kurt Wilson</i> 2/6/79 <i>D. Short</i> 2/6/79							
23. PROJECT ENGINEERING DISPOSITION							
26. QC ACCEPTANCE <i>Michael J. Moore</i> 2-7-79 QC ENGINEER DATE							
AUTHORIZED INSPECTOR DATE							





743

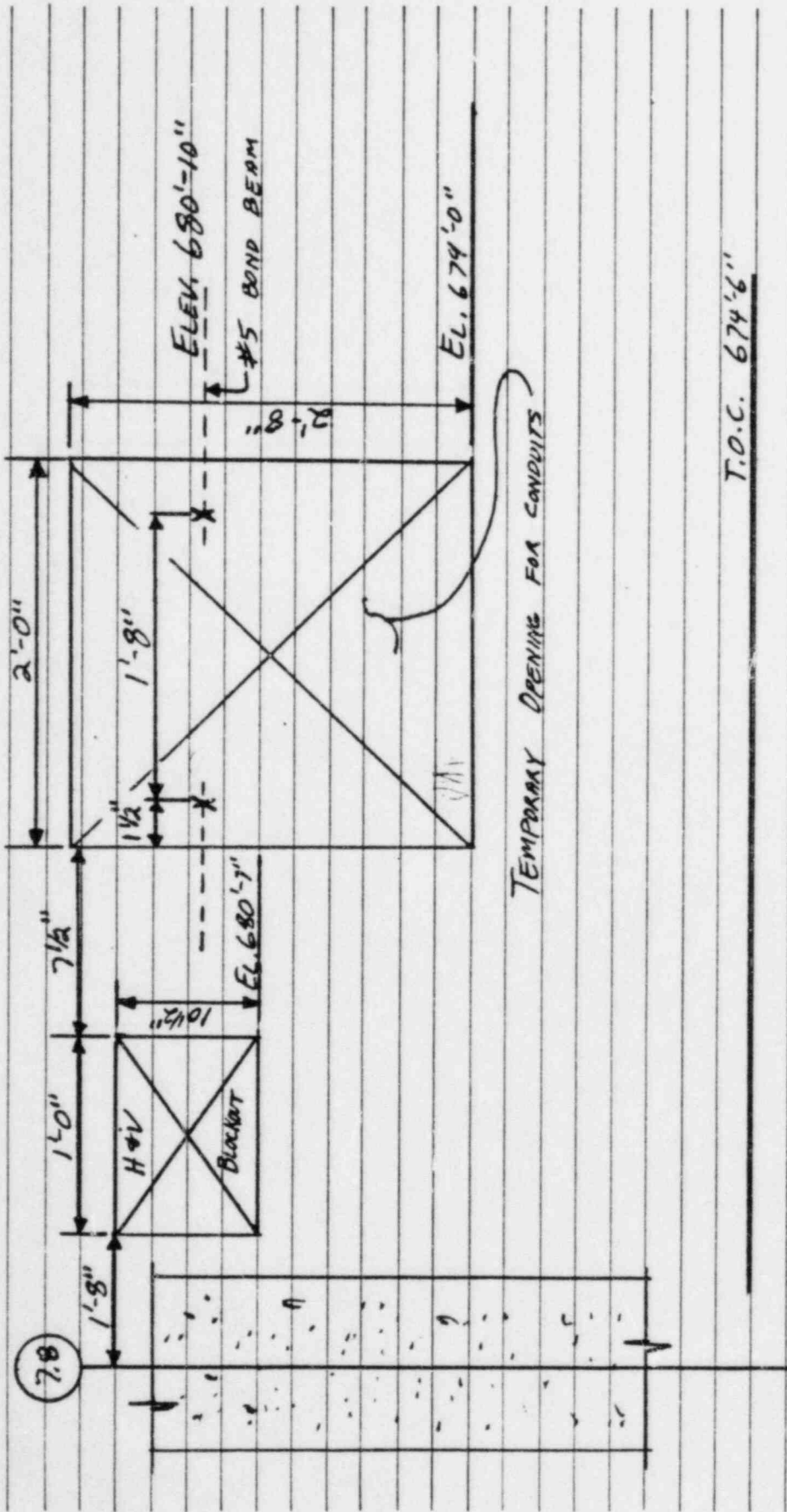
### NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220			19. NO. 1862	20. PAGE 1 OF 1	
2. UNIT(S) common	3. DRAWING/PART NO. C-1033	REV 0	4. ITEM DESCRIPTION Missing Vertical Rebar		5. ITEM LOCATION Diesel Generator		
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE construction	10. CONTRACTOR/SUPPLIER		
11. INSPECTION CRITERIA (x) DWG ( ) SPEC ( ) OTHER		IR NO. N/A NO. C-1033	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (x) NO		13. SKETCH ATTACHED ( ) YES (x) NO	14. Discovered During ( ) Rec'g (x) Const ( ) Test	15. Equip Furnished By ( ) Client ( ) Eng (x) FLD
16. NONCONFORMING CONDITION: Section A on dwg. C-1033 shows "#7x 1033C-7 in face" at the HVAC opening on the right hand side of the section. The section shows this bar being embedded below El. 664'-0". Contrary to the above, in Bay #2 this rebar was not installed prior to pouring the concrete to El. 664'-0". Q# is 1.403. <b>HOLD FOR ENQ. DISPOSITION, 1 HOLD TAG APPLIED</b>					24. DISPOSITION CONCURRENCE rework reject repair use as is <i>J. W. [Signature]</i> / AVB 2/15/79 PROJECT FIELD ENGINEER DATE <i>R. Basinski</i> / RLC 2-15-79 PROJECT ENGINEER DATE <i>R. Basinski</i> / RLC 2-15-79 PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE		
17. REPORTED BY <i>Jim Wondruski</i>		DATE 2-6-79	18. VALIDATED BY <i>R. Basinski</i>		DATE 2/6/78		
21. ROUTING: (x) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)					25. DISPOSITION RESULTS REBAR INSTALLED PER ON C-1.20-743 2/15/79 <i>[Signature]</i> 2/15/79		
22. <input checked="" type="checkbox"/> Field Engineering Disposition <input checked="" type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering							
The area is already enclosed with form work and <del>XXXXX</del> access is limited for drilling. Therefore, field recommends to shorten the bar and then install as shown on the drawing, except start it at el. 664'-0", instead of development length below 664'-0". <i>[Signature]</i> 2-8-79							
23. PROJECT ENGINEERING DISPOSITION Project Engineering has reviewed the condition described in Block 16. The #7 bar is for temperature and shrinkage reinforcement and the embedment depth below 664'-0" is not required. Project Engineering recommends to "use as is" and start the #7 face bar at El. 664'-0". <i>J. [Signature]</i> REM C-2052 2-15-79 <i>R. Schulman</i> 2-15-79							
					26. QC ACCEPTANCE <i>[Signature]</i> 2/15/79 QC ENGINEER DATE AUTHORIZED INSPECTOR DATE		



### NONCONFORMANCE REPORT

1. PROJECT NAME <b>MIDLAND</b>		JOB NO. <b>7220</b>		19. NO. <b>1863</b>	20. PAGE <b>1</b> OF <b>2</b>	
2. UNIT(S) <b>COMMON</b>	3. DRAWING/PART NO. <b>N/A</b>	REV <b>N/A</b>	4. ITEM DESCRIPTION <b>CUT REBAR</b>	5. ITEM LOCATION <b>Aux. Bldg.</b>		
6. <del>FOR</del> SPEC NO. <b>C-231(Q), Rev. 16</b>	SERIAL NO. <b>N/A</b>	8. REPLACEMENT PART P/N <b>N/A</b> REV <b>N/A</b> SER NO. <b>N/A</b>		9. SOURCE <b>CONSTRUCTION</b>	10. CONTRACTOR/SUPPLIER <b>N/A</b>	
11. INSPECTION CRITERIA <input type="checkbox"/> DWG <input checked="" type="checkbox"/> SPEC <input type="checkbox"/> OTHER		IR NO. <b>C-180-24</b>	12. ASME AUTHORIZED INSPECTION REQ'D <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	13. SKETCH ATTACHED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	14. Discovered During <input type="checkbox"/> Rec'g <input checked="" type="checkbox"/> Const <input type="checkbox"/> Test	15. Equip Furnished By <input type="checkbox"/> Client <input type="checkbox"/> Eng <input checked="" type="checkbox"/> FLD
16. NONCONFORMING CONDITION: <b>SPEC. C-231(Q), APPENDIX E, PART. 1.2.4 PROHIBITS CUTTING BUNDLED BARS WITHOUT PRIOR APPROVAL OF PROJECT ENGINEERING. CONTRARY TO THIS, A BOND BEAM WAS CUT IN BLOCKWALL #15 @ EL. 674'-6". SEE SKETCH. Q LIST #1,203. ONE HOLD TAG APPLIED. HOLD FOR ENGINEERING DISPOSITION.</b>						
17. REPORTED BY <b>Stone Page</b>		DATE <b>2-5-79</b>	18. VALIDATED BY <b>J. Barclay</b>		DATE <b>2/6/79</b>	
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING <input type="checkbox"/> TO OTHERS (SPECIFY)						
22. <input checked="" type="checkbox"/> Field Engineering Disposition <input type="checkbox"/> Field Engineering Recommended Disposition to Project Engineering						
This is not a non-conforming condition. The two bars in a bond beam are not considered "Bundled bars" nor does SCN C-231-9001 make any reference to cutting horizontal block wall bars. However, because Ann Arbor eng'r'g desires to have cut bond beam bars repaired and will include same in future DCN, the field will repair the bond beam rebar per Section 10, spec.-7220-C-231. <b>B. Howard</b> 2/10/79 <b>D. Hammett</b> 2/16/79						
23. PROJECT ENGINEERING DISPOSITION						
24. DISPOSITION CONCURRENCE <b>N/A</b>						
25. DISPOSITION RESULTS						
26. QC ACCEPTANCE <b>[Signature]</b> 2/16/79 QC ENGINEER DATE AUTHORIZED INSPECTOR DATE						





### NONCONFORMANCE REPORT

1. PROJECT NAME <b>MIDLAND</b>		JOB NO. <b>7220</b>		19. NO. <b>1867</b>	20. PAGE <b>1</b> OF <b>1</b>								
2. UNIT(S) <b>1 &amp; 2</b>	3. DRAWING NO. <b>7220-M-169-34-2 &amp; 36-2</b>	REV <b>2</b>	4. ITEM DESCRIPTION <b>ELECTRIC H<sub>2</sub> RECOMBINER POWER &amp; CONTROL PANELS</b>	5. ITEM LOCATION <b>1<sup>ST</sup> CLASS STORAGE</b>									
6. P.O. OR APPROV. NO. <b>7220-M-169-AC</b>	7. SERIAL NO. <b>2C-184A &amp; 2C-185B</b>	8. REPLACEMENT PART P/N <b>NA</b> REV _____ SER NO. _____	9. SOURCE <b>SUPPLIER</b>	10. <del>CONTRACTOR</del> /SUPPLIER <b>HALMAR ELECTRONICS, INC.</b>									
11. INSPECTION CRITERIA <input checked="" type="checkbox"/> DWG ( ) SPEC ( ) OTHER		NO. <b>7220-M-169-34</b> NO. <b>7220-M-169-36</b>	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES <input checked="" type="checkbox"/> NO	13. SKETCH ATTACHED ( ) YES <input checked="" type="checkbox"/> NO	14. Discovered During ( ) Rec'g ( ) Const ( ) Test	15. Equip Furnished By ( ) Client ( ) Eng ( ) FLD							
16. NONCONFORMING CONDITION:				24. DISPOSITION CONCURRENCE									
<p>THE IDENTIFICATION PLATES FOR PANELS 2C-184A &amp; 2C-185B HAVE BEEN REVERSED, THEY WERE ATTACHED TO THE WRONG PANELS SUCH THAT 2C-184A WAS IDENTIFIED AS 2C-185B AND 2C185B WAS IDENTIFIED AS 2C-184A. # 'Q' list no. 4.623.</p> <p>No hold tags applied.</p>				<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						
				<p><i>[Signature]</i> <b>2/24/79</b> PROJECT FIELD ENGINEER DATE</p>									
<p><i>[Signature]</i> <b>2/9/79</b> PROJECT ENGINEER DATE PROJ CONSTR OR ENGINEER DATE</p>													
17. REPORTED BY <i>[Signature]</i> <b>2-8-79</b>				18. VALIDATED BY <i>[Signature]</i> <b>2/9/79</b>									
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)				25. DISPOSITION RESULTS									
22. <input checked="" type="checkbox"/> Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering													
<p>REVERSE THE NAMEPLATES SO THAT THE PANELS ARE CORRECTLY IDENTIFIED</p> <p><i>[Signature]</i> <b>2-9-79</b></p>				<p><i>[Signature]</i> <b>2/13/79</b> Nameplates reversed 2/13/79 <i>[Signature]</i> <i>[Signature]</i></p>									
23. PROJECT ENGINEERING DISPOSITION				26. QC ACCEPTANCE <i>[Signature]</i> <b>2/16/79</b> QC ENGINEER DATE									
				AUTHORIZED INSPECTOR DATE									



### NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1871	20. PAGE 1 OF 2	
2. UNIT(S) Common	3. DRAWING/PART NO. N/A	REV	4. ITEM DESCRIPTION Type I Cement Acceptance Tests	5. ITEM LOCATION Batch Plant		
6. P.O. OR SPEC NO. C-230 Rev. 14	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE Subcontractor	10. CONTRACTOR/SUPPLIER Champion Inc.	
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC ( ) OTHER		IR NO. C-4.10-454 NO. C-230 Rev. 14	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES ( ) NO	13. SKETCH ATTACHED ( ) YES ( ) NO	14. Discovered During ( ) Rec'g ( ) Const ( ) Test	15. Equip Furnished By ( ) Client ( ) Eng ( ) FLD
16. NONCONFORMING CONDITION: SCN-C-230-9001 states that Type I cement conforming to A.S.T.M C-150-78a may be used. A.S.T.M C-150-78a states that the maximum alkalis shall not exceed 0.6% contrary to this, acceptance tests for Type I cement silos 19 and 23 had recorded alkalic results of .85% and .87% respectively. The cement represented by these tests are in on-site silos.				24. DISPOSITION CONCURRENCE rework reject repair use as is NA		
17. REPORTED BY Thomas Lueb		DATE 2-13-79	18. VALIDATED BY R. Barelay		DATE 2/13/79	
21. ROUTING: <input checked="" type="checkbox"/> TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)						
22. <input checked="" type="checkbox"/> Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering						
This is not a N.C.R. situation. There is no alkalic requirement for Type I cement per table 1 of ASTM C150-78a. Concurrently, .85% and .87% are within the 1% presently specified for Type II cement.						
23. PROJECT ENGINEERING DISPOSITION						
				26. QC ACCEPTANCE DATE 2/15/79		
				QC ENGINEER		
				AUTHORIZED INSPECTOR		
				DATE		



Block 16 cont: One hold tag applied to control <sup>panel</sup>. Q list varies.

Block 16 CONT:

A CONDITIONAL RELEASE HAS BEEN GRANTED TO PERMIT THE USE OF TYPE I CEMENT AS FOREMENTIONED FOR NON-Q AREAS ONLY.

RF 2-13-79 Libbey 2/13/79  
APR DATE OFFICE DATE

LADrusbada 2-13-79  
APRQAE DATE



NONCONFORMANCE REPORT

S/A 2-ABA

1. PROJECT NAME <b>MIDLAND</b>		JOB NO. <b>7220</b>		19. 1873 NO.	20. PAGE 1 OF 2								
2. UNIT(S) <b>TWO</b>	3. DRAWING/PART NO. <b>M692-SH1</b>	REV <b>4/4</b>	4. ITEM DESCRIPTION <b>PIPE SPOOL 2ELB-10-692-1-5 (MAIN STEAM)</b>		5. ITEM LOCATION <b>UNIT-2 ELEV 70'-5 3/4"</b>								
6. P.O. OR SPEC NO. <b>N/A</b>	7. SERIAL NO. <b>N/A</b>	8. REPLACEMENT PART P/N <b>N/A</b> REV <b>N/A</b> SER NO. <b>N/A</b>		9. SOURCE <b>INDETERMINATE</b>	10. CONTRACTOR/SUPPLIER <b>N/A</b>								
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER		IR NO <b>P-10-632-1-1</b> NO <b>M-342 REV 2</b>	12. ASME AUTHORIZED INSPECTION REQ'D (X) YES ( ) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Rec'g (X) Const ( ) Test								
16. NONCONFORMING CONDITION: <b>F-10 # 1024, REV 0, STATES THAT PIPE SPOOL 2ELB-10-632-1-5 WILL BE INSPECTED TO A CLASS C LEVEL OF CLEANLINESS, ALSO SPECIFICATION M-342, REV 2, PARA 6.3.1 STATES THAT A THIN UNIFORM RUST FILM IS ACCEPTABLE ON CARBON STEEL SURFACES. CONTRARY TO THE ABOVE PIPE SPOOL 2ELB-10-632-1-5 WAS FOUND TO HAVE A 100% HEAVY RUST FILM INTERNALLY.</b>			24. DISPOSITION CONCURRENCE										
<b>Q-LIST # 4.322 ONE Q.C. HOLD TAG APPLIED ON PIPE SPOOL</b>			<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><input checked="" type="checkbox"/></td> <td></td> </tr> </table>			rework	reject	repair	use as is			<input checked="" type="checkbox"/>	
rework	reject	repair	use as is										
		<input checked="" type="checkbox"/>											
17. REPORTED BY <b>M. Wallenda</b>		DATE <b>2-13-79</b>	18. VALIDATED BY <b>J. Barclay</b>		DATE <b>2/13/79</b>								
21. ROUTING: (X) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)			25. DISPOSITION RESULTS										
22. (X) Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering			<b>SPOOL HAS BEEN CLEANED SATISFACTORILY IN ACCORDANCE WITH SPEC M-342, PARA 7.6.2D THERE ALSO WAS NO CONTAMINATION OF ASSOCIATED PIPING</b>										
<b>FIELD TO USE BRUSHING METHOD (PER M-342 PARA 7.6.2D) TO CLEAN SPOOL IN PLACE TO ACCEPTABLE CLEANLINESS LEVEL "C". CAUTION WILL BE TAKEN TO PREVENT RUST FROM CONTAMINATING ANY ATTACHED SPOOLS.</b>			<b>W. Wallenda NTH 2-22-79</b>										
<b>FIELD REQUESTS CONDITIONAL RELEASE TO LET THE FIELD</b>			<b>CONT PG 2</b>										
23. PROJECT ENGINEERING DISPOSITION			26. OF ACCEPTANCE										
<b>Project Engineering concurs with the Field recommendation to weld one end of the spool in place prior to cleaning to allow measurement for the closure spool. Subsequently, the field will clean the subject spool in accordance with the requirements of the applicable specifications without causing damage or contamination of the associated piping, plant equipment of structures. (Per R. Papps of Project Engineering.)</b>			<b>2-16-79</b> <b>J. W. Keltner</b> AUTHORIZED INSPECTOR <b>2/22/79</b> DATE										
<b>J. Keltner</b> <b>2/13/79</b>													

BUCK 22 CONT.

WELD ONE END OF SPOOL IN PLACE PRIOR TO CLEANING TO ALLOW MEASUREMENT FOR CLOSURE SPOOL. CORRECTIONS OR REMOVAL CAN BE ACCOMPLISHED WITHOUT CAUSING DAMAGE OR CONTAMINATION TO THE ASSOCIATED PLANT EQUIPMENT OR STRUCTURE.

Bruce McGeorge 2-13-79 RD. 2/13/79 D. Short 2/13/79

J. J. Boon 2-13-79  
P/E

J. J. Barclay 2/13/79  
P/ACE

J. D. [Signature] 2-13-79  
L/GNE

H. W. Kition 2-13-79  
A. I.

White Copy	-	Originator
Canary Copy	-	Field Engineer
Pink Copy	-	QA/E
Goldenrod Copy	-	QC



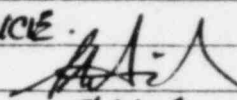
Start Up Code: 1-BGA  
 2-BGA  
 1-BGC  
 2-BGC

NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 1887	20. PAGE 1 OF 1																				
2. UNIT(S) 1 & 2	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION Nuclear Service Control Valves	5. ITEM LOCATION Whse. # 1																					
6. P.O. OR SPEC NO. 7220-J-255-B Rev. 9	7. SERIAL NO. See Blk. 16	8. REPLACEMENT PART P/N N/A REV _____ SER NO. _____	9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Control Components Inc.																					
11. INSPECTION CRITERIA ( ) DWG (x) SPEC ( ) OTHER		IR NO. R-1,00-8662 NO. J-255 Rev. 8	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (x) NO	13. SKETCH ATTACHED ( ) YES (x) NO	14. Discovered During (x) Rec'g ( ) Const ( ) Test	15. Equip Furnished By ( ) Client (x) Eng ( ) FLD																			
16. NONCONFORMING CONDITION: Specification 7220-J-255 Rev. 8 requires the Seller to furnish Quality Verification Documentation as required by Form G-321-D. Contrary to the above, no documentation was received for the soft goods for valves tagged 1 HV-0307, 2 HV0407, 1 LV0344, and 2 LV0444. "Q" number is 5,022. 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></td> <td></td> <td></td> <td></td> </tr> </table> <table border="1"> <tr> <td>PROJECT ENGINEER</td> <td>DATE</td> </tr> <tr> <td><i>[Signature]</i></td> <td>1/20/79</td> </tr> <tr> <td>PROJ CONSTR Q.C. ENGINEER</td> <td>DATE</td> </tr> <tr> <td><i>[Signature]</i></td> <td>2/21/79</td> </tr> <tr> <td>AUTHORIZED INSPECTOR</td> <td>DATE</td> </tr> <tr> <td></td> <td></td> </tr> </table>		rework	reject	repair	use as is					PROJECT ENGINEER	DATE	<i>[Signature]</i>	1/20/79	PROJ CONSTR Q.C. ENGINEER	DATE	<i>[Signature]</i>	2/21/79	AUTHORIZED INSPECTOR	DATE		
rework	reject	repair	use as is																						
PROJECT ENGINEER	DATE																								
<i>[Signature]</i>	1/20/79																								
PROJ CONSTR Q.C. ENGINEER	DATE																								
<i>[Signature]</i>	2/21/79																								
AUTHORIZED INSPECTOR	DATE																								
17. REPORTED BY <i>[Signature]</i>	DATE 2-15-79	18. VALIDATED BY <i>[Signature]</i>	DATE 2-15-79	25. DISPOSITION RESULTS Documentation received, reviewed + accepted. <i>[Signature]</i> 2-23-79																					
21. ROUTING: (x) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)		22. (x) Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering Procurement Supervisor to obtain documentation.  D. Short 2/29/79																							
23. PROJECT ENGINEERING DISPOSITION																									
26. QC ACCEPTANCE <i>[Signature]</i> 2-23-79 QC ENGINEER DATE AUTHORIZED INSPECTOR DATE																									

S/U - 1-EAD (1T-1902 (1906)  
 S/U - 1-E&A (1608B)

NONCONFORMANCE REPORT

1. PROJECT NAME <b>Midland</b>		JOB NO. <b>7220</b>		19. NO. <b>1889</b>	20. PAGE <b>1</b> OF <b>1</b>			
2. UNIT(S) <b>Common</b>	3. DRAWING/PART NO. <b>N/A</b>	REV <b>N/A</b>	4. ITEM DESCRIPTION <b>Floor Mounted Instrument Racks</b>	5. ITEM LOCATION <b>Aux. Bldg.</b>				
6. P.O. OR SPEC NO. <b>N/A</b>	7. SERIAL NO. <b>N/A</b>	8. REPLACEMENT PART P/N <b>N/A</b> REV <b>N/A</b> SER NO. <b>N/A</b>		9. SOURCE <b>Construction</b>	10. CONTRACTOR/SUPPLIER <b>N/A</b>			
11. INSPECTION CRITERIA ( ) DWG ( ) SPEC (X) OTHER		IR NO. <b>N/A</b> <b>NOC-1.10 Rev. 8</b>	12. ASME AUTHORIZED INSPECTION REQ'D ( ) YES (X) NO	13. SKETCH ATTACHED ( ) YES (X) NO	14. Discovered During ( ) Rec'g (X) Const ( ) Test	15. Equip Furnished By ( ) Client ( ) Eng (X) FLD		
16. NONCONFORMING CONDITION: PQCI C-1.10 Rev. 8 states "Quality Control is to provide sufficient inspection activities to assure that required quality is achieved in grouting operations." Contrary to the above, floor mounted instrument racks 1FT-1902, 1FT-1906, & 1PT-1608B are "Q" listed and were grouted as Non "Q". These instrument racks are located on elevation 584' & 599' in the Auxiliary Bldg.  Hold for Engineering Disposition. "Q" Listed # 5.033. 3 Hold Tags Applied.					24. DISPOSITION CONCURRENCE			
					rework	reject	repair	use as is
					PROJECT FIELD ENGINEER	DATE		
					PROJECT ENGINEER	DATE		
					PROJ CONSTR QC ENGINEER	DATE		
					AUTHORIZED INSPECTOR	DATE		
17. REPORTED BY <b>Kathy Gurnee</b> DATE <b>2/15/79</b>					18. VALIDATED BY <b>Barclay</b> DATE <b>2-16-79</b>			
21. ROUTING: (X) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)					25. DISPOSITION RESULTS			
22. ( ) Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering					<b>REINSPECTION OF THE ABOVE NOTED NONCONFORMANCES HAS FOUND THEM CONFORMING. THEREFORE THIS IS NOT A NON-CONFORMANCE.</b>  <b>2/19/79</b>			
23. PROJECT ENGINEERING DISPOSITION								
					26. OC ACCEPTANCE	DATE		
					OC ENGINEER	DATE		
					AUTHORIZED INSPECTOR	DATE		



Block No. 16 (CONT'D)

RUN # 100A, do not show or call out the connection used as installed.

Hold for engineering disposition. Q List # 3.005

2 Hold tags applied to supports.



NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. 1894 NO.	20. PAGE 1 OF 1	
2. UNIT(S) Indeter- minate	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION 9 Pcs. of 2" Sch. 80 C.S. Pipe SA-106 Gr. B	5. ITEM LOCATION Fosey, Laydon Area		
6. P.O. OR SPEC NO. 7220-F-33799	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N _____ REV _____ SER NO. N/A		9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Givon Alloy	
11. INSPECTION CRITERIA ( ) DWG (x) SPEC ( ) OTHER		IR NO. R-1.00-8861 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: PQCI-3-1.00 Section 4.2 requires traceability of material to documentation package. Contrary to the above, 9 pieces of 2" pipe on slipper # T-00275 are not traceable due to illegible marking of the heat numbers. "0" number is indeterminate until installation. Hold pending final disposition. 2 hold tag(s) applied to nonconforming item(s).				24. DISPOSITION CONCURRENCE rework reject repair use as is <i>[Signature]</i> 2/22/79 PROJECT FIELD ENGINEER DATE <i>[Signature]</i> 2-23-79 PROJECT ENGINEER DATE PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE		
17. REPORTED BY <i>Michael J. Moore</i> 2-16-79		18. VALIDATED BY <i>[Signature]</i> 2-16-79		25. DISPOSITION RESULTS 9 pcs. marked and segregated into NON-Q storage area <i>MJM</i> 3-1-79 <i>D. Short</i> 2/22/79		
21. ROUTING: (x) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)						
22. <input checked="" type="checkbox"/> Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering						
23. PROJECT ENGINEERING DISPOSITION <input checked="" type="checkbox"/> 9 pcs. to be down graded to non-Q. Each piece to be marked full length with a solid yellow stripe.						
26. QC ACCEPTANCE <i>[Signature]</i> 3-1-79 QC ENGINEER DATE AUTHORIZED INSPECTOR DATE						



Start Up Code: Non Testable Unit

## NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. 1916 NO.	20. PAGE 1 OF 2	
2. UNIT(S) Common	3. DRAWING PART NO. See Block 16	REV	4. ITEM DESCRIPTION Misc. Support Steel	5. ITEM LOCATION Poseyville		
6. R.O.C. SPEC NO. C-233 R.16	7. SERIAL NO. See Blk. 16	8. REPLACEMENT PART P/N N/A REV	SER NO.	9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Wiltse Company	
11. INSPECTION CRITERIA ( ) DWG (X) SPEC ( ) OTHER		IR NO. R-1.00-9057 NO. C-233 Rev. 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: Para. 11.1, Specification C-233, Rev. 16 states in part that Form G-321-D will be provided for shipment. Contrary to this requirement, the following items were received without documentation: MK28CA8, 28CA8A, 28CA9, 28CA10, 28CA11 (4), 28CA1 (2), 28CA2 (2), 28CA3, 28CA4, 28CA5, 28CA6, 28CA7, 28CA7A, 27B4, 27B5, 27B6, 27B7, 27B8, 28B1, 28B2, MK-28B3, 26E2, 26B3, 26B4, 26B5, 26B6, 26B7, 27B2, 27B3, 25C1, 25P1, 25P2, 25P3, 25P4, 25P5, 26C1, 26B1, 24B6, 25B1, 25B2, 25B3, 25B4, Continued on Page 2				24. DISPOSITION CONCURRENCE rework reject repair use as is D.C. [Signature] 2/27/79 PROJECT FIELD ENGINEER DATE W.S. [Signature] 2/28/79 PROJECT ENGINEER DATE PROJ CONSTR. ENGINEER DATE AUTHORIZED INSPECTOR DATE		
17. REPORTED BY Rick A. Montrose		DATE 2-27-79	18. VALIDATED BY W.S. [Signature]		DATE 2-27-79	
21. ROUTING: (X) TO FIELD ENGINEERING ( ) TO OTHERS (SPECIFY)						
22. (X) Field Engineering Disposition ( ) Field Engineering Recommended Disposition to Project Engineering PROCUREMENT SUPERVISOR TO OBTAIN PROPER DOCUMENTATION. [Signature] 2/27/79 Warrant for DOH 2/27/79						
23. PROJECT ENGINEERING DISPOSITION						
25. DISPOSITION RESULTS Documentation is received and reviewed. Rick A. Montrose 2-28-79						
26. QC ACCEPTANCE Rick A. Montrose 2-28-79 QC ENGINEER DATE AUTHORIZED INSPECTOR DATE						



## NONCONFORMANCE REPORT (CONT'D)

20PAGE 2 OF 2

19NCR NO 1916

Block 16 Continued

25B5, 25B6, 25B7, 23C5, 24C1, 24C2, 24B1, 24B2, 24B3, 24B4, 24B5, 6B1, 6B3, 23B1, 23B2, 23B3, 23C1, 23C2, 7/8"  $\phi$  x 2" long A-325 Bolts with nuts and washers (58), 7/8"  $\phi$  x 2 $\frac{1}{4}$ " long A-325 bolts (28), and 7/8"  $\phi$  2 $\frac{1}{2}$ " long A-325 bolts.

"Q" number is indeterminate. 63 hold tag(s) attached.





J. F. Newgen  
SD-139  
Page 2

- 3) Review current status of all work prints in the two locations viz control room area and elevation 704 feet.

Bechtel Power Corporation

Post Office Box 2167  
Midland, Michigan 48640



February 7, 1979

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

Attention: J. L. Corley

Job 7220 Midland Project  
Project QAR SD-140 Issue

LAD: 686

Dear Mr. Corley:

Attached for your information is a copy of the subject QAR SD-140 Issue.

Very truly yours,

L. A. Dreisbach  
Project Quality Assurance Engineer

LAD/RCH/re

CC: W. Bird

DIS.	NO.	ACT.
ROUTE		
VOICE		
CIVIL (I)		
MECH		
PIPING		
ELECT.	✓	586
INST.		
TREND	✓	
SECY		
TELEPH		

# QUALITY ACTION REQUEST

From:	L. A. Dreisbach	Job 7220	①
To:	R. L. Castleberry	Control Document ref.: No criteria for scheduled pullboxes	②
		QAR Ident. No.: 50-140	④
Action Requested:	There is no established criteria for determining the location of conduit entries to scheduled pullboxes for the "C" dimension (the distance between conduits in adjacent side of scheduled pullbox) - see attached recommendation action:		⑤
	1. Establish criteria for determining the location for conduit entries to scheduled pullboxes.		
Signature:	<i>R.C. Heller</i>	Date: 2/5/79	⑥
		Reply Requested by: 2/23/79	⑦
Reply:			⑧
Signature:		Date:	⑩
Action Verified:		Date:	⑫

8-2-74



Bechtel Power Corporation

Post Office Box 2167  
Midland, Michigan 48640



February 19, 1979

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

Attention: J. L. Corley

Job 7220 Midland Project  
Project QAR SD-141 Issue  
LAD: 708

Dear Mr. Corley:

Attached for your information is a copy of the subject QAR SD-141 Issue.

Very truly yours,

A handwritten signature in cursive script that reads "L. A. Dreisbach".

*for* L. A. Dreisbach  
Project Quality Assurance Engineer

LAD/RA/bjc

cc: W. Bird

# QUALITY ACTION REQUEST

From:	L. A. Dreisbach		①
To:	J. F. Newgen/A. J. Boos	Control Document ref.: BQAM-ASME III Div. 1	QAR Ident. No.: SD-141
	②	③	④
Action Requested:	<p>Contrary to the requirements of paragraph 5143 of Section 5000 of BQAM and paragraph 2 of the Special Instructions for QCI 7220/W-1.00, IOM from the PFE to the construction manager (File 0-2131) dated February 5, 1979, authorizes an individual that is not classified as a LFWE or FWE to sign QCIR's.</p> <p>Action requested:</p> <p>1) Rescind IOM and issue IOM that complies with the project requirements.</p>		
	⑤		
Signature:	<i>G. J. [unclear] for L. Dreisbach</i>	Date:	3-10-79
	⑥	⑦	⑧
Reply:		Reply Requested by:	3-1-79
	⑨		
Signature:		Date:	
	⑩	⑪	⑫
Action Verified:		Date:	
	⑬	⑭	⑮

8/2/74

WHITE - Return to sender

CANARY - Addressee's file

PINK - Sender's file

Bechtel Power Corporation

Post Office Box 2167  
Midland, Michigan 48640



February 16, 1979

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

Attention: J. L. Corley

Job 7220 Midland Project  
Project QAR SD-142  
LAD: 706

Dear Mr. Corley:

Attached for your information is a copy of the subject QAR SD-142  
Issue.

Very truly yours,

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

L. A. Dreisbach  
Project Quality Assurance Engineer

LAD/RV/bjc

cc: W. Bird

# QUALITY ACTION REQUEST

From:	L. A. Dreisbach	Job 7220 Midland Project	①
To:	W. Barclay/	Control Document ref.:	③
	J. Newgen/A. Boos	FIP 1.112 & SF/PSP G-3	②
		QAR Ident. No.:	④
		2 SD-142	
Action Requested:	During a monitor of piping support modification and		
	erection the following was noted:		
	1) As-built weld joint configuration is not as shown on the		
	Resident Engineer's approved hanger sketch No. 2-631-1-1		
	sheet 1 of 1 Bechtel Field Rev. Sub 3/F1. This is contrary		
	to the requirements of FIP 1.112 Rev. 2 which states in part		
	that modified support changes shall be ballooned, initialed		
	and dated by the FE; approved by the Resident Engineer		
	prior to allowing work to proceed. Reference discrepancy		
	Report No. W-555 (continued on next page)		
Signature:	⑥	Date:	⑦
<i>[Handwritten Signature]</i>		2-16-79	⑧
		Reply Requested by:	⑨
Reply:		3-1-79	
Signature:	⑩	Date:	⑪
Action Verified:	⑫	Date:	⑬

8/2/74

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PPC 23877  
G1001649 05

- 2) Paragraph 3.2.5 of SF/PSP requires that nonconformances discovered during in-process inspection activities which are not correctable by further prescribed processing in accordance with the original design document shall be reported by use of an NCR.

Contrary to the above requirement, the reported condition in discrepancy Report W-555 was not identified on an NCR.

Action Requested For Item 1:

Appraise construction supervision of the requirements of the above referenced field instruction FIP 1.112. Review current Project approved documents that require modification to ascertain that the modification(s) are in accordance with the applicable sections of the referenced field instruction.

Action requested For Item 2:

Initiate or cause to initiate an NCR in accordance with the referenced SF/PSP.

Appraise responsible individuals of the above requirement by re-instruction or instruction.

The above findings were discussed with the PFQCE and Assistant PFE (Mech.) Mssr. W. Barclay and J. Gilmartin on 2/15/79.

Bechtel Power Corporation

Post Office Box 2167  
Midland, Michigan 48640



February 20, 1979

Consumers Power Company  
P.O. Box 1953  
Midland, MI 48640

Attention: J. L. Corley

Job 7220 Midland Project  
Project QAR SD-143  
LAD: 710 Action Item: 591

Dear Mr. Corley:

Attached for your information is a copy of the subject QAR  
SD-143 issue.

Very truly yours,

L. A. Dreisbach  
Project Quality Assurance Engineer

LAD/RCH/bjc

cc: W. Bird



panels.

Recommended Action:

1. Field Engineering should provide provisions in applicable field procedure/instructions to provide protection where field routed cable presses against sharp edges.
2. Quality Control should include appropriate PQCI an inspection attribute that verifies that field routed cable is not being routed over sharp corners or edges inside a cabinet/panel.
3. Quality Control should re-inspect the subject MCC panels and identify all discrepant conditions. In addition, re-inspect all Q cabinets/panels which have been terminated for this type of discrepancy.



Bechtel Power Corporation

Post Office Box 2167  
Midland, Michigan 48640



February 20, 1979

Cons Power Company  
P.O. 1963  
Midl MI 48640

Atten: J. L. Corley

Job 7220 Midland Project  
Project QAR SD-144  
LAD: 711 Action Item: 590

Dear J Corley:

Attach for your information is a copy of the subject QAR SD-144  
Issue.

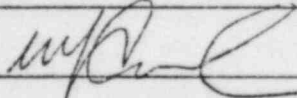
Very truly yours,

*LAD* - L. A. Dreisbach  
Project Quality Assurance Engineer

LAD/WC/bjc

CC: W. Bird

# QUALITY ACTION REQUEST

From: L. A. Dreisbach		①
To: R. L. Castleberry	② Control Document ref.: See below	③ QAR Ident. No.: SD-144
Action Requested:		⑤
Document Reference: FPG-5.000/Rev. 3, F10-204/Rev. 0, and FPG-7.000/Rev.0		
Interiors of the E.S.F.A.S. Sensor Cabinets 2CA, 2CB, 2CC and 2CD (2C43) and the Actuation Cabinets ACA and ACB (2C44) are dirty.		
It is requested that the following be evaluated:		
(1) Potential detrimental effects of excessive amounts of dust and minute metal- lic particles produced by grinding contaminating the interiors of these panels and the need for corrective action.		
(2) Effectiveness of and the need for improvement of panel protection during plant construction		
Signature: 	⑥ Date: 2/20/79	⑦ Reply Requested by: 3/16/79
Reply:		⑧
		⑨
		⑩
		⑪
		⑫
		⑬
Signature:	⑩ Date:	⑪
Action Verified:	⑫ Date:	⑬

8/2/74

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BPC 20877  
G1001649-05

Bechtel Power Corporation

Post Office Box 2167  
Midland, Michigan 48640



March 1, 1979

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

Attention: J. L. Corley:

Job 7220 Midland Project  
Project QAR SD 145  
LAD: 721 Action Item: 609

Dear Mr. Corley:

Attached for your information is a copy of the subject QAR SD-145  
Issue.

Very truly yours,

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

L. A. Dreisbach  
Project Quality Assurance Engineer

LAD/TKS/cb

CC: W. Bird

# QUALITY ACTION REQUEST

AI 609

From: L. Dreisbach		①
To: W. L. Barclay	② Control Document ref.: PSP/G-6.1 Rev. 4	③ QAR Ident. No.: SD 145
Action Requested: Section 9.1 of PSP referred above states in part, " IRs prepared by QCE are stamped 'Record Copy'..." QCIRs FSC 206-40, 46 & 55 (Log No. 21426, 26366 & 26375) did not have Record Copy stamp; in addition, QCIR FSC 206-46 (Log No. 26366) dealt with inspection performed during October '78 while the IR itself was issued on 1-3-79 and closed on 1-3-79. You are requested 1) to correct discrepancies identified; 2) to indoctrinate QCEs concerned provisions of PSP G-6.1 particularly timely opening of QCIRs; 3) provide assurance that similar discrepancies are not found in other QCIRs.		⑤
Signature: <i>R. Subramanian</i> 2-28-79	⑥ Date: 2-28-79	⑦ Reply Requested by: 3-28-79
Reply:		⑧
Signature:		⑩ Date:
Action Verified:		⑫ Date:

B/2/74

Bechtel Power Corporation

Post Office Box 2167  
Midland, Michigan 48640



February 13, 1979

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

Attention: J. L. Corley

Job 7220 Midland Project  
Project QAR SD-117 Closeout  
LAD: 697 Action Item: 505

Dear Mr. Corley:

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

Very truly yours,

L. A. Dreisbach  
Project Quality Assurance Engineer

LAD/BA/bjc

cc: W. Bird

QUALITY ACTION  
REQUEST

AI - 300

From:	L. A. Dreisbach	Site QA	Job 7220	(1)
To:	J. Newgen/A. Boos	(2) Control Document ref.: Welding Control	(3) QAI Ident. No.: SD-117	(4)
Action Requested:	Field Welding Checklist for socket weld No. 1 at the			
	decay heat exchanger No. 2E60B indicates Welding Procedure Specification			
	P8-T-AG Rev. 2 and ER309 filler metal was used.			
	Socket weld half coupling at the shell side of the heat exchange is			
	noted as carbon steel (PI) material on equipment manufacturer's bill of			
	material.			
	Piping material installed per FSK M-2FCB-542 is stainless steel (P8)			
	material.			
	(continued on next page)			
Signature:	<i>L.A. Dreisbach</i>	(6) Date:	11/15/78	(7) Reply Requested by:
				12/1/78
Reply:	Acceptable response has been provided to close out both Project Quality			
	Assurance Action Request items:			
	1) NCR 1800 was issued as requested in Item (1)			
	2) Responsible individuals were appraised of the condition. Reference IOM, dated			
	2-5-79, J. F. Newgen to L. A. Dreisbach (File 0-2133).			
	QCE's have been appraised through their initiation of ICR 1800.			
Signature:	See above referenced IOM			(10) Date:
Action Verified:	<i>[Signature]</i>			(12) Date: 2-13-79

1-2-74

Form 34 note 20 does not list P8-T-AG for the welding of P8 to P1.

Project QA requests the following actions:

- 1) Initiate an NCR to resolve the discrepancy noted on the WR5A.
- 2) Appraise the FE and QCE's by copy of this QAR of the reported condition.

Bechtel Power Corporation

**RECEIVED**

Interoffice Memorandum

FEB 7 1979

To: L. A. Dreisbach BECHTEL POWER CORP. Date: February 5, 1979

Subject: Job 7220 Midland Project **JOB 7220**  
 QAR 3D-118 PER re I-79-067 From: J. F. Newgen  
 0-2133

Of: Construction  
 At: Midland, MI

QA	INFO.	ACT.
ROUTE		
LQAE		
CIVIL (I)		
MECH		
PIPING		
ELECT		
INSUL		
IND		
QAR:		
FILE NO.	02207	

Copies to:  
 R. MacDonald  
 J. Hedges

This memo is written in response to the subject QAR. Be advised that the following actions have been taken in response to this

- 1) NCR #1800 dated January 10, 1979 has been issued to identify and resolve the physical nonconformance.
- 2) FSK-M-1FCB-54-2 Rev. 1 and FSK-M-2FCB-54-2 Rev. 1 were revised to agree with P&ID M-416 sheet 1 and M-417 sheet 1 for the shell side drains.
- 3) A copy of the QAR was distributed to the appropriate small pipe designers and checkers for their acknowledgment and to, hopefully, minimize the occurrence of similar problems.

*J. F. Newgen*  
 J. F. Newgen

JFN/AJB/jas



Bechtel Power Corporation

Post Office Box 2167  
Midland, Michigan 48640



February 26, 1979

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

Attention: J. L. Corley

Job 7220 Midland Project  
Project QAR SD-129 Closeout  
LAD: 715 Action Item: 561

Dear Mr. Corley:

Attached for your information is the subject QAR SD-129  
Closeout.

Very truly yours,

A handwritten signature in cursive script that reads "L. A. Dreisbach".

L. A. Dreisbach  
Project Quality Assurance Engineer

LAD/bjc

cc: W. Bird

QUALITY ACTION  
REQUEST

A/E 561

From: L. A. Dreisbach		(1)
To: R. L. Castleberry	(2) Control Document ref.: Inadvertent Flooding of the Aux. Bldg.	(4) QAR Ident. No.: 50-129
Action Requested: On 1-18-79, water inadvertently entered the Auxiliary Bldg. from the service water structure after failure of the temporary dewatering pump in the service structure. The water reached a depth of 8" in the bottom level (El. <del>55</del> <sup>568</sup> ) of the Auxiliary Bldg. You are requested to:		(5)
1. Provide assurance that adequate flooding preventative considerations was included in the design of Midland.		
Signature: <i>L. Smith</i>	(6) Date: 1-22-79	(7) Reply Requested by: 2-22-79
Reply:		(9)
SEE ATTACHMENT.		
The attached PE Response indicates Adequate consideration of potential Flooding was <del>not</del> <sup>considered</sup> included in the design of Midland, including the Abnormal mode of Unit Two (2) operational with Unit One (1) still under construction.		
Signature: <i>M. O. Howell for PE</i>		(10) Date: 2-7-79
Action Verified: <i>L. Smith</i>		(12) Date: 2-9-79

8/2/74

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PINK - Sender's file

EPC 20877  
G1001649-05

6-D  
5/2/79

## RESPONSE TO QAR 5D-129

AS PER D.W. TOOKER'S DISCUSSION WITH MR. G. SMITH WATER SEEPED INTO THE AUX. BLDG. FROM THE SERVICE STRUCTURE TO THE TURBINE BLDG. SUMP TO THE AUX. BLDG.. THE SEALS IN THE TUNNEL CONNECTING THE TURBINE AND AUX. BLDGS MUST NOT BE INSTALLED.

SO THE ABOVE DESCRIBED PATH COULD NOT HAVE OCCURRED IF THE PIPE WELDS HAD BEEN COMPLETE. A DETAILED FLOODING ANALYSIS WAS PERFORMED CONSIDERING (1) BOTH UNITS OPERATIONAL AND (2) UNIT 2 OPERATING WITH UNIT 1 UNDER CONSTRUCTION. WATER STOPS, SEALS, AND WATER TIGHT DOORS AND PENETRATIONS HAVE BEEN PROVIDED TO ENSURE THAT WATER WILL NOT BE INADVERTENTLY ENTER THE AUXILIARY BUILDING DURING ANY NORMAL MODE OF PLANT OPERATION.

MS  
D  
S  
S

Bechtel Power Corporation

Post Office Box 2167  
Midland, Michigan 48640



February 26, 1979

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

Attention: J. L. Corley

Job 7220 Midland Project  
Project QAR SD-133 Closeout  
LAD: 714 Action Item: 567

Dear Mr. Corley:

Attached for your information is the subject QAR SD-133  
Closeout.

Very truly yours,

A handwritten signature in dark ink, appearing to read "L. A. Dreisbach". The signature is written in a cursive style with some loops and flourishes.

L. A. Dreisbach  
Project Quality Assurance Engineer

LAD/BA/bjc

cc: W. Bird



1. a) Finding:

IRs marked "Record Copy" for the original field welds 8 & 11 indicates two WPS P1-AT-LH (CVN) & P1-T-oe (CVN) FWE's (Pink) copy indicates only P1-T-oe (CVN) was lined out. Certain changes were made to the general instructions in the FWE's (Pink) copy. The changes included inclusion of a 500<sup>o</sup>F interpass temp. and the lining out of one of the WPS viz- P1-AT-LH (CVN). These changes were not reflected in the record copies of the IRs.

b) Requirement:

QCI/IR W.00A form has provisions to identify the appropriate welding procedure specification (WPS) in block 6. Para. 6.4 of FPW 4.000 states in part that the retention of copy #4 (FWE's pink copy) by the LFWE or LWQCE is optional.

c) Quality Action Request:

- 1) Revise FPW 4.000 to require that any changes in the FWE's (Pink) copy # 4 shall be incorporated in the Record Copy prior to performing the work or require the altered FWE's (Pink) copy be forwarded to LWQCE for inclusion in the document pkg. and:
- 2) It is requested that responsible individuals be re-instructed or instructed in the applicable procedural requirements and perform an effective and documented review of the IRs for similar conditions and correct such conditions where they exist in accordance with the applicable procedures.

Bechtel Power Corporation

Interoffice Memorandum

To L. Dreisbach

Subject Job 7220 Midland Project  
Quality Action Request  
No. 567  
0-2148

Copies to Judi Hedges/A. Boos  
G. Smith  
R. Ablondi

Date February 15, 1979

From J. F. Newgen

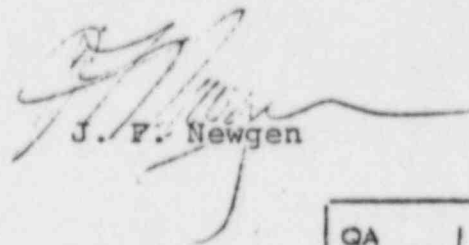
Of Construction

At Midland, MI

Reference: QAR Indent No. SD-133

This letter is in response to QAR #SD-133, Item #1.

- A) FPW-4.000 has been revised to show the necessary mechanism to accomodate in-field changes to the QCIR W-1.00A or W-1.00B forms to assure all copies of the IR reflect the same data.
- B) A review was performed on issued IR's to establish it and correct any similar inconsistencies which may exist.
- C) A training session was held February 2, 1979, re-instructing the Field Welding personnel in regard to the requirements for issuing maintaining and revising documentation which has been issued for use in the field.

  
J. F. Newgen

JFN/KCB/vmm

QA ROUTE	INFO.	ACT.
LGAE	WAD	
CIVIL (1)		
MACH		
PIPING		
ELECT		
UNST.		
IND		
SECY		
FILE NO.	2200	

RECEIVED

BECHTEL POWER CORP.  
NEW YORK

REF 876 I-79-182

REPORT OF NONCONFORMITY

BABCOCK & WILCOX  
B&W CONSTRUCTION COMPANY

TO BE COMPLETED BY FIELD QC

SYSTEM OR PART NAME 1 WJ 6-4 Hot Weld Cladding UNIT #2		JOB NO. 2 CL-238	DATE 3 2-1 9
DRAWING VIOLATED & REV. 4 150177E		VENDOR NAME 5 B&W Mt. Vernon	
PROC./SPEC. VIOLATED 7 FCP #20, Unit #2		P.O. NO. 8 N/A	
CORRECTIVE ACTION REQUIRED 11 <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		REJECT TAG NOS. 6 133-138 Rev. 2-1-79	
		PART NO. 9 Spools A24-2 to A-3310	
		SYSTEM DESIGNATION 10 Reactor Coolant	
		REPORTED BY 12 J. R. Jones / J. Jones w/ Shop	

CONDITION DETAILS

Weld metal was deposited in cavities in cladding on WJ 6-4. Welding was performed prior to initiation of the "weld repair date record". However, the welding data was recorded on the "weld control record" form for the subject weld.

CONDITION DETAILS VERIFIED BY 13 B&W QC SUPV. <u>Rw Shope</u> DATE <u>2-1-79</u>		DISPOSITION REQUESTED FROM 14 <input checked="" type="checkbox"/> B&W CONSTRUCTION <input type="checkbox"/> 15 BY <u>Rw Shope</u> DATE <u>2-1-79</u>	
---	--	--	--

REPORTABILITY PER 10 CFR 50.55 (E)

16  REPORTABLE  NON-REPORTABLE BY D. E. Kinsler DATE 2-1-79

TO BE COMPLETED BY F.P. ENGINEERING

DISPOSITION INSTRUCTIONS ACTION

ACCEPT AS IS  SCRAP  REWORK  RETURN TO VENDOR

Recommend accepting as is based on the following. DEK 2-2-79

P.T. indications were removed by grinding.  
Cavities were visually inspected and approved by the welding superintendent.  
Welding was performed by a certified welder using proper electrode as noted on WCR #000213.

P.T. repair area per 9-PT-101.  
Grind indications as necessary & clear per 9-PT-101.  
If necessary weld repair cavities per WIN-105-3.

17 P.T. repair areas as necessary per 9-PT-101.

DISPOSITION APPROVED BY		DISPOSITION DETAILS BY	
B&W QC SUPV. <u>Rw Shope</u> DATE <u>2-2-79</u>	B&W FPE <u>D. E. Kinsler</u> DATE <u>2-2-79</u>	19 <u>D. E. Kinsler</u> <u>2-2-79</u>	
OTHER <u>R. E. Whitaker</u> DATE <u>2/16/79</u>	OTHER _____ DATE _____	ACTION COMPLETED	
18		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 \_\_\_\_\_

TO BE COMPLETED BY FIELD PROJECT MANAGER

CORRECTIVE ACTION DESCRIPTION

Welding papers that are in a reject status or some other form of hold, for any reason that no other work is to be performed until resolved, shall be placed in a hold file to prevent those papers from being placed back in the working file.

V. N. Angerman  
FIELD PROJECT MANAGER

23

ANI

ANI ACCEPTANCE C. W. Ange DATE 2-22-79

24

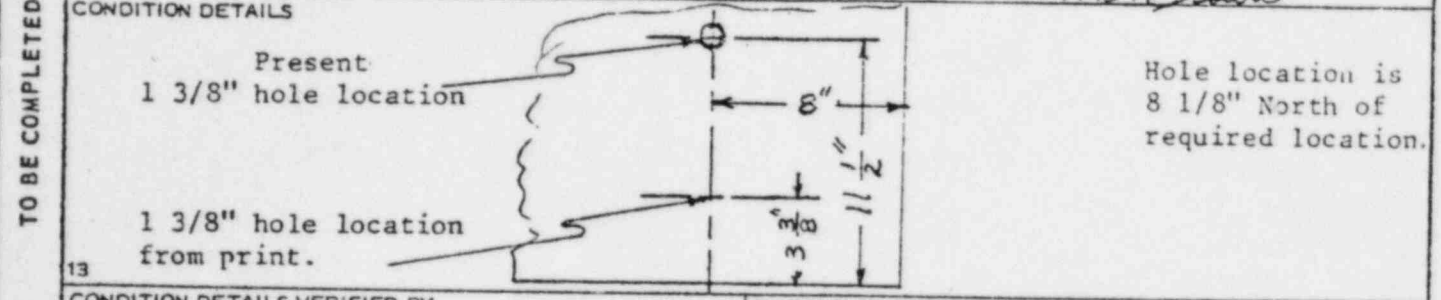


TO BE COMPLETED BY FIELD QC	SYSTEM OR PART NAME		JOB NO.	DATE
	1 Reactor Coolant Piping		2 CL-238	3 2-6-79
	DRAWING VIOLATED & REV. VENDOR NAME		REJECT TAG NOS.	
	4 151873E, Rev. 1	5 B&W	6 139	
	PROC./SPEC. VIOLATED Unit #1		PART NO.	SYSTEM DESIGNATION
	7 FCP #43, Rev. 0	8 M1.9	9 B-40-2013-50-1	10 Reactor Coolant
	CORRECTIVE ACTION REQUIRED		REPORTED BY	
	11 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		12 J. W. Rheinhardt / <i>[Signature]</i>	
	CONDITION DETAILS			
	Mk. No. A-46 nozzle weld prep was found damaged during receive and inspect of the part. (See sketch for specific damage).			
TO BE COMPLETED BY FIELD QC	CONDITION DETAILS VERIFIED BY		DISPOSITION REQUESTED FROM	
	14 B&W QC SUPV. <i>R W Hope</i> DATE <i>2-6-79</i>		15 <input checked="" type="checkbox"/> B&W CONSTRUCTION <input type="checkbox"/> DATE <i>2-6-79</i>	
	16 REPORTABILITY PER 10 CFR 50.55 (E) <input type="checkbox"/> REPORTABLE <input checked="" type="checkbox"/> NON-REPORTABLE BY <i>D. E. Kincaid</i> DATE <i>2-12-79</i>			
TO BE COMPLETED BY F.P. SUPERVISOR	DISPOSITION INSTRUCTIONS ACTION			
	<input type="checkbox"/> ACCEPT AS IS <input type="checkbox"/> SCRAP <input checked="" type="checkbox"/> REWORK <input type="checkbox"/> RETURN TO VENDOR			
	Grind weld prep as necessary to remove damaged metal and to prepare joint for fit-up. Inspect ground area per 9-PT-102. Remove indications by grinding and clear per 9-PT-102.			
TO BE COMPLETED BY FIELD QC	DISPOSITION APPROVED BY		DISPOSITION DETAILS BY	
	18 B&W QC SUPV. <i>R W Hope</i> DATE <i>2-12-79</i>		19 B&W Const. Co. <i>BEK</i>	
	B&W FPE <i>D. E. Kincaid</i> DATE <i>2-12-79</i>		ACTION COMPLETED	
TO BE COMPLETED BY FIELD QC	REWORK INSPECTION <input type="checkbox"/> REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE <input type="checkbox"/> REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE			
	21 BY _____ DATE _____ REPORT OF NONCONFORMITY _____			
	NON CONFORMITY CLOSED B&W QC SUPV. _____ DATE _____			
TO BE COMPLETED BY FIELD QC	CORRECTIVE ACTION DESCRIPTION			
	23 _____ FIELD PROJECT MANAGER			
TO BE COMPLETED BY FIELD QC	ANI ACCEPTANCE <i>C. W. [Signature]</i> DATE <i>2-23-79</i>			
	24 _____			

REPORT OF NONCONFORMITY

BABCOCK & WILCOX  
B&W CONSTRUCTION COMPANY

SYSTEM OR PART NAME		JOB NO.	DATE
1 Incore Instrumentation Support Unit #1		2 CL-238	3 2-12-79
DRAWING VIOLATED & REV.	VENDOR NAME		REJECT TAG NOS.
4 1-351-HPU Sht. 1 of 12	5 Standish		6 #140
PROC./SPEC. VIOLATED	P.O. NO.	PART NO.	SYSTEM DESIGNATION
7 FCP #9 Unit #1	8 M-106 AC	9 ICI-HPU #23	10 Incore Instr.
CORRECTIVE ACTION REQUIRED		REPORTED BY	
11 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		12 R. D. Brown / <i>R. D. Brown</i>	



CONDITION DETAILS VERIFIED BY		DISPOSITION REQUESTED FROM	
B&W QC SUPV. <i>R. W. Hoge</i> DATE <i>2-12-79</i>		<input checked="" type="checkbox"/> B&W CONSTRUCTION <input type="checkbox"/>	
14		15 BY <i>R. D. Brown</i> DATE <i>2-12-79</i>	

REPORTABILITY PER 10 CFR 50.55 (E)

REPORTABLE  NON-REPORTABLE BY *D. E. Kincaid* DATE *2-12-79*

DISPOSITION INSTRUCTIONS ACTION

ACCEPT AS IS  SCRAP  REWORK  RETURN TO VENDOR

Drill 1 3/8" diameter hole in proper location.  
Bechtel approval required.

DISPOSITION APPROVED BY		DISPOSITION DETAILS BY	
B&W QC SUPV. <i>R. W. Hoge</i> DATE <i>2-22-79</i>	B&W FPE <i>D. E. Kincaid</i> DATE <i>2-22-79</i>	19 Per Bechtel Drawing 1-351-HPU (Q) FR-1 2/16/79, Sheet 6 of 12. <i>ACH 2-22-79</i>	
OTHER <i>R. E. Whitaker</i> DATE <i>2/26/79</i>	OTHER _____ DATE _____	ACTION COMPLETED	
18	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 B&W QC SUPV. \_\_\_\_\_ DATE \_\_\_\_\_

22

CORRECTIVE ACTION DESCRIPTION

23

FIELD PROJECT MANAGER

ANI ACCEPTANCE *J.R. [Signature]* DATE *2-27-79*

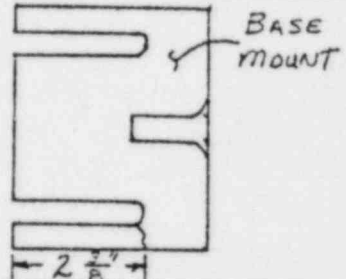
24

REPORT OF NONCONFORMITY

BABCOCK & WILCOX  
B&W CONSTRUCTION COMPANY

TO BE COMPLETED BY FIELD QC

SYSTEM OR PART NAME 1 Aux. oil system pump for make-up pump		JOB NO. 2 CL-238	DATE 3 2/15/79
DRAWING VIOLATED & REV. 4 71-500-040		VENDOR NAME 5 B&W Canada	
PROC./SPEC. VIOLATED 7 FCP #37		REJECT TAG NOS. 6 #141	
CORRECTIVE ACTION REQUIRED 11 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		P.O. NO. 8 M1.16	PART NO. 9 2MU-PIA 70360
CONDITION DETAILS 13 Base mount for auxillary lub oil pump broken. (See attached sketch).		SYSTEM DESIGNATION 10 Make-up	
CORRECTIVE ACTION REQUIRED		REPORTED BY 12 R. D. Brown / <i>R. D. Brown</i>	



CONDITION DETAILS VERIFIED BY 14 SUPV. <i>RW Hoop</i> DATE 2-15-79	DISPOSITION REQUESTED FROM 15 BY <i>RW Hoop</i> DATE 2-15-79
--	--

TO BE COMPLETED BY F.P. ENGINEERING

REPORTABILITY PER 10 CFR 50.55 (E)  
 REPORTABLE  NON-REPORTABLE BY *R. D. Brown* DATE 2-15-79

DISPOSITION INSTRUCTIONS 17  
 ACTION  
 ACCEPT AS IS  SCRAP  REWORK  RETURN TO VENDOR

Obtain replacement piece from pump manufacturer and install replacement piece in field.

DISPOSITION APPROVED BY 18	DISPOSITION DETAILS BY 19
B&W QC SUPV. <i>RW Hoop</i> DATE 2-15-79	<i>B&amp;W Canada, Ltd.</i>
B&W FPE <i>John R. ...</i> DATE 2-15-79	<i>B&amp;W Const Co</i>
OTHER <i>R. D. Brown</i> DATE 2/14/79	ACTION COMPLETED
OTHER _____ DATE _____	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 \_\_\_\_\_

TO BE COMPLETED BY F.P. MANAGER

CORRECTIVE ACTION DESCRIPTION 23

FIELD PROJECT MANAGER \_\_\_\_\_

ANI ACCEPTANCE 24 *C. W. ...* DATE 2-22-79

REPORT OF NONCONFORMITY )

BAECCOCK & WILCOX  
B&W CONSTRUCTION COMPANY

TO BE COMPLETED BY FIELD

SYSTEM OR PART NAME		JOB NO.	DATE
1 Spool piece A-32		2 CL-238	3 2/22/79
DRAWING VIOLATED & REV.	VENDOR NAME	REJECT TAG NOS.	
4 170177E, Rev. 8	5 BSW Mt. Vernon	6 143	
PROC/SPEC. VIOLATED	P.O. NO.	PART NO.	SYSTEM DESIGNATION
7 FCP #20, Unit #2	8 N/A	9 2-CCA-1	10 Reactor Coolant
CORRECTIVE ACTION REQUIRED		REPORTED BY	
11 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		12 J. R. Jones <i>J.R. Jones per R. Hays</i>	

CONDITION DETAILS

M.T. indication in lug removal area was ground resulting in a cavity 1/16" deep and 1 5/32" x 1 5/32". The indication is still visible in the base material. Please advise as to disposition. (Sketch attached).

CONDITION DETAILS VERIFIED BY		DISPOSITION REQUESTED FROM	
14 B&W CC SUPV. <i>R. W. Hays</i> DATE 2-22-79	<input checked="" type="checkbox"/> B&W CONSTRUCTION	<input type="checkbox"/>	DATE 2-22-79

REPORTABILITY PER 10 CFR 50.55 (E)	BY	DATE
<input type="checkbox"/> REPORTABLE <input checked="" type="checkbox"/> NON-REPORTABLE	<i>D. E. Hinkle</i>	2-27-79

DISPOSITION INSTRUCTIONS ACTION

ACCEPT AS IS  SCRAP  REWORK  RETURN TO VENDOR

*Labels: 2-27-79*  
*Labels: 2-27-79*

See attached sheet for disposition instructions.

DISPOSITION APPROVED BY		DISPOSITION DETAILS BY	
B&W QC SUPV. <i>R. W. Hays</i> DATE 2-27-79	B&W FPE <i>M. E. Hinkle</i> DATE 2-27-79	19 B&W CP <i>D. E. Hinkle</i> 2-27-79	
OTHER _____ DATE _____	OTHER _____ DATE _____	ACTION COMPLETED	
18 OTHER _____ DATE _____	19 OTHER _____ DATE _____	20 BY _____ DATE _____	

REWORK INSPECTION	<input type="checkbox"/> REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE	<input type="checkbox"/> 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

\_\_\_\_\_

FIELD PROJECT MANAGER

ANI ACCEPTANCE	DATE _____
24	

TO BE COMPLETED BY F.P. ENGINEER

TO BE COMPLETED BY FIELD QC

TO BE COMPLETED BY F.P. ENGINEER

REPORT OF NONCONFORMITY

BABCOCK & WILCOX  
B&W CONSTRUCTION COMPANY

TO BE COMPLETED BY FIELD QC	SYSTEM OR PART NAME		JOB NO.	DATE
	1 Reactor Coolant System, Unit #2		2 CL-238	3 2/22/79
	DRAWING VIOLATED & REV.	VENDOR NAME		REJECT TAG NOS.
	4 N/A	5 B&W		6 142
	PROC./SPEC. VIOLATED	P.O. NO.	PART NO.	SYSTEM DESIGNATION
	7 N/A	8 M1.9	9 A-32	10 Reactor Coolant
	CORRECTIVE ACTION REQUIRED		REPORTED BY	
	11 <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		12 R. D. Murphy / <i>R.O. Murphy</i>	
	CONDITION DETAILS			
	Heater pad shorted out causing arc burn on the O.D. of the pipe. The area was ground to remove heat affected area resulting in a cavity 1 1/2" round by 3/16" deep. (See chart).			
TO BE COMPLETED BY F.P. ENGINEERING	CONDITION DETAILS VERIFIED BY		DISPOSITION REQUESTED FROM	
	14 B&W QC SUPV. <i>R.W. Shope</i> DATE <i>2-22-79</i>		15 <input checked="" type="checkbox"/> B&W CONSTRUCTION <input type="checkbox"/> DATE <i>2-22-79</i>	
	REPORTABILITY PER 10 CFR 50.55 (E)			
	16 <input type="checkbox"/> REPORTABLE <input checked="" type="checkbox"/> NON-REPORTABLE BY <i>R.E. Hinrichs</i> DATE <i>2-26-79</i>			
	DISPOSITION INSTRUCTIONS		ACTION	
	Vendor disposition required.		<input type="checkbox"/> ACCEPT AS IS <input type="checkbox"/> SCRAP <input type="checkbox"/> REWORK <input type="checkbox"/> RETURN TO VENDOR	
	DISPOSITION APPROVED BY		DISPOSITION DETAILS BY	
	18 B&W QC SUPV. _____ DATE _____		19 _____	
	B&W FPE _____ DATE _____		ACTION COMPLETED	
	OTHER _____ DATE _____		20 BY _____ DATE _____	
TO BE COMPLETED BY FIELD QC	REWORK INSPECTION <input type="checkbox"/> REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE <input type="checkbox"/> REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE			
	21 BY _____ DATE _____		REPORT OF NONCONFORMITY	
	NON CONFORMITY CLOSED			
TO BE COMPLETED BY F.P. ENGINEER	22 B&W QC SUPV. _____ DATE _____			
	CORRECTIVE ACTION DESCRIPTION			
	Have advised superintendents on precautions, required on future joints.  <i>J. N. [Signature]</i> FIELD PROJECT MANAGER			
ANI	23			
	ANI ACCEPTANCE DATE _____			
24				

TO BE COMPLETED BY FIELD QC	SYSTEM OR PART NAME		JOB NO.	DATE
	1 Reactor Coolant System Unit #1		2 CL-238	3 2/27/79
	DRAWING VIOLATED & REV.	VENDOR NAME	REJECT TAG NOS.	
	4 N/A	5 B&W	6 #145	
	PROC/SPEC. VIOLATED	P.O. NO.	PART NO.	SYSTEM DESIGNATION
	7 FS III-3	8 MI-9	9 B41-1	10 Pump Return Line
	CORRECTIVE ACTION REQUIRED		REPORTED BY	
	11 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		12 J. Rheinhardt <i>J. Rheinhardt</i>	
	CONDITION DETAILS			
	Spool has a one foot long scratch approximately 1/32 inch in depth on the elbow near the stainless steel end. Reference: Bechtel NCR #350, dated 10/24/75.			
TO BE COMPLETED BY F.P. ENGINEERING	CONDITION DETAILS VERIFIED BY		DISPOSITION REQUESTED FROM	
	B&W QC SUPV. <i>R.W. Hoge</i> DATE <i>2-27-79</i>		<input checked="" type="checkbox"/> B&W CONSTRUCTION <input type="checkbox"/> 15 BY <i>R.W. Hoge</i> DATE <i>2-27-79</i>	
TO BE COMPLETED BY FIELD QC	REPORTABILITY PER 10 CFR 50.55 (E)			
	14 <input type="checkbox"/> REPORTABLE <input checked="" type="checkbox"/> NON-REPORTABLE BY <i>R.E. Hume</i> DATE <i>2-27-79</i>			
	DISPOSITION INSTRUCTIONS ACTION			
TO BE COMPLETED BY F.P. ENGINEERING	<input type="checkbox"/> ACCEPT AS IS <input type="checkbox"/> SCRAP <input checked="" type="checkbox"/> REWORK <input type="checkbox"/> RETURN TO VENDOR			
	Remove defect by hand filing. NOTE: Do not increase depth of defect. Clean with wire brush. Inspect to assure defect removal per 9-MT-103. Visually inspect for arc burns and remove by filing. Inspect per 9-MT-105.			
	DISPOSITION APPROVED BY		DISPOSITION DETAILS BY	
B&W QC SUPV. <i>R.W. Hoge</i> DATE <i>2-27-79</i> B&W FPE <i>R.E. Hume</i> DATE <i>2-27-79</i> OTHER <i>R.E. Hume</i> DATE <i>3/1/79</i> OTHER _____ DATE _____		19 V.N.A. H.C. 75 <i>H.C. 75</i> DATE <i>2-27-79</i> ACTION COMPLETED 20 BY _____ DATE _____		
TO BE COMPLETED BY FIELD QC	REWORK INSPECTION <input type="checkbox"/> REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE <input type="checkbox"/> REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE			
	21 BY _____ DATE _____ REPORT OF NONCONFORMITY _____			
TO BE COMPLETED BY F.P. ENGINEER	NON CONFORMITY CLOSED			
	22 B&W QC SUPV. _____ DATE _____			
CORRECTIVE ACTION DESCRIPTION				
FIELD PROJECT MANAGER				
ANI ACCEPTANCE				
24 DATE _____				

31612  
**REPORT OF NONCONFORMITY**

BABCOCK & WILCOX  
 B&W CONSTRUCTION COMPANY

TO BE COMPLETED BY FIELD

SYSTEM OR PART NAME		JOB NO.	DATE
1 REACTOR VESSEL UNIT #1 FCP #10		2 CL-238	3 8-29-78
DRAWING VIOLATED & REV. VENDOR NAME		REJECT TAG NOS.	
4 C-376, Rev. 7	5 B&W	6	
PROC/SPEC. VIOLATED FCP NO. 10, Rev. 1	P.O. NO.	PART NO.	SYSTEM DESIGNATION
7 FS-III-1a-12&13	8 M1.1	9 It-51	10 Reactor Coolant
CORRECTIVE ACTION REQUIRED		REPORTED BY	
11 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		12 J. W. Rheinhardt	

CONDITION DETAILS

The elevation of the mating face is out of tolerance. The FCP specifies an elevation of 634'-0" +/- 1/4". The actual elevation of the mating face is 634'-0.597" to 634'-0.606".

CONDITION DETAILS VERIFIED BY		DISPOSITION REQUESTED FROM	
B&W QC SUPV. <u>R. W. Shope</u>	DATE <u>8-29-78</u>	<input checked="" type="checkbox"/> B&W CONSTRUCTION	<input type="checkbox"/>
14		15 BY <u>R. W. Shope</u>	DATE <u>8-29-78</u>

REPORTABILITY PER 10 CFR 50.55 (E)

REPORTABLE  NON-REPORTABLE BY D. E. Kincaid DATE 8-30-78

DISPOSITION INSTRUCTIONS ACTION

ACCEPT AS IS  SCRAP  REWORK  RETURN TO VENDOR

Raise vessel & remove 1/4" nominal shim from under sole plate at each grout pad. Reset and level vessel. Elevation will be approximately 634'-0 3/8". Bechtel and vendors approval required.

ACTUAL ELEV. AFTER LOWERING VESSEL IS 634'-0.296" TO 634'-0.306". LEVELNESS IS .010" ACROSS ENTIRE FACE.

DISPOSITION APPROVED BY		DISPOSITION DETAILS BY	
B&W QC SUPV. <u>R. W. Shope</u>	DATE <u>8-30-78</u>	<u>B&amp;W Ltr. 12-21-79 Ltr to Cooke</u>	
B&W FPE <u>D. E. Kincaid</u>	DATE <u>8-30-78</u>	19 <u>Bechtel DCN-11 to Dwg. C-376</u>	
OTHER <u>R. E. W. Shope</u>	DATE <u>8/31/78</u>	ACTION COMPLETED	
18		20 BY <u>G. P. [Signature]</u> DATE <u>1-26-79</u>	

REWORK INSPECTION  REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE  REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE

21 BY A. C. [Signature] DATE 1-26-79 REPORT OF NONCONFORMITY

NON CONFORMITY CLOSED

22 B&W QC SUPV. R. W. Shope DATE 2-2-79

CORRECTIVE ACTION DESCRIPTION

23

FIELD PROJECT MANAGER

ANI ACCEPTANCE C. [Signature] DATE 9-5-78

24

TO BE COMPLETED BY F.P. ENGINEERING

TO BE COMPLETED BY FIELD QC

TO BE COMPLETED BY F.P. MANAGER

REPORT OF NONCONFORMITY

BABCOCK & WILCOX  
B&W CONSTRUCTION COMPANY

TO BE COMPLETED BY FIELD

TO BE COMPLETED BY F.P. ENGINEER

TO BE COMPLETED BY FIELD QC

TO BE COMPLETED BY FIELD MANAGER

SYSTEM OR PART NAME		JOB NO.	DATE
1 HOT LEG A-24-1		2 CJ-238	3 9-14-78
DRAWING VIOLATED & REV.	VENDOR NAME	REJECT TAG NOS.	
4 150177E, Rev. 8	5 B&W	6 240	
PROC/SPEC. VIOLATED	P.O. NO.	PART NO.	SYSTEM DESIGNATION
7 9-PT-101, Rev. 1	8 N/A	9 A-24-1	10 Hot Leg
CORRECTIVE ACTION REQUIRED		REPORTED BY	
11 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		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.			
CONDITION DETAILS VERIFIED BY		DISPOSITION REQUESTED FROM	
14 B&W QC SUPV. <u>R.W. Shupe</u> DATE <u>9-14-78</u>		15 <input checked="" type="checkbox"/> B&W CONSTRUCTION <input type="checkbox"/> DATE <u>9-14-78</u>	
REPORTABILITY PER 10 CFR 50.55 (E)			
15 <input type="checkbox"/> REPORTABLE <input checked="" type="checkbox"/> NON-REPORTABLE BY <u>D.E. Kinsale</u> DATE <u>9-14-78</u>			
DISPOSITION INSTRUCTIONS ACTION			
<input type="checkbox"/> ACCEPT AS IS <input type="checkbox"/> SCRAP <input checked="" type="checkbox"/> REWORK <input type="checkbox"/> 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 backing 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.			
DISPOSITION APPROVED BY		DISPOSITION DETAILS BY	
18 B&W QC SUPV. <u>R.W. Shupe</u> DATE <u>9-14-78</u>		19 <u>D.E. Kinsale</u>	
B&W FPE <u>D.E. Kinsale</u> DATE <u>9-14-78</u>		ACTION COMPLETED	
OTHER <u>R.E. Whitaker</u> DATE <u>9/15/78</u>		20 BY <u>T. G. ...</u> DATE <u>1-30-79</u>	
OTHER _____ DATE _____			
REWORK INSPECTION <input checked="" type="checkbox"/> REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE <input type="checkbox"/> REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE			
21 BY <u>R.D. Murphy</u> DATE <u>2-12-79</u> REPORT OF NONCONFORMITY _____			
NON CONFORMITY CLOSED			
22 B&W QC SUPV. <u>R.W. Shupe</u> DATE <u>2-23-79</u>			
CORRECTIVE ACTION DESCRIPTION			
23 _____			
FIELD PROJECT MANAGER			
24 ANI ACCEPTANCE <u>J.R. ...</u> DATE <u>9-20-78</u>			



REPORT OF NONCONFORMITY

TO BE COMPLETED BY FIELD QC

SYSTEM OR PART NAME 1 Make-Up & Seal Injection Pump		JOB NO. 2 CL-238	DATE 3 12-14-78
DRAWING VIOLATED & REV. 4 N/A	VENDOR NAME 5 B&W Canada LTD.	REJECT TAG NOS. 6 113	
PROC/SPEC. VIOLATED 7 9-QPP-108, Rev. 4	P.O. NO. 8 M-1.16	PART NO. 9 1 MU-PIA	SYSTEM DESIGNATION 10 Make-Up System
CORRECTIVE ACTION REQUIRED 11 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		REPORTED BY 12 R. D. Murphy / <i>R.D.M.</i>	

CONDITION DETAILS

No data package was received from vendor.

13

CONDITION DETAILS VERIFIED BY 14 B&W QC SUPV. <i>R.W. Shupe</i> DATE <i>12-14-78</i>	DISPOSITION REQUESTED FROM 15 BY <i>R.W. Shupe</i> DATE <i>12-14-78</i> <input checked="" type="checkbox"/> B&W CONSTRUCTION <input type="checkbox"/>
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REPORTABILITY PER 10 CFR 50.55 (E)

16  REPORTABLE  NON-REPORTABLE BY *D.E. Kuziak* DATE *12-15-78*

DISPOSITION INSTRUCTIONS ACTION

ACCEPT AS IS  SCRAP  REWORK  RETURN TO VENDOR

Vendor to supply data package.  
When information is received review data package and clear reject.

17

DISPOSITION APPROVED BY 18 B&W QC SUPV. <i>R.W. Shupe</i> DATE <i>12-16-78</i> B&W FPE <i>D.E. Kuziak</i> DATE <i>12-16-78</i> OTHER <i>R.E. Wickert</i> DATE <i>12/29/78</i>	DISPOSITION DETAILS BY 19 <i>D.E. Kuziak - B&amp;W P.C.</i> ACTION COMPLETED 20 BY <i>J. Rheinhardt</i> DATE <i>2-27-79</i>
--	--

REWORK INSPECTION  REWORK COMPLETED-INSPECTION PERFORMED AND REWORK ACCEPTABLE  REWORK COMPLETED-INSPECTION PERFORMED AND REWORK NOT ACCEPTABLE

21 BY *J. Rheinhardt* DATE *2-27-79* REPORT OF NONCONFORMITY

NON CONFORMITY CLOSED

22 B&W QC SUPV. *R.W. Shupe* DATE *2-27-79*

CORRECTIVE ACTION DESCRIPTION

23

FIELD PROJECT MANAGER

ANI ACCEPTANCE *J. Rheinhardt* DATE *1-11-79*

24

TO BE COMPLETED BY F.P. INSPEERING

TO BE COMPLETED BY FIELD QC

TO BE COMPLETED BY F.P. MANAGER



Consumers  
Power  
Company

# NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT

PAGE 1 of 2

6. PROJECT NAME: Midland 1 & 2		7. DISCONFORMING PART NO: NA		8. DISCONFORMING PART NAME: NA		1. RUN STRIP NO: N-01-3-9-008	
9. SERIAL NUMBER: NA		10. CEG. COMPLETION NO: Bechtel FE		11. AREA LOC. OF DIS: Area 7 659' elev of Aux Bldg		2. DATE: 2-2-79	
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: Field purchased cable supports brackets (shelf item) are being used on main control panels J-201 to support incoming cables. These shelf brackets have been installed without any documentary evidence of Project Engineering approval prior to the installation. Cable clamps to support incoming cables are required to be furnished and installed by the vendor in an area adjacent to and immediately below and/or above the terminal blocks as required by J-201 Technical Specification, paragraph 7.2.7, Rev 5. Contrary to this requirement in the Technical Specification, these cable clamps have been furnished by the vendor but not installed. Furthermore, there is no documentary evidence to show a deviation from the J-201 specification.						3. DATE OF REV: NA	
						4. FILE NO: 16.3.4, 16.3.6	
13. CA RECOMMENDATION FOR PART CA: 1. Bechtel Project Engineering determine if incoming cable support brackets being installed are adequate and equivalent to the supports furnished by the vendor to seismically support incoming cable.						5. DISTRIBUTION ACTION COPY: LADreisbach	
DESIGN/PROJECT ENG. DISPOSITION: REQUIRED <input checked="" type="checkbox"/> NOT REQUIRED <input type="checkbox"/>						7. COPY: WLBaird WRBird TCCooke JLCorley RHermeston SHHowell DRJohnson GSKeeley BWNarguglio PAMartinez JMilandin	
8. HOLD TAGS APPLIED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		TAGS, LOCATION & TYPE OF HOLD TAGS APPLIED: NA					
14. IS PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW:							
15. DOES IT AFFECT 2-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>				17. IS IT REPORTABLE PER 50.55(+): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
18. IS IT REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				19. IF YES, DATE & TIME OF REPORT TO SMC: NA			
20. IF YES, WHO MADE REPORT TO SMC: NA				21. IF YES, NAME OF SMC OFFICIAL TO WHOM REPORTED: NA			
22. SIG. ORIGINATED BY: <i>Paul Luper 2/1/79</i>		23. WRITING REPLY REQUIRED BY: 2-16-79		24. SUPERVISOR'S SIGNATURE/DATE: <i>Paul Luper 2-7-79</i>			
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:							
26. DESIGN/PROJECT ENG. AUTH. DESP.: NA		27. PNO ENG. AUTH. DESP.: NA		28. PROGRAMMERS ENG. DESP.: NA		29. SIG. OF ENG. RESP. FOR I/A:	
30. FAB/CONST. ENG. AUTH. DESP.: NA		31. SIG. OF TEST GROUP ACCEPT. CONDITION: NA		32. FOR MAINT. MISC. - ENG. SUPP. SIG. AUTH. DESP.: NA		33. QA AUTH. SIG. TO DOCUMENT DESP.:	
METHODS OF PART CA VERIFICATION:							
34. SIG. OF ENG. RESP. FOR PART CA Satisfactory Completion:		36. SIG. VERIFYING PART CA & HOLD TAG REMOVAL DATE:			37. WORK CLOSED BY DATE: (PART & PROCESS CA COMPLETE)		



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# NONCONFORMANCE REPORT

## PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT  
M-01-8-9-008  
NCR SERIAL NUMBER: \_\_\_\_\_

PAGE 2 OF \_\_\_\_\_

38. CA ASSESSMENT OF ROOT CAUSE(S):

To be determined.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA REQUIRED FROM:

DESIGN

FABRICATION

CONSTRUCTION

PROCUREMENT

INSPECTION

OTHER \_\_\_\_\_

41. CA RECOMMENDATION FOR PROCESS CA:

1. Bechtel FE and QC take necessary corrective action to preclude recurrence.

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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# NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT

PAGE 1 OF 2

6. PROJECT NAME: Midland 1 & 2		7. REFERENCES PART NO: Cable IAB2311C and IAB4309C		8. SUBCONTRACTING PART NAME: Multi Conductor Cables		1. NRC SERIAL NO: M-01-4-9-009	
9. SERIAL NUMBER: NA		10. ORG. COMPLETING NO: NA		11. AREA/LOC. OF USE: Elevation 614'-0" Auxiliary Building		2. DATE: 2-2-79	
12. "AS IS" NONCONFORMANCE CONDITION VERSUS "AS SPECIFIED" CONDITION WITH REFS: Paragraph 7, E-42 Sheet 2, Rev 7 requires protection be provided where a cable presses against sharp edges. Contrary to the above, eleven cables including IAB2311C cross over the top of tray section IAKA07 going to IAKA08 and over IAKA03 going to LAJM09 and eleven cables including IAB4309C cross over the top of tray section LAJB07 going to LAJB08 and over LAJB07 going to LAJC01 without being protected from sharp edges of the tray section.						3. DATE OF REV: NA	
						4. FILE NO: 16.3.4 16.3.6	
13. CA RECOMMENDATION FOR PART CA: Provide protection between cables and tray sections in four areas noted above.						5. DISTRIBUTION ACTION COPY: LADreisbach	
DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input type="checkbox"/> NOT REQUIRED <input checked="" type="checkbox"/>						INFO COPY: WLB Barclay DBMiller WRBird WMoring TCCooke JFNewgen JLCorley RASimaneck RHeremeston DATaggart SHHowell DRJohnson GSKeeley BWMarguglio PAMartinez JMilandin	
14. HOLD TAGS APPLIED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: NA							
15. IN PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW:							
15. DOES IT AFFECT 2-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>				17. IS IT REPORTABLE PER 50.55(+): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
18. IS IT REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				19. IF YES, DATE & TYPE OF REPORT TO NRC: NA			
20. IF YES, WHO MADE REPORT TO NRC: NA				21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA			
22. NOT INITIATED BY: <i>E. J. Jones</i>		23. WRITTEN REPLY REQUIRED BY: 2-16-79		24. SUPERVISOR'S SIGNATURE/DATE: <i>Paul Skyer</i> 2-2-79			
25. PART CA DISPOSITION, NOTIFICATION & COMPLETION DATE:							
26. DESIGN/PROJECT SIG. AUTH. DISP.: NA		27. P&O SIG. AUTH. DISP.:		28. PROCUREMENT SIG. COMM. DISP.: NA		29. SIG. OF ENG. RESP. FOR I/A:	
30. FAB/CONST. SIG. AUTH. DISP.: NA		31. SIG. OF TEST GROUP ACKNOW. CONDITION: NA		32. FOR MAINT. REQ - P&O SUPP. SIG. AUTH. DISP.: NA		33. QA AUTH. SIG. TO DOCUMENT DISP.:	
34. METHOD OF PART CA VERIFICATION:							
35. SIG. OF ENG. RESP. FOR PART CA IDENTIFYING COMPLETION:		36. SIG. VERIFYING PART CA & HOLD TAG REMOVAL DATE:		37. NRC CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)			



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# NONCONFORMANCE REPORT

## PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT

M-01-4-9-009

WCS SERIAL NUMBER:

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38. CA ASSESSMENT OF ROOT CAUSE(S):

To be determined.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA REQUIRED FROM:

DESIGN

FABRICATION

CONSTRUCTION

PROCUREMENT

INSPECTION

OTHER \_\_\_\_\_

41. CA RECOMMENDATION FOR PROCESS CA:

It is recommended that electricians involved in cable installation be made aware of requirement to protect cables where contact is made or could be made with sharp edges. It is further recommended that Bechtel QC revise PQCI E-4.0, Activity 2.5 to include as an inspection criteria E-42, sheet 2 (7).

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 VERIFYING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

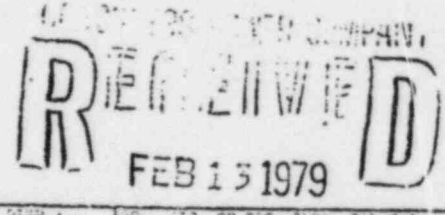


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# NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT

PAGE 1 OF 2

PROJECT NAME: Midland		7. NONCONFORMING PART NO: IT-51	8. NONCONFORMING PART NAME: Unit 1 Reactor Vessel	1. NCR SERIAL NO: M-03-8-9-010
9. SERIAL NUMBER: 620-0012-51		10. ORG. COMMITTING NO: B&W NFGD, Mt Vernon	11. AREA/LOC. OF NO: Unit 1 Containment	2. DATE: 2/9/79
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:  Contrary to 10 CFR 50, Appendix B, Section 8, "Identification and Control of Materials, Parts and Components," the identification of some of the weld wire used in the construction of the Unit 1 reactor vessel is not traceable, so that the chemical composition of this material is in question. The disposition of this matter is already in progress - this NCR is being issued for tracking purposes only.  See Letter CPCo-1954, Mahaney to Bauman, of 8/14/78 for specific details of the off specification (nonconforming) weld wire.				3. DATE OF REV: N/A
13. QA RECOMMENDATION FOR PART CA:  Determine the acceptability of the reactor vessel welds, including any consequent limitations upon operating conditions.  DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input checked="" type="checkbox"/> NOT REQUIRED <input type="checkbox"/>				4. FILE NO: 16.4.3
14. HOLD TAGS APPLIED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: N/A				5. DISTRIBUTION ACTION COPY: CEMahaney, B&W-Lynch  INFO COPY: CAArmontrout, B&W-Lynch WRBird DATaggert TCCooke REWhitaker JLCorley SHHowell GSKeeley BWMarguglio DEMiller JFNewgen RJSciamanda CDThompson, R&W-Copley
15. IS PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW:				
16. DOES NC AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		17. IS NC REPORTABLE PER 50.95(e): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
18. IS NC REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> MGI ELW LT. CPCo-1954		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>Robert J. Sciamanda</i>		23. WRITTEN REPLY REQUIRED BY: Disposition required prior to construction TO ESTABLISH CA COMPLETION DATE		24. SUPERVISOR'S SIGNATURE/DATE: <i>Walter Rind</i> 2/9/79
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:				
				
26. DESIGN/PROJECT SIG. AUTH. DISP.:	27. ENG SIG. AUTH. DISP.:	28. PROCUREMENT SIG. CONC. DISP.:	29. SIG. OF ORG. RESP. FOR C/A: FIELD QUALITY ASSURANCE MIDLAND AMERICAN	
30. FAB/CONST. SIG. AUTH. IMP. DISP.:	31. SIG. OF TEST GROUP ACKNOW. CONDITION:	32. FOR MAJOR NON - PFT. SUPT. SIG. AUTH. DISP.:	33. CA AUTH. SIG. TO DOCUMENT DISP.:	
34. HOLD OF PART CA VERIFICATION:				
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION:		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE:		37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)



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# NONCONFORMANCE REPORT

## PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT

NCR SERIAL NUMBER: M-03-8-9-010

PAGE 2 OF 2

38. QA ASSESSMENT OF ROOT CAUSE(S):

Inadquacies in weld wire supplier's QA Program.

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

See Below

41. QA RECOMMENDATION FOR PROCESS CA:

To be obtained from B&W NPGD as part of their investigation and overall corrective action to the generic problem.

42. PROCESS CA TO BE DONE 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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# NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT

6. PROJECT NAME: Midland 1 & 2	7. NONCONFORMING PART NO: NA	8. NONCONFORMING PART NAME: NA	1. QAC SERIAL NO: M-01-4-9-011
9. SERIAL NUMBER: NA	10. DES. COMPLETION NO: Bechtel Construction	11. AREA/LOC. OF NO: NA	2. DATE: 2-5-79
			3. DATE OF REV: NA
			4. FILE NO: 16, 3, 4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:  
Paragraph 8.1 of FPW-6.000 requires that the Field Welding Engineer (FWE) shall record the arc voltage and amperage measurements on the measurement of Welding Arc Voltage and Amperage Form (Exhibit A). Additionally, the FWE shall record the welding machine serial or ID number, welding procedure and revision number, voltage and current ranges specified in the welding procedure. Weld Procedure P1-AT-LH (Rev 3), P1-A-LH (Rev 0) and P3-T-AG (Rev 4) specify a range for voltage and amperage of 12-16V/70-140A, 22-28V/65-110A and 8-16V/40-140A respectively for 3/32" electrode or filler material.

5. DISTRIBUTION ACTION COPY:
- LADreisbach
- INFO COPY:
- |             |           |
|-------------|-----------|
| WLBarclay   | DBMiller  |
| WRBird      | WMoring   |
| TCCooke     | JFNewgen  |
| JLCorley    | RASimanek |
| RHermeston  | DATaggart |
| SHHowell    |           |
| DRJohnson   |           |
| GSKeeley    |           |
| BWMarguglio |           |
| PAMartinez  |           |
| Milandin    |           |

(Contd on Page 3)

13. QA RECOMMENDATION FOR PART CA:  
Process deviation in accordance with FPW-6.000.  
Correct documentation.

DESIGN/PROJECT ENG. DISPOSITION ADMITTED  NOT ADMITTED

BOLD TAGS APPLIED: YES  NO  NUMBER, LOCATION & TYPE OF BOLD TAGS APPLIED: NA

14. IS PROCESS CA REQUIRED: YES  NO  IF NO, ENTER JUSTIFICATION BELOW:

15. DOES IT AFFECT Q-LIST ITEM: YES  NO

17. IS IT REPORTABLE PER 50.55(e): YES  NO

16. IS IT REPORTABLE PER PART 21: YES  NO

19. IF YES, DATE & TIME OF REPORT TO SRC: NA

18. IF YES, WHO MADE REPORT TO SRC: NA

21. IF YES, NAME OF SRC OFFICIAL TO WHOM REPORTED: NA

22. NON-ORIGINATED BY:  
*[Signature]*

23. WRITTEN REPLY REQUIRED BY: 2-19-79  
TO ESTABLISH QA COMPLETION DATE

24. SUPERVISOR'S SIGNATURE/DATE:  
*[Signature]* 2-5-79

25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

26. DESIGN/PROJECT SIG. AUTH. DISP.:	27. PNO SIG. AUTH. DISP.:	28. PROCUREMENT SIG. COM. DISP.:	29. SIG. OF CRG. RESP. FOR I/A:
30. FAB/CONSTR. SIG. AUTH. EXP. DISP.:	31. SIG. OF TEST GROUP ACKNOW. COMPLETION:	32. FOR VALUE REC - PDR. SUPP. SIG. AUTH. DISP.:	33. QA AUTH. SIG. TO COMPLETE DISP.:

METHOD OF PART CA VERIFICATION:

34. SIG. OF CRG. RESP. FOR PART I/A SIGNIFYING COMPLETION:	35. SIG. VERIFYING PART I/A & BOLD TAG REMOVAL/DATE:	37. DATE TAGGED BY DATE: (PART & PROCESS CA COMPLETE)
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# NONCONFORMANCE REPORT

## PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT

M-01-4-9-011  
SEE SERIAL NUMBER:

18. CA ASSESSMENT OF ROOT CAUSE(S):

Unknown, to be determined.

19. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

20. PROCESS CA DERIVED FROM:

DESIGN

FABRICATION

CONSTRUCTION

MAINTENANCE

OPERATION

21. CA RECOMMENDATION FOR PROCESS CA:

Unknown, to be determined.

22. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK #1 & DATE OF COMPLETION:

23. METHOD OF PROCESS CA VERIFICATION:

24. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA VERIFYING COMPLETION:

25. SIGNATURE OF QUALITY ASSURANCE:

NCR SERIAL NO: M-01-4-9-011  
DATE: 2-5-79  
DATE OF REV: NA  
FILE NO: 16.3.4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Contd from Page 1)

Contrary to the above, un-numbered report dated 1-24-79 does not indicate welding machine number checked. Further, the welding procedure listed, P1-A-LH-2 should be clarified as P1-A-LH Structural Rev 2. Un-numbered report dated 2-2-79 does not indicate correct volt/amp range as specified in procedure P1-AT-LH (Rev 3), P1-A-LH (Rev 0), and P8-T-AG (Rev 4).



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# NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT

PAGE 1 of 5

6. PROJECT NAME: Midland 1 & 2	7. DISCONFORMING PART NO: NA	8. DISCONFORMING PART NAME: Plant Area Soils	1. NRC SERIAL NO: N-07-5-9-012
9. SERIAL NUMBER: NA	10. DES. COMPANYING NO: Bechtel Project Engr Bechtel Field Engr Bechtel OC Engr	11. AREA/LOC. OF NO: Plant Area Fill	2. DATE: 2-6-79
12. "AS IS" DISCONFORMING CONDITION TERMS "AS REQUIRED" CONDITION WITH REFS: Section 13.6 of Specification C-210, Revision 6 states, "Moisture control of the plant area and berm material shall conform to Section 12.6". Section 12.6.1 states in part, "Water content during compaction shall not be more than two percentage points below optimum moisture content and shall not be more than two percentage points above optimum moisture content..." Project Engineering stated in a meeting held at the site February 5, 1979 that the intent of "during compaction" is to be at the time of the density/moisture tests.			3. DATE OF REV: NA
			4. FILE NO: 16.3.1, 16.3.4, 16.3.6

5. DISTRIBUTION  
ACTUALLY COPIED:  
LADreisbach
- INFO COPIED:
- |             |           |
|-------------|-----------|
| WLBarclay   | DBMiller  |
| WRBird      | WMoring   |
| TCCooke     | JFNewgen  |
| JLCorley    | ERumbaugh |
| RHermeston  | RASimanek |
| SHHowell    | DATaggart |
| DRJohnson   |           |
| GSKeeley    |           |
| BWMarguglio |           |
| PAMartinez  |           |
| IMilandin   |           |

(Contd on Page 3)

(Contd on Page 5)

13. CA RECOMMENDATION FOR PART CA:  
a) Review all moisture density test reports from the time of accepting moisture contents at the stockpile instead of at the placements through to date for similar deficiencies.

DESIGN/PROJECT ENG. DISPOSITION: REQUIRED  NOT REQUIRED

SOLD BAGS APPLIED: YES  NO  NUMBER, LOCATION & TYPE OF SOLD BAGS APPLIED: NA

14. IS PROCESS CA REQUIRED: YES  NO  IF NO, ENTER JUSTIFICATION BELOW:

15. DOES IT AFFECT Q-LIST ITEMS: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	17. IS IT REPORTABLE PER 90.55(e): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
16. IS IT REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	19. IF YES, DATE & TIME OF REPORT TO NRC: NA
18. IF YES, WHO MADE REPORT TO NRC: NA	20. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA

22. NRC CRACKED BY: <i>Donald E. Horn</i>	23. WRITING REPLY REQUIRED BY: 2-20-79 TO ESTABLISH CA COMPLETION DATE	24. SUPERVISOR'S SIGNATURE/DATE: <i>Donald E. Horn 2/6/79</i>
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25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

26. DESIGN/PROJECT SIG. AUTH. DESP.:	27. NRC SIG. AUTH. DESP.:	28. PROCUREMENT SIG. AUTH. DESP.:	29. SIG. OF ENG. DESP. PER 1.4:
		NA	
30. FAB/CONST. SIG. AUTH. DEP. DESP.:	31. SIG. OF TEST GROUP ACKNW. CONDITIONS:	32. FOR WATER WCD - PLS. SUPPL. SIG. AUTH. DESP.:	33. CA AUTH. SIG. TO EQUIPMENT DESP.:
	NA	NA	

METHOD OF PART CA VERIFICATION:

34. SIG. IF DESP. REEP. FOR PART CA IDENTIFYING COMPLETION:	35. SIG. VERIFYING PART CA & SOLD BAG REMOVAL DATE:	37. NRC CLOSED BY DATE: (PART & PROCESS CA COMPLETE)
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Consumers  
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Company

# NONCONFORMANCE REPORT

## PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT  
M-01-5-9-012  
JOB SERIAL NUMBER: \_\_\_\_\_

PAGE 2 OF 5

10. CA ASSESSMENT OF ROOT CAUSE(S):

Unknown, to be determined.

11. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

12. PROCESS CA DERIVED FROM:

DESIGN

FABRICATION

CONSTRUCTION

PROCUREMENT

INSPECTION

OTHER \_\_\_\_\_

13. CA RECOMMENDATION FOR PROCESS CA:

Unknown, to be determined.

14. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 11 & DATE OF COMPLETION:

15. METHOD OF PROCESS CA VERIFICATION:

16. SIG. OF MGR. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

17. PROCESS CA COMPLETION VERIFIED BY/DATE:

NCR SERIAL NO: M-01-5-9-012

DATE: 2-6-79

DATE OF REV: NA

FILE NO: 16.3.1, 16.3.4, 16.3.6

## 12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Contd from Page 1)

Contrary to these requirements, the following tests had moisture content in excess of the plus or minus two percentage points of optimum moisture content.

<u>Test No MD</u>	<u>Date Test Taken</u>	<u>Moisture Content (%)</u>	<u>Optimum Moisture Content (%)</u>	<u>Difference MC - OMC Positive</u>
2471	3-29-78	10.8	8.2	+ 2.6
2473	3-29-78	12.3	8.2	+ 4.1
2476	3-31-78	14.2	9.1	+ 5.1
2479	4-01-78	11.6	9.1	+ 2.5
2482	4-01-78	13.5	9.1	+ 4.4
2486	4-08-78	11.8	8.2	+ 3.6
2488	4-08-78	13.8	8.2	+ 5.6
2492	4-08-78	11.5	8.2	+ 3.3
2496	4-10-78	11.0	8.2	+ 2.8
2497	4-11-78	12.7	8.2	+ 4.5
2498	4-11-78	13.5	8.2	+ 5.3
2499	4-11-78	12.1	8.2	+ 3.9
2501	4-12-78	13.2	8.2	+ 5.0
2506	4-17-78	13.5	11.1	+ 2.4
2507	4-17-78	14.1	11.1	+ 3.0
2508	4-17-78	13.3	11.1	+ 2.2
2509	4-17-78	14.5	11.1	+ 3.4
2510	4-17-78	13.2	11.1	+ 2.1
2517	4-19-78	14.2	11.1	+ 3.1
2522	4-19-78	14.6	11.1	+ 3.5
2531	4-27-78	12.9	10.1	+ 2.8
2537	4-28-78	14.0	11.1	+ 3.9
2539	6-20-78	15.6	13.4	+ 2.2
2540	6-21-78	15.5	13.4	+ 2.1
2547	6-23-78	15.9	13.4	+ 2.5
2549	6-29-78	14.1	10.1	+ 4.0
2550	6-29-78	12.9	10.1	+ 2.8
2954	7-01-78	13.6	10.1	+ 3.5
2956	7-03-78	12.8	10.1	+ 2.7
2957	7-03-78	12.4	10.1	+ 2.3
2958	7-03-78	15.0	10.1	+ 4.9
2959	7-03-78	12.7	10.1	+ 2.6
2962	7-05-78	12.5	11.1	+ 2.4
2965	7-06-78	12.9	10.1	+ 2.8
2979	7-11-78	12.9	9.1	+ 3.8
2992	7-17-78	14.3	11.1	+ 3.2
3000	7-18-78	13.1	10.1	+ 3.0
3013	7-21-78	13.1	10.1	+ 3.0
3026	7-25-78	17.2	11.8	+ 5.4
3028	7-25-78	16.9	11.8	+ 5.1

NCR SERIAL NO: M-01-5-9-012

DATE: 2-6-79

DATE OF REV: NA

FILE NO: 16.3.1, 16.3.4, 16.3.6

## 12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Contd)

<u>Test No MD</u>	<u>Date Test Taken</u>	<u>Moisture Content (%)</u>	<u>Optimum Moisture Content (%)</u>	<u>Difference MC - OMC Positive</u>
3030	7-25-78	13.0	10.1	+ 2.9
3034	7-26-78	13.3	11.1	+ 2.2
3035	7-26-78	15.2	11.1	+ 4.1
3037	7-27-78	12.7	10.1	+ 2.6
3042	7-28-78	14.5	11.1	+ 3.4
3043	7-28-78	14.6	11.1	+ 3.5
3045	7-29-78	12.7	10.1	+ 2.6
3059	3-03-78	15.0	10.1	+ 4.9
3060	8-03-78	13.1	10.1	+ 3.0
3068	8-05-78	12.7	10.1	+ 2.6
3070	8-07-78	13.1	10.1	+ 3.0
3071	8-07-78	12.3	10.1	+ 2.2
3074	8-07-78	12.3	10.1	+ 2.2
3075	8-08-78	13.8	10.1	+ 3.7
3076B	8-08-78	14.2	10.1	+ 4.1
3082	8-10-78	14.0	10.1	+ 3.9
3087	8-11-78	14.5	10.1	+ 4.4
3088	8-12-78	13.1	10.1	+ 3.0
3100	8-16-78	14.8	10.1	+ 4.7
3103	8-17-78	14.2	10.1	+ 4.1
3105	8-17-78	12.7	10.1	+ 2.6
3106	8-17-78	12.8	10.1	+ 2.7
3107	8-17-78	14.3	10.1	+ 4.2
3108	8-17-78	13.7	10.1	+ 3.6
3109	8-17-78	14.3	10.1	+ 4.2
3110	8-17-78	13.9	10.1	+ 3.8
3111	8-17-78	17.6	10.1	+ 7.5
3112	8-17-78	12.5	10.1	+ 2.4
3114	8-18-78	13.0	10.1	+ 2.9
3115	8-18-78	12.5	10.1	+ 2.4
3130	8-28-78	13.1	10.1	+ 3.0
3132	8-28-78	13.9	10.1	+ 3.8
3134	8-29-78	13.1	10.1	+ 3.0
3141	9-01-78	12.7	10.1	+ 2.6
3143	9-01-78	14.7	10.1	+ 4.6
3144	9-01-78	12.9	10.1	+ 2.8
3145	9-01-78	15.9	10.1	+ 5.8
3156	9-07-78	12.2	10.1	+ 2.1
3158	9-08-78	13.0	10.1	+ 2.9
3159	9-12-78	16.5	10.1	+ 6.4
2561	9-30-78	13.5	11.3	+ 2.2
2563	9-30-78	10.0	7.5	+ 2.5

NCR SERIAL NO: M-01-5-9-012

DATE: 2-6-79

DATE OF REV: NA

FILE NO: 16.3.1, 16.3.4, 16.3.6

13. QA RECOMMENDATION FOR PART CA:

(Contd from Page 1)

- b) Send Project Engineering/Geo Tech all the test reports from the test failures in this NCR and any found in the review a) above.
- c) Receive a Project Engineering/Geo Tech evaluation of the acceptability of the material these test failures represent and any found in the review a) above.



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# NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -  
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PAGE 1 OF 3

1. PROJECT NAME: Midland 1 & 2	7. NONCONFORMING PART NO: NA	8. NONCONFORMING PART NAME: Type I Cement	1. THE SERIAL NO: N-0T-2-9-013
2. SERIAL NUMBER: NA	10. ORG. COMPLETING NO: Bechtel Project Engineering	11. AREA/LOC. OF USE: Warehouse II	2. DATE: 2-6-79
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: Engineering Department Project Instruction 2.14.1 Rev 3, Section 4.1.1b states:			3. DATE OF REV: NA
"The Resident Engineer's Memoranda may be used to clarify but shall not be used to modify design documents, i.e., FCRs, DCNs, SCNs, drawings, and specifications except as stated in Paragraph 4.1.2b4 below."			4. FILE NO: 16.3.1

5. DISTRIBUTION  
ACTION COPY:  
LADreisbach

INFO COPY:  
WLBarclay JFNewgen  
WRBird ERumbaugh  
TCCooke DATaggart  
JLCorley  
SHHowell  
GSKeeley  
BWMarguglio  
PAMartinez  
JMilandin  
DBMiller  
WMorine

(Contd on Page 3)

13. 2A RECOMMENDATION FOR PART CA:  
Obtain adequate acceptance test results prior to use.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED  NOT REQUIRED

14. HOLD TAGS APPLIED: YES  NO  NUMBER, LOCATION & DATE OF HOLD TAGS APPLIED: 9 Bechtel Hold Tags and Bechtel "OC Hold" Tagging applied to 700 bags of Type I cement in Warehouse II.

15. PROCESS CA REVIEWED: YES  NO  IF NO, ENTER JUSTIFICATION BELOW:

15. DOES IT AFFECT 4-LIST ITEM: YES  NO

16. IS IT REPORTABLE PER PART 21: YES  NO

17. IS IT REPORTABLE PER 50.55(e): YES  NO

18. IF YES, WHO MADE REPORT TO ENG: NA

19. IF YES, DATE & TIME OF REPORT TO ENG: NA

20. IF YES, NAME OF ENG OFFICIAL TO WHOM REPORTED: NA

21. WHEN CORRECTED BY: 2-21-79

22. SUPERVISOR'S SIGNATURE/DATE: *un Bud* 2-7-79

23. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:

26. REGION/PROJECT SIG. AUTH. DESP.:	27. P/O SIG. AUTH. DESP.:	28. PROCEEDING DESP. CONC. DESP.:	29. SIG. OF ENG. REEP. FOR 1/2A:
		NA	
30. FAB/CONST. SIG. AUTH. DESP.:	31. SIG. OF TEST GROUP ACTION CONDITION:	32. FOR MAJOR MGS - PLS. SUPP. SIG. AUTH. DESP.:	33. SA AUTH. SIG. TO IMPLEMENT DESP.:
	NA	NA	
34. METHOD OF PART CA VERIFICATION:			
35. SIG. OF ENG. REEP. FOR PART 1/2A SUBMITTING COMPLETION:	36. SIG. VERIFYING PART 1/2A & HOLD TAG REMOVAL DATE:	37. WORK CLOSED BY/DATE: (PART & PROCESS CA COMPLETED)	





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# NONCONFORMANCE REPORT

## PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT  
N-01-2-9-013  
NOTE SERIAL NUMBER:

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18. QA ASSESSMENT OF ROOT CAUSE(S):

Unknown, to be determined.

19. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

20. PROCESS CA DERIVED FROM:

DESIGN

FABRICATION

CONSTRUCTION

PROCUREMENT

INSPECTION

OTHER

21. QA RECOMMENDATION FOR PROCESS CA:

Unknown, to be determined.

22. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 20 & 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:

NCR SERIAL NO: M-01-2-9-013  
DATE: 2-6-79  
DATE OF REV: NA  
FILE NO: 16.3.1

12. "AS IS" NORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Contd from Pag

Section 4.1.2b4 es:

"Ordinry the following items are to be used as a guide, but noited to the following examples of when FCRs may be necety...

4. Cha in materials and dimensions. Exception: Minimension and material changes which do not advly affect performance, safety, durability, inteece between disciplines or between subcon- tracs, or alignments for equipment installation and ration do not require FCRs or DCNs. These will quire a Resident Engineer's Memo."

Section 4.1.3 states in part:

"The Residet Engineer may assist Field Engineering in making decia's to facilitate construction which do not require Fs. Such decisions may clarify but shall not modify wh is shown on the drawings or required in the specificatons, and do not adversely affect the intent or inteity of the design."

Contrary to these requirents, Resident Engineer Memorandum C-2028 dated 2-6-79 approved the use of Type cement for use in block wall construction prior to receipt of the required ceptance test as required per Spec 7220-C-208(Q) Rev 14, section 6.0. It was noted to REM stated "Field shall maintain records showing locations using Type I cement until the cement tests are completed and accepted".



# NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT

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6. PROJECT NO: M10	7. NONCONFORMING PART NO: NA	8. NONCONFORMING PART NAME: NA	1. NSR SERIAL NO: N-03-4-9-014
9. SERIAL NO:	10. ORG. COMMITTEE NO: B&W Construction Co	11. AREA/LOC. OF NSR: NA	2. DATE: 2-7-79
12. "AS IS" SECTION REFERS "AS REQUIRED" CONDITION WITH REFS: B&W CC Cre 9-QPP-120 requires that corrections or revisions to assurance records be made by making a straight line through incorrect information, inserting the correct information and dating the correction or revision. Contrary to above, the disposition on B&W CC NCR No 453 was revised using the original disposition with correction fluid and a new disposition over it.			3. DATE OF REV: NA
13. CA REQUIRED: NA			4. FILE NO: 16.4.4
DESIGN/PROVIDER REQUIRED <input type="checkbox"/> NOT REQUIRED <input checked="" type="checkbox"/>			5. DISTRIBUTION ACTION COPY: RWShope
14. HOLD TAGS UP? YES <input type="checkbox"/> NO <input type="checkbox"/> NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: NA			INFO COPY: VNAsgaonkar JFNewgen WRBird DATaggart TCCooke CDThompson JLCorley LFSstornetta AWDePatie RHermeston SHHowell GSKeeley BWMarguglio PAMartinez DBMiller
15. IN PROCESS OR? <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW:			
15. DOES THIS AFFECT? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		17. IS THIS REPORTABLE PER 50.55(e)? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	
18. IS THIS REPORTABLE? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		19. IF YES, DATE & TIME OF REPORT TO SRC: NA	
20. IF YES, WHO MADE: NA		21. IF YES, NAME OF SRC OFFICIAL TO WHOM REPORTED: NA	
22. NSR ORIGINATOR: RE W.		23. WRITING SUPPLY REQUIRED BY: 2-28-79 TO ESTABLISH CA COMPLETION DATE	24. SUPERVISOR'S SIGNATURE/DATE: WRBird 2/7/79
25. PART OR DISPOSITION & COMPLETION DATE:			
26. TEST/PROJECT NO.:	27. PNO SEQ. AUTH. DESP.:	28. PROCUREMENT SEQ. CONC. DESP.:	29. SEQ. OF DES. RESP. FOR THIS
30. FAB/CONSTR. SEQ. NO.:	31. SEQ. OF TEST WORK ACTION. COMPLETION:	32. FOR MAJOR NSR - PLO. SUPPL. SEQ. AUTH. DESP.:	33. CA AUTH. SEQ. TO IMPLEMENT DESP.:
34. METHOD OF PART:			
35. SEQ. OF DES. RESP. CLOSING TIME:	36. SEQ. VERIFYING PART (P/A) & HOLD TAG REMOVAL DATE:	37. NSR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)	



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# NONCONFORMANCE REPORT

## PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -

QUALITY ASSURANCE DEPARTMENT

M-03-4-9-014

NCR SERIAL NUMBER:

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18. QA ASSESSMENT OF ROOT CAUSE(S):

Some B&W CC personnel responsible for processing NCR's are apparently unaware of the requirements for correcting or revising quality assurance records.

19. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

20. PROCESS CA DERIVED FROM:

DESIGN

FABRICATION

CONSTRUCTION

PROCUREMENT

INSPECTION

OTHER B&W CC OC

21. QA RECOMMENDATION FOR PROCESS CA:

Inform all personnel generating quality assurance records of the requirements for correcting or revising quality assurance records (9-OPP-120).

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 IDENTIFYING COMPLETION:

25. PROCESS CA COMPLETION VERIFIED BY/DATE:



# NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

PAGE 1 of 3

6. PROJECT NAME: Midland		7. NONCONFORMING PART NO: 1P-05B 2P-05A 1P-05A 2P-05B		8. NONCONFORMING PART NAME: Vent & Drain Pipes		1. REC SERIAL NO: M-01-4-9-015	
9. SERIAL NUMBER: NA		10. ORG. COMPLETING NO: Bechtel Engineering Bechtel Procurement		11. AREA/LOC. OF NO: Aux Bldg		2. DATE: 2-14-79	
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: 1. Name tags attached to Auxiliary Feedwater Pumps indicate the flow capacity to be 1600 gpm. a. Contrary to the above, Tech Spec 7220-M-14, paragraph 4.1.3.a indicates the maximum design flow capacity to be 885 gpm.  <p style="text-align: right;">(Contd on Page 3)</p>						3. DATE OF REV: NA	
						4. FILE NO: 16.3.1, 16.3.2	
13. CA RECOMMENDATION FOR PART CA: 1. Evaluate/resolve items 1 and 2. 2. Review similar pumps/documentation packages for similar problems.  DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input checked="" type="checkbox"/> NOT REQUIRED <input type="checkbox"/>						5. DISTRIBUTION ACTION COPT: LADreisbach	
14. BOLD TAGS APPLIED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NUMBER, LOCATION & TYPE OF BOLD TAGS APPLIED: NA						INFO COPT: WLBarclay DBMiller WRBird WGMoring TCCooke JFNNewgen JLCorley RASimanek RHermeston DATaggart SHHowell DRJohnson GSKeeley BWMarguglio PAMartinez JMilandin	
15. IS PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, EXPLAIN JUSTIFICATION BELOW:						16. DOES IT AFFECT Q-LIST ITEMS: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	
17. IS IT REPORTABLE PER 50.55(e): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>						18. IS IT REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	
19. IF YES, WHO MADE REPORT TO REC: NA						20. IF YES, DATE & TIME OF REPORT TO REC: NA	
21. IF YES, NAME OF REC OFFICIAL TO WHOM REPORTED: NA						22. REC ORIGINATED BY: <i>J. J. ... 2-15-79</i>	
23. WRITTEN REPLY REQUIRED BY: 3-1-79 TO ESTABLISH CA COMPLETION DATE						24. SUPERVISOR'S SIGNATURE/DATE: <i>J. R. ... 2-15-79</i>	
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:							
26. DESIGN/PROJECT SIG. AUTH. DISP.: NA		27. P/O SIG. AUTH. DISP.: NA		28. PROCUREMENT SIG. AUTH. DISP.: NA		29. SIG. OF ORG. RESP. FOR Q/A:	
30. FAB/CONST. SIG. AUTH. DISP.: NA		31. SIG. OF TEST GROUP AGENCY CONDITION: NA		32. FOR MAINT. W/O - P/O SUPP. SIG. AUTH. DISP.: NA		33. CA AUTH. SIG. TO IMPLEMENT DISP.:	
34. METHOD OF PART CA VERIFICATION:							
35. SIG. OF ORG. RESP. FOR PART Q/A SIGNIFYING COMPLETION:			36. SIG. VERIFYING PART Q/A & BOLD TAG REMOVAL DATE:			37. REC CLOSED BY, DATE: (PART & PROCESS CA COMPLIANT)	



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# NONCONFORMANCE REPORT

## PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -

QUALITY ASSURANCE DEPARTMENT

M-01-4-9-015

SEE SERIAL NUMBER:

PAGE 2 OF 3

18. QA ASSESSMENT OF ROOT CAUSE(S):

Unknown - determine by 3-1-79.

19. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

20. PROCESS CA DERIVED FROM:

DESIGN

FABRICATION

CONSTRUCTION

PROCUREMENT

OPERATION

OTHER \_\_\_\_\_

21. QA RECOMMENDATION FOR PROCESS CA:

Unknown.

22. PROCESS CA TO BE TAKEN BY ORG(S) CIRCLED IN BLOCK 21 & DATE OF COMPLETION:

23. METHOD OF PROCESS CA VERIFICATION:

24. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA FOLLOWING COMPLETION:

25. PROCESS CA COMPLETION VERIFIED BY/DATE:

NCR SERIAL NO: M-01-4-9-015  
DATE: 2-14-79  
DATE OF REV: NA  
FILE NO: 16.3.2

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Contd from Page 1)

2. ASME Section III, Subsection ND Article ND-3500, Subarticle ND 3600, Subsub-article 3640, paragraph ND-3641 Subparagraph ND-3641.1, Note 1 states, "When steel pipe is threaded and used for steam service at pressure above 250 psi or for water service with water temperature above 200<sup>o</sup>F, the pipe shall be seamless having the minimum ultimate strength of 48,000 psi and a weight at least equal to Schedule 80 of ANSI B36.10".
  - a. In conflict with the above paragraph, a review of the documentation package for pump 1P-50B provides no objective evidence of conformance to the requirements of Item 2 above for pump 1P-50B vent and drain lines.



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# NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT

PAGE 1 OF 3

4. PROJECT NAME: Midland		7. NONCONFORMING PART NO: NA		3. NONCONFORMING PART NAME: NA		1. NCR SERIAL NO: N-01-4-9-016	
5. SERIAL NUMBER: NA		10. ORG. COMMITTING NCR: Bechtel QC		11. AREA/LOC. OF NCR: NA		2. DATE: 2-19-79	
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: Paragraph 5.10 "Radiography of Pipe or Tube" of Bechtel Radiographic Examination Specification RT-ASME Rev 0 states, "The type and location of penetrameters, type of exposure and viewing, and number of exposures shall be in accordance with Table 4".  Table 4 requires that when performing radiography of over 3 1/2" nominal pipe size to Section III NB, NC using techniques A, B, C, D shown in Figure I of RT-ASME Rev 0, penetrameter selection shall be in accordance with Table 5 of RT-ASME Rev 0.  (Contd on Page 3)						3. DATE OF REV: NA	
						4. FILE NO: 16.3.6	
13. QA RECOMMENDATION FOR PART CA: 1. Review all reports which reflect the condition listed in NCR. 2. Reshoot welds which do not meet requirements of RT-ASME Rev 0 or justify code acceptance.  DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input type="checkbox"/> NOT REQUIRED <input checked="" type="checkbox"/>						5. DISTRIBUTION ACTION COPY: LADreisbach	
						INFO COPY: WLBarclay DBMiller WRBird WGMoring TCCooke JFNewgen JLCorley RASimanek RHeremston DATaggart SHLowell DRJohnson GSKeeley BWMarguglio PAMartinez JMilandin	
14. HOLD TAGS APPLIED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: NA							
15. IS PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW:							
16. DOES IT AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>				17. IS IT REPORTABLE PER 50.55(e): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
18. IS IT REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				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. J. Stumbe</i>		23. WRITTEN REPLY REQUIRED BY: 3-5-79 TO ESTABLISH CA COMPLETION DATE		24. SUPERVISOR'S SIGNATURE/DATE: <i>JR Keating 2-19-79</i>			
25. PART CA DISPOSITION, CERTIFICATION & COMPLETION DATE:							
26. DESIGN/PROJECT SIG. AUTH. DESP.:		27. P/O SIG. AUTH. DESP.:		28. PROCUREMENT SIG. CONC. DESP.:		29. SIG. OF ENG. RESP. FOR I/A:	
30. FAB/CONST. SIG. AUTH. DEP. DESP.:		31. SIG. OF TEST GROUP ACKNOW. CONDITION:		32. FOR NRCOR MCO - PLS. REPT. SIG. AUTH. DESP.:		33. QA AUTH. SIG. TO IMPLEMENT DESP.:	
34. METHOD OF PART CA VERIFICATION:							
35. SIG. OF ENG. RESP. FOR PART I/A SIGNIFYING COMPLETION:			36. SIG. VERIFYING PART I/A & HOLD TAG REMOVAL DATE:			37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)	





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# NONCONFORMANCE REPORT

## PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT

N-01-4-9-016  
NCR SERIAL NUMBER:

PAGE 2 OF

38. CA ASSESSMENT OF ROOT CAUSE(S):

Radiography personnel unaware of new requirements for penetrameter selection imposed when procedures were updated to reflect Winter '74 Summer '76 edition of ASME Code.

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. CA RECOMMENDATION FOR PROCESS CA:

To be determined at a later date.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

NCR SERIAL NO: M-01-4-9-016  
DATE: 2-19-79  
DATE OR REV: NA  
FILE NO: 16.3.6

## 12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Contd from Page 1)

Contrary to the above, penetrameter selection for the following welds does not meet the criteria as stated above.

<u>Weld</u>	<u>Drawing</u>	<u>System</u>	<u>Penetrameter</u>	
			<u>Used</u>	<u>Required</u>
FW-26	M 632 Sh 1	2 ELB	25	20
FW-19	M 632 Sh 1	2 ELB	17	15
FW-12	M 632 Sh 1	2 ELE	25	20
FW-15	M 512 Sh 3	1 HBB	12	10
FW-45R1	M 512 Sh 3	1 HBB	12	10
FW-50	M 512 Sh 3	1 HBB	12	10
FW-43R2	M 531 Sh 3	2 HBB	12	10
FW-48	M 531 Sh 3	2 HBB	12	10



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# NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -  
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PAGE 1 OF 2

1. PROJECT NAME: Midland 1 & 2		7. NONCONFORMING PART NO: Cable 1A5508D		3. NONCONFORMING PART NAME: Electrical Cable		1. NRC SERIAL NO: M-01-4-9-017	
2. SERIAL NUMBER: NA		10. ORG. COMPLETING NO: Bechtel Const		11. AREA/LOC. OF NO: Aux Bldg 614/634 Levels		2. DATE: 2-19-79	
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: Cable 1A5508D is incorrectly routed; its present routing is not documented correctly and the cable marker identifying the cable destination is wrong. Attachment 1, Column A shows the scheduled routing of this cable; Column B shows the documented routing per QCIR; Column C shows routing as it presently is. Column D gives list of cables scheduled to pass through conduit 1AJB023 and proper routing to do so. Cable marker for 1A5508D identifies destination as EPA 1Z113. It is presently installed in EPA 1Z112.						3. DATE OF REV: 2-21-79	
						4. FILE NO: 16.3.4	
13. CA RECOMMENDATION FOR PART CA: Evaluate and provide corrective action.						5. DISTRIBUTION ACTION COPY: LADreisbach	
DESIGN/PROJECT ENG. DISPOSITIONS REQUIRED <input checked="" type="checkbox"/> NOT REQUIRED <input type="checkbox"/>						INFO COPY: WLBarclay DBMiller WRBird WGMoring TCCooke JFNewgen JLCorley RASimanek RHeremston DATaggart SHHowell DRJohnson GSKeeley BWMarguglio PAMartinez JMilandin	
14. HOLD TAGS APPLIED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: NA					
15. IS PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		IF NO, ENTER JUSTIFICATION BELOW:					
16. DOES NO AFFECT Q-LIST ITEMS: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		17. IS NO REPORTABLE PER 50.55(*): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		18. IS NO REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		19. IF YES, DATE & TIME OF REPORT TO NRC: NA	
20. IF YES, WHO MADE REPORT TO NRC: NA		21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA		22. NRC ORIGINATED BY: <i>D. Nott</i>			
23. WRITTEN REPLY REQUIRED BY: 3-5-79		24. SUPERVISOR'S SIGNATURE/DATE: <i>Paul Super 2-22-79</i>		25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:			
26. DESIGN/PROJECT SIG. AUTH. DISP.: NA		27. PRO SIG. AUTH. DISP.: NA		28. PROCUREMENT SIG. CONC. DISP.: NA		29. SIG. OF ENG. RESP. FOR S/A:	
30. FAB/CONST. SIG. AUTH. DEP. DISP.: NA		31. SIG. OF INST GROUP ACTION. CONDITION: NA		32. FOR MAJOR NOC - PLS. SUPT. SIG. AUTH. DISP.: NA		33. CA AUTH. SIG. TO DOCUMENT DISP.:	
34. METHOD OF PART CA VERIFICATION:							
35. SIG. OF ORG. RESP. FOR PART S/A SIGNIFYING COMPLETION:		36. SIG. VERIFYING PART S/A & HOLD TAG REMOVAL/DATE:			37. NRC CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)		



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# NONCONFORMANCE REPORT

## PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT  
M-01-4-9-017  
NCR SERIAL NUMBER:

PAGE 2 OF

38. CA ASSESSMENT OF ROOT CAUSE(S):

Unknown, to be determined.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA REQUIRED FROM:

DESIGN

FABRICATION

CONSTRUCTION

PROCUREMENT

INSTALLATION

OTHER \_\_\_\_\_

41. CA RECOMMENDATION FOR PROCESS CA:

Timely action should be taken to prevent recurrence to avoid tray and conduit overloading.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 40 & DATE OF COMPLETION:

43. METHOD OF PROCESS CA VERIFICATION:

44. SIG. OF MGR. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

SECTION - 1017

Column A REV. 24 <sup>dtd</sup> 1-27-79	Column B INSPT. RECORD <sup>dtd</sup> 1-5-79	Column C Actual Instl. <sup>DATE</sup> 2-9-79	Column D E-36
IASL 904	IASL 904	IASL 904	IAB 4301 J
IAJM 04	IAJM 04	IAJA 05	IAB 4301 K
IAKA 05	IAJA 05	IAJC 01	IAB 4302 C
IAKA 06	IAJC 01	IAJB 07	IAB 4305 C
IAKA 07	IAJB 07	IAJB 08	IAB 4306 C
IAKA 08	IAJB 08	IAJB 09	IAB 4309 C
IAKA 09	IAJB 09	IAJB 10	IAB 4310 J
IAKA 10	IAJB 10	IAJB 11	IAB 4310 K
IAKA 11	IAJB 11	IAJB 12	IAB 5533 J
IAKA 12	IAJB 12	IAJB 13	IAMU 001 E
IAKA 13	IAJB 13	IAJB 19	IAMU 002 E
IAKA 19	IAJB 19	IAJB 18	IAMU 003 E
IAKA 18	IAJB 18	IAJB 17	IAMU 004 E
IAKA 20	IAJB 17	IAJB 20	IAMU 011 J
IAKA 21	IAJB 20	IAJB 21	IAMU 012 A
IAKA 036 (Conduit)	IAJB 21	IAJB 023 (Conduit)	IAMU 012 F
IAKA 23	IAJB 023 (Conduit)	IAKA 24	IAQ 103 A
IZ 112	IAKA 23	IAKA 23	IAQ 103 E
	IZ 112	IZ 112	IAQ 104 A
			IAQ 104 E
			IAQ 105 A
			IAQ 106 A
			IAQ 107 A
			IAQ 107 E
			IAQ 110 A
			IAQ 111 A
			IAQ 112 A
			IAQ 112 F
			IARW 175 B
			IASO 12 A
			IASO 12 C
			IAW 001 A
			IAW 002 A
			IAW 003 A
			IAW 004 A
			IAW 005 A
			IAW 006 A
			IAW 007 A

↑  
"As Required"  
Condition

↑  
"As is"  
Condition

Attachment #1  
to  
NCR M-01-4-9-017



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# NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT

PAGE 1 of 2

1. PROJECT NAME: Midland 1 & 2		7. NONCONFORMING PART NO: Cable Tray 2AFB09		8. NONCONFORMING PART NAME: Cable Tray		1. SERIALIZED NO: M-CT-4-9-018	
3. SERIAL NUMBER: NA		19. OSC. COMMITTEE NO: NA		11. AREA/LOC. OF NO: Elev 646'-0" Lower Cable Spreading Room		2. DATE: 2-20-79	
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:  Paragraph 7, E-42 Sheet 2, Rev 7 requires protection be provided where a cable presses against sharp edges.  Contrary to the above, multiple cables cross over the top of cable tray section 2AFB09 going into 2AWW021 without being protected from sharp edges of the tray section.						3. DATE OF REV: NA	
						4. FILE NO: 16.3.4, 16.3.6	
13. QA RECOMMENDATION FOR PART CA:  Provide protection between cables and tray sections as noted above.						5. DISTRIBUTION ACTION COPY:  LADreisbach	
						INFO COPY: WLBarclay DBMiller WRBird WGMoring TCCooke JFNewgen JLCorley RASimanek RHermeston DATaggart SHHowell DRJohnson GSKeeley BWMarguglio PAMartinez JMilandin	
14. DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input type="checkbox"/> NOT REQUIRED <input checked="" type="checkbox"/>							
14. HOLD TAGS APPLIED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NUMBER, LOCATION & DATE OF HOLD TAGS APPLIED: NA							
14. IN PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW:							
15. DOES IT AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>				17. IS IT REPORTABLE PER 50.55(a): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
18. IS IT REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				19. IF YES, DATE & TIME OF REPORT TO ERC: NA			
20. IF YES, WHO MADE REPORT TO ERC: NA				21. IF YES, NAME OF ERC OFFICIAL TO WHOM REPORTED: NA			
22. WHO ORIGINATED BY: <i>John A Jones</i>		23. WRITING REPLY REQUIRED BY: 3-6-79		24. SUPERVISOR'S SIGNATURE/DATE: <i>Paul Kerner 2-21-79</i>			
25. PART CA DISPOSITION, VERIFICATION & COMPLETION DATE:							
26. DESIGN/PROJECT SIG. AUTH. DESP.: NA		27. P&O SIG. AUTH. DESP.: NA		28. PROGRAMMGT SIG. CONC. DESP.: NA		29. SIG. OF ENG. RESP. FOR C/A:	
30. FAB/CONST. SIG. AUTH. DESP.: NA		31. SIG. OF TEST GROUP ACTION, CONDITION: NA		32. FOR MAJOR MCD - PLS. SUPT. SIG. AUTH. DESP.: NA		33. QA AUTH. SIG. TO IMPLEMENT DESP.:	
34. METHOD OF PART CA VERIFICATION:							
35. IF ENG. RESP. FOR PART C/A SIGNIFYING COMPLETION:		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE:			37. WORK CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)		



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# NONCONFORMANCE REPORT

## PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT  
M-01-4-9-018  
FORM SERIAL NUMBER:

PAGE 2 OF 2

38. QA ASSESSMENT OF ROOT CAUSE(S):

To be determined.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

40. PROCESS CA DERIVED FROM:

DESIGN

FABRICATION

CONSTRUCTION

PROCUREMENT

INSPECTION

OTHER \_\_\_\_\_

41. QA RECOMMENDATION FOR PROCESS CA:

It is recommended that the Electrical Superintendent direct the Foremen to install cable tray softener as the cables are being routed to provide protection while the cable is being installed as well as after installation.

It is further recommended that Bechtel QC conduct a training class for all inspectors and that sheet 2(7) of E-42 be immediately included in Activity 2.5 of PQCI E-4.0.

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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# NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT

6. PROJECT NAME: Midland 1 & 2		7. NONCONFORMING PART NO: NA		8. NONCONFORMING PART NAME: RPV Sole Plate Grouting		1. XRC SERIAL NO: M-01-4-9-019	
9. SERIAL NUMBER: NA		10. ORG. COMPLETING NO: Bechtel Construction and QC		11. AREA/LOC. OF NC: RPV Sole Plate, RB/1 @ Elevation 603'-0"+		2. DATE: 2-20-79	
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:  Five Star Grouting Manual, General Procedures, III Preparation 4. Surface Preparation, states, "All surfaces to be in contact with the grout shall be entirely free of oil, grease, laitance, curing compounds, and other foreign substances".  Contrary to the above, during overinspection of grouting of the RPV sole plate, RB/1, a grease-like foreign substance was detected on the concrete surface.		13. CA RECOMMENDATION FOR PART CA:  Remove foreign substance from concrete surface before proceeding with grouting operation.		14. DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input type="checkbox"/> NOT REQUIRED <input checked="" type="checkbox"/>		3. DATE OF REV: NA	
						4. FILE NO: 16.3.4, 16.3.6	
15. DOES IT AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		16. IS IT REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		17. IS IT REPORTABLE PER 50.55(e): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		5. DISTRIBUTION ACTION COPY:  LADreisbach	
						18. IF YES, DATE & TIME OF REPORT TO XRC: NA	
19. IF YES, WHO MADE REPORT TO XRC: NA		20. IF YES, NAME OF XRC OFFICIAL TO WHOM REPORTED: NA		21. IF YES, DATE & TIME OF REPORT TO XRC: NA		INFO COPY: WBarclay JMilandin WRBird DBMiller TCCooke WGMoring JLCorley JFNewgen RHermeston RASimanek SHHowell DATaggart DRJohnson GSKeeley BWMarguglio PAMartinez	
22. XRC ORIGINATED BY: <i>[Signature]</i>		23. WRITTEN REPLY REQUIRED BY: 3-7-79		24. SUPERVISOR'S SIGNATURE/DATE: <i>[Signature]</i> 2/21/79		25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:	
26. DESIGN/PROJECT ENG. DISPOSITION: NA		27. PNO ENG. DISPOSITION: NA		28. PROCEDURE ENG. CONC. DISPOSITION: NA		29. ENG. OF ORG. RESP. FOR I/A: NA	
30. FAB/CONST. ENG. DISPOSITION: NA		31. ENG. OF TEST GROUP ACTION CONDITION: NA		32. FOR MAJOR NC - FILE SUPP. ENG. ACTION DISPOSITION: NA		33. CA ACTION ENG. TO IMPLEMENT DISPOSITION: NA	
34. METHOD OF PART CA VERIFICATION:							
35. ENG. OF ORG. RESP. FOR PART I/A SIGNIFYING COMPLETION: NA		36. ENG. VERIFYING PART I/A & HOLD TAG REMOVAL DATE:		37. XRC CLOSED BY DATE: (PART & PROCESS CA COMPLETE)			





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# NONCONFORMANCE REPORT

## PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT  
M-01-4-9-019  
NCR SERIAL NUMBER:

PAGE 2 OF 2

18. CA ASSESSMENT OF ROOT CAUSE(S):

Unknown, to be determined.

19. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

20. PROCESS CA REQUIRED FROM:

DESIGN

FABRICATION

CONSTRUCTION

EQUIPMENT

INSPECTION

OTHER \_\_\_\_\_

21. CA RECOMMENDATION FOR PROCESS CA:

Determined root cause and take corrective action to preclude repetition, respond to this office no later than 3-7-79.

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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# NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT

PAGE 1 of 2

1. PROJECT NAME: Midland 1 & 2		7. NONCONFORMING PART NO: 1BB5603 G		8. NONCONFORMING PART NAME: Cable		1. THE SERIAL NO: M-01-4-9-020	
9. SERIAL NUMBER: NA		10. ORG. COMMITTEE NO: Bechtel Const & QC		11. AREA/LOC. OF CONC. E1 674'-6" Upper Cable Spreading Room		2. DATE: 2-21-79	
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: Drawing E-37, Rev 24 shows routing of cable 1BB5603 G to be as follows: from tray BFA03 to wireway BW017.  Contrary to the above, cable 1BB5603 G is routed as follows: from cable tray BFA02 to wireway BW017.  Quality Control Inspector signed off on Activity 2.6 (vias) on the IR (on 2-14-79) attesting to proper routing.						3. DATE OF REV: NA	
						4. FILE NO: 16.3.4, 16.3.6	
13. QA RECOMMENDATION FOR PART CA: Activity 2.6 on the IR should be lined through as an erroneous entry. Cable tray sections should be marked as indicated on design drawings or all the drawings should be corrected.						5. DISTRIBUTION ACTION COPY: LADreisbach	
DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input type="checkbox"/> NOT REQUIRED <input checked="" type="checkbox"/>						INFO COPY: WLBarclay JMilandin WRBird DBMiller TCCooke WGMoring JLCorley JFNewgen RHermeston RASimanek SHHowell DATaggart DRJohnson GSKeeley BWMarguglio PAMartinez	
14. HOLD TAGS APPLIED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: NA							
15. PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW:							
15. DOES IT AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>				17. IS IT REPORTABLE PER 50.59(*): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
18. IS IT REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				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 CHECKED BY: <i>John H. Jones</i>		23. WRITTEN REPLY REQUIRED BY: 3-7-79		24. SUPERVISOR'S SIGNATURE/DATE: <i>Paul Kuper 2-21-79</i>			
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:							
26. DESIGN/PROJECT SIG. AUTH. DESP.: NA		27. P&O SIG. AUTH. DESP.: NA		28. PROGRAMMERS SIG. DESP. DESP.: NA		29. SIG. OF ENG. RESP. FOR Q/A:	
30. FAB/CONST. SIG. AUTH. DESP.: NA		31. SIG. OF TEST GROUP ACKNOW. CONDITION: NA		32. FOR MAJOR MCD - PLS. SUPP. SIG. AUTH. DESP.: NA		33. QA AUTH. SIG. TO DOCUMENT DESP.:	
34. METHOD OF PART CA VERIFICATION:							
35. SIG. OF ENG. DESP. FOR PART I/A SIGNOFFING COMPLETION:		36. SIG. VERIFYING PART I/A & HOLD TAG REMOVAL DATE:			37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)		



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Company

# NONCONFORMANCE REPORT

## PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT  
M-01-4-9-020  
NCR SERIAL NUMBER: \_\_\_\_\_

PAGE 2 OF \_\_\_\_\_

18. CA ASSESSMENT OF ROOT CAUSE(S):

Cable tray 1BFA is improperly marked as documented on Bechtel NCR 1727 and this causes cable tray section 1BFA02 to be the section to utilize for proper entry into wireway 1BWW017.

19. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

20. PROCESS CA DERIVED FROM:

DESIGN

FABRICATION

CONSTRUCTION

PROCUREMENT

INSPECTION

OTHER \_\_\_\_\_

21. CA RECOMMENDATION FOR PROCESS CA:

It is recommended that cable tray 1BFA and all others be stenciled to comply with all the design drawings.  
It is further recommended that QC inspectors be given training on Bechtel's system for identifying deviations or nonconformances.

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 IDENTIFYING COMPLETION:

25. PROCESS CA COMPLETION VERIFIED BY/DATE:



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# NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT

PAGE 1 of 2

6. PROJECT NAME: Midland		7. NONCONFORMING PART NO: NA		8. NONCONFORMING PART NAME: Portable Oven		1. NCR SERIAL NO: N-05-4-9-021	
9. SERIAL NUMBER: NA		10. ORG. COMPLETING NO: B&W CC		11. AREA/LOC. OF NCR: Cont #2		2. DATE: 2-21-79	
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS SPECIFIED" CONDITION WITH REFS:  The portable oven assigned to welder #376 for installation of fitup lugs was not plugged in nor had the weld filler material (7015A1) been returned to the rod issue room as required by paragraph 3.3.3 of B&W Construction Company Procedure 9-WG-107, Rev 2.						3. DATE OF REV: NA	
						4. FILE NO: 16.4.4	
13. CA RECOMMENDATION FOR PART CA: The material welded with this filler material was temporary attachments that are to be removed prior to service and, as such, no part corrective action is needed.						5. DISTRIBUTION ACTION COPY: RWShope	
						INFO COPY: VNAsgaonkar JFNewgen WRBird DATaggart TCCooke CDThompson JLCorley LFStornetta RHermeston AWDePatie SHHowell GSKeeley BWMarguglio PAMartinez DBMiller	
DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input type="checkbox"/> NOT REQUIRED <input checked="" type="checkbox"/>							
14. HOLD TAGS APPLIED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: NA							
IS PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, OTHER JUSTIFICATION BELOW:							
15. DOES IT AFFECT Q-LIST ITEMS: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>				17. IS IT REPORTABLE PER 50.95(*): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
16. IS IT REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				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 RECEIVED BY: 3-7-79 TO ESTABLISH CA COMPLETION DATE		24. SUPERVISOR'S SIGNATURE/DATE: <i>J. Kelly</i> 2/21/79			
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:							
26. DESIGN/PROJECT SIG. AUTH. DISP.:		27. P&O SIG. AUTH. DISP.:		28. PROCEDURIST SIG. AUTH. DISP.:		29. SIG. OF ENG. REP. FOR P/A:	
30. FAB/CONST. SIG. AUTH. DISP.:		31. SIG. OF TEST GROUP ACTING CONDITION:		32. FOR MAJOR MCD - PLS. SUPP. SIG. AUTH. DISP.:		33. CA AUTH. SIG. TO DOCUMENT DISP.:	
34. METHOD OF PART CA VERIFICATION:							
35. SIG. OF ENG. REP. FOR PART P/A SIGNIFYING COMPLETION:		36. SIG. VERIFYING PART P/A & HOLD TAG REMOVAL DATE:			37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETED)		



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# NONCONFORMANCE REPORT

## PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -

QUALITY ASSURANCE DEPARTMENT

M-03-4-9-021

FOR SERIAL NUMBER:

PAGE 2 OF 2

18. QA ASSESSMENT OF ROOT CAUSE(S):

Failure to follow paragraph 3.3.3 of Procedure 9-WG-107, Rev 2.

19. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

20. PROCESS CA DERIVED FROM:

DESIGN

FABRICATION

CONSTRUCTION

PROCUREMENT

INSPECTION

OTHER \_\_\_\_\_

21. QA RECOMMENDATION FOR PROCESS CA:

Re-instruct all welders of the requirement to maintain proper heated storage for E 7015A1 weld filler material.

22. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK #1 & DATE OF COMPLETION:

23. METHOD OF PROCESS CA VERIFICATION:

24. SIG. OF MGR. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

25. PROCESS CA COMPLETION VERIFIED BY/DATE:



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# NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT

PAGE 1 of 3

6. PROJECT NAME: Midland 1 & 2		7. NONCONFORMING PART NO: Cable 2AB2311D		8. NONCONFORMING PART NAME: Electrical Cable		1. PER SERIAL NO: M-01-4-0-024	
9. SERIAL NUMBER: NA		10. ORG. COMPLETING NO: Bechtel Const		11. AREA/LOC. OF NO: Aux Bldg 614 Level		2. DATE: 2-22-79	
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: Routing of cable 2AB2311D is incorrect. Attachment 1 is a partial routing of this cable at the affected end only. Column A and B of the attachment show scheduled and documented (QCIR) routing, Column C shows actual routing, Column D shows cables scheduled for Conduit 2AKA032.  QCIR 2AB2311-D was accepted as complete by Bechtel QC on 2-1-79.						3. DATE OF REV: NA	
						4. FILE NO: 16.3.4	
13. CA RECOMMENDATION FOR PART CA:  Route cable 2AB2311D through correct conduit.						5. DISTRIBUTION ACTION COPY:  LADreisbach	
						INFO COPY: WLBarclay DBMiller WRBird WGMoring TCCooke JFNewgen JLCorley RASimanek RHermeston DATaggart SHHowell DRJohnson GSKeeley BWMarguglio PAMartinez IMilandin	
14. DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input checked="" type="checkbox"/> NOT REQUIRED <input type="checkbox"/>							
16. SOLD TAGS APPLIED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NUMBER, LOCATION & TYPE OF SOLD TAGS APPLIED: NA							
18. IN PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW:							
15. DOES NO AFFECT 4-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>				17. IS NO REPORTABLE PER 50.55(*): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
18. IS NO REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				19. IF YES, DATE & TIME OF REPORT TO MGR: NA			
20. IF YES, WHO MADE REPORT TO MGR: NA				21. IF YES, NAME OF MGR OFFICIAL TO WHOM REPORTED: NA			
22. NCR ORIGINATED BY: <i>H. Nott</i>		23. WRITTEN REPLY REQUIRED BY: 3-8-79 TO ESTABLISH CA COMPLETION DATE		24. SUPERVISOR'S SIGNATURE/DATE: <i>Paul Kuper 2-22-79</i>			
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:							
26. DESIGN/PROJECT SIG. AUTH. DESP.: NA		27. P&O SIG. AUTH. DESP.: NA		28. PROCUREMENT SIG. AUTH. DESP.: NA		29. SIG. OF ORG. RESP. FOR N/A:	
30. FAB/CONST. SIG. AUTH. DP. DESP.: NA		31. SIG. OF TEST GROUP ACKNOW. CONDITION: NA		32. FOR MAINT NCR - FLT. SUPT. SIG. AUTH. DESP.: NA		33. CA AUTH. SIG. TO DOCUMENT DESP.:	
34. METHOD OF PART CA VERIFICATION:							
35. SIG. OF ORG. RESP. FOR PART N/A SIGNIFYING COMPLETION:			36. SIG. VERIFYING PART N/A & SOLD TAG REMOVAL DATE:			37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)	



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# NONCONFORMANCE REPORT

## PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT  
M-01-4-9-024  
FORM SERIAL NUMBER:

PAGE 2 OF 3

18. QA ASSESSMENT OF ROOT CAUSE(S):

Unknown, to be determined.

19. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

20. PROCESS CA REQUIRED FROM:

DESIGN

FABRICATION

CONSTRUCTION

PROCUREMENT

INSPECTION

OTHER \_\_\_\_\_

21. QA RECOMMENDATION FOR PROCESS CA:

Unknown, to be determined.

22. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 20 & DATE OF COMPLETION:

23. METHOD OF PROCESS CA VERIFICATION:

24. SIG. OF IND. RESPONSIBLE FOR PROCESS CA VERIFYING COMPLETION:

25. PROCESS CA COMPLETION VERIFIED BY DATE:

Cable Scheme No. 2AB2311 D

Conduit 2AKA 03:  
2AKA15 → 2AKA16/

Column A REV. 24 <sup>dtd</sup> 1-27-79	Column B INSPT. RECORD <sup>dtd</sup> 2-1-79	Column C Actual Instl. <sup>DATE</sup> 2-20-79	Column D E-36
--	---	---	------------------

2AKA 15  
2AKA 033 (Conduit)  
2AKA 16  
2AKA 17  
2Z112

2AKA 15  
2AKA 033 (Conduit)  
2AKA 16  
2AKA 17  
2Z112

2AKA 15  
2AKA 032 (Conduit)  
2AKA 17  
2Z112

2AB 2308 C  
2AB 2511 C  
2AB 2337 A  
2AB 5533 A



As Required  
Condition



As is  
Condition

Attachment #1  
to  
NCR M-01-4-9-024





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# NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT

PAGE 1 of 2

6. PROJECT NAME: Midland 1 & 2		7. NONCONFORMANCE PART NO: 1BFA01 & 1BFA02		8. NONCONFORMING PART NAME: Cable Trays		1. NCR SERIAL NO: M-01-4-9-025	
9. SERIAL NUMBER: NA		10. OBS. COMMITTEE NO: Bechtel QC & Const		11. AREA/LOC. OF IC: Elev 674'-6" Upper Cable Spreading Room		2. DATE: 2-22-79	
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:  Paragraph 2, FIG-1.500 Rev 0, "Quality Control Hold Tags" states that, "No work shall be accomplished on an item other than that work specifically authorized by the NCR or as specified by the QC Engineer".  Contrary to the above, cable tray 1BFA was documented on NCR 1727 and hold tags applied on 12/20/78. On 2/14/79, eleven cables including 1B5603G were installed in this cable tray.						3. DATE OF REV: NA	
						4. FILE NO: 16.3.4, 16.3.6	
13. QA RECOMMENDATION FOR PART CA: It is recommended that clearance be obtained from the QC Engineer for installation of cables pending final disposition of NCR 1727, i.e., conditional release.						5. DISTRIBUTION ACTION COPY:  LADreisbach	
						6. INFO COPY: WLBarclay JMilandin WRBird DBMiller TCCooke WGMoring JLCorley JFNewgen RHermeston RASimanek SHHowell DATaggart DRJohnson GSKeeley BWMarguglio PAMartinez	
DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input type="checkbox"/> NOT REQUIRED <input checked="" type="checkbox"/>							
14. HOLD TAGS APPLIED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: NA							
IS PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW:							
15. DOES IT AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>				17. IS IT REPORTABLE PER 50.53(*): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
16. IS IT REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				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>Edgar L. Jones</i>		23. WRITTEN REPLY REQUIRED BY: 3-8-79 TO ESTABLISH CA COMPLETION DATE		24. SUPERVISOR'S SIGNATURE/DATE: <i>Paul Kuper</i> 2-22-79			
25. PART CA DISPOSITION, JUSTIFICATIONS & COMPLETION DATE:							
26. DESIGN/PROJECT SIG. AUTH. DESP.: NA		27. PMO SIG. AUTH. DESP.: NA		28. PROCUREMENT SIG. AUTH. DESP.: NA		29. SIG. OF ENG. DESP. FOR C/A:	
30. FAB/CONST. SIG. AUTH. DESP.: NA		31. SIG. OF TEST GROUP ACCEPT. CONDITION: NA		32. FOR VALUE MOD - PLS. SUPP. SIG. AUTH. DESP.: NA		33. QA AUTH. SIG. TO IMPLEMENT DESP.:	
34. METHOD OF PART CA VERIFICATION:							
35. IF TAG. RESP. FOR PART I/A SIGNIFYING COMPLETION:			36. SIG. VERIFYING PART I/A & HOLD TAG REMOVAL/DATE:			37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)	



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# NONCONFORMANCE REPORT

## PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -

QUALITY ASSURANCE DEPARTMENT

M-01-4-9-025

NCR SERIAL NUMBER:

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18. QA ASSESSMENT OF ROOT CAUSE(S):

NCR 1727 required the placement of a hold tag and this was applied to tray section 1BFA17 with no other tags placed. The cables were placed in tray sections 1BFA01 and 1BFA02 out of normal view of the hold tag.

19. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

20. PROCESS CA DERIVED FROM:

DESIGN

FABRICATION

CONSTRUCTION

PROCUREMENT

OPERATION

OTHER \_\_\_\_\_

21. QA RECOMMENDATION FOR PROCESS CA:

It is recommended that procedures for placing QC hold tags be written to define where tags should be placed to prevent recurrence of this type violation of FIG-1.5. It is further recommended that both Construction and Quality Control personnel be trained in the process of QC hold tag placement, conditional release, and removal.

22. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK #1 & 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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# NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT

PAGE 1 of 2

1. PROJECT NAME: Midland 1 & 2		7. NONCONFORMING PART NO: Cable Tray 2AFD05		8. NONCONFORMING PART NAME: Cable Tray		1. JRC SERIAL NO: M-01-4-9-026	
3. SERIAL NUMBER: NA		10. ORG. COMPLETION NO: NA		11. AREA/LOC. OF DEF: Elev 646'-0" Lower Cable Spreading Room		2. DATE: 2-26-79	
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS SPECIFIED" CONDITION WITH REFS:  Paragraph 7, E-42 Sheet 2, Rev 7 requires protection be provided where a cable presses against sharp edges.  Contrary to the above, multiple cables cross over the top of cable tray section 2AFD05 going into wireway 2AWW037 without being protected from sharp edges of the tray section.						3. DATE OF REV: NA	
						4. FILE NO: 16.3.4 16.3.6	
13. CA RECOMMENDATION FOR PART CA:  Provide protection between cables and tray section as noted above.						5. DISTRIBUTION ACTION COPY:  LADreisbach	
						INFO COPY: WBarclay JMilandin WRBird DBMiller TCCooke WGMoring JLCorley JFNewgen RHermeston RASimanek SHHowell DATaggart DRJohnson GSKeeley BWMarguglio PAMartinez	
DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input type="checkbox"/> NOT REQUIRED <input checked="" type="checkbox"/>							
14. BOLD TAGS APPLIED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NUMBER, LOCATION & TYPE OF BOLD TAGS APPLIED: NA							
15. IN PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW:							
16. DOES IT AFFECT Q-LIST ITEMS: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>				17. IS IT REPORTABLE PER 50.55(a): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
18. IS IT REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				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. BY: <i>Edmund H Jones</i>		23. WRITTEN REPLY REQUIRED BY: 3-13-79		24. SUPERVISOR'S SIGNATURE/DATE: <i>Paul Syner 2-27-79</i>			
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:							
26. DESIGN/PROJECT ENG. AUTH. DESP.: NA		27. P.O. ENG. AUTH. DESP.: NA		28. REQUIREMENT ENG. CONC. DESP.: NA		29. ENG. OF ENG. RESP. FOR C/A:	
30. FAB/CONST. ENG. AUTH. DESP.: NA		31. ENG. OF TEST GROUP ACKNOW. CONDITION: NA		32. FOR MAINT. NO. - P.L.C. SUPP. ENG. AUTH. DESP.: NA		33. CA AUTH. ENG. TO EQUIPMENT DESP.:	
34. METHOD OF PART CA VERIFICATION:							
35. IF ENG. RESP. FOR PART C/A SIGNIFYING COMPLETION:		36. ENG. VERIFYING PART C/A & BOLD TAG REMOVAL DATE:			37. HOW TAGGED BY DATE: (PART & PROCESS CA COMPLETED):		



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# NONCONFORMANCE REPORT

## PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -

QUALITY ASSURANCE DEPARTMENT

M-01-4-9-026

NCE SERIAL NUMBER:

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18. QA ASSESSMENT OF ROOT CAUSE(S):

To be determined.

19. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

20. PROCESS CA DERIVED FROM:

DESIGN

FABRICATION

CONSTRUCTION

PROCUREMENT

OPERATION

OTHER

21. QA RECOMMENDATION FOR PROCESS CA:

It is recommended that immediate action be taken to have cable tray softener installed on all areas of cable trays that now have cables crossing sharp edges. Action should be taken to have softener installed as the cables are being routed.

It is further recommended that Bechtel QC reinspect all cable installations to be certain no cables are exposed to possible damage from sharp edges.

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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# NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -  
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6. PROJECT NAME: Midland 1 & 2	7. NONCONFORMANCE PART NO: PR-632-1-17, 40, 37, PR-632-1-20, 15, 30	8. NONCONFORMANCE PART NAME: Main Steam Line Pipe Restraint	1. FILE SERIAL NO: M-01-4-9-029
9. SERIAL NUMBER: NA	10. ORG. COMMITTEE NO: Bechtel Construction	11. AREA/LOC. OF DEF: Combo Shop Containment #2	2. DATE: 2-28-79
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS ORDERED" CONDITION WITH REFS: Paragraph 2.1.1 of AWS D1.1 states, "Full and complete information regarding location, type, size, and extent of all welds shall be clearly shown on the drawings. The drawings shall clearly distinguish between shop and field welds". Note: The term "drawings" refers to plans, design and detail drawings, and erection plans.  Paragraph 2.1.4 of AWS D1.1 states, "Detail drawings shall clearly indicate by welding symbols on sketches the details of groove welded joints and the preparation of material required to make them. Steel backings shall be detailed in both width and thickness".  (Contd on Page 3)			3. DATE OF REV: NA
13. CA RECOMMENDATION FOR PART CA: 1. Remove backing bars per paragraph 8.14 of AWS D1.1 or provide adequate documentation that meets the requirements for traceability material in accordance with C-233(Q) Rev .15.  (Contd on Page 3)			4. FILE NO: 1634
DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input checked="" type="checkbox"/> NOT REQUIRED <input type="checkbox"/>			5. DISTRIBUTION ACTION COPY:  LADreisbach
HOLD TAGS APPLIED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>			INFO COPY: WLBarclay JMilandin WRBird DBMiller TCCooke WGMoring JLCorley JFNewgen RHermeston RASimanek SHHowell DATaggart DRJohnson GSKeeley BWMarguglio PAMartinez

NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED:  
Five (5) - Containment #2 (4 ea); Yard/Cont #1 (1 ea). CPCo Hold Tags

14. IS PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW:			
15. DOES NO AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	17. IS NO REPORTABLE PER 50.55(a): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	19. IF YES, DATE & TIME OF REPORT TO ENG: NA	
16. IS NO REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	20. IF YES, WHO MADE REPORT TO ENG: NA		
21. IF YES, NAME OF ENG OFFICIAL TO WHOM REPORTED: NA		22. SUPERVISOR'S SIGNATURE/DATE: <i>DR Keating</i> 2-28-79	
23. WRITTEN REPLY DATED BY: 3-13-79 TO ESTABLISH CA COMPLETION DATE		24. CA ORIGINATED BY: <i>[Signature]</i>	
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:			
26. DESIGN/PROJECT ENG. AUTH. DESP.:	27. ENG. DESP. AUTH. DESP.:	28. PROCUREMENT ENG. DESP. DESP.:	29. FILE NO. OF ENG. DESP. FOR I/A:
30. FAB/CONST. ENG. DESP. DESP.:	31. ENG. DESP. OF TEST GROUP ACTION, CONDITION:	32. FOR VALUE REC'D - FILE SUPP. ENG. DESP.:	33. CA AUTH. DESP. TO CLOSURE DESP.:
34. METHOD OF PART CA VERIFICATION:			
35. ENG. DESP. FOR PART I/A SIGNIFYING COMPLETION:	36. ENG. VERIFYING PART I/A & HOLD TAG REMOVAL DATE:	37. CA CLOSED BY DATE: (PART & PROCESS CA COMPLETE)	



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# NONCONFORMANCE REPORT

## PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT  
M-01-4-9-029  
FOR SERIAL NUMBER:

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18. CA ASSESSMENT OF ROOT CAUSE(S):

Unknown, to be determined.

19. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

20. PROCESS CA DERIVED FROM:

DESIGN

FABRICATION

CONSTRUCTION

PROCUREMENT

INSPECTION

OTHER \_\_\_\_\_

21. CA RECOMMENDATION FOR PROCESS CA:

Unknown, to be determined.

22. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 21 & DATE OF COMPLETION:

23. METHOD OF PROCESS CA VERIFICATION:

24. ICG, IF ICG, RESPONSIBLE FOR PROCESS CA IDENTIFYING COMPLETION:

25. PROCESS CA COMPLETION VERIFIED BY/DATE:

NCR SERIAL NO: M-01-4-9-029  
DATE: 2-28-79  
DATE OF REV: NA  
FILE NO: 16.3.4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Contd from Page 1)

Paragraph 8.14 of AWS D1.1 states, "Temporary welds shall be subject to the same welding procedure requirements as the final welds. They shall be removed when required by the Engineer. When they are removed, the surface shall be made flush with the original surface".

Paragraph 4.0 of C-304(Q) Rev 5 states, "Materials required for field fabrication of a structural steel shall be controlled in accordance with requirements contained in the applicable project specification called for on the engineering drawings".

Paragraph 5.2 of C-304(Q) Rev 5 states, "Details, fabrication, and types of connections to be used (i.e., bolted or welded) shall be in accordance with the drawings".

Paragraph 6.2.7 of C-304(Q) Rev 5 states, "Additional welds not shown on the drawing, other than as specified in Sections 6.2.5 and 6.2.6, require field engineering approval prior to final acceptance".

Contrary to the above, backing bars are being used to obtain FPGW's on all main steam line pipe restraints detailed on Drawing C-400 Rev 1, Drawing C-401 Rev 2, NPS Vendor Drawing E-130 Rev 3 (stamped approval by Bechtel Engineering for construction), and no backing bars are indicated. After use of these non-Q backing bars to achieve the full penetration groove welds, they are not removed. Backing bars may be used as an approved method to obtain a full penetration groove weld when determined by Field Engineering provided:

- a. The material is traceable material as required in paragraph 4.0 of C-304 Rev 5 and C-233 for Q-listed material.
- b. Design drawings specify dimensions and details as required in paragraph 5.2 of C-304 Rev 5.

If backing bars are to be considered temporary attachments using non-Q listed material and are not specified in any design or detailed drawing, they shall be removed as outlined in paragraph 8.14 of AWS D1.1.

13. QA RECOMMENDATION FOR PART CA:

(Contd from Page 1)

2. Clarify Engineering rationale to "use as is".
3. Bechtel NCR's 1355 and 1650 shall be reviewed and dispositioned in accordance with the criteria as outlined in block 12.
4. Review other closed NCR's pertaining to any similar situation and identify those closed NCR's for correction.



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# NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT

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PROJECT NAME: Midland		7. NONCONFORMING PART NO: NA	8. NONCONFORMING PART NAME: Flanged Connection	1. SUBMITTAL NO: N-01-5-3-008	
9. SERIAL NUMBER: NA	10. ORG. COMMITTEE NO: Bechtel QC	11. AREA/LOC. OF NO: Service Water Structure	2. DATE: 2-7-78	3. DATE OF REV: Closed 2-16-79	
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:  See Page 3			4. FILE NO: 16.3.6	5. DISTRIBUTION ACTION COPY:  LADreisbach	
13. QA RECOMMENDATION FOR PART CA:  See Page 3			INFO COPY: WLBarclay DBMiller WRBird WGMoring TCCooke JFNewgen JLCorley RASimanek RHermeton DATaggart SHHowell DRJohnson GSKeeley BWMarguglio PAMartinez IMilandin		
DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input checked="" type="checkbox"/> NOT REQUIRED <input type="checkbox"/>					
14. HOLD TAGS APPLIED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: NA					
16. PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW:					
15. DOES IT AFFECT 2-LIST ITEMS: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		17. IS IT REPORTABLE PER 50.55(*): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
18. IS IT REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		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. NCR GENERATED BY: <i>DRKenting</i>		23. WRITTEN REPLY ADVISED BY: 2-22-78	24. SUPERVISOR'S SIGNATURE/DATE: <i>DRKenting 2-7-78</i>		
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE: 1. The stud was replaced and the flanged connection was inspected and signed off for appropriate criteria prior to hydrostatic testing of the flanged connection.					
26. DESIGN/PROJECT SIG. AUTH. DESP.: LAD: 539, LAD: 417	27. PO SIG. AUTH. DESP.: NA	28. PROCUREMENT SIG. AUTH. DESP.: NA	29. SIG. OF ORG. DESP. FOR I/A: LAD: 539, LAD: 417		
30. FAB/CONST. SIG. AUTH. DESP.: LAD: 539, LAD: 417, GIR: 380	31. SIG. OF TEST GROUP AGENOV. CONDITION: NA	32. FOR MAINT NEG - PLS. SUPP. SIG. AUTH. DESP.: NA	33. QA AUTH. SIG. TO DOCUMENT DESP.: <i>DRKenting</i>		
34. METHOD OF PART CA VERIFICATION: 1. Bolt was observed to be replaced. 2. QCIR P-1.10-9743 was reviewed and found to be signed off on 3-7-78. 3. Hydrostatic test was witnessed by CPCo QA on 3-9-78.					
35. SIG. OF ENG. RESP. FOR PART I/A SIGNIFYING COMPLETION: LAD: 539, LAD: 417		36. SIG. VERIFYING PART I/A & HOLD TAG REMOVAL/DATE: <i>DRKenting 2-16-79</i>	37. SIG. CLOSED BY DATE: PART & PROCESS CA COMPLETE! <i>DRKenting 2-16-79</i>		





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# NONCONFORMANCE REPORT

## PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT  
M-01-5-8-008  
WORK SERIAL NUMBER:

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36. CA ASSESSMENT OF ROOT CAUSE(S):

To be determined by Bechtel by 2-22-78. Probable root cause is lack of inspection criteria in the area of flanged connections.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

Bechtel indicates root cause is inadequate inspection discipline and lack of attention to details relative to flanged connections.

40. PROCESS CA REQUIRED FROM:

DESIGN  FABRICATION  CONSTRUCTION  PROCUREMENT  INSPECTION

41. CA RECOMMENDATION FOR PROCESS CA:

1. Project Engineering to provide inspection criteria for flanged connections including bolt stud tensioning sequence, tensioning requirements, and use of lubricants.
2. Project Engineering to provide assurance that ASME Section III Paragraph NB-4700 is properly addressed in design documents.
3. Quality Control to obtain necessary inspection criteria from Project Engineering and implement requirements of the QCI's.
4. Establish prerequisites for hydrostatic tests that are not approaching construction-release status and, therefore, do not meet criteria of Special Instructions (No 1) on QCI T-1.00 "Hydrostatic and Pneumatic Leak Testing". The prerequisites are to include acceptance of flanged connections.
5. Verify status of any other flanged connections that have been hydro tested previously.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 40 & DATE OF COMPLETION:

1. Field Procedure FPM-4.000 was prepared and issued.
2. Training sessions for craft personnel were conducted.
3. FCR M 1346 was issued and approved by Project Engineering clarifying when additional flanged connection requirements are to be implemented.
4. Quality Control Instruction T-1.00, P-1.10, and P-1.30 were revised clarifying inspection criteria and methods of documenting inspections.
5. Training for QCE's was conducted in the requirements.
6. Other flanged connections were reviewed and found to be properly documented.

43. METHOD OF PROCESS CA VERIFICATION:

1. Field procedure FPM-4.000 was reviewed.
2. Training session documentation was reviewed.
3. FCR M 1346 was reviewed.
4. CPCo reviewed and approved the QCI revisions.
5. Documentation of QC training sessions, QCFM-5242, 5283, 5401, 5494, 5520, and 5618 was reviewed. Also, QCFM-4569 was reviewed.
6. CPCo Engineering Services reviewed the flange bolting practice and was satisfied with the practices in use and that ASME Code was addressed.

44. SIG. OF MGR. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

LAD: 539, LAD: 417

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

DRK [Signature] 2-16-79

NCR SERIAL NO: M-01-5-8-008  
DATE: 2-7-78  
DATE OF REV: Closed 2-16-79  
FILE NO: 16.3.6

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

The flanged connection between service water pipe spool OHBC-20-S618-1-4 and valve 418-008 was scheduled for hydrostatic test and subjected to the test pressure prior to the flanged connection being inspected and signed off.

Quality Control Instructions P-1.10 and P-1.30 covering pipe and valve installation inspection require, in Activity Numbers 2.5 and 2.9 respectively, that flanged connections be inspected for the following items:

- a. Correct bolting material
- b. Correct gasket
- c. Proper matching of bolt holes
- d. Gasket surfaces free of damage
- e. Stud/bolt threads and nut washers are lubricated with approved lubricant
- f. Uniform contact over entire flange area
- g. Threads fully engaged and nut washer face facing the flange
- h. Studs/bolts have been properly tightened (torqued or elongated at the correct valves in accordance with the required sequence)

NOTE 1: Record torque, torque wrench or micrometer identity number and calibration due date on the Flange Bolting Record.

The inspection is to be recorded on the Flange Bolting Record and the inspection signed off on the Inspection Record. It is noted that there was no Flange Bolting Record initiated for the connection.

13. QA RECOMMENDATION FOR PART CA:

Part Corrective Action is to perform the required inspection prior to reconducting the hydrostatic test on the flanged connection. (The flanged connection leaked under test pressure and thus was deleted from the scope of the initial test. Also, one stud of 28 was observed to be missing.)



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# NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -  
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PROJECT NAME: Midland		7. NONCONFORMING PART NO: 1½" LHBC-4		8. NONCONFORMING PART NAME: Emergency Diesel Fuel Supply Line		1. NCR SERIAL NO: M-01-4-8-063	
9. SERIAL NUMBER: NA		10. ORG. COMMITTING NCR: Bechtel Construction		11. AREA/LOC. OF NCR: South of Diesel Gen. Building		2. DATE: 7-19-78	
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: Line 1½" LHBC-4, as listed on drawing FSK-M-LHBC-4-3 Rev. 1 and FSK-M-LHBC-4-4 Rev. 0 was pneumatically tested with coating applied over the weld metal. The coating thickness as measured on several welds and weld areas varies from 0-5 mils in thickness. ASME Boiler & Pressure Vessel Code Section III, Division I paragraph ND-6121 states, "All joints including welds shall be left uninsulated and exposed for examination during the test". The covering of weld joints with paint is contrary to referenced criterion.						3. DATE OF REV: Closed 2-19-79	
						4. FILE NO: 16.34	
13. QA RECOMMENDATION FOR PART CA: 1. Remove paint from affected weld joints. 2. Re-accomplish pneumatic pressure test in accordance with applicable reference.						5. DISTRIBUTION ACTION COPY: GLRichardson	
						INFO COPY: WLBarclay JMilandin WRBird DBMiller TCCooke JFNewgen JLCorley DATaggart RHermeston SHHowell DRJohnson GSKeeley JMKlacking BWMarguglio PAMartinez	
DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input checked="" type="checkbox"/> NOT REQUIRED <input type="checkbox"/>							
14. HOLD TAGS APPLIED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: Two Bechtel tags, one at each end of the pipe.							
15. IS PROCESS CA REQUIRED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW: REM-471 and ASME Code Committee letter February 8, 1979 ASME File #NI 78-351 states coatings are not required to be removed during leak testing.							
16. DOES NCR AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>				17. IS NCR REPORTABLE PER 50.55(*): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
18. IS NCR REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				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: Donald K. Martin /s/ DKMartin				23. WRITTEN REPLY REQUIRED BY: 8-3-78 TO ESTABLISH CA COMPLETION DATE		24. SUPERVISOR'S SIGNATURE/DATE: DKMartin 7-19-78	
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE: The paint was removed. The affected portion of line 1½" LHBC-4 was retested in the presence of a CCo QA representative on 7-21-78.							
26. DESIGN/PROJECT SIG. AUTH. DISP.: Bechtel Letter GLR-381		27. PVO SIG. AUTH. DISP.: NA		28. PROCUREMENT SIG. CONC. DISP.: NA		29. SIG. OF ORG. RESP. FOR C/A: Bechtel Letter GLR-381 Bechtel Construction	
30. FAB/CONST. SIG. AUTH. EMP. DISP.: Bechtel Letter GLR-381		31. SIG. OF TEST GROUP ACKNOW. CONDITION: NA		32. FOR MAJOR MOD - PLT. SUPT. SIG. AUTH. DISP.: NA		33. QA AUTH. SIG. TO DOCUMENT DISP.: Donald K. Martin	
34. METHOD OF PART CA VERIFICATION: Local witness of successful leak test No. 975 by a CCo QA representative. Hold Tags removed.							
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION: Bechtel Letter GLR-381				36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE: Donald K. Martin 8/8/78 2/19/79		37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE) Donald K. Martin 2/19/79	



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# NONCONFORMANCE REPORT

## PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT  
M-01-4-8-063  
NCR SERIAL NUMBER: \_\_\_\_\_

PAGE 1 OF 1

38. QA ASSESSMENT OF ROOT CAUSE(S):

NA - See Block 15

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

NA - See Block 15

40. PROCESS CA REQUIRED FROM:

DESIGN

FABRICATION

CONSTRUCTION

PROCUREMENT

INSPECTION

OTHER \_\_\_\_\_

41. QA RECOMMENDATION FOR PROCESS CA:

NA - See Block 15

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

NA - See Block 15

43. METHOD OF PROCESS CA VERIFICATION:

NA - See Block 15

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

NA - See Block 15

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

NA - See Block 15



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# NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT

PAGE 1 OF 3

PROJECT NAME: <b>Midland</b>		7. NONCONFORMING PART NO: <b>NA</b>	8. NONCONFORMING PART NAME: <b>Valves/Pipes</b>	1. NCR SERIAL NO: <b>M-01-4-8-093</b>
9. SERIAL NUMBER: <b>NA</b>	10. ORG. COMMITTING NO: <b>Bechtel Construction</b>	11. AREA/LOC. OF NO: <b>Aux. Bldg.</b>	2. DATE: <b>11-6-78</b>	3. DATE OF REV: <b>Closed 2-7-79</b>
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: 1. On 10/25/78 a tour of the Aux. Bldg. (elevations 568, 584, 599, 614 and 634, not including wingwalls and piping galleries) was made. A total of 65 pipes/valves were observed to be uncapped/open. 2. On 11/5/78 a second tour of the above areas was made. Seventy two (72) pipes/valves were observed to be open/uncapped. <p style="text-align: right;">(Contd on Page 2)</p>			4. FILE NO: <b>16.3.4</b>	5. DISTRIBUTION ACTION COPY: <b>LADreisbach</b>
13. QA RECOMMENDATION FOR PART CA: 1. Tour all spaces and seal all pipes/valves. 2. Devise and implement program that will preclude the above conditions from recurring. <p style="text-align: right;">(Contd on Page 3)</p>			INFO COPY: WLBarclay      WMoring WRBird          JFNewgen TCCooke        RASimanek JLCorley        DATaggart RHermeston SHHowell GSKeeley BWMarguglio PAMartinez JMilandin DBMiller	
DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input type="checkbox"/> NOT REQUIRED <input checked="" type="checkbox"/>				
14. HOLD TAGS APPLIED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: <b>NA</b>				
IS PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW:				
15. DOES NC AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		17. IS NC REPORTABLE PER 50.95(e): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
18. IS NC REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		19. IF YES, DATE & TIME OF REPORT TO NRC: <b>NA</b>		
20. IF YES, WHO MADE REPORT TO NRC: <b>NA</b>		21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: <b>NA</b>		
22. NCR ORIGINATED BY: <i>AL Howard 11/6/78</i>		23. WRITTEN REPLY REQUIRED BY: <b>11-22-78</b> TO ESTABLISH CA COMPLETION DATE	24. SUPERVISOR'S SIGNATURE/DATE: <i>NR Keating 11-6-78</i>	
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE: 1. On 12-5-78, Bechtel QC toured affected spaces and replaced/repaired all endcaps/dust covers. 2. Bechtel QC has instituted program whereby all dust covers observed to be missing/damaged are reported to construction supervision for action. Additionally, on 1-3-79 Bechtel Project Superintendent issued an IOM to all Lead Piping Engineers directing them to be cognizant of their responsibilities for maintaining dust-proof covers. 3. Internal cleanliness of specific items is verified prior to fit-up by use of the applicable OCIR.				
26. DESIGN/PROJECT SIG. AUTH. DISP.: <b>NA</b>	27. PMO SIG. AUTH. DISP.: <b>NA</b>	28. PROCUREMENT SIG. CONC. DISP.: <b>NA</b>	29. SIG. OF ORG. RESP. FOR C/A: <b>LAD: 634</b> <b>Action Items 491 &amp; 539</b>	
30. FAB/CONST. SIG. AUTH. DEP. DISP.: <b>LAD: 634</b> <b>Action Items 491 &amp; 539</b>	31. SIG. OF TEST GROUP ACTION. CONDITION: <b>NA</b>	32. FOR MAJOR MOD - PGT. SUPT. SIG. AUTH. DISP.: <b>NA</b>	33. QA AUTH. SIG. TO IMPLEMENT DISP.:	
34. METHOD OF PART CA VERIFICATION: 1. QC practices in Block 25 were observed to be functioning as indicated. Relevant documentation (Ref Block 29) was reviewed and determined to be satisfactory.				
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION: <b>LAD: 634, Action Items 491 &amp; 539</b>		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL DATE: <i>AL Howard 2/7/79</i>	37. NCR CLOSED BY/DATE: (LAST & PROCESS CA COMPLETE) <i>AL Howard 2/7/79</i>	



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# NONCONFORMANCE REPORT

## PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT  
M-01-4-8-093  
NCR SERIAL NUMBER:

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38. CA ASSESSMENT OF ROOT CAUSE(S):

Unknown, determine by 11-22-78.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

Responsible craft personnel did not repair/replace dust covers as required.

40. PROCESS CA REQUIRED FROM:

DESIGN

FABRICATION

CONSTRUCTION

PROCUREMENT

INSPECTION

OTHER \_\_\_\_\_

41. QA RECOMMENDATION FOR PROCESS CA:

Unknown, to be determined.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

1. QC has expanded their role to where construction is notified on a daily basis of open/damaged/missing dust covers. (Ref LAD: 634, Action Item 491, 539)
2. Bechtel construction management is providing increased emphasis on maintenance of dust covers. (Ref IOM Newgen to Lead Piping Engineers, dated 1-3-79)

43. METHOD OF PROCESS CA VERIFICATION:

1. Appropriate documentation reviewed and considered satisfactory. (Ref Block 29)
2. Affected spaces toured and determined to be in a better state, ie, greater number of dust covers effectively installed than was previously noted on 11-5-78.

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

See Block 29

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

*J. H. Brown* 1/7/79

NCR SERIAL NO: M-01-4-8-093  
DATE: 11-6-78  
DATE OF REV: Closed 2-7-79  
FILE NO: 16.3.4

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Contd from Page 1)

3. Conditions discussed in items 1 and 2 above violate the following procedures, standards/codes and technical specifications:

- a) Tech. Spec. M-204, para. 6.4.
- b) Tech. Spec. M-342, para. 4.5.
- c) ANSI N45.2.2, para. 6.4.
- d) Field Procedure FIP-4.100, para. 4.4.
- e) Field Procedure FPG-5.000, para. 7.1.1.

13. QA RECOMMENDATION FOR PART CA:

(Contd from Page 1)

3. Provide objective evidence that appropriate internal cleanliness has been verified and/or upgraded to the appropriate level for items contained in recommendation #1 above.



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# NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT

PAGE 1 of 2

6. PROJECT NAME: Midland		7. NONCONFORMING PART NO: Pipe - PC.MK.1FCB-35-5610-6-3 Valve Tag No.		8. NONCONFORMING PART NAME: Pipe & Valve Reactor Bldg. Spray Line		1. JOB SERIAL NO: M-03-3-8-112	
9. SERIAL NUMBER: PC.MK.1FCB-35-5610-6-3 and 410-5		10. DES. COMPANY NO: 410-5 Bechtel		11. AREA/LOC. OF NO: Area 3, Elev. 568, Rm. 25 Aux. Bldg.		2. DATE: 12-19-78	
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION ITEM REF: 10" pipe spool PC.MK.1FCB-35-5610-6-3 and valve 410-5 end caps are damaged and no longer provide the protection required in keeping foreign material from entering the interior of the pipe and the valve.  Technical Specification M-204, paragraph 6.4 states in part, during installation of piping and equipment, all openings for pipe connections, all access openings and all open ended pipes shall be covered with dust-proof covers whenever work is not actually in progress.						3. DATE OF REV: Closed 2-14-79	
						4. FILE NO: 16.4.4	
13. CA RECOMMENDATION FOR PART CA: 1. Clean foreign material from interior of pipe and valve. 2. Reseal open ends of pipe spool piece and valve.						5. DISTRIBUTION ACTION COPY: LADreisbach	
						INFO COPY: WLBarclay DBMiller WRBird WMoring TCCooke JFNewgen JLCorley RASimanek RHermeston DATaggart SHHowell VNAsgaonkar GSKeeley AWDePatie BWMarguglio PAMartinez JMilandin	
DESIGN/PROJECT ENG. DISPOSITION REQUIRED <input type="checkbox"/> NOT REQUIRED <input checked="" type="checkbox"/>							
HOLD TAGS APPLIED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: NA							
IS PROCESS CA REQUIRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, ENTER JUSTIFICATION BELOW:							
15. DOES NO AFFECT Q-LIST ITEM: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>				17. IS NO REPORTABLE PER 50.55(e): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
18. IS NO REPORTABLE PER PART 21: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				19. IF YES, DATE & TIME OF REPORT TO NRC: NA			
20. IF YES, WHO MADE REPORT TO NRC: NA				21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA			
22. NRC ORIGINATED BY: Harold T. Allen		23. WRITTEN REPLY REQUIRED BY: 1-10-79 TO ESTABLISH CA COMPLETION DATE		24. SUPERVISOR'S SIGNATURE/DATE: JRKentney 12-21-78			
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE: 1. Bechtel QC has instituted a program whereby all end caps observed to be missing or damaged are reported to construction supervision for action. Additionally, on 1-3-79 Bechtel Project Superintendent issued an IOM to all Lead Piping Engineers directing them to insure an awareness relative to the responsibilities for keeping end caps on piping and components in accordance with requirements. 2. Internal cleanliness of specific items has been verified by visual inspection.							
26. DESIGN/PROJECT SIG. AUTH. DESP.: NA		27. P&O SIG. AUTH. DESP.: NA		28. PROCUREMENT SIG. AUTH. DESP.: NA		29. SIG. OF CRD. RESP. FOR Q/A: LAD: 634 Action Items 491 & 539	
30. FAB/CONSTR. SIG. AUTH. DESP.: LAD: 634 Action Items 491 & 539		31. SIG. OF TEST GROUP AGENCY, CONDITION: NA		32. FOR MAJOR MOD - PLS. SUPP. SIG. AUTH. DESP.: NA		33. CA AUTH. SIG. TO IMPLEMENT DESP.:	
34. METHOD OF PART CA VERIFICATION: QC practices in Block 25 were observed to be functioning as indicated. Relevant documentation (Block 29) was reviewed and determined acceptable.							
35. SIG. OF NRC RESP. FOR PART CA IDENTIFYING COMPLETION: LAD: 634, Action Items 491 & 539			36. SIG. VERIFYING PART CA & HOLD TAG REMOVAL DATE: Harold T. Allen 2/14/79			37. JOB CLOSED BY/DATE: (PART & PROCESS CA COMPLETE) Harold T. Allen 2/14/79	





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# NONCONFORMANCE REPORT

## PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -

QUALITY ASSURANCE DEPARTMENT

M-03-3-8-112

OFFICE SERIAL NUMBER:

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38. QA ASSESSMENT OF ROOT CAUSE(S):

Frequency of inspection is inadequate relative to pipe covers.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

Construction supervision was not cognizant in their responsibilities relative to pipe caps.

40. PROCESS CA DERIVED FROM:

DESIGN

FABRICATION

CONSTRUCTION

PROCUREMENT

INSPECTION

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

Expand inspection schedule to insure end caps on pipe and valves are maintained and performing the intended function.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

- QC has expanded their role to where construction is notified on a daily basis of open/damaged or missing end caps.
- Bechtel construction management is providing increased emphasis on maintenance of dust covers. (Ref IOM Newgen to Lead Piping Engineers, dated 1-3-79)

43. METHOD OF PROCESS CA VERIFICATION:

- Appropriate documentation has been reviewed and considered acceptable.

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:

Harold L. Allen

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

Harold L. Allen 2/14/79



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# AUDIT FINDING REPORT

AS IS CONDITION VERSUS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCES:

1. Blocks 20, 21, 23, 24, and 25 of Standish Fabrication Shop Work Orders are not prepared as required by Attachment A to Procedure FIG-1.610. M-
2. Record Document Package FS-11-29 from the record vault contains nine (9) Shop Work Orders. Substantial number of the blocks discussed in item 1. above remain unsigned. This is in direct conflict with the references given in item 1. above.

AFR SER NO: 01-20-8-02  
 PROJ/DEPT AUDITED: Standish Fab. Shop  
 DATE OF ORIGINATION: 5-23-78  
 FILE NUMBER: 18.4.3.4, 18.4.3.6  
 DISTRIBUTION: GLRichardson  
 COPIES:  
 WLBarclay DBMiller  
 WRBird JFNewgen  
 TCCooke DATaggart  
 JLCorley  
 RHermeston  
 SHHowell  
 DRJohnson  
 GS Keeley  
 JMKlackling  
 BWMarguglio  
 PAMartinez  
 JMilandin

RECOMMENDED CORRECTIVE ACTION:

1. Revise procedure to conform to system presently in use.  
or
2. Implement procedure as required.

CORRECTIVE ACTION COMMITMENT:

Corrective Action Commitment will be determined by 7-13-78.  
 Standish Fabrication Shop work orders have been revised to eliminate blocks 20, 21, 23, 24 and 25.

DATE OF C/A COMPLETION: 2-7-79  
 DATE OF C/A EFFECTIVENESS: 2-7-79

ORG. RESP FOR C/A: Bechtel Const./QC	PERSON MAKING C/A COMMITMENT: GLRichardson
---	---

METHOD OF VERIFICATION:

Procedure FIG-1.610 reviewed to assure blocks 20, 21, 23, 24 and 25 performed on 2-7-79.  
*As have been eliminated.*

IS AF REPORTABLE PER 50.55(e): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	IF "YES", DATE OF REPORT TO NRC: NA
IF "YES", TIME OF REPORT TO NRC: NA	IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:
IF "YES", WHO MADE REPORT: NA	NA
AFR ORIGINATOR'S SIGNATURE: <i>F.L. Howell</i>	SUPERVISOR'S SIGNATURE: <i>[Signature]</i>
C/A VERIFICATION SIGNATURE: <i>F.L. Howell</i>	VERIFICATION DATE: 2-7-79



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PROJECTS, ENGINEERING AND CONSTRUCTION  
QUALITY ASSURANCE DEPARTMENT

# AUDIT FINDING REPORT

"AS IS" CONDITION VERSUS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCES:

1. Standish welder identification symbols are not outlined by present procedures. **M**
2. Performance specification WQ-1, paragraph 6.3, states in part, "Each welder's and/or welding operator's symbol shall identify the welder's craft, e.g., P-Pipefitters, B-Boilermakers, etc. and the welder's identification code in the craft, e.g., B-1, B-2, etc.".
3. In conflict with item #2 above, the Standish welders are using an alpha system vs. alpha numeric as required.

AFR SER NO:  
01-20-8-05

PROJ/DEPT AUDITED:  
Standish Fab. Shop

DATE OF ORIGINATION:  
5-23-78

FILE NUMBER:  
18.4.3.6

DISTRIBUTION:  
GLRichardson

COPIES:  
 WLBarclay DBMiller  
 WRBird JFNewgen  
 TCCooke DATaggart  
 JLCorley  
 RHermeton  
 SHHowell  
 DRJohnson  
 GSKealey  
 JMKlacking  
 BWMarguglio  
 PAMartinez  
 IMilandin

RECOMMENDED CORRECTIVE ACTION:

1. Revise procedures to define type and use of welder symbols in use at Standish Fab. Shop.
- or
2. Comply with procedures.

CORRECTIVE ACTION COMMITMENT:

Corrective Action Commitment will be determined by 6-27-78.  
Standish welders have been provided with alpha-numeric symbols.

DATE OF C/A COMPLETION: 2-7-79

DATE OF C/A EFFECTIVENESS: 2-7-79

ORG. RESP FOR C/A:

Bechtel Construction

PERSON MAKING C/A COMMITMENT:

GLRichardson

METHOD OF VERIFICATION:

Effectivity date of alpha-numeric symbols is 1-15-79. This was reviewed on 2-7-79 and determined to be satisfactory. (Ref ICM 0-2080)

IS AF REPORTABLE PER 50.55(e):

YES  NO

IF "YES", DATE OF REPORT TO NRC:

NA

IF "YES", TIME OF REPORT TO NRC:

NA

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT:

NA

NA

AFR ORIGINATOR'S SIGNATURE:

*FL Howell*

SUPERVISOR'S SIGNATURE:

*W Barclay*

C/A VERIFICATION SIGNATURE:

*FL Howell*

VERIFICATION DATE:

2-7-79



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PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT

# AUDIT FINDING REPORT

"AS IS" CONDITION VERSUS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCES:

Yard staging area North and West of Cont. #2 (directly North of the Buttress Access Shaft) Spool No. 1CCC-3-S-603-15-4 and 1HCB-20-S-612-5-9 and stock stainless pipe (Trentweld 4" + 10" ASME Sec. 3 Class 2) has Day Glow Red paint (similar to that used by surveyors) on the surface. Presently, there are two types of this paint available on site, Krylon "Glowing Red-Orange No. 3101" and spray products "Red Orange No. 490". This paint may contain halogens in one form or another. Thus, the quality is indeterminate. These conditions do not comply with Spec M-204 paragraph 4.1.3(d) which states, "Marking paint or ink applied to austenitic stainless steel material in the field shall be certified that the total halogen and sulfur content does not exceed 200 ppm".

Four hold tags applied.

AFR SER NO:

01-30-8-03

FROM/DEPT AUDITED:

Midland Pipe Storage

DATE OF ORIGINATION:

7-27-78

FILE NUMBER:

18.4.3.4, 18.4.3.6

DISTRIBUTION:

GLRichardson

COPIES:

WLBarclay DBMiller  
WRBird JFNewgen  
TCCooke DATaggart

JLCorley

RHermeston

SHHowell

DRJohnson

GSKeeley

JMKlacking

BWMarguglio

PAMartinez

JMilandin

RECOMMENDED CORRECTIVE ACTION:

1. Immediately remove the paint from the listed spools.
2. Provide assurance there is no deleterious effect to the spools.
3. Inspect for and correct where necessary all other stainless steel components in the staging areas with similar contamination.
4. Assure cognizant personnel are aware of required adherence to all specifications.

(Contd on Back)

CORRECTIVE ACTION COMMITMENT:

The paint was removed. Evaluation shows no deleterious effect. QC has completed the inspection. Only approved paint shall be ordered and QC personnel are instructed in on-going efforts. Suppliers will provide certification of acceptable halogen content. Survey crews are instructed to use only Krylon No 3101 and Spray Products No 490 has been removed from the field.

DATE OF C/A COMPLETION: 2-14-79

ORG. RESP FOR C/A:

Bechtel Const.

PERSON MAKING C/A COMMITMENT:

LADreisbach

DATE OF C/A EFFECTIVENESS: 2-14-79

METHOD OF VERIFICATION:

The following actions were accomplished by Bechtel/CPCo for C/A verification:

1. Paint was removed by Bechtel and verification of removal was accomplished by CPCo QA. Hold tags were removed by CPCo QA. See Bechtel Letter LAD-699.
2. Bechtel letter LAD: 518 attests there should be no deleterious affect.

(Contd on Back)

IS AF REPORTABLE PER 50.55(\*):

YES  NO

IF "YES", DATE OF REPORT TO NRC:

NA

IF "YES", TIME OF REPORT TO NRC:

NA

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

NA

IF "YES", WHO MADE REPORT:

NA

AFR ORIGINATOR'S SIGNATURE:

*Donald K. Martin*

SUPERVISOR'S SIGNATURE:

*[Signature]*

C/A VERIFICATION SIGNATURE:

*Donald K. Martin*

VERIFICATION DATE:

February 19, 1979



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# AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION  
QUALITY ASSURANCE DEPARTMENT

CONTINUATION SHEET:

"AS IS" CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED)

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

4. (Contd)  
procedures, directives, and other requirements germane to the area.
5. Obtain certification that the required level of halogens for reference paints are within specification requirements.
6. Cease using any paints which do not have the required certification or provide protection for adjacent stainless steel.

CORRECTIVE ACTION (CONTINUED):

METHOD OF VERIFICATION (CONTINUED):

3. Bechtel/QC completed inspection of the staging areas as stated in Bechtel QCFM-5238 paragraphs 2 and 3 dated 9/11/78.
4. Bechtel IOM 0-2029 was issued to appraise procurement personnel of restricted procurement action. Bechtel letter LAD: 593 addresses QC personnel training.
5. Bechtel letters LAD: 518 and LAD: 572 show compliance with halogen levels.
6. Bechtel letter LAD: 518 states the Spray Products Red Orange No 490 has been withdrawn from the field. CPCo QA has observed no Red Orange No 490 in use.

APR ORIGINATOR'S SIGNATURE:

*Donald K. Martin*

SUPERVISOR'S SIGNATURE:

*[Signature]*



Consumers  
Power  
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# AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT

AS IS" CONDITION VERSUS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCE(S)

Drawing E-42 (Q) sheet 18A Rev. 3 requires that cable trays be separated from the top of class 1E equipment so that the bottom of the tray is no lower than the top of a 3" + threaded nipple with an insulated bushing. This is considered an indeterminate finding because the referenced drawing is not clear as to exact separation requirements.

Contrary to the above cable tray, Section 1AJN01 is less than 1/2" from the top of MCC 1B43 and cable tray section 2ATA07 is less than 1/2" from the top of MCC 2B43.

APP. SER. NO.:  
M-01-44-8-01

PROJ./DEPT. AUDITED:  
Bechtel QC

DATE OF ORIGINATION:  
10-3-78

FILE NUMBER:  
18.4.3.6

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BWMarguglio  
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JMilandin

RECOMMENDED CORRECTIVE ACTION:

Recommend corrective action be taken to clarify drawing E-42 (Q) sheet 18A Rev. 3 and then comply with the requirements of the drawing.

CORRECTIVE ACTION COMMITMENT:

See Bechtel letter LAD: 552 Action Item 463 dated November 16, 1978 and Bechtel letter LAD: 685 Action Item 522 dated February 12, 1979.

DATE OF C/A COMPLETION:

ORG. RESP FOR C/A:

PERSON MAKING C/A COMMITMENT:

DATE OF C/A EFFECTIVENESS:

Bechtel Construction

METHOD OF VERIFICATION:

See Bechtel letter LAD: 552 Action Item 463 dated November 16, 1978 and Bechtel letter LAD: 685 Action Item 522 dated February 12, 1979.

IS AF REPORTABLE PER 50.35(\*):

YES  NO

IF "YES", DATE OF REPORT TO NRC:

NA

IF "YES", TIME OF REPORT TO NRC:

NA

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT:

NA

NA

AFR (SIGNER)'S SIGNATURE:

*Edgar H. Jones*

SUPERVISOR'S SIGNATURE:

*Paul R. Jones*

C/A VERIFICATION SIGNATURE:

*Edgar H. Jones*

VERIFICATION DATE:

16 Feb 79



Consumers  
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# AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT

AS IS" CONDITION VERSUS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCES:

Several 460 volt Motor Control Centers and Battery Charger Unit M2D17 have hardware broken or missing with no documented evidence of damage. The maintenance information F-10-95 for 460 volt MCC's, paragraph 2.2 requires that a visual inspection be made for any physical damage. Paragraph 2.2.2 of F-10-127 specifies same criteria for Battery Chargers.

APR SER NO:

01-46-8-01

PROJ/DEPT AUDITED:

Bechtel F.E. & Q.C.

DATE OF ORIGINATION:

11-1-78

FILE NUMBER:

18.4.3.6

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JMilandin

DBMiller

WMoring

JFNewgen

RECOMMENDED CORRECTIVE ACTION:

1. Inspect all electrical equipment to assure that there is no damage.
2. Contact the appropriate department to order new parts for MCC's and Battery Charger.
3. Take necessary corrective action to preclude repetition.

CORRECTIVE ACTION COMMITMENT:

1. Bechtel has reinspected the equipment for physical damage. The results were verified to be documented on F-20 forms 3291 and 3298; for F-10 forms F-10-95 and 127 respectively.
2. Bechtel reorganized both Field Engineering and Quality Control group responsible for electrical storage and maintenance.

DATE OF C/A COMPLETION:

ORG. RESP FOR C/A:

Bechtel QA

PERSON MAKING C/A COMMITMENT:

DATE OF C/A EFFECTIVENESS:

METHOD OF VERIFICATION:

The F-20 maintenance forms and Bechtel QA corrective action response letter (LAD: 599) were reviewed and found adequate.

IS AF REPORTABLE PER 50.55(e):

YES  NO

IF "YES", DATE OF REPORT TO NRC:

NA

IF "YES", TIME OF REPORT TO NRC:

NA

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

NA

IF "YES", WHO MADE REPORT:

NA

AFR ORIGINATOR'S SIGNATURE:

*W.H. Bechtel*

SUPERVISOR'S SIGNATURE:

*Paul Syner*

C/A VERIFICATION SIGNATURE:

*W.H. Bechtel*

VERIFICATION DATE:

12/14/79



Consumers  
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PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT

# AUDIT FINDING REPORT

"AS IS" CONDITION VERSUS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCES:

Maintenance information F-10-68 for 480 volt load control centers paragraph 2.2.3 requires that maintenance be performed and documented at intervals not to exceed 90 days. (The load centers heaters are tested by feeling for heat or by using ammeter.)

Contrary to the above, six months had lapsed before maintenance and inspection.

AFR SER NO:  
01-46-8-02

PROJ/DEPT AUDITED:  
Bechtel F.E. & Q.C.

DATE OF ORIGINATION:  
11-1-78

FILE NUMBER:  
18.4.3.6

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DBMiller  
WMoring  
JFNewgen

RECOMMENDED CORRECTIVE ACTION:

1. Evaluate and determine if there is any detrimental effect because of the frequency of inspections missed.
2. Take necessary corrective action to preclude repetition since this is a recurrence of past problems with 460 volt MCC's.

CORRECTIVE ACTION COMMITMENT:

Bechtel performed an inspection on 10-27-78 after the audit and found the load centers acceptable.  
Bechtel reorganized the Field Engineering and Quality Control group responsible for electrical maintenance.

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A:

Bechtel QA

PERSON MAKING C/A COMMITMENT:

METHOD OF VERIFICATION:

The F-20-3163 form was reviewed for adequacy.

IS AF REPORTABLE PER 90.55(e):

YES  NO

IF "YES", DATE OF REPORT TO NRC:

NA

IF "YES", TIME OF REPORT TO NRC:

NA

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT:

NA

NA

AFR ORIGINATOR'S SIGNATURE:

*W.H. Burkert*

SUPERVISOR'S SIGNATURE:

*Paul Kuper*

C/A VERIFICATION SIGNATURE:

*W.H. Burkert 11/15/79*

VERIFICATION DATE:

2-15-79





Consumers  
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PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT

# AUDIT FINDING REPORT

AS IS" CONDITION VERSUS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCES:

FPG-5.0, Rev. 3 Section 7.2.2 states in part, "The MMS (in conjunction with the QCE for Q-listed items) implements and documents the requirements of the F-10 form. The activity results are recorded by using a checklist in the lower left hand block. Comments are documented in the body of the form or on additional sheet when required. These comments are to include identification of each piece of material or equipment for which the requirements of the F-10 form specify documentation".

Contrary to this requirement, F-10 forms 133 and 92 for control panels and motor operated valves had no identification for each individual piece of equipment.

AFR SER NO:

01-46-8-03

PRG/DEPT AUDITED:

Bechtel F.E. & Q.C.

DATE OF ORIGINATION:

11-1-78

FILE NUMBER:

18.4.3.6

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RECOMMENDED CORRECTIVE ACTION:

1. Correct the F-10 forms by identifying the equipment numbers that have been inspected to comply with above requirement.
2. Take necessary corrective action to preclude recurrence.

CORRECTIVE ACTION COMMITMENT:

1. Bechtel has corrected the F-10 forms and has identified equipment inspected.
2. Bechtel reorganized the Field Engineering and Quality Control group responsible for electrical maintenance.

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A:

Bechtel QA

PERSON MAKING C/A COMMITMENT:

METHOD OF VERIFICATION:

1. Verified that the F-20 forms incorporated the equipment inspected and that the MOV's were identified by area.

IS AF REPORTABLE PER 20.55(e):

YES  NO

IF "YES", DATE OF REPORT TO NRC:

NA

IF "YES", TIME OF REPORT TO NRC:

NA

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT:

NA

NA

AFR ORIGINATOR'S SIGNATURE:

*William H. Biskert*

SUPERVISOR'S SIGNATURE:

*Paul Lauer*

C/A VERIFICATION SIGNATURE:

*William H. Biskert*

VERIFICATION DATE:

2/15/79



Consumers  
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PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT

# AUDIT FINDING REPORT

"AS IS" CONDITION VERSUS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCES:

ANSI 45.2, Section 6 "Instructions, Procedures and Drawings" states in part, "Activities affecting quality shall be prescribed by documented instructions, procedures or drawings, of a type appropriate to the circumstances and shall be accomplished in accordance with these instructions, procedures, or drawings".

1. Contrary to the above, inspections are being performed and documented on a form which has no instructions or procedures available for its use.
2. There is no written procedure detailing the manner in which finished work is indicated on record blueprints, additionally, there is no written procedure covering revisions to record blueprints.
3. There are no procedures to assure that welding filler materials are controlled as required by specification M-151A, Section 14.4.8.

APP. SER. NO:  
01-47-8-03

PROJ/DEPT. AUDITED:  
Zack Co.

DATE OF ORIGINATION:  
11-3-78

FILE NUMBER:  
18.4.3.4

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JLCorley	Zack Co.
RHermeston	
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GSKeeley	
BWMarguglio	
PAMartinez	
JMilandin	
DBMiller	
WMoring	

RECOMMENDED CORRECTIVE ACTION:

1. Provide procedures as necessary.

CORRECTIVE ACTION COMMITMENT:

1. In-process inspection reports which are not covered by procedures will be segregated to avoid being included with permanent documents.
2. Procedures will be written or modified to incorporate the deficiencies noted in Items 2 and 3.  
Commitment date of 12-8-78.

DATE OF C/A COMPLETION: 2-19-79

DATE OF C/A EFFECTIVENESS: 2-19-79

ORG. RESP FOR C/A:

Zack QC

PERSON MAKING C/A COMMITMENT:

Judson Bush

METHOD OF VERIFICATION:

1. Form in question was replaced by survey form #3 per QCP-19, Rev 2 dated 3-27-78. Inspector was using form as supplemental record in conjunction with survey form #3. Use of form in question has been discontinued.
2. Reviewed procedure MB QCP-7, Rev 2 dated 12-5-78 which contains instructions concerning record blue prints.
3. Reviewed procedure MB OCP-6, Rev 2 dated 12-4-78 which contains the instructions

IS AF REPORTABLE PER 30.55A(4): YES  NO

IF "YES", DATE OF REPORT TO NRC: NA concerning the control of weld filler material

IF "YES", TIME OF REPORT TO NRC: NA

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT: NA

NA

AFR ORIGINATOR'S SIGNATURE:

*R. O. Rafferty*

SUPERVISOR'S SIGNATURE:

*DK Keating*

C/A VERIFICATION SIGNATURE:

*R. O. Rafferty R. J. Stewick*

VERIFICATION DATE:

19 FEB 79



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# AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT

"AS IS" CONDITION VERSUS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCES:

FMR-SM-2991 does not clearly state that the item is "Q" or "non-Q" as required by FIG-8.100, paragraph 1. Additionally, PO No F-33244Q does not indicate the requirement for a QC inspection of the item prior to the item leaving the site and upon return to the site. This is not in accordance with FIG-8.100, paragraph 2. The shipping notice No 6148 dated December 21, 1978 does not reference the item to be "Q" in the required block. FIG-8.100, paragraph 3 specifically requires this notation.

AFR SER NO:

M-01-01-9-05

PROJ/DEPT AUDITED: Piping &

Mechanical Receipt Insp

DATE OF ORIGINATION:

2-5-79

FILE NUMBER:

18.4.3.6

DISTRIBUTION:

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DRJohnson	
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BWMarguglio	
PAMartinez	
JMilandin	
DBMiller	
WMoring	

RECOMMENDED CORRECTIVE ACTION:

1. Revise FMR-SM-2991 to comply with FIG-8.100, paragraph 1.
2. Revise PO No F-33244Q to comply with FIG-8.100, paragraph 2.
3. Revise shipping notice No 6148 to comply with FIG-8.100, paragraph 3.
4. Assure cognizant personnel are aware of and comply with FIG-8.100.
5. Conduct survey of PO records and correct discrepancies found not to comply with FIG-8.100 and document the results.

CORRECTIVE ACTION COMMITMENT:

Corrective action commitment will be determined by February 26, 1979; or recommended corrective actions, as listed, will be completed.

DATE OF C/A COMPLETION: 3-2-79

DATE OF C/A EFFECTIVENESS: 3-2-79

ORG. RESP FOR C/A:

Bechtel Const/QC

PERSON MAKING C/A COMMITMENT:

ESmith, Bechtel QAE

METHOD OF VERIFICATION:

1. The revised FMR-SM-2991 has been reviewed and is in the signature distribution process. A file copy of the revision was reviewed.
2. The revised PO F-33244Q has been reviewed.
3. The revised Shipping Notice No 6148 has been reviewed.

(Over)

IS AF REPORTABLE PER 90.55(a):

YES  NO

IF "YES", DATE OF REPORT TO NRC:

NA

IF "YES", TIME OF REPORT TO NRC:

NA

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT:

NA

NA

AFR ORIGINATOR'S SIGNATURE:

*Donald X. Martin*

SUPERVISOR'S SIGNATURE:

*[Signature]*

C/A VERIFICATION SIGNATURE:

*Donald X. Martin*

VERIFICATION DATE:

March 2, 1979



Consumers  
Power  
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# AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION  
QUALITY ASSURANCE DEPARTMENT

CONTINUATION SHEET:

"AS IS" CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED):

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

CORRECTIVE ACTION (CONTINUED):

## METHOD OF VERIFICATION (CONTINUED):

4. Personnel were interviewed for awareness of requirements in FIG-8.100. Bechtel QCFM 5781 documents training for QCE's.
5. A survey was conducted and five FMR's were found to be within the scope of FIG-8.100. Of the five FMR's, two (FMR-SM-2551 and 2995) have PO's not complying with paragraph 2 of FIG-8.100. The FMR's have been revised and file copies were reviewed. Originals are in signatory process.

AFR ORIGINATOR'S SIGNATURE:

SUPERVISOR'S SIGNATURE:



Consumers  
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PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT

# AUDIT FINDING REPORT

"AS IS" CONDITION VERSUS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCES:

J L Manta's QA Manual, Rev 7 Section 3.2.0 states, "Field Quality Assurance/Quality Control Inspector will verify the receipt of Manufacturer's Certifications for each lot of material received, and record on JLM Form 100".

Section 3.6.0 states, "Field Quality Assurance/Quality Control Inspector will verify material received in original sealed containers. Receiving inspection shall be documented on the Shipping and Receiving Record, JLM Form 200.

Contrary to the above on forms JLM-100, Report #14 dated 6/5/78 and form JLM-200, Report #24, dated 6/5/78 were verified by Keith Leighton who is a Foreman, and not verified by the QA/QC Inspector.

AFR SER NO:  
M-01-05-9-01

FROM/DEPT AUDITED:  
J L Manta

DATE OF ORIGINATION:  
Issued Closed 2-19-79

FILE NUMBER:  
18.4.7

DISTRIBUTION:  
WBarclay JFNewgen  
WRBird RASimanek  
TCCooke DATaggart  
JLCorley  
LADreisbach  
RHermeston  
SHHowell  
DRJohnson  
GSKeeley  
BWMarguglio  
PAMartinez  
JMilandin  
DBMiller  
WGMoring

RECOMMENDED CORRECTIVE ACTION:

Both forms should be reviewed and verified by the QA/QC Inspector and indicated with his signature and date.

CORRECTIVE ACTION COMMITMENT:

Correction was made by the QA/QC Inspector prior to completion of audit.

DATE OF C/A COMPLETION: 2-7-79

DATE OF C/A EFFECTIVENESS: 2-7-79

ORG. RESP FOR C/A:

J L Manta

PERSON MAKING C/A COMMITMENT:

NA

METHOD OF VERIFICATION:

Visual verification.

IS AF REPORTABLE PER 50.55(e):

YES  NO

IF "YES", DATE OF REPORT TO NRC: NA

IF "YES", TIME OF REPORT TO NRC: NA

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT: NA

NA

AFR ORIGINATOR'S SIGNATURE:

*RG Wollney*

SUPERVISOR'S SIGNATURE:

*[Signature]*

C/A VERIFICATION SIGNATURE:

*RG Wollney*

VERIFICATION DATE:

2/7/79



Consumers  
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# AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT

"AS IS" CONDITION VERSUS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCES:

J L Manta QA Manual, Rev 7, section 5.2.0 states, "Copies of applicable contract specifications and applications drawings will be maintained in the office of the Field Quality Assurance/Quality Control Inspector, and will be updated as required under the direction of the Quality Assurance Manager".

Contrary to the above, drawing A-29, Rev 4 dated 2-7-78 was in the "Controlled Drawing" file. Drawing A-29 Sheet 1, Rev 5 was issued 8-16-78 but had not been issued to J L Manta.

AFR SER NO:

M-01-05-9-02

PROJ/DEPT AUDITED:

J L Manta

DATE OF ORIGINATION:

Issued Closed 2-19-79

FILE NUMBER:

18.4.7

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JMilandin	
DBMiller	
WGMoring	

RECOMMENDED CORRECTIVE ACTION:

Replace the obsolete drawing with the latest revision.

CORRECTIVE ACTION COMMITMENT:

The drawing was replaced prior to issuance of this audit report.

DATE OF C/A COMPLETION: 2-19-79

DATE OF C/A EFFECTIVENESS: 2-19-79

ORG. RESP FOR C/A:

Bechtel

PERSON MAKING C/A COMMITMENT:

NA

METHOD OF VERIFICATION:

Visual verification.

IS AF RESPONSIBLE PER 50.93(e):

YES  NO

IF "YES", DATE OF REPORT TO NRC:

NA

IF "YES", TIME OF REPORT TO NRC:

NA

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT:

NA

NA

AFR ORIGINATOR'S SIGNATURE:

*R.G. Wolbrey*

SUPERVISOR'S SIGNATURE:

*J. Shurly*

C/A VERIFICATION SIGNATURE:

*R.G. Wolbrey*

VERIFICATION DATE:

2/19/79



Consumers  
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PROJECTS, ENGINEERING AND CONSTRUCTION  
QUALITY ASSURANCE DEPARTMENT

# AUDIT FINDING REPORT

"AS IS" CONDITION VERSUS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCES:

Procedure E12-52-1 was followed in assembling the battery racks per Bechtel QCIR. This procedure, however, is effective for racks of the C, E and F type batteries; Midland batteries are type GC. No procedure can be found that applies to the racks of this type cell; therefore, the assembly of these racks is indeterminate.

AFR SER NO:  
M-01-07-9-01

PROJ/DEPT AUDITED:  
Bechtel Construction

DATE OF ORIGINATION:  
2-20-79

FILE NUMBER:  
18.4.3.4

DISTRIBUTION:

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RHermeston	
SHHowell	
DRJohnson	
GSKeeley	
BWMarguglio	
PAMartinez	
JMilandin	
DBMiller	
WGMoring	

RECOMMENDED CORRECTIVE ACTION:

Determine if the present assembly meets the requirement of the applicable procedure.

CORRECTIVE ACTION COMMITMENT:

DATE OF C/A COMPLETION:

ORG. RESP FOR C/A:

PERSON MAKING C/A COMMITMENT:

DATE OF C/A EFFECTIVENESS:

METHOD OF VERIFICATION:

IS AF REPORTABLE PER 50.55(e): YES  NO

IF "YES", DATE OF REPORT TO NRC: NA

IF "YES", TIME OF REPORT TO NRC: NA

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT: NA

AFR ORIGINATOR'S SIGNATURE: *H. Stott*

SUPERVISOR'S SIGNATURE: *[Signature]* NA  
2-22-79

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:



Consumers  
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Company

# AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT

AS IS" CONDITION VERSUS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCES:

Instructions for installing and operating "G" type Exide stationary batteries, Procedure 7220-E12-53-1, Section 9, paragraph 1, in conjunction with exploded view Figure 13 showing typical bolted connection of intercell connectors describes how these connections should be assembled. As shown in Figure 13 and stated in paragraph 1, the split lockwasher should be next to the bolt head.

Contrary to this, bussing installed by the vendor prior to shipment has identical bolted connections made up with the split lockwasher next to the nut.

AFR SER TO:

M-01-07-9-02

PROJ/DEPT AUDITED:

Bechtel Construction

DATE OF ORIGINATION:

2-20-79

FILE NUMBER:

18.4.3.4

DISTRIBUTION:

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PAMartinez	
JMilandin	
DBMiller	
WGMoring	

RECOMMENDED CORRECTIVE ACTION:

Evaluate and determine which method of installation is correct; generate corrective action to preclude repetition.

CORRECTIVE ACTION COMMITMENT:

DATE OF C/A COMPLETION:

ORG. RESP FOR C/A:

PERSON MAKING C/A COMMITMENT:

DATE OF C/A EFFECTIVENESS:

METHOD OF VERIFICATION:

IS AF REPORTABLE PER 50.55(\*):

YES  NO

IF "YES", DATE OF REPORT TO NRC:

NA

IF "YES", TIME OF REPORT TO NRC:

NA

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

NA

IF "YES", WHO MADE REPORT:

NA

AFR ORIGINATOR'S SIGNATURE:

*W. Holt*

SUPERVISOR'S SIGNATURE:

*J. Corley* 2/23/79  
*W. Moring* 2-22-79

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:





Consumers  
Power  
Company

PROJECTS, ENGINEERING AND CONSTRUCTION -  
QUALITY ASSURANCE DEPARTMENT

# AUDIT FINDING REPORT

AS IS" CONDITION VERSUS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCES:

FSAR Volume 16, Section 9.4-5, Rev 8 requires that the Battery Rooms be provided with a hydrogen monitoring system to alarm on a local control panel and in the Control Room upon reaching a hydrogen concentration of three volume percent.

Contrary to the above, there is no hydrogen monitoring system installed and no provisions were found for installation of such a system.

AFF SER NO:

M-01-07-9-03

PROJ/DEPT AUDITED:

Bechtel Construction

DATE OF ORIGINATION:

2-20-79

FILE NUMBER:

18.4.3.4

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RHermeston	
SHHowell	
DKJohnson	
GSKeeley	
BWMarguglio	
PAMartinez	
JMilandin	
DBMiller	
WGMoring	

RECOMMENDED CORRECTIVE ACTION:

Install a hydrogen monitoring system as required by FSAR.

CORRECTIVE ACTION COMMITMENT:

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A:

PERSON MAKING C/A COMMITMENT:

METHOD OF VERIFICATION:

IS AF REPORTABLE PER 50.55(\*):

YES  NO

IF "YES", DATE OF REPORT TO NRC: NA

IF "YES", TIME OF REPORT TO NRC:

NA

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT:

NA

AFF ORIGINATOR'S SIGNATURE:

*W. Nott*

SUPERVISOR'S SIGNATURE:

*[Signature]* NA  
2-22-79

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE: