



Consumers
Power
Company

James W Cook

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February 23, 1981

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



MIDLAND PROJECT -
ALAB-106 MONTHLY REPORT FOR JANUARY 1981
DOCKET NOS 50-329 AND 50-330
FILE: 0.4.6 UFI: 70*01 SERIAL: 11196

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

James W. Cook

WRB/lr

CC: JGKeppler, USNRC Region III (w/enc)
RJCook, NRC Resident Inspector - Midland Site (w/enc)

810306 0479

OPEN LOG OF NONCONFORMANCE REPORTS

LOG OF NONCONFORMANCE REPORTS



PROJECT NAME

Midland

JOB NO.

07220

PAGE

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2 NRC NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
3239	12-24-80	Contrary to Spec C-233 the vendor did not submit welding procedures			
3240	12-24-80	F-47790 1½" H.H. Nuts & H.H. Jam nuts were received with no markings for traceable heat numbers or heat code.	Reject		
3241	12-24-80	P.O. M-18AC Engine No. 2833 has a rear main thrust bearing clearance measurement of .063" contrary to the .030" allowed.			
3242	12-24-80	C-305 Expansion Anchors on the following hangers exceed maximum depth 1EBC-4-4-H1-1ECB-8-2-H6-1ECB-1ECB-3-3-H3	Rework		
3243	12-29-80	C2-146 Rev 58 One tendon wire of Tendon H32-07 was cut with a saw blade approx. 2" from the end of the existing buttonhead.	Reject		
3244	01-06-81	Dwg. E-42B A Type 25 conduit support for 2BVA020 has 7" from unistrut centerline to a support for HVAC ductwork.			
3245	01-07-81	Spec 304 Dwg. H80-297 Sh. 14 Beam #MK 1401 was fabricated in the Combo Shop with cross flange welding with no prior Proj. Eng. approval			
3246	01-08-81	Spec 7220-G9 motor operated valves have less volts than required by spec.			
3247	01-12-81	Dwg. 618 Sh 2 Spool OHBC-59-S618-1-4 has damage to bottom area of pipe damage area is indentation approx. 3" in diameter			
3248	01-12-81	P. O. F-3183 Rel 3 Material received on AEO 14014 & 14269 were fabricated to the wrong ASTM Specification.			
3249	01-12-81	M-18 Documentation identification for Emergency Diesel Generator Aux skid parts reads differnt from actual tag on material.	Rework (Doc)	01-26-81	R. MacGlashan
3250	01-12-81	F-48674 Contrary to Spec 305 no verification documentation has been received on AEO-14205 from the vendor			
3251	01-12-81	F-47848 Contray to Spec 305 No quality verification documentation has been received on AEO 14184 from the vendor	Doc Rework		
3252	01-12-81	Dwg. FSK-M-1HCB-80-1 Contrary to Spec M-204 ½" globe valve missing N stamp tag	Rework		
3253	01-14-81	Spec. C-208 & C-230 Flyash informity requirements exceed maximum variation.			
3254	01-14-81	Spec. M-204, Pipe Spool 1HCC-35-603-15-5 location makes contact with corrugated deck grating contrary to Spec. requirement.	Rework	01-26-81	C. Fugate
3255	01-14-81	Spec. C-305. 2 rebar cut exceeding minimum radial distance required.			
3256	01-14-81	Dwg. J-275-2-3&4, Panels 1 & 2C46, 1 & 2C47 installed contrary to requirements, no installation manuals furnished as per Spec. J-275.			
3257	01-14-81	F-19328 AEO-4144, Bolts are indeterminate due to CMTR referencing elongation being contrary to requirement.			

LOG OF NONCONFORMANCE REPORTS

PROJECT NAME ¹ MidlandJOB NO ¹ 07220PAGE ⁸ 191

² NCR NO	³ DATE	⁴ NONCONFORMANCE DESCRIPTION / REMARKS	⁵ DISPO.	⁶ DATE NCR CLOSED	⁷ CLOSED BY
3258	01-14-81	E-630 Sh.2, 2 type 14 conduit supports installed with cross flange welding contrary to E-42.			
3259	01-15-81	C2-146, Tendon H13-045 was supplied with only 168 wires contrary to INRYCO's system for Post-Tensioning.			
3260	01-15-81	Dwg. C-233 A-F3103-198, Spec. C-304, Cross flange welding to beam 16B1 performed without prior Project Engineer's approval.			
3261	01-15-81	Spec C-304, Cross flange welding to access platform structural steel, performed without prior approval of Project Engineer.			
3262	01-16-81	M-614-8 8" HCC-GT-L (414-009), The nuclear identification tag is missing from the valve.	Rework		
3263	01-20-81	F-49256, Hex bolts, nuts and washers; certificate of compliance does not state Type 3 required by ASTM-A325. Mat. not marked by type.	Doc Re-		
3264	01-21-81	1 1/2" diameter anchor bolts for hanger 604-5-21 can't be traced to any specific ASTM/Grade.	work/Reject		
3265	01-21-81	E-7, Motor Control Centers-double entry units are being used single entry where they are back to back or against a wall with no rear entry.			
3266	01-23-81	Stock ASME NF Steel procured from sub-vendors who were not ASME or Bechtel approved. (Several P.O.'s - see NCR)			
3267	01-26-81	E-697 Sh.1, Electrical Supports welded using Procedure P1-A-LH with E-8018 electrode; Spec. C-304 requires E-7018 and E-7016.			
3268	01-26-81	E-643, Conduits 2BH048, 2BH049, 2BH050 & 2BH051 have bends which exceeds the 4 + 90° maximum requirements.			
3269	01-26-81	M-3, Fuel Pool Cooling Heat Exchange #OE-76A was found to have an arc burn located on the upper west end.			
3270	01-27-81	Attachments welds welded to Line OHCC-15-S-614-8-2 installed with full penetration welds, flattening of the pipe; contrary to M204 requir.			
3271	01-28-81	Included angles of the 4 connectors between the P1001 strut/flat surface of the steel is less than 60° contrary to Specs C-304&G-27.			
3272	01-29-81	During pullback of WR #801 consisting of 22 cables, the maximum allowable cable tension was exceeded. Dwg. E-37			
3273	01-30-81	C-306 states the minimum radial distance between two cut bars be at least ten feet; contrary to this cut bar allowances exceeded.			
3274	01-30-81	C-2 States wires with defects greater than 0.005" deep shall be defecte, Tendon H21-015 2 wires sheared off & 1 wire gouged 0.007"			

OPEN NCRs



FE, J. ARMANDO 1-5-81/NONCONFORMANCE REPORT

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3244		20. PAGE 1 OF 2	
2. UNIT(S) CONT 2		3. DRAWING/PART NO. 7220-E42B		4. ITEM DESCRIPTION CONDUIT SUPPORT ON LINER PL		5. ITEM LOCATION AZ 270°, 67°	
6. P.O. OR SPEC NO. N/A		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N 4111 REV		9. SOURCE CONSTRUCTION	
11. INSPECTION CRITERIA DWG () SPEC () OTHER		IR NO. 28VA020 NO. E42B REV 0		12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO		14. Discovered During () Rec'g () Const () Test	
16. NONCONFORMING CONDITION REQUIREMENT: DWG 7220 E42B, REV Q, SH 342 FOR TYPE 25 CONDUIT SUPPORTS ON 1/4" LINER PLATE NOTES THAT NO OTHER SUPPORT SHALL BE ATTACHED TO THE LINER PLATE WITHIN 12" OF THE UNISTRUT CENTER- LINE.		13. SKETCH ATTACHED () YES () NO		15. Equip. Furnished By () Client () Eng () FLD		24. DISPOSITION CONCURRENCE	
17. REPORTED BY J. Armando		DATE 1-5-81		18. VALIDATED BY J. Armando		DATE 1/4/81	
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. OC ACCEPTANCE		OC ENGINEER		AUTHORIZED INSPECTOR		DATE	

BLOCK 16 CONTINUED,

CONDITION: CONTRARY TO THE ABOVE, A TYPE 25
CONDUIT SUPPORT FOR ZBVA020, LOCATED IN CONT. #2,
AZ 270°, ELEV 679', HAS 7" FROM UNISTRUT CENTERLINE
TO A SUPPORT FOR HVAC DUCTWORK.

HOLD FOR ENGINEERING DISPOSITION.
ONE QC HOLD TAG APPLIED
@ LIST # 1.109.



alab

NONCONFORMANCE REPORT

Non-testable

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3245	20. PAGE 1 OF 1
2. UNIT(S) COMM	3. DRAWING/PART NO. F7220-F46757-8-1 SHEET	REV 0	4. ITEM DESCRIPTION Cross Flange Welding STRUCT BEAM NO MK-1401	5. ITEM LOCATION HUX BULD. ROOF ELEV 7'-4"	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE ENGINEERING	10. CONTRACTOR/SUPPLIER BECHTEL	
11. INSPECTION CRITERIA 1) DWG ☒ SPEC ☐ OTHER		IR NO. 1731 NO. C-205	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 ☐ IFLD			16. NONCONFORMING CONDITION: SECTION 6.2.6 SPECIFICATION C-304 STATES THAT NO WELDING ACROSS THE FLANGE OF THE BEAM SHALL BE DONE WITHOUT THE PRIOR APPROVAL OF PROJECT ENGINEERING. CONTRARY TO THE ABOVE BEAM NO MK 1401 ON DRAWING H80-997 SHEET 14 HAS BEEN FABRICATED IN COMDO SHOP WITH CROSS FLANGE WELDING. Q LIST II 1.201 1 WELD TAG APPLIED		
17. REPORTED BY Donald Van Scoorne		DATE 1/17/81	18. VALIDATED BY Sg E. Smith		DATE 1-7-81
21. ROUTING: ☒ TO FIELD ENGINEERING ☐ TO OTHERS (SPECIFY)					
22. ☐ Field Engineering Disposition ☐ Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE					
QC ENGINEER				DATE	
AUTHORIZED INSPECTOR				DATE	

SU¹¹ INDETERMINATE

NONCONFORMANCE REPORT

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 3246	20. PAGE 1 of 2		
2. UNIT(S) 1 & 2	3. DRAWING/PART NO. 7220-G9	REV	4. ITEM DESCRIPTION Terminal Strips in M.O.V.S	5. ITEM LOCATION Various			
6. P.O. OR SPEC NO. See Item 16	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 Limatorque		
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. N/A NO. 6-9	12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec'g (X) Const () Test	15. Equip Furnished By () Client (X) Eng () FLD	
16. NONCONFORMING CONDITION: Motor operated valves listed below have terminal strips rated less than 600 volts. Limatorque operators size .000, 00, 0, 1 & 2 have Marathon terminal blocks series 100, 200 & 300. These blocks are rated at 300 volts & less. Motors are rated at 480 volts. 7220-G9 Rev. 7 spec. requires all field cable to be terminated on a terminal block.				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. Clayton		DATE 1/8/81		18. VALIDATED BY E. Smith		DATE 1-8-81	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)						25. DISPOSITION RESULTS	
22. () Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering							
Terminate 480V AC field cables to vendor motor leads using YAV6-L1 and YAV 14 Burndy ring tongue lugs. Make connection by bolting lugs together and use WCSF-N Raychem shrink tube to insulate.							
23. PROJECT ENGINEERING DISPOSITION							
						26. QC ACCEPTANCE	
						QC ENGINEER	DATE
						AUTHORIZED INSPECTOR	DATE



NONCONFORMANCE REPORT (CONT'D)

20 PAGE 2 OF 2

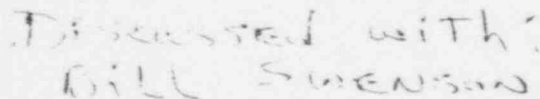
19 NCR NO 3246

Block 16 Cont.

Affected Valves

Valve #	P.O.	Operator	Scheme
1M00328	M-123B	00	1AB2341
1M00329	"	00	1BB2441
1M00330A	"	00	1AB5514
1M00341C	"	0	1BB5606
1M00341D	"	0	1BB5612
1M01010	M-125C	0	1BB2438
1M01013A	J-258	000	1BB5623
1M01207A	M-125A	0	1AB2329
1M01210B	M-125C	2	1BB2431
1M01620B	M-132	000	1BB2435
1M01623B	"	000	1BB2436
1M01903	"	00	1AB5509
1M01907	"	00	1BB5609
2M00428	M-123B	00	2AB2341
2M01307A	M-125A	00	2AB2329
2M03970A	M-117	0	2AB5526
1M01620A	M-132	000	1AB2335
2M01720B	M-123B	000	2BB2435
2M00430A	"	00	2AB5514

19 HOLD TAGS APPLIED, Q LIST VARIOUS



5/6 DEAF

1. PROJECT NAME Midland			JOB NO. 7220			19. NO. 3247		20. PAGE 1 OF 2				
2. UNIT(S) I+2		3. DRAWING/PART NO. M 618A-I		REV 11/83		4. ITEM DESCRIPTION MR-21-160x Spool OHBC-59-S618-1-4		5. ITEM LOCATION Service Water Bld				
6. P.O. OR SPEC NO. M204		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE N/A		10. CONTRACTOR/SUPPLIER N/A				
11. INSPECTION CRITERIA () DWG (x) SPEC () OTHER			IR NO. 8110-8 NO. 16916		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: Requirement: QCI R 8110 item 3.2 states "Inspect the completed pipe, fitting, or sub-assembly installation to verify that the material is free from visible damage." Condition: Spool OHBC-59-S618-1-4 has damage to bottom area of pipe. Damaged area is indentation approx 3" in dia. (1) One Hold Tag Applied, Q-List 4185						24. DISPOSITION CONCURRENCE						
17. REPORTED BY Dix Hanson						DATE 1-9-81						
18. VALIDATED BY E. Smith						DATE 1-12-81						
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)												
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering												
23. PROJECT ENGINEERING DISPOSITION												
26. QC ACCEPTANCE												
QC ENGINEER												
AUTHORIZED INSPECTOR												



CALCULATION SHEET

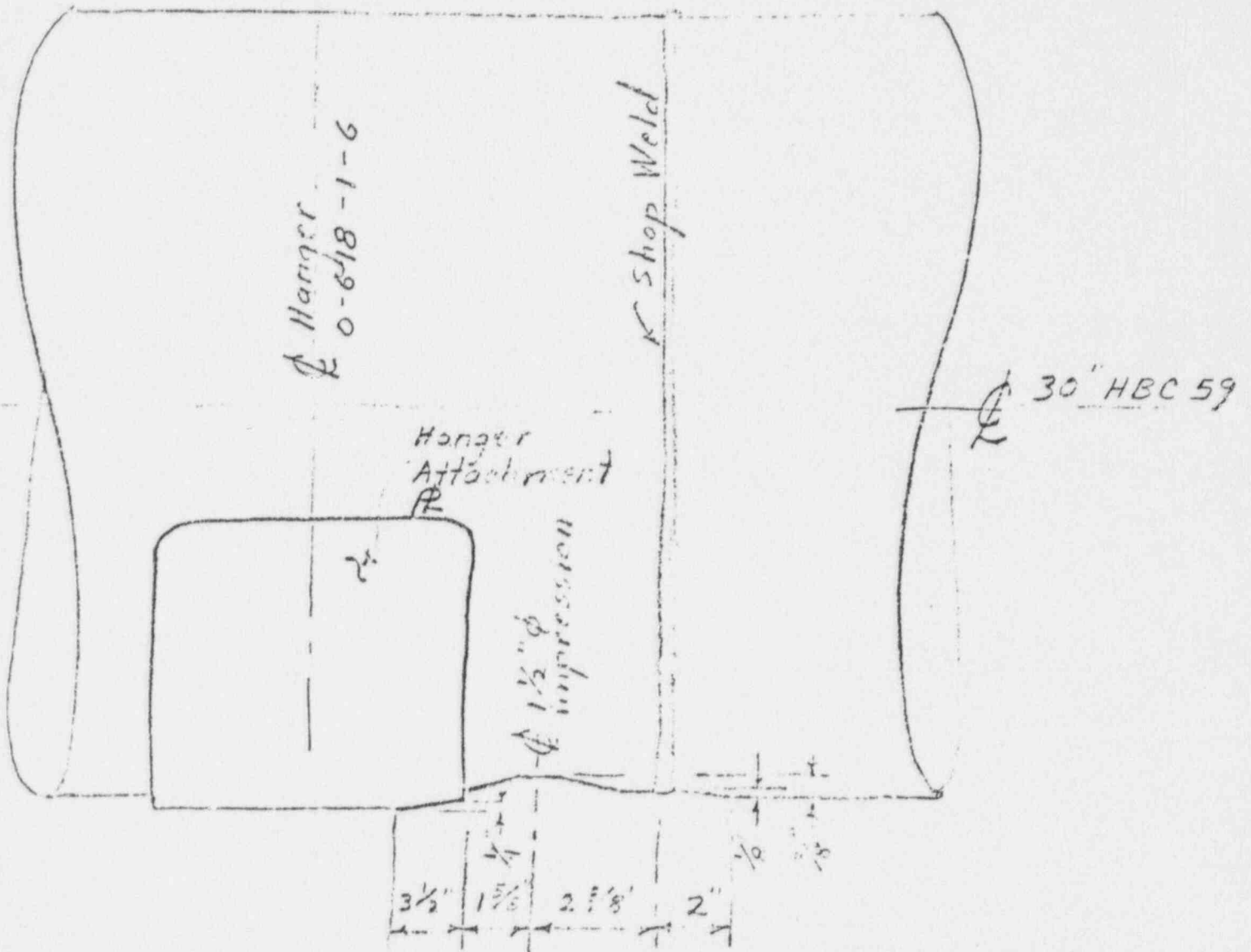
CALC. NO. _____ REV. NO. _____

ORIGINATOR _____ DATE _____

PROJECT _____ JOB NO. _____

SUBJECT _____ SHEET NO. _____

Page 2 of 2



LOOKING EAST AT 30" HBC 59

NOR _____
Pg 2 of 2



CHUCK LOITZENHIER

NONCONFORMANCE REPORT

S/U CODE INDETERMINATE.

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3248	20. PAGE 1 OF 2
2. UNIT(S) INDETERMINATE	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION 100 ENCH 30" P254 S STRUT BRACKET 50 ENCH 24" P254 S STRUT BRACKET & SCEN. 36" P254 S STRUT BRACKET	5. ITEM LOCATION WAREHOUSE #1	
6. P.O. OR SPEC NO. 7220 F-3133 REL 3	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N _____ REV. 1/1 SER NO. _____		9. SOURCE SUPPLIER	10. CONTRACTOR/SUPPLIER UNISTRUT
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. 14014 & 14269 NO. E-52 REV. 1	12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO	13. SKETCH ATTACHED () YES () NO	14. Discovered During () Rec'd () Const () Test
15. Equip Furnished By () Client () Eng () FLD				15. Equip Furnished By () Client () Eng () FLD	
16. NONCONFORMING CONDITION: SPECIFICATION E-52 REV. 1 PARA 5-0 SUB-PARA 5-1.1					
STATES THAT THE CHANNELS SHALL BE FABRICATED FROM STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A-570-78 GR.C. PARA 5-1.3 STATES THAT THE CHANNELS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A-153-78.					
CONTRARY TO THIS THE CERTIFICATE OF COMPLIANCE SUBMITTED BY THE VENDOR FOR THE MATERIAL RECEIVED ON AEO'S 14014 & 14269 STATES THAT					
17. REPORTED BY Khanchwal		DATE 1/9/81	18. VALIDATED BY E. Smith		DATE 1-12-81
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
24. DISPOSITION CONCURRENCE					
rework reject repair use as is					
PROJECT FIELD ENGINEER DATE					
PROJECT ENGINEER DATE					
PROJ CONSTR QC ENGINEER DATE					
AUTHORIZED INSPECTOR DATE					
25. DISPOSITION RESULTS					
26. QC ACCEPTANCE					
QC ENGINEER DATE					
AUTHORIZED INSPECTOR DATE					



THE MATERIAL WAS FABRICATED FROM STEEL CONFORMING TO ASTM SPECIFICATION A-446 GR. A AND COATING DESIGNATION G-90 OF ASTM SPECIFICATION A-525.

LEAVING THE STATUS OF THE MATERIAL INDETERMINATE.

HOLD FOR ENGINEERING DISPOSITION. 'Q' NUMBER IS INDETERMINATE.

THREE (3) HOLD TAGS APPLIED TO THE NON CONFORMING MATERIAL.



NONCONFORMANCE REPORT

S/O CODE - 1 FEB FOR 2M-103B - IN DETERMINATE (PIPE SPOOL)

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3249		20. PAGE 1 OF 2					
2. UNIT(S) 1 #2	3. DRAWING/PART NO. N/A	REV	4. ITEM DESCRIPTION EMERGENCY DIESEL GENERATOR BOX SKID PARTS AS LISTED IN BLOCK 16		5. ITEM LOCATION WHSE #1						
6. P.O. OR SPEC NO. M-18-R-REV 13	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N REV SER NO. N/A		9. SOURCE SUPPLIER	10. CONTRACTOR/SUPPLIER TRANSAMERICA DELAVAL						
11. INSPECTION CRITERIA () DWG () SPEC (X) OTHER		IR NO. R-100-19207 NO. RGL-7220-R400		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: QCI-7220-R400 REV 10 PARA 2.2.6 STATES IN PART: REVIEW SUPPLIER'S QUALITY VERIFICATION DOCUMENTATION REQUIRED BY THE PROCUREMENT DOCUMENTS FOR AVAILABILITY, LEGIBILITY, TRACE- ABILITY AND SHOP INSPECTOR'S SIGNATURE. CONTRARY TO THE ABOVE, THE DOCUMENTATION FOR THE IMMERSION HEATER, L.O. SUMP TANK, READS: SERIAL # N55 TAG # 2M-103A. THE MATERIAL IS TAGGED N55 2M-103B. ALSO DOCUMENTATION FOR PIPE SPOOL PART # 02-965-21-AV						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 G. J. [Signature]		DATE 1/12/81		18. VALIDATED BY [Signature]		DATE 1-12-81		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'S DISPOSITION											
26. QC ACCEPTANCE QC ENGINEER DATE AUTHORIZED INSPECTOR DATE											



NONCONFORMANCE REPORT (CONT'D)

20 PAGE 7 OF 2

19 NCR NO 3249

(BLOCK 16 CONTINUED)

READS #BI-002-000 LEAVING THE STATUS OF THE MATERIAL INDETERMINATE.
Q NUMBERS ARE 4.521, 4.522. HOLD PENDING ENGINEERING DISPOSITION.
2 HOLD TAGS APPLIED TO THE NONCONFORMING ITEMS.



FIRA SIMANOVSKY

NONCONFORMANCE REPORT

Culab
S/U CODE INDETERMINATE

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3250	20. PAGE 1 OF 1																				
2. UNIT(S) INDETERMINATE	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION SEACH 3"x2" CONCENTRIC REDUCERS	5. ITEM LOCATION WAREHOUSE #1																					
6. P.O. OR SPEC NO. T220 F-48674	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N REV N/A	SER NO.	9. SOURCE SUPPLIER	10. CONTRACTOR/SUPPLIER GUYON ALLOYS																				
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. R1-00-14205 NO. M-305 Rev. 5	12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO	13. SKETCH ATTACHED () YES () NO	14. Discovered During () Rec'g () Const () Test																				
15. Equip Furnished By () Client () Eng () FLD																									
16. NONCONFORMING CONDITION: SPECIFICATION M-305 REV. 5 REQUIRES QUALITY VERIFICATION DOCUMENTATION PACKAGE TO ACCOMPANY WITH EACH SHIPMENT. CONTRARY TO THE ABOVE A QUALITY VERIFICATION DOCUMENTATION PACKAGE HAS NOT BEEN SUBMITTED BY THE VENDOR FOR THE ABOVE REFERENCED MATERIAL RECEIVED ON AEO-14205. LEAVING THE STATUS OF THE MATERIAL INDETERMINATE. HOLD FOR ENGINEERING DISPOSITION. 'Q' NUMBER IS INDETERMINATE. ONE (1) HOLD TAG APPLIED TO THE NON-CONFORMING MATERIAL.				24. DISPOSITION CONCURRENCE																					
				<table border="1"> <tr> <td>rework</td> <td>reject</td> <td>repair</td> <td>use as is</td> </tr> <tr> <td colspan="2">PROJECT FIELD ENGINEER</td> <td colspan="2">DATE</td> </tr> <tr> <td colspan="2">PROJECT ENGINEER</td> <td colspan="2">DATE</td> </tr> <tr> <td colspan="2">PROJ CONSTR QC ENGINEER</td> <td colspan="2">DATE</td> </tr> <tr> <td colspan="2">AUTHORIZED INSPECTOR</td> <td colspan="2">DATE</td> </tr> </table>		rework	reject	repair	use as is	PROJECT FIELD ENGINEER		DATE		PROJECT ENGINEER		DATE		PROJ CONSTR QC ENGINEER		DATE		AUTHORIZED INSPECTOR		DATE	
rework	reject	repair	use as is																						
PROJECT FIELD ENGINEER		DATE																							
PROJECT ENGINEER		DATE																							
PROJ CONSTR QC ENGINEER		DATE																							
AUTHORIZED INSPECTOR		DATE																							
17. REPORTED BY J. Kanichwala		DATE 1/9/81		18. VALIDATED BY ADD E. Smith																					
				DATE 1-12-81																					
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)																									
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering																									
23. PROJECT ENGINEERING DISPOSITION																									
26. QC ACCEPTANCE																									
QC ENGINEER				DATE																					
AUTHORIZED INSPECTOR				DATE																					

0

AUTHORIZED INSPECTOR _____		DATE _____
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NONCONFORMANCE REPORT

S/4# 197C

1. PROJECT NAME Midland		JOB NO. 07220		19. NO. 3252	20. PAGE OF 2
2. UNIT(S) 1	3. DRAWING/PART NO. Fsk-M-14K3-80-1	REV 2	4. ITEM DESCRIPTION Globe Valve missing N stamp tag	5. ITEM LOCATION Axx Bldg Unit 1	
6. P.O. OR SPEC NO. M129A	7. SERIAL NO. JAA 8-14	8. REPLACEMENT PART PIN N/A	9. SOURCE Construction	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER	IR NO. P130-1	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: Requirement: Spec M201 rev 14 para. 4.1.3 states, "Materials shall be marked with the information required by the applicable ASME material specification and the Nuclear Power Plant Components Code, paragraph NB-2151." (condition: Referenced 1/2" valve does not have N stamp date tag. Note: The valve is included in a subassembly fabricated in the Combo Shop (see p 2 for contin)			15. Equip Furnished By () Client () Eng (X) FLD		
17. REPORTED BY R. Conrad			24. DISPOSITION CONCURRENCE rework reject repair use as is		
DATE 1/9/81			PROJECT FIELD ENGINEER DATE		
18. VALIDATED BY E. Smith			PROJECT ENGINEER DATE		
19. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)			PROJ CONSTR QC ENGINEER DATE		
20. () Field Engineering Recommended Disposition to Project Engineering			AUTHORIZED INSPECTOR DATE		
21. PROJECT ENGINEERING DISPOSITION			25. DISPOSITION RESULTS		
22. () Field Engineering Recommended Disposition to Project Engineering			26. QC ACCEPTANCE QC ENGINEER DATE		
23. PROJECT ENGINEERING DISPOSITION			AUTHORIZED INSPECTOR DATE		



Block #116 continued

(see P120-1, upstream side, SW 3 only made) but is not yet installed in the piping system.

Qlist 4.215

One (1) Hold Tag Applied



CONTACTED : J. KELLEHER (F.E.)

NONCONFORMANCE REPORT

S/U : New Test Area

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3253		20. PAGE 1 OF 5	
2. UNIT(S) I & II		3. DRAWING/PART NO. N/A		5. ITEM LOCATION BATCH PLANT			
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 SUBCONTRACTOR ALLIED CONCRETE PRODUCTS	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		12. ASME AUTHORIZED INSPECTION REQUIRED () YES (X) NO		13. SKETCH ATTACHED () YES (X) NO		14. DISCOVERED DURING () Rec'g () Const (X) Test	
16. NONCONFORMING CONDITION: TABLE 1 OF PROJECT SPECIFICATION C-208							
REF. 20 STATES THAT POZZOLANS SHALL BE TESTED EVERY 200 TONS PER ASTM C-618-72 & ASTM C-311-68. SECTION 7.4.1 OF PROJECT SPECIFICATION C-230							
REV. 18 STATES IN PART THAT POZZOLANS SHALL CONFORM TO ASTM C-618-72. ASTM C-618-72							
TABLE 2 STATES IN PART THAT THE UNIFORMITY							
17. REPORTED BY B. DeLeonard		DATE 1-13-81		18. VALIDATED BY J. Kelleher		DATE 1-14-81	
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. OC ACCEPTANCE							
OC ENGINEER'S							
AUTHORIZED INSPECTOR							
DATE							
DATE							



BLOCK 16 CONT. : REQUIREMENTS FOR SPECIFIC SURFACE OF CLASS "F" PORZCEAN SHALL NOT VARY FROM THE AVERAGE ESTABLISHED BY THE TEN PRECEDING SAMPLES BY A MAX. VARIATION OF 15%. CONTRARY TO THE ABOVE, THE SPECIFIC SURFACE MAX. VARIATION WAS 17.9. USER TEST #3 WAS SAMPLED ON 5-30-80 AND HAD A SPECIFIC SURFACE OF -4.02. USER TEST #4 DATA IS ATTACHED. NO HOLD TAGS APPLIED.

United States Testing Company, Inc.

HOBOKEN, N. J. 07030

201-792-2400



REPORT

NUMBER

59777

(Refer to this number)

Report No. 355

January 8, 1981

Client: Bechtel Power Corporation
Post Office Box 2167
Midland, Michigan 48640

Subject: Fly Ash Users Test #4

Project: Midland Project
Units 1 and 2
Subcontract 7220-C-208

Sampling DataLog No.

7908

Sample Identity: Fly Ash User Test #4
Source : Michigan Ash Sales Co.,
Essexville, Michigan
Sampled At : Allied Batch Plant
Date Sampled : October 13, 1980 (First truck) @ 1520
Sampled By : United States Testing Company Personnel
R. Bishop
Dates Tested : October 16, 1980 thru November 20, 1980
at Hoboken, New Jersey Laboratories

U.S. Testing Incoming Shipment No.: 285

RECEIVED

JAN 12 1981

QUALITY CONTROL
BECHTEL JOB 7220

SIGNATURE Sc

Page 1 of 3

BD

1-13-81

* NOTE REMARKS ON PAGE 3

REFERENCE # 3253

United States Testing Company, Inc.

By: M. Anselmo
Project Engineer

Page 3 of 5 NCR 3253

ROUTE	QC 07220	INIT
SMITH		
NEWMAN		
RUSSELL		
KIRKMAN		
WATKINS		
SELECT		
PIPER		
MELBY		
WELSH		
DOE		
RECEIVING		
ADJ. ASST.		
ASST. TEST		
Lab. Equip.		
T/O		
OPEN LOOP		
☐ YES ☐ NO		
DATE		

UNITED STATES TESTING COMPANY, INC.

CLIENT: Bechtel Power Corporation
Midland, Michigan

Number
59777
Report No. 35
January 8, 19

Test Data and Results

A. Chemical Analysis of Flyash in accordance with ASTM C-618-72

	<u>Specimen Results %</u>	<u>Spec. Req'd.</u>
$\text{SiO}_2 + \text{Al}_2\text{O}_3 + \text{Fe}_2\text{O}_3$	85.26	70%, Min.
MgO	4.04	---
SO_3	0.34	5.0%, Max.
Moisture Content	0.11	3.0%, Max.
Loss on Ignition	2.26	12.0%, Max.
Alkalies ($\text{Na}_2\text{O} + 0.658\text{K}_2\text{O}$)	0.33	1.5%, Max.

UNITED STATES TESTING COMPANY, INC.

CLIENT: Bechtel Power Corporation
Midland, Michigan 48640

Number
59777
Report No. 355
January 8, 1981

9. Physical Analysis of Flyash in accordance with ASTM C-618-72 and ASTM C-311-68

	<u>ASTM Test</u>	<u>Specimen Results</u>	<u>Spec. Req'd.</u>
Fineness, Surface Area	C-204-72	9778	6500 cm ² /cm ³ , Min.
Amount Retained on the No. 325 Sieve	C-430-71	19.7	20%, Max.
Multiple Factor	----	44.5	150%, Max.
Pozzolanic Activity Index with Lime at 7 Days	C-595-72	1190	800 psi, Min.
Pozzolanic Activity Index With Portland Cement at 28 Days	C-109-75	92	85%, Min.
Water Requirement	C-109-75	100.0	105% of Control Max.
Uniformity Requirements			
Specific Surface		17.9 *	15%, Max. Variation
Specific Gravity		-4.8	5%, Max. Variation
Quantity of Air Entraining Admixture	C-185-71	13.7	20%, Max. Variation
Increase of Drying Shrinkage at 28 Days	C-157-69T	+0.003	.03% Max.
Soundness, Autoclave Expansion	C-151-74	+0.044	0.5% Max.
Reactivity with Cement Alkalies Reduction of Mortar Expansion at 14 Days	C-441-69	93.5	—
Specific Gravity	C-188-72	2.20	—

Remarks:

* Test failures were reported to Mr. John Speltz on January 7, 1981
by Mr. M. Anselmo.

Discussed with:
RON HENDRICKS



NONCONFORMANCE REPORT

S/U # 1 BGA

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 3254		20. PAGE 1 OF 2	
2. UNIT 1	3. DRAWING/PART NO. M 603-15	REV F1	4. ITEM DESCRIPTION 1 HCC-35-603-15-5		5. ITEM LOCATION A/C X Bldg 6454		
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A	9. SOURCE Construction	10. CONTRACTOR/SUPPLIER N/A			
11. INSPECTION CRITERIA () DWG () SPEC () OTHER NO. 11204, Rev 14		12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO		13. SKETCH ATTACHED () YES () NO		14. Discovered During () Rec'g () Const () Test () Eng () FCD	
15. Equip Furnished By () Client () Eng () FCD							
16. NONCONFORMING CONDITION: REQUIREMENT: SPEC 11204 REV 14 Paragraph 8 states in part "The piping shall be kept in appearance, provide adequate space for pipe insulation, be convenient to operate and shall provide for proper expansion, venting and drainage". Continued on Pg 2 "D"-6155 # 4037 1 Hold Tag Applied							
17. REPORTED BY P. L. Fugate		DATE 1-14-81		VALIDATED BY J. E. Smith		DATE 1-14-81	
21. ROUTING: TO FIELD ENGINEERING () TO OTHERS (SPECIFY)							
22. () Field Engineering Recommended Disposition to Project Engineering							
23. PROJECT ENGINEERING DISPOSITION							
26. QC ACCEPTANCE							
QC ENGINEER				DATE			
AUTHORIZED INSPECTOR				DATE			

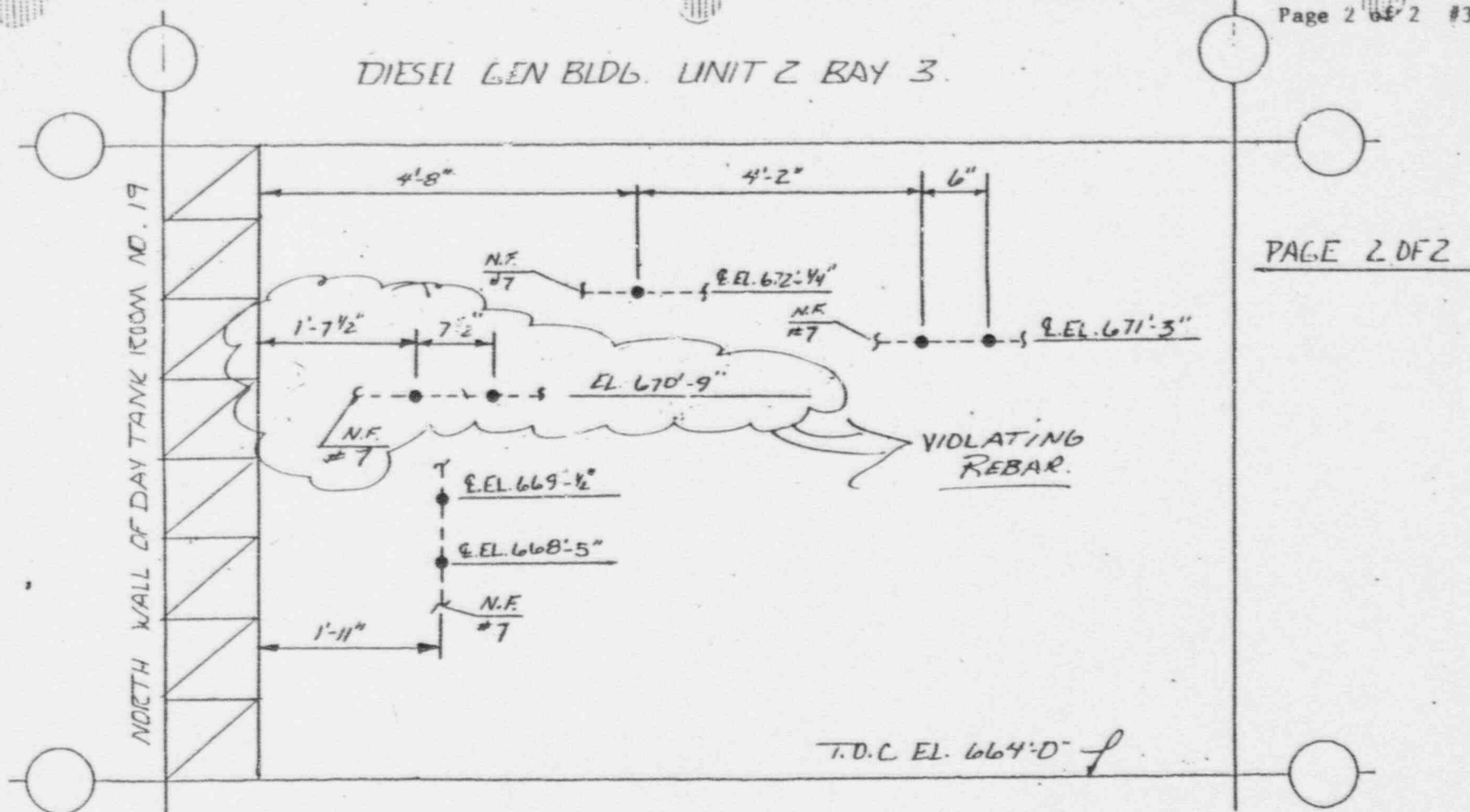


NONCOMPLIANCE REPORT (CONT'D)

20 PAGE 2 OF 2 19NCR NO 3254

Block #16 continued: Contrary to the above, SPOOL
14CC-35-603-15-5 is fouling the corrugated deck
grating where the piping enters the pipe chase.
S. L. Fugate 1.14.81

DIESEL GEN BLDG. UNIT 2 BAY 3.



VIEW: LOOKING @ EAST. WALL ROOM NO. 19

MARK. NO:	
SKETCH NO:	
ROOM: 19	ELEV: 664'-0" T.O.C.
PLAN: EAST WALL ELEV.	
BAR SIZE: #7	DEPTH: N.F.
BUILDING: DIESEL GEN BAY 3.	

PREPARED BY: B. HAMILTON

DATE: 1-7-81

NOTE:

NEW REV:

FSK NO: CTZ-29(2) SN 104 Y ☒ NO ☐



Parsons Contacted
EE - Mike McIntosh
RE - John Mayer

NONCONFORMANCE REPORT

Start-up # IPKH 2 PKA

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 3256		20. PAGE 1 OF 2	
2. UNIT(S) Both		3. DRAWING/PART NO. 7220-3275-2-3		4. ITEM DESCRIPTION Installation of Panels		5. ITEM LOCATION Control Room	
6. P.O. OR SPEC NO. N/A		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N N/A		9. SOURCE Engineering	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO		13. SKETCH ATTACHED () YES () NO		14. Discarded During () Rec'd () Const () Test	
15. NONCONFORMING CONDITION: Requirements - Per Spec. 7220-3275 Rev. 5, Para. 32.1, "Outline dimension and arrangement drawings shall be furnished. They shall show cabinet sizes, cable entry locations, cabinet mounting requirements, and location and size of equipment and barriers, mounted within the panel". Per Spec. 7220-3275 Rev. 5, Para. 32.3 and sub-para. d, "Installation manuals for the system shall be furnished. They shall incorporate the following: Site storage, installation, and start-up." Cont on Pg. 2.		16. DISPOSITION: CONCURRENCE		15. Equip. Furnished By () Const () Eng () FLD			
17. REPORTED BY Dale S. Priden		18. VALIDATED BY Mike McIntosh		25. DISPOSITION RESULT			
21. ROUTING: 00 TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering		26. QC ACCEPTANCE			
23. PROJECT ENGINEERING DISPOSITION				QC ENGINEER		DATE	
				AUTHORIZED INSPECTOR		DATE	



Cont. From Pg. 1
Block 16.

Condition- The requirements for the installation of the panels have not been furnished. The panels have been installed with 1/2" Stud Anchors. Criteria for acceptance of the as-built condition has not been furnished. Therefore the quality of the installation is indeterminate.
Hold For Engineering disposition
4 Hold tags applied
Q-list # 5.036



NONCONFORMANCE REPORT

505033: UNTESTABLE

1. PROJECT NAME <i>midland</i>		JOB NO. <i>7220</i>		19. NO. <i>3257</i>	20. PAGE <i>1</i> OF <i>1</i>
2. UNIT(S) <i>1 & 2</i>	3. DRAWING/PART NO. <i>7220-C437</i>	REV <i>0</i>	4. ITEM DESCRIPTION <i>2" BOLTS FOR DUMP FILLER</i>	5. ITEM LOCATION <i>26 530-2000-0000</i>	
6. P.O. OR SPEC NO. <i>14329</i>	7. SERIAL NO. <i>2000</i>	8. REPLACEMENT PART P/N <i>14329</i>	REV <i>0</i>	9. SOURCE <i>Supplier</i>	10. CONTRACTOR/SUPPLIER <i>INRYCO, INC.</i>
11. INSPECTION CRITERIA () DWG () SPEC (X) OTHER		IR NO. <i>7220-1895</i>	12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO	14. Discovered During () Rec'd (X) Const () Test	
15. Equip. Furnished By () Client () Eng (X) FLD					
16. NONCONFORMING CONDITION: <i>Table 5 of ASTM A449 requires an elongation of 12% minimum in 8D for 2" Ø bolting material. Contrary to the above, the cert for the referenced bolts lists the elongation as 12.5% making the status of the material indeterminate. Material received on 8EO 8/19/92, 136 ea 2" Ø ASTM A449 12" 10787. 0 number is 1.102. Hold pending engineering disposition. 3 Hold tags applied to the nonconforming items</i>					
17. REPORTED BY <i>W. Smith</i>		18. VALIDATED BY <i>W. Smith</i>		DATE <i>1/13/01</i>	
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					
AUTHORIZED INSPECTOR					
DATE					



NONCONFORMANCE REPORT

SIC 441-775TABLE

1. PROJECT NAME Midland Highway 142		JOB NO. 7220		19. NO. 3258	20. PAGE 1 OF 2
2. UNIT(S) A/C	3. DRAWING/PART NO. E-610 302	4. ITEM DESCRIPTION 1 CROSS FLANGE WELDS / Conduit Supports		5. ITEM LOCATION J-K	
6. P.O. OR SPEC NO. 1111	7. SERIAL NO. 1111	8. REPLACEMENT PART VIN 1111 REV 1111	9. SOURCE CONST.	10. CONTRACTOR/SUPPLIER A/A	
11. INSPECTION CRITERIA (A) DWG () SPEC () OTHER IN DO 1111 1111 1111		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 () FIELD			
16. NONCONFORMING CONDITION: E-610 Rev 0 Sh 306A gives guidelines for cross flange sketch settings of type 14 816 conduit supports. The maximum weld size is 1/4". Conduits to the above 2 type 14 conduit supports have been installed on a W18X50 which is 16" high. Each support has a total of 4 welds, each in excess of 1/4" but no more than 3/8". All other requirements of the supports are acceptable. The supports are FSA-E-630-72 & FSA-E-630-93. Both are at the time listed no. 3006. 2 H-H tags applied. Held for eng. disposition.					
17. REPORTED BY J.C. Miller	DATE 1-14-81	18. VALIDATED BY J.C. Miller		DATE 1-14-81	
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					
AUTHORIZED INSPECTOR					
DATE					



CONTACT: L.E. MORRIS

NONCONFORMANCE REPORT

S/U - NON-TESTABLE

1. PROJECT NAME MIDLAND IF2		JOB NO. 7220		19. NO. 3259	20. PAGE 1 OF 1
2. UNIT(S) UNIT #1	3. DRAWING/PART NO. N/A	REV.	4. ITEM DESCRIPTION POST TENSIONING TENDON	5. ITEM LOCATION CONT. #1 HORIZONTAL TENDON - H13-045	
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 SUPPLIER	10. CONTRACTOR/SUPPLIER INLAND RYERSON CONST. PRODUCTS Co.
11. INSPECTION CRITERIA 11 DWG 11 SPEC 11 OTHER		IR NO. C-9.10-273 NO 2-146 REV. 58	12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec'g (X) Const () Test (X) Client () Eng () FLD
16. NONCONFORMING CONDITION: INRYCO'S SYSTEM FOR POST TENSIONING OF THE CONTAINMENT BUILDINGS CALLS FOR THE USE OF 359 TENDONS PER CONTAINMENT, EACH OF WHICH INCLUDES 170, 1/4" DIAMETER WIRES. CONTRARY TO THIS, TENDON H13-045 WAS SUPPLIED WITH ONLY 168 WIRES. "Q-LIST" NO. 1.107, HOLD FOR ENGINEERING DISP. NO HOLD TAGS APPLIED				24. DISPOSITION CONCURRENCE rework reject repair use as is PROJECT FIELD ENGINEER DATE PROJECT ENGINEER DATE PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE	
17. REPORTED BY Paul J. J. 1/15/81		18. VALIDATED BY 59 E. J. J. 1-15-81		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

Non-Testable Unit

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 3260		20. PAGE 1 OF 2	
2. UNIT(S) C233A-F3103-198		3. DRAWING/PART NO. 2/13 Beam 16B1		5. ITEM LOCATION Beam 16B1 Welding			
6. P.O. OR SPEC NO. N/A		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE Eng.	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. C304 1523W NO. C304-ED		12. ASME AUTHORIZED INSPECTION REC'D () YES (X) NO		14. DISCOVERED DURING () REC'D (X) CONST () TEST	
16. NONCONFORMING CONDITION: Spec C304 section 6.2.6 states: no welding across the flange of the beam shall be done without prior Project Eng. approval. Contrary to the above a 1"x5'x8 1/2" flange was welded to beam 16B1 utilizing a cross flange weld.		13. SKETCH ATTACHED () YES (X) NO		15. EQUIP FURNISHED BY () CLIENT (X) ENG () FLD		24. DISPOSITION CONCURRENCE rework reject repair use as is	
17. REPORTED BY Edwin Dutton		DATE 1-14-81		18. VALIDATED BY B. E. Smith		DATE 1-15-81	
21. ROUTING: ☒ TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION							
26. QC ACCEPTANCE							
QC ENGINEER				DATE			
AUTHORIZED INSPECTOR				DATE			

- 197 - $\frac{2}{F}$

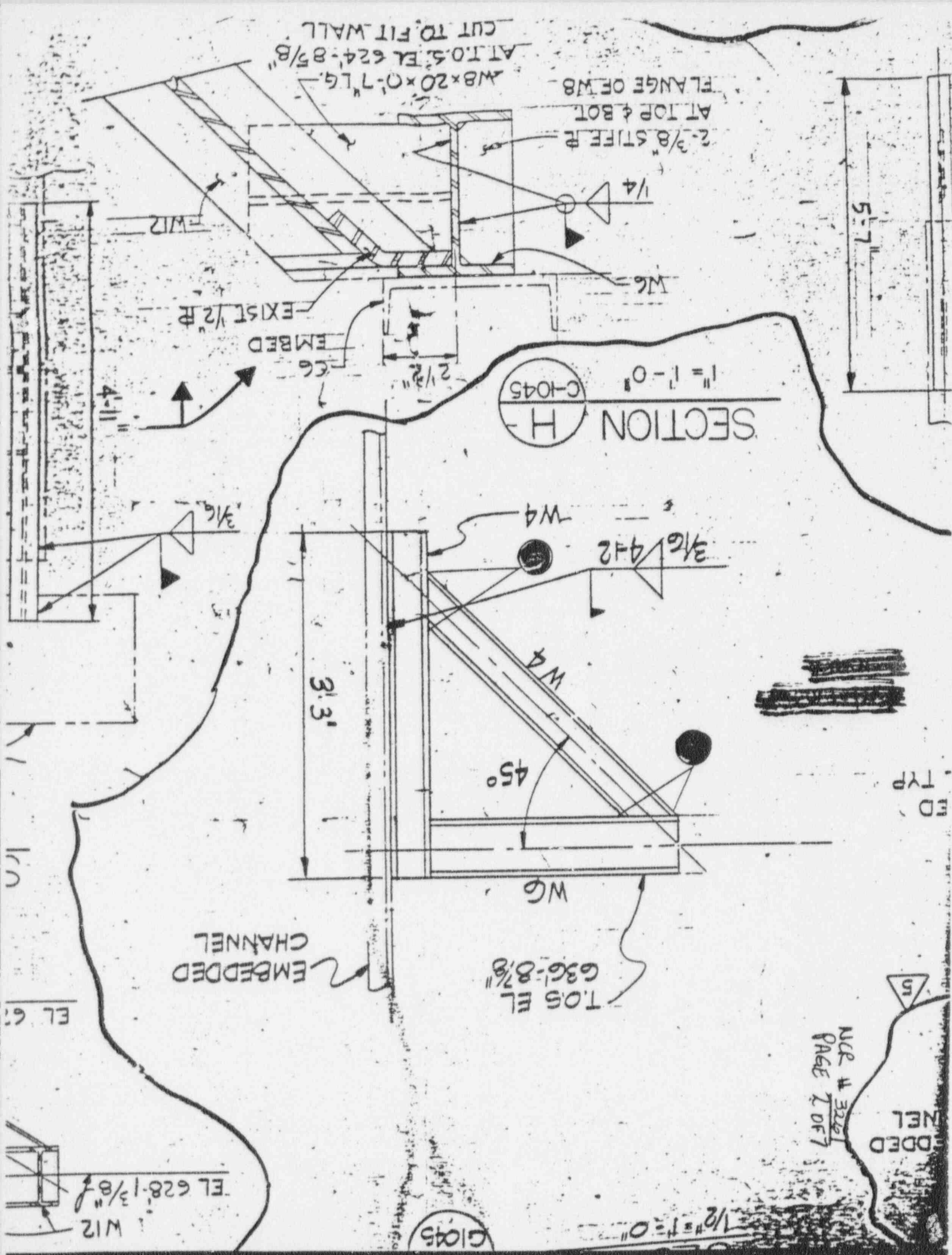
2/5/



NONCONFORMANCE REPORT

Non-testable Unit

1. Project Name MIDLAND		Job No. 7220		19. No. 3261		20. Page 1 of 2	
2. Unit(s) 1		3. Drawing/Part No. N/A		4. Item Description Cross Flange Welding ACCESS PLATFORM STRUCTURAL STEEL		5. Item Location EL. 6.26 ± TO EL. 6.35 ± S. STEEL GENERAL	
6. P.O. Or Spec No. N/A		7. Serial No. N/A		8. Replacement Part P/N N/A REV N/A SER N/A		9. Source ENGINEERING N/A	
11. Inspection Criteria ☐ DWG ☒ SPEC		12. IR NO. C-304-7220-51, 7220-52, 7220-53, 7220-54, 7220-55, 7220-56, 7220-57, 7220-58, 7220-59, 7220-60, 7220-61, 7220-62, 7220-63, 7220-64, 7220-65, 7220-66, 7220-67, 7220-68, 7220-69, 7220-70, 7220-71, 7220-72, 7220-73, 7220-74, 7220-75, 7220-76, 7220-77, 7220-78, 7220-79, 7220-80, 7220-81, 7220-82, 7220-83, 7220-84, 7220-85, 7220-86, 7220-87, 7220-88, 7220-89, 7220-90, 7220-91, 7220-92, 7220-93, 7220-94, 7220-95, 7220-96, 7220-97, 7220-98, 7220-99, 7220-100		13. ASME AUTHORIZED INSPECTION REQUIRED ☐ YES ☒ NO		14. SKETCH ATTACHED ☒ YES ☐ NO	
15. Nonconforming Condition: SPECIFICATION C304 REV. 9 SECT. 6.2.6 STATES NO WELDING ACROSS FLANGE OF THE BEAM SHALL BE DONE WITHOUT THE PRIOR APPROVAL OF PROJECT ENGINEERING CONTRARY TO THE ABOVE THE WELDS SHOWN ON THE ATTACHED DRAWINGS WERE MADE ACROSS FLANGE WITHOUT PROJECT ENGINEERING APPROVAL. ATTACHMENTS: KEY LOCATION DWG., FSK-CC1-115, 116, 119, SECT H C-1045, F7220-C233A-F3091-52-3. REFERENCE INFORMATION: BCOE-3115A BEX-4303, FCR C-2782.		16. Disposition Concurrence REWORK REJECT REPAIR USE AS IS		17. Reported By [Signature]		18. Validated By [Signature]	
21. Routing ☒ TO FIELD ENGINEERING ☐ TO OTHERS (SPECIFY)		22. ☐ Field Engineering Disposition ☐ Field Engineering Recommended Disposition to Project Engineering		23. Project Engineering Disposition		24. Disposition Concurrence	
25. Disposition Results		26. QC Acceptance		27. QC Engineer		28. Authorized Inspector	
29. Date 1/14/81		30. Date 1-15-81		31. Date		32. Date	



B

NCR # 3261

PAGE 4 OF 7

1	12/1/81	MINOR REVISIONS AS NOTED	JOE	DA	12/1/81
0	12/1/81	ISSUED FOR CONSTRUCTION	CLM	12/1/81	12/1/81
NO	DATE	REVISION	BY	CHKD	APPR
SCALE N.T.S.		DRAWN C. MEALEY		CHECKED J. HEERMAN	
APPR J. RETT					
BECHTEL POWER CORP MIDLAND, MICHIGAN					
CONSUMERS POWER COMPANY MIDLAND PLANT, UNITS 1 & 2					
REF DWGS C-1112-4		TITLE REACTOR BLDG. UNIT NO 1 PLATFORM @ ELEV. 635'-1"			
N/A					
		JOB NO 7220		DRAWING NO FSK- 001-115 (G)	
				REVISION 1	

CHECK PRINT
UNCONTROLLED

A

2

NCR ATTACH. PRINT 1 AVAIL. IN QC VAULT.

34 X 44

B-7 1

11 1/4 X 10

5-0-4

BEYOND



F1

SPECIALTIES DIVISION
 7097
 EVIG #E3

FMR #CC2496 REC#39

APPROVED INRYCO
 QUALITY ASSURANCE DIVISION
 C.W. Sieff
 7-10-79

INRYCO Issue Date: 7/18/79
 INRYCO Issue Date: 3/10/80
 INRYCO Issue Date: 4/14/80
 2015 4-14-80

FOR CONSTRUCTION

APR 14 1980



2	4/24/79	ISSUED FOR CONSTRUCTION	LR	RLS	DT	1/1
1	3/26/79	INCORP DCN NO.1	LR	RLS	DT	1/1
10	10/1/78	ISSUED FOR FABRICATION	W	KN	DT	1/1
No.	DATE	REV. BY	BY	CHK'D	PLS'D	FILED
SCALE	1/8" = 1'-0"	DESIGNED	E. HANNAH	DRAWN	W. JOHNSON	T.E. J.

INRYCO
 F722D-C233A-F3091-5R-3

MIDLAND PLANT UNITS 1 & 2
 CONSUMERS POWER COMPANY

REACTOR BUILDING UNIT 1
 MISC STEEL ACCESS PLATFORMS
 AT SOUTH STEAM GENERATOR SHI

JOB No.

DRAWING No.

NCR # 3261
 PAGE 5 OF 7

ATTACH PRINT IN DE VAULT

[illegible]

2- ALL NOTES ARE $\frac{15}{16}$ P
2- MATERIAL A 3% (Q)
3- ELEC F70X A
4- CURE $\frac{1}{2}$ ANGLE



2/1/20

X 6.

D.

NCR ATTACH. PRINT. AVAIL. IN DC VAULT

NO	DATE	REVISION	SCALE	NO	SCALE	DRAWN	CHECKED	BY	CHKD	APPR
1	10/14	ISSUED FOR CONSTRUCTION								
BECHTEL POWER CORP MIDLAND, MICHIGAN CONSUMERS POWER COMPANY MIDLAND PLANT, UNITS 1 & 2										
REF DWGS		DATE CHG		TITLE		REACTOR BUILDING UNIT NO. 1 PLATFORM T.O.S. EL. 653' 0"				
7220		JOB NO		DRAWING NO		FSK-CCI-114				
										

NOTES:

- 1- ALL BOLTS ARE $\frac{15}{16}$ L NO
2- MATERIAL A36
3- ELEC. 170XX
4- RADF 1-531 $\frac{1}{2}$ "

NCR # 3261
PAGE 7 OF 7

**CHECK PRINT
UNCONTROLLED**

O		ISSUED FOR CONSTRUCTION		CLM/ML	
NO	DATE	REVISION		BY	CHKD
SCALE NOT TO SCALE		DRAWN C. MEALEY		CHECKED J. HILL	APPR
BECHTEL POWER CORP MIDLAND, MICHIGAN					
CONSUMERS POWER COMPANY MIDLAND PLANT, UNITS 1 & 2					
REF DWGS C-1112-4		TITLE REACTOR BUILDING UNIT No 1 PLATFORM T.O.S. 51.632-1			
HNA					
FOR NO		DRAWING NO		REVIS IN	
7220		FSK-CC 1-116		(G)	

NCR ATTACH. PRINT. AVAIL. IN QC ^{34 X 44} VAULT



Discussed with
BILL SWENSON

NONCONFORMANCE REPORT

Job # 0541

1. PROJECT NAME <i>Midland</i>		JOB NO. <i>7220</i>		19. NO. <i>3362</i>	20. PAGE <i>1</i> OF <i>2</i>
2. UNIT(S) <i>COMMON</i>	3. DRAWING/PART NO. <i>614-8</i>	REV <i>1/1</i>	4. ITEM DESCRIPTION <i>8" - HCC - GT-L (414-009)</i>	5. ITEM LOCATION <i>Area 864 604 ELEV</i>	
6. P.O. OR SPEC NO. <i>NA</i>	7. SERIAL NO. <i>0004</i>	8. REPLACEMENT PART P/N <i>NA</i> REV <i>NA</i> SER NO. <i>NA</i>		9. SOURCE <i>Construction</i>	10. CONTRACTOR/SUPPLIER <i>NA</i>
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. <i>NA</i>	12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO	13. SKETCH ATTACHED () YES () NO	14. Discovered During () Rec'g () Const () Tvs.
15. Equip Furnished By () Client () Eng () FLD				16. NONCONFORMING CONDITION: <i>REQUIREMENT: MATERIALS SHALL BE MARKED WITH THE INFORMATION REQUIRED BY THE APPLICABLE ASME MATERIAL SPECIFICATIONS AND THE NUCLEAR POWER PLANT COMPONENTS CODE, PART 13-2151.</i>	
17. REPORTED BY <i>S. Lugo</i>				18. VALIDATED BY <i>E. Smith</i>	
DATE <i>1-16-81</i>				DATE <i>1-16-81</i>	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
24. DISPOSITION CONCURRENCE					
rework reject repair use as is					
PROJECT FIELD ENGINEER DATE					
PROJECT ENGINEER DATE					
PROJ CONSTR QC ENGINEER DATE					
AUTHORIZED INSPECTOR DATE					
25. DISPOSITION RESULTS					
26. QC ACCEPTANCE					
QC ENGINEER DATE					
AUTHORIZED INSPECTOR DATE					



Block 16 continued: Contrary to the above, the blueless identification tag is missing from 8" HCBT-1 (404.009) valve. The valve is installed, and the blueless identification tag, 5W 0004 h.o.s. BEER, documented on the Quality Control Inspection Record.

J. L. Fugate 1/16/81



ENGR. CONTACTED; TRICKS Lutz

a Job

NONCONFORMANCE REPORT

SU-indeterminate

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3263		20. PAGE 1 OF 1	
2. UNIT(S) N/A		3. DRAWING/PART NO. N/A		4. ITEM DESCRIPTION A-325, TYPE 3, STRUCTURAL N/A HEX BOLTS, HEAVY HEX NUTS, WASHERS		5. ITEM LOCATION WAREHOUSE #1	
6. P.O. OR SPEC NO. F-49256		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE VENDOR	
10. CONTRACTOR/SUPPLIER TALLEY FASTENERS		11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO		13. SKETCH ATTACHED () YES (X) NO	
14. Discovered During (X) Rec'g () Const () Test		15. Equip Furnished By () Client () Eng (X) FLD		16. NONCONFORMANCE CONDITION: Purchase Order F-49256, items 1-6, included the purchase of ASTM-A325, Type 3, structural hex bolts with heavy hex nuts and washers. Specification G-33, Rev. 13, requires a certificate of compliance, which was received, but did not state Type 3. Also, the heavy hex nuts and washers were not marked to designate Type 3, leaving their status indeterminate. "HOLD" TAG APPLIED - HOLD FOR ENGINEERING DISPOSITION "G LIST NO. INDETERMINATE"		24. DISPOSITION CONCURRENCE	
17. REPORTED BY M. F. Stocumb		DATE 11/19/81		18. VALIDATED BY R. E. Smith		DATE 1/20/82	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering		23. PROJECT ENGINEERING DISPOSITION		25. DISPOSITION RESULTS	
26. QC ACCEPTANCE		QC ENGINEER		DATE		AUTHORIZED INSPECTOR	
DATE		DATE		DATE		DATE	



Contacted: Ron Hendricks

NONCONFORMANCE REPORT

a job

Non-Testable Unit

1. PROJECT NAME Midland Units #1 & #2		JOB NO. 7220		19. NO. 3264	20. PAGE 1 OF 1
2. UNIT(S) Compressor	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION Hanger Anchor Bolts	5. ITEM LOCATION As bldg descrip, 6" 1/4, 6" 3/4	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE Construction	10. CONTRACTOR/SUPPLIER N/A
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. C-110-8101 NO Spec 306 Rev 7	12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec'g (X) Const () Test
16. NONCONFORMING CONDITION: Spec 306, Rev 7, section 5.13 states in part "Materials for bolts over 1" in diameter shall be either ASTM A 193, Grade B7; ASTM A 54, Grade B23, class 5; or ASTM A 193, Grade B7..." Contrary to this, two of the four 1 1/2" diameter anchor bolts for hanger 604-S-21 can not be traced to any specific material Hold for engineering disposition, "Q" listed 1.2016, 1 Hold Tag applied.			15. Equip Furnished By (X) Client () Eng () FLD		
17. REPORTED BY Randy Hueron			18. VALIDATED BY E. Smith		
DATE 1/19/81			DATE 1/21/81		
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

START UP #'s SEE PAGE 2

1. Project Name MIDLAND		Job No. 7220		19. No. 3265		20. Page 1 of 4	
2. Unit(s) 1 & 2		3. Drawing/Part No. E7-189-1		Rev 8		5. Item Location AUX. BLDG., EL. GA	
6. P.O. Or Spec No. E7-189-1		7. Serial No. N/A		8. Replacement Part P/N N/A REV N/A		9. Source CONSTR.	
11. Inspection Criteria DWG ☒ SPEC ☐		12. ASME AUTHORIZED INSPECTION REQ'D YES ☒ NO ☐		13. SKETCH ATTACHED YES ☒ NO ☐		14. Discarded During REC: ☒ CONST ☐ TEST ☐ CLIENT ☒ ENG ☐ FLD ☐	
16. Nonconforming Condition: REQUIREMENTS: VENDOR INSTRUCTION IS PROVIDED FOR BANKING OF SHIPPING SECTIONS OF THE MOTOR CONTROL CENTERS. REFER TO DRAWING 03-36418-00 REV. 8 (E7-189-1). OTHER FABRICATION DRAWINGS FOR EACH CONTROL CENTER SUCH AS E7-19(1)-6 AND E7-19(2)-7.		24. Disposition Concurrency REWORK ☐ REJECT ☐ REPAIR ☐ USE AS IS ☐		25. Disposition Results		26. QC Acceptance	
17. Reported By C. L. Starnes		18. Validating By J. E. Smith		Date 1-15-81		QC ENGINEER DATE	
21. Routing ☐ TO FIELD ENGINEERING ☐ TO OTHERS (SPECIFY)		22. ☐ Field Engineering Disposition ☒ FIELD ENGINEERING RECOMMENDED DISPOSITION TO PROJECT ENGINEERING		AUTHORIZED INSPECTOR DATE		AUTHORIZED INSPECTOR DATE	
23. Project Engineering Disposition							



16.- CONTINUED CONDITIONS:

DOUBLE ENTRY UNITS ARE BEING USED SINGLE ENTRY WHERE THEY ARE BACK TO BACK OR AGAINST THE WALL, WITH NO REAR ENTRY. DRAWING IMPLIES BOLTS AT THE TOP ON BOTH SIDES OF THE BUS'S SPLICE TO SECURE THE CABINET.

EXAMPLE: THE FIRST MCC OF A BACK TO BACK INSTALLATION, ALL EIGHT BOLTS CAN BE INSTALLED AS IS EVIDENT IN 2B5E. THE SECOND MCC HAS NO TOP REAR BOLT AS IS EVIDENT IN 2B23. SIX VISUAL INSPECTIONS THROUGH THE TOP OPENING REVEALS FIVE MISSING BOLTS. A WRITER SKETCH OF BOLTS REQUIRED IS ATTACHED (PAGE 3). ALSO IT IS NOT POSSIBLE TO INSTALL THE TOP REAR BOLT IN 2B5E BETWEEN SECTIONS FIVE AND SIX.

BACK TO BACK INSTALLATIONS, MIX. BLDG., EL. 614 ARE:

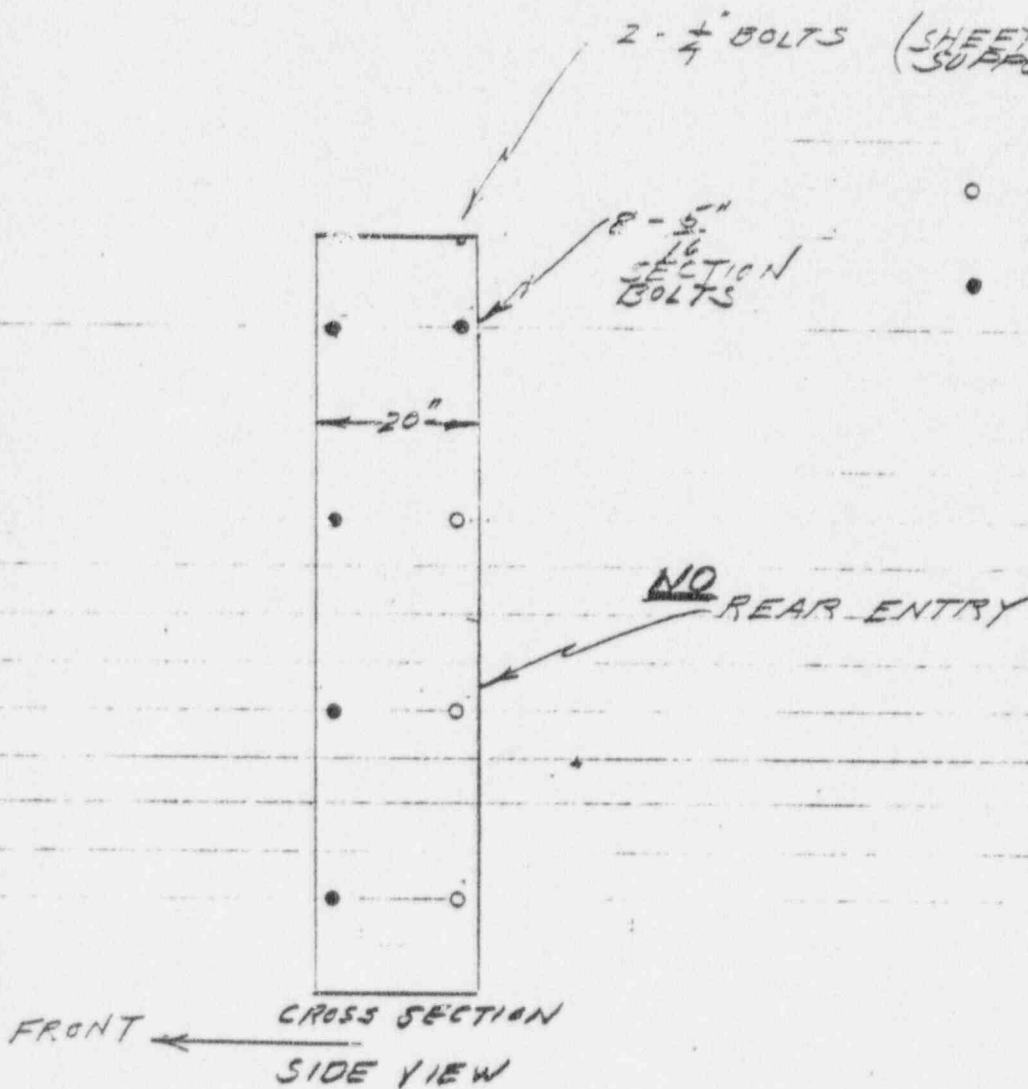
1B56 - 1B24, 1B55 - 1B23, 2B23 - 2B55, 2B24 - 2B56
SU. #5 ARE

1PHF - 1PHB, 1PHE - 1PHA, 2PHA - 2PHE, 2PHB - 2PHF

Q11ST 3.104 HOLD FOR ENGINEERING DISPOSITION
NO HOLD TAGS APPLIED.

1/9/81

MCC SECTION BOLTING



REFER TO E7-189-1 REV. 8 (03-364-00)

QC IR E6.0

ACT - 2.5

SIGN OFF REQUIRED

[Signature]

NCR# 3265

PAGE 3 OF 4



NONCONFORMANCE REPORT

Start up: Indeterminate

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 3266		20. PAGE 1 OF 7					
2. UNIT(S) Indet.	3. DRAWING/PART NO. N/A		REV N/A	4. ITEM DESCRIPTION Stock ASME NF Steel for Cl. 1 Component Supports		5. ITEM LOCATION Indeterminate					
6. P.O. OR SPEC NO. See Blk. 16		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 See Block 16		11. INSPECTION CRITERIA () DWG () SPEC (X) OTHER IR NO. N/A NO ASME III NF '76 H/NF 2610 9'76 Add.		12. ASME AUTHORIZED INSPECTION REC'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		24. DISPOSITION CONCURRENCE							
16. NONCONFORMING CONDITION ASME III NF 2610 requires Class 1 (NF2130) material be supplied by a manufacturer with approved NA3700 quality program. Contrary to the above, the following listed material was procured from sub-vendors who were not ASME or Bechtel qualified for an NA3700 quality program at the time of purchase of the material in question. (See pages 2 thru 7) "Q" number indeterminate. No hold tags applied.				rework				reject	repair	use as is	
				PROJECT FIELD ENGINEER				DATE			
				PROJECT ENGINEER				DATE			
				PROJ CONSTR QC ENGINEER				DATE			
				AUTHORIZED INSPECTOR				DATE			
17. REPORTED BY John R. Alfieri		DATE 1-23-81		18. VALIDATED BY R. E. Smith		DATE 1-23-81		25. DISPOSITION RESULTS			
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)											
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering											
23. PROJECT ENGINEERING DISPOSITION											
26. ACCEPTANCE											
QC ENGINEER								DATE			
AUTHORIZED INSPECTOR								DATE			



Block 16 Cont.

NONCONFORMANCE REPORT (CONT'D)

PAGE 2 OF 7

NCR NO 3266

P.O. Number	Award of P.O.	Mat'l. Rec. Report No.	Mat'l. Type	Ht. Code or Ht. No.	Material Supplier	Material Manufacturer
7220-F44393Q	12-7-79	AEO-12051	42x2x1/4 SA36	05R659	4	14
			43x3x1/4	173H859		1
			C 3x4.1	24083		5
			C 4x5.4	A01093		13
			C 5x6.7	171C551		1
			C 8x11.5	184H038		
			W 8x17	181C961		
				182C719		
			FL 1/2" SA515, GR70	411C9831		3
			FL 1"	401C5691		
			FL 1-3/4"	90273-23		9
			FL 2"	80055-23		
			Rod 1/2" SA36	11856		12
			5/8"	13898		6
			3/4"	08R547		14
			7/8"	5445129		11
			1-1/8"	2DC651		14
			1-3/4"	2D8651		
			2"	09T518		
			42x2x3/8	02R228		
		AEO-12058	42 1/2 x 2 1/2 x 1/4	05R802		
			42x3x1/4	180S949		1
			43x4x1/4	181W752		
		AEO-12092	41 1/2 x 1 1/2 x 1/4	09R903		14



Block 16 Cont.

NONCONFORMANCE REPORT (CONT'D)

20 PAGE 3 OF 7

19 NCN NO 3266

P.O. Number	Award of P.O.	Mat'l Rec. Report No.	Mat'l. Type	Ht. Code or Ht. No.	Material Supplier	Material Manufacturer
7220-F44393Q	12-7-79	AEO-12090	TS1/4x4x2 A-500GRB	1R1524	4	10
			TS1/4x3x3	60822		
			TS1/4x4x4	227565		
			↓	20406		
			↓	256476		
			TS1/4x6x4	C97375		
			TS1/4x6x6	38826		
			TS3/8x7x7	55555		
			TS3/8x8x8	227518		
			TS3/8x10x8	69993		
			TS3/8x4x4	227127		
			TS1/2x4x4	97677		
			↓	216978		
			↓	15338		
			↓	97637		
			TS1/2x5x5	216791		
			↓	107461		
			TS1/2x6x6	801522400		
			↓	802547629		
			TS1/2x8x6	216680		
			TS1/2x8x8	798038		
		AEO-12101	W6x12	SA 36	184J562	1
			W6x16		184J114	
			W10x49		184J147	
			S3x5.7		170K250	
			C5x10.5		170K768	

P.O. Number	Award of P.O.	Mat'l. Reg. Report No.	Mat'l. Type	Ht. Code or Ht. No.	Material Supplier	Material Manufacturer
7220-F44393Q	12-7-79	AEO-12108	TS1/4x2x2 A500 Gr B	325323	4	10
↓	↓	AEO-12161	M 4x13 SA 36	A01187	↓	13
7220-F46213Q	4-15-80	AEO-12146	TS1/2x5x5 A500 Gr B	216213	7	10
↓	↓	↓	TS1/2x4x4 ↓	216766	↓	↓
7220-F45945Q	3-27-80	AEO-12134	W18x50 A588 Gr B	170K327	4	1
↓	↓	↓	W12x53 ↓	183J846	↓	↓
7220-F46368Q	5-2-80	AEO-12150	PL 1/4" SA 515, Gr 65	80498-21-69299	7	9
↓	↓	↓	↓	80369-21-69705	↓	↓
↓	↓	↓	↓	80380-21-69366	↓	↓
↓	↓	↓	↓	80369-21-69706	↓	↓
↓	↓	↓	↓	90629-21-69362	↓	↓
↓	↓	↓	↓	90789-21-69363	↓	↓
↓	↓	↓	↓	90789-21-69364	↓	↓
↓	↓	↓	↓	90498-21-69708	↓	↓
↓	↓	↓	PL 3/8" ↓	80598-21-70308	↓	↓
↓	↓	↓	↓	90498-21-65839	↓	↓
↓	↓	↓	↓	80598-21-31507	↓	↓
↓	↓	↓	PL 1/2" ↓	90920-21-34423	↓	↓
↓	↓	↓	↓	80663-21-34426	↓	↓



Block 16 Cont.

NONCONFORMANCE REPORT (CONT'D)

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P.O. Number	Award of P.O.	Mat'l. Rec. Report No.	Mat'l. Type	Ht. Code or Ht. No.	Material Supplier	Material Manufacturer
7220-F46368Q	5-2-80	AEQ-12150	1 1/2" SA515, Gr 65	90920-21-34425	7	9
			↓	90920-21-34424		
			↓	80638-21-34417		
			1 5/8"	90878-21-31511		
			↓	90878-21-31519		
			↓	90878-21-31515		
			1 3/4"	90654-21-22732		
			↓	90654-21-22728		
			↓	90878-21-31514		
			1"	90589-21-22910		
			↓	90654-21-22822		
			↓	90589-21-65907		
			↓	90666-21-22824		
			1 1/2"	90856-23-30916		
			↓	90856-23-30918		
			↓	90856-23-30919		
			2"	90856-23-30903		
			↓	90856-23-30902		
		AEQ-12185	1 7/8"	80823-21-41274		
		↓	↓	80823-21-41307		
		AEQ-12196	2 1/2"	80850-23-75176		
7220-F45844Q	3-20-80	AEQ-12162	1" SA515, Gr 70	402K9591	4	3
			1 3/4"	411K7491		
			1 1/2"	432H8881		
			2"	495K1021		
			↓	402K9771		
			↓	411K4821		
7220-F46656Q	5-27-80	AEQ-12177	1 1/4x3x3 A500 Gr B	W92370	7	16



Block 16 Cont.

NONCONFORMANCE REPORT (CONT'D)

20 PAGE 6

OF 7

19 NCR NO 3266

P.O. Number	Award of P.O.	Mat'l. Rec. Report No.	Mat'l. Type	Ht. Code or Ht. No.	Material Supplier	Material Manufacturer
7220-F46656Q	5-27-80	AEO-12186	44x4x1/2 SA 36	87325	7	8
↓	↓	↓	↓ 3x3x1/2	87304	↓	↓
7220-F47139Q	6-27-80	AEO-12189	41-1/4" SA515, Gr 65	90539-23-34414		9
↓	↓	AEO-12205	4 3x3x3/8 SA 36	87357		8
↓	↓	↓	W5x16	182K840		1
↓	↓	AEO-12208	44x4x1/4	75432	↓	8
7220-F47294Q	7-11-80	AEO-12197	TS1/4x3x3 A500 Gr B	C02842	4	10
↓	↓	↓	↓	228995	↓	↓
↓	↓	AEO-12203	TS1/4x5x5	H01237		
↓	↓	↓	↓	D04466		
↓	↓	↓	↓	912617		
↓	↓	↓	TS1/4x8x8	K09942		
↓	↓	↓	↓	H01009		
↓	↓	↓	TS1/2x8x8	C02891		
↓	↓	↓	TS1/4x3x4	Y12595		
↓	↓	↓	TS1/4x3x5	4452420		
↓	↓	↓	TS1/4x4x4	450066		
↓	↓	↓	↓	250073		↓
7220-F47637Q	8-13-80	AEO-12206	4 3x3x1/2 SA 36	183K767		1
↓	↓	AEO-12214	TS3/8x3x3 A500 Gr B	260367		15
↓	↓	AEO-12221	W12x65 A588 Gr B	183K207		1
↓	↓	AEO-12233	TS3/8x3x5 A500 Gr B	4480288		10
↓	↓	↓	TS1/2x8x10 A500 Gr B	802J49380		10
7220-F48318Q	10-3-80	AEO-12245	W16x77 SA 36	181L836	↓	1
7220-F44517Q	12-17-79	AEO-12060	BAR1/4x3	496H0821	4	3



Block 16 Cont.

NONCONFORMANCE REPORT (CONT'D)

20 PAGE 7 OF 7 19 NCR NO 3266

MATERIAL SUPPLIER/MANUFACTURER KEY

- | | | |
|--|---|---|
| 1. Bethlehem Steel Corp.
Bethlehem, Pa. | 2. Bethlehem Steel Corp.
Burns Harbor, In. | 3. Bethlehem Steel Corp.
Sparrow Point, Md. |
| 4. Carbon Steel Products
Elizabeth, N.J. (Mat'l. Supplier) | 5. Connors Steel Co.
Birmingham, Al. | 6. Laclede Steel Co.
Madison Co., Il. |
| 7. Mills Alloy Steel Co.
Twinsburg, Oh. (mat'l. Supplier) | 8. Northwestern Steel & Wire Co.
Sterling, Il. | 9. Phoenix Steel Corp.
Claymont, De. |
| 10. Regal Tube Co/Copperweld Tubing Group
Chicago, Il. | 11. Republic Steel Corp.
Cleveland, Oh. | 12. Tennessee Forging Steel Corp.
Newport, Ak. |
| 13. United States Steel Corp.
Clairton Steel Works
Clairton, Pa. | 14. United States Steel Corp.
Fairless Works | 15. Valley Steel Product Co.
St. Louis, Mo. |
| 16. Welded Tube Co. of America
Chicago, Il. | | |

Identified By CPEO *John*
 1-23-81 *1/26/81*
 Discussed with Butch Boone
 1-23-81 *1/26/81*
 RECORDED COPY
 NONCONFORMANCE REPORT
 S/U NON TESTABLE

1. Project Name Midland		Job No. 07220		19. No. 3267	20. Page 1 of 1
2. Unit(s) I & II	3. Drawing/Part No. E-697 SH-1	4. Item Description Welded electrical Supports	5. Item Location 704' F-H, 5.1-7.8		
6. P.O. Or Spec No. N/A	7. Serial No. N/A	8. Replacement Part PIN N/A REV N/A	9. Source Field Engineering N/A	10. Contractor/Supplier	
11. Inspection Criteria ☐ DWG ☒ SPEC ☐ Nonconforming Condition		12. ASME AUTHORIZED INSPECTION REQ'D ☐ YES ☒ NO	13. SKETCH ATTACHED ☐ YES ☒ NO	14. Discovered During ☐ REC-G ☒ CONST ☐ TEST ☐ CLIENT ☒ ENG ☐ FLD	15. Equip Furnished By
16. Nonconforming Condition: Specification C-304 paragraph 6.1 states "Welding Shall be in accordance with A.W.S. D1.1 and Specification G-27".... Accordingly, A.W.S. D1.1-Rev 74 in 5.1.2., and in appendix E shows That The Filler material Type is to be shown on The W.P.S. In compliance with The above, Bechtel Prequalified W.P.S. P1-A-LH Structural, Rev. 3 lists classifications E-7018 and E-7016 AS The Filler materials to be used with That procedure. (Cont. P.2)		24. Disposition Concurrence			
17. Reported By Joseph J. Pelosana		18. Validated By Joe R. Smith		25. Disposition Results	
18. Rating 1-23-81		Date 1-26-81		26. QC Acceptance	
22. ☐ Field Engineering Disposition		26. QC Acceptance			
23. Project Engineering Disposition		QC ENGINEER			
		DATE			
		AUTHORIZED INSPECTOR			
		DATE			
		PROJECT CONSTR QC ENGINEER			
		DATE			
		PROJECT FIELD ENGINEER			
		DATE			
		PROJECT ENGINEER			
		DATE			
		REWORK			
		REJECT			
		REPAIR			
		USE AS IS			



RECORD COPY

NONCONFORMANCE REPORT (CONT'D)

20 PAGE 2 OF 2

19 NCR NO 3267

(Block 16 cont.)

CONTRARY TO THIS, All seismic electrical supports on elev. 704',
5'N/E - 5'S/H, 5'W/5.1 - 5'E/7.8 were welded using procedure
PI-A-LH Structural, with an E-8010 classification electrode... J. P. P. 1-23-81

Q List # - 3.006

No Hold Tags required



NONCONFORMANCE REPORT

Now Testable

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3268	20. PAGE 1 OF 1
2. UNIT(S) 2	3. DRAWING/PART NO. E-643	REV N/A	4. ITEM DESCRIPTION CONDUITS per Block 16	5. ITEM LOCATION Any Oldg EL 655 12' 4 1/4"	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A	9. SOURCE Construction	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA (X) DWG () SPEC () OTHER		IR NO. E-42A Rev 47	12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO	14. Discovered During () Rec'g (X) Const () Test	15. Equip Furnished By () Client () Eng (X) FLD
15. NONCONFORMING CONDITION: E-42A sk 9 paragraph 8. states a maximum of the equivalent of 4-90° bends are allowed in a conduit run between pull points. Contrary to E-42A conduits 2BH048, 2BH049, 2BH050 & 2BH051 have 4-90° bends and an offset of 2-33° bends					
17. REPORTED BY JH Lange					
18. VALIDATE BY R. E. Linnert					
DATE 1-22-81					
DATE 1-26-81					
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
26. OC ACCEPTANCE					
OC ENGINEER					
AUTHORIZED INSPECTOR					
DATE					
DATE					



NONCONFORMANCE REPORT

A Job

S/U #0-ECC

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3269	20. PAGE 1 OF 1
2. UNIT(S) 0	3. DRAWING/PART NO. Dwg M-3	REV 12	4. ITEM DESCRIPTION FUEL POOL COOLING HEAT EXCHANGER #OE-76A	5. ITEM LOCATION EL 599' 10' SOUTH of G&L-2	
6. P.O. OR SPEC NO. M-55	7. SERIAL NO. 74-N-012-1A	8. REPLACEMENT PART PIN N/A REV N/A SER NO. N/A		9. SOURCE CONST.	10. CONTRACTOR/SUPPLIER YUBA
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. M100 OE-76A/D NO.	12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO	13. SKETCH ATTACHED () YES () NO	14. Discovered During () Rec'g () Const () Test
16. NONCONFORMING CONDITION: FUEL POOL COOLING HEAT EXCHANGER #OE-76A WAS FOUND TO HAVE AN ARC BURN LOCATED ON THE UPPER WEST END. THE ARC BURN MEASURES 1 1/4" LONG BY 1/4" WIDE AND APPROXIMATELY 1/32" DEEP. Q LIST # 4.141, 1 HOLD TAGS APPLIED.				15. Equip Furnished By () Client () Eng () FLD	
17. REPORTED BY Richard Kaman 1/31/81				18. VALIDATED BY E. Smith 1-26-81	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
23. PROJECT ENGINEERING DISPOSITION					
24. DISPOSITION CONCURRENCE					
rework reject repair use as is					
PROJECT FIELD ENGINEER DATE					
PROJECT ENGINEER DATE					
PROJ CONSTR QC ENGINEER DATE					
AUTHORIZED INSPECTOR DATE					
25. DISPOSITION RESULTS					
26. QC ACCEPTANCE					
QC ENGINEER DATE					
AUTHORIZED INSPECTOR DATE					

add

[illegible]



Block 16 cont.

on hanger sketch 0-614-8-22 were designed and installed with full penetration welds, which has caused flattening of the pipe. The pipe is flattened approximately $\frac{3}{16}$ " at each of the 8 leg attachments.

J. Miller 1/27/81



2

901A

FE R. MILLER 1-27-81 NONCONFORMANCE REPORT S/U. Non TESTABLE UNIT

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3271	20. PAGE 1 OF 2
2. UNIT(S) 1	3. DRAWING/PART NO. E 758 SH 1	REV 3	4. ITEM DESCRIPTION WELDED CONNECTIONS-LONG. BRACES	5. ITEM LOCATION CONTRACT# / SEC. 5.140 W/46 677 SOUTH MAE	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV	SER NO. N/A	9. SOURCE FRY/CONST.	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER NO. C 304 Rev 9		12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO		10. CONTRACTOR/SUPPLIER N/A	
16. NONCONFORMING CONDITION: REQUIREMENT - SPECIFICATION 7220-C-504, REV. 9 PARAGRAPH 6.1 STATES IN PART, "WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1, SPECIFICATION 7220-G-27, AND WITH THE FOLLOWING REQUIREMENTS..." AWS D1.1-72 PARAGRAPH 2.7.1.4 STATES THAT A FILLET WELD MAY BE USED IN SKEWED CONNECTION WHEN THE INCLUDED ANGLE IS NOT LESS THAN 60°.					

13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec'g (X) Const () Test	15. Equip Furnished By () Client (X) Eng () FLD
24. DISPOSITION CONCURRENCE		
rework	reject	use as is
PROJECT FIELD ENGINEER		
PROJECT ENGINEER		
PROJ CONSTR QC ENGINEER		
AUTHORIZED INSPECTOR		
25. DISPOSITION RESULTS		

17. REPORTED BY R. Miller	DATE 1-27-81	18. VALIDATED BY R. Miller	DATE 1-29-81
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. OC ACCEPTANCE	DATE
OC ENGINEER	DATE
AUTHORIZED INSPECTOR	DATE

BLOCK 16 CONTINUED.

SPECIFICATION 7220-G 27 REV 14, GWS STRUCTURAL REV 3 PARAGRAPH 4.1.3.4 STATES, "FILLET WELDED T-JOINTS ARE PREQUALIFIED WHEN THE 'T' IS SKEWED TO NOT LESS THAN 60 NOR MORE THAN 135 DEGREES."

DRAWING 7220-E-758 SH1 REV 3 SHOWS 2ea LONGITUDINAL BRACES FOR TRAY SUPPORTS CONNECTED TO THE SECONDARY SHIELD WALL USING DETAIL 17B SHOWN ON DRAWING 7220-E-704 SH1, REV 8 AND 2ea LONGITUDINAL BRACES FOR TRAY SUPPORTS CONNECTED TO EMBEDDED AND ADDED STEEL USING DETAIL 6A SHOWN ON DRAWING 7220-E-703 SH1, REV 14.

CONDITION - THE INCLUDED ANGLES OF THE FOUR CONNECTIONS BETWEEN THE POOL STRUT IN VERTICAL ORIENTATION AND THE FLAT SURFACE OF THE STEEL IS LESS THAN 60 DEGREES.

4 EN QC HOW THIS APPLIED.

QLIST #3,005

HOW FOR ENGINEERING DISPOSITION.



NONCONFORMANCE REPORT

1. PROJECT NAME MIDLAND		JOB NO. 01220		19. NO. 3272	20. PAGE 1 OF 2
2. UNIT(S) 2	3. DRAWING/PART NO. E-37	REV 43	4. ITEM DESCRIPTION CABLE 2AA0508F	5. ITEM LOCATION ACCESS PLATFORM EL 692.7' RM 527	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE CONSTRUCTION	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec'y (X) Const () Test	15. Equip Furnished By () Client (X) Eng () FLD
16. NONCONFORMING CONDITION: DURING THE FULL PACK OF WR # 801 CONSISTING OF 22 CABLES, THE MAXIMUM ALLOWABLE CABLE TENSION WAS EXCEEDED (MAX. ALLOWABLE TENSION - 750 FT LBS., ACTUAL TENSION - 2830 FT LBS.) THE CABLE SCHEME NUMBERS INVOLVED WERE 2AA0508F, 2AA0511P, 2AA0511S, 2AA0512P, 2AA0512S, 2AB2332K, 2AB2341E, 2AB2344K, 2AB5503D, 2AB5503H, 2AB5514E, 2AB5526E, 2AB5541E, 2AB5541F, 2AFW021B, 2AFW022B, 2AFW082E,			24. DISPOSITION CONCURRENCE		
17. REPORTED BY Robert J. Spivich 1-27-81			18. VALIDATED BY [Signature] 1-29-81		
			21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		
			22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering		
			23. PROJECT ENGINEERING DISPOSITION		
			26. OC ACCEPTANCE		
			OC ENGINEER DATE		
			AUTHORIZED INSPECTOR DATE		



BUCK 16 CONTINUED:

2AFW096B, 2AMU001C, 2AY3114A, 2AY3119A. DUE TO THE EXCESS TENSION
THE QUALITY OF THESE CABLES IS INDETERMINATE.

Q-LIST 3.007

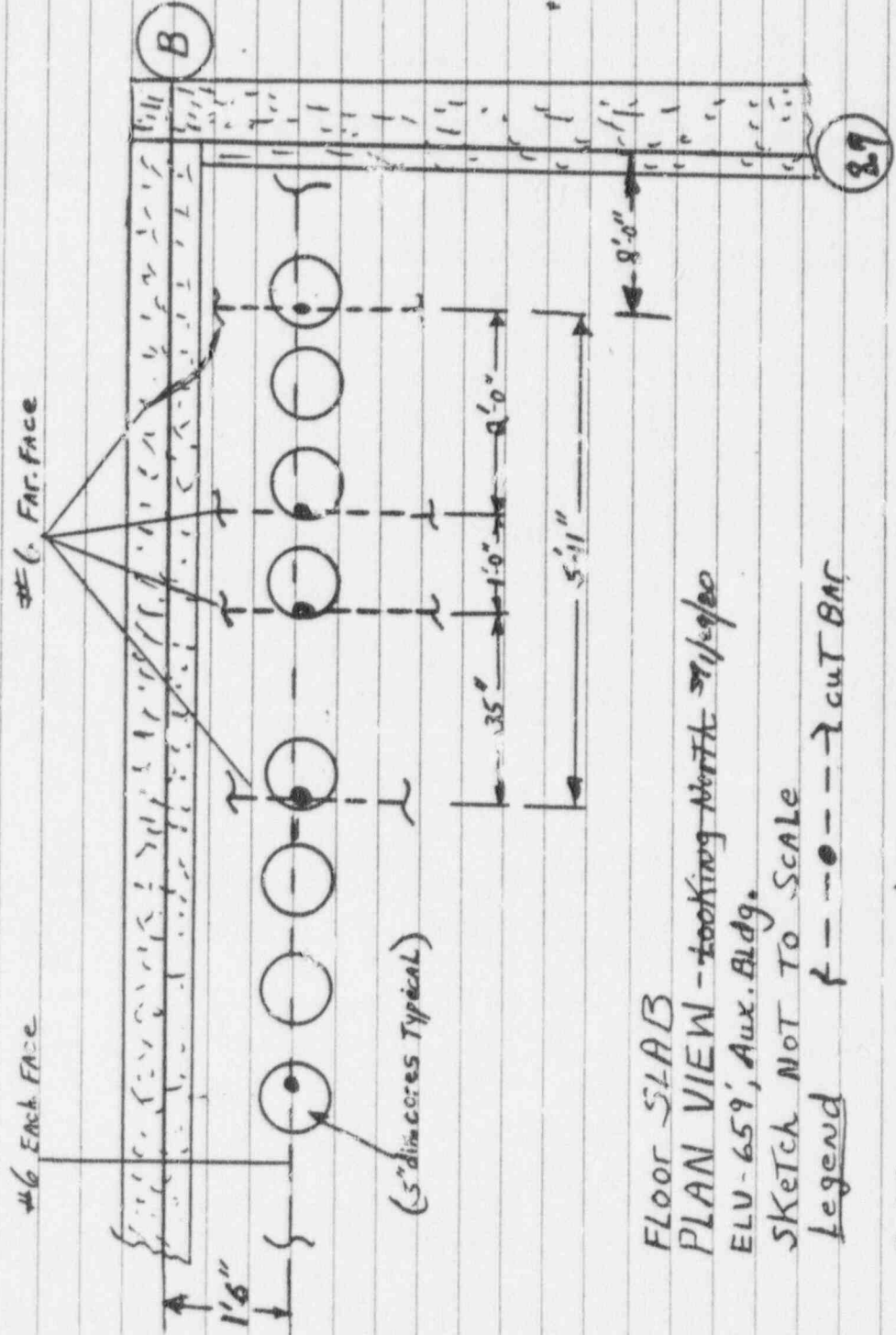
23 HOLD TAGS APPLIED, HOLD FOR ENGINEERING
DISPOSITION

ENO, Steve Payne

NON-CONFORMANCE REPORT

Non-Test Table

1. PROJECT NAME		JOB NO.		19. NO.		PAGE 1 OF 2	
MIDLAND UNITS 192		7220		3273			
2. UNIT(S)		3. DRAWING/PART NO.		4. ITEM DESCRIPTION		5. ITEM LOCATION: Max. 819	
Common		N/A		N/A		SLAB - E1659	
5. P.O. OR SPEC NO.		7. SERIAL NO.		8. REPLACEMENT PART		9. SOURCE	
C-306(2)		N/A		P/N N/A REV N/A		CONSTRUCTION N/A	
11. INSPECTION CRITERIA		12. ASME AUTHORIZED		13. SKETCH ATTACHED		14. Discovers During	
() DWG (X) SPEC () OTHER		IR NO. 2160-308		INSPECTION REQ'D		() Rebar () Test	
		NO. C-306		() YES (X) NO			
16. NONCONFORMING CONDITION:							
Appendix D, section 2.2 states, "In Lieu of section 2.1 above, Two bars may be cut each way, each face, provided the minimum radial distance to the next cut bar in the same face, in the same direction, is at least ten feet. Contrary to this, 4 North-South bars were cut, while core drilling in floor slab, within a ten foot radial distance. QLIST # 1.203, Hold For Engineering disposition. One hold tag applied."							
17. REPORTED BY		DATE		18. VALIDATED BY		DATE	
Jim Helbert		1/27/81		E. Smits		1-30-81	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)							
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering							
23. PROJECT ENGINEERING DISPOSITION							
26. QC ACCEPTANCE							
QC ENGINEER				DATE			
AUTHORIZED INSPECTOR				DATE			



FLOOR SLAB

PLAN VIEW - looking North 7/1/90

ELV - 659', Aux. Bldg.

SKETCH NOT TO SCALE

Legend



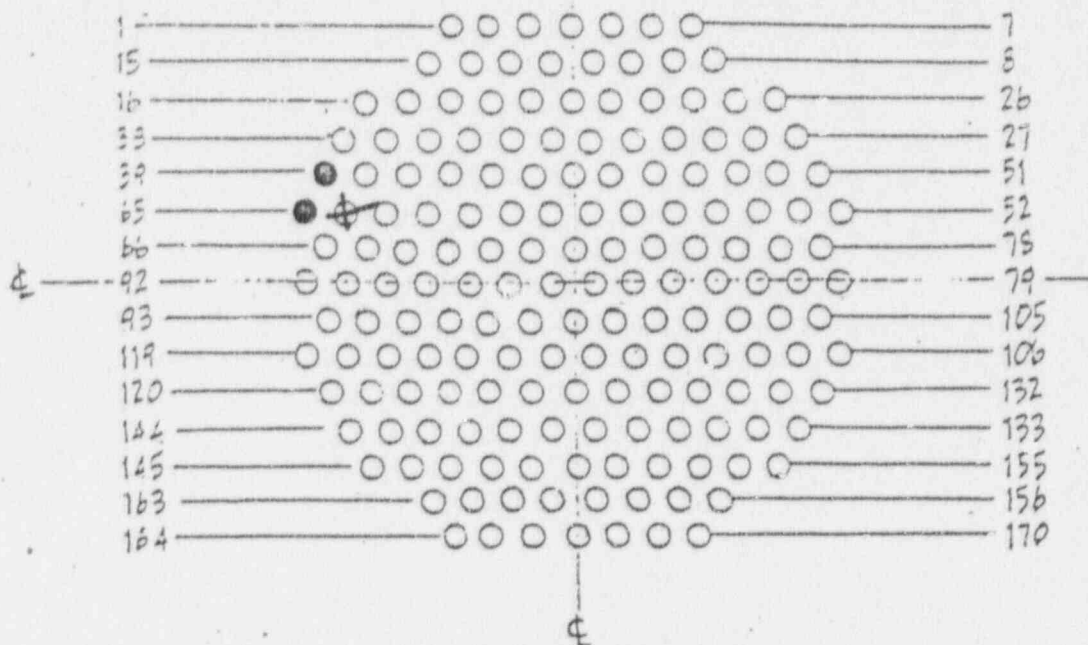
CONTACT, L.E. MORRIS

NONCONFORMANCE REPORT

START - UP - NOW - TESTABLE

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3274		20. PAGE 1 OF 3				
2. UNIT(S) 1	3. DRAWING/PART NO. N/A	4. ITEM DESCRIPTION POST TENSIONING - TENDON WIRE	5. ITEM LOCATION Cut 1 Tendon H21-015							
6. P.O. OR SPEC NO. C-2	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 INRYCO, INC.	11. INSPECTION CRITERIA () DWG () SPEC () OTHER IR NO. C-9.10-231 NU. C-2-146 REV B		12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO X	13. SKETCH ATTACHED () YES () NO X	14. Discovered During () Rec'd () Const () Test X	15. Equip Furnished By () Client () Eng () FLD N/A
16. NONCONFORMING CONDITION: DURING PRELIMINARY STRESSING OPERATIONS ON TENDON H21-015 2 WIRES WERE SHEARED OFF DIRECTLY BEHIND THE SHOP ANCHORHEAD AND 1 WIRE WAS BOUGED APPROXIMATELY 0.007" DEEP. WIRE RATING CRITERIA EW-101 OF SPEC C-2.146 STATES THAT WIRES WITH DEFECTS GREATER THAN 0.005" DEEP SHALL BE REJECTED. A LOCATION SKETCH IS ATTACHED. Q-LIST NO. 1.107, NO HOLD TAGS APPLIED. HOLD FOR ENG. DISP.										
17. REPORTED BY L.E. Morris		DATE 1-30-81		18. VALIDATED BY [Signature]		DATE 1-30-81				
23. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)										
22. () Field Engineering Disposition () Field Engineering Recommended Disposition to "Project Engineering"										
23. PROJECT ENGINEERING DISPOSITION										
26. QC ACCEPTANCE										
QC ENGINEER										
AUTHORIZED INSPECTOR										
DATE										
DATE										

TENDON NO. H21-015



PW-125

SHOP ANCHOR HEAD I.D. MARK

BUTTONHEAD NUMBER	LOCATION OF FAILURE		TYPE OF FAILURE	REMARKS
	SHOP END	FIELD END		
39	X		SHEARED @ BACK OF HEAD DURING	
			BUTTON HEAD SEATING PRIOR TO STRESSING	
65	X		SAME AS 39	
66	X		GOUGE APPROX 0.007" DEEP.	

NCR 337A

Q.C. ENGINEER

K. GUNTER

NCR ~~3274~~ 3273

A CONDITIONAL RELEASE IS GRANTED TO STRESS AND GREASE TENDON H21-015 USING A168 WIRE STRESSING CRITERIA AS PER SPEC C2-146. COMPLETION OF THIS WORK DOES NOT ELIMINATE THE CONDITION DESCRIBED IN BLOCK #16. CORRECTION OR REMOVAL CAN BE ACCOMPLISHED WITHOUT CAUSING DAMAGE OR CONTAMINATION TO ASSOCIATED PLANT EQUIPMENT OR STRUCTURE.

JJ Gilman
PQAE

1/30/81
DATE

59
PQAE

E. G. Smith

1-30-81
DATE

Donald E. Horn
MPQAE

1/30/81
DATE

Donald E. Horn
PQAE

1-30-81
DATE

CLOSED LOG OF NONCONFORMANCE REPORTS

ALL-0
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LOG OF NONCONFORMANCE REPORTS

PROJECT NAME ¹ Midland JOB NO. ¹ 7220 PAGE ⁸ 75

2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
1086	12-5-77	M-209. Shopwelds do not conform as they are specified on the applicable sketch for each hanger.	Use as is Rework	1-5-81	W. Smith
1087	12-5-77	Spec. J-263. Doc. verification package has no Form G-321-D available for Thermowells, incorrect bolts	Doc.-Rework Use As Is	5-4-78	J. Slifer
1088	12-5-77	M-106AC. Shop welds for hangers received are oversized.	Use as is	3-20-78	D. Duff
1089	12-5-77	F-19487. Zone 4 Gravel received had failing gradation test.	Reject	12-29-77	T. Christofferson
1090	12-6-77	C-230. Cement content 5% low of the required tolerance for Batch Ticket #24485. SWI(634.5)b	Use As Is	12-30-77	S. Kirker
1091	12-6-77	C-231. Concrete curing temperature fell below minimum of 50°F. DG(625.5)a	Use as is	Telex 12-16-77 2-1-78	A. Lamach S. Kirker
1092	12-6-77	C-208. User test #48, fine aggregates test failure.	Use as is	3-13-78	T. Lieb
1093	12-6-77	M-203. Shopwelds on hangers do not conform as they are specified on the applicable sketch for ea. hanger	Rework Use as is		
1094	12-7-77	C-210. 4A backfill sampled had 94% passing the 1/2" sieve exceeding the allowable limits.	Use As Is	Telex 1-25-78 2-2-78	T. Lieb T. Lieb
1095	12-7-77	C-230. Concrete placed with high slump. A(688.5)a'	Use As Is	1-13-78	B. T. Cheek
1096	12-7-77	C-230. Failing gradation for 3/4" aggregate, pours A(624)a, A(643.67)a'	Use As Is	1-13-78	B. T. Cheek
1097	12-9-77	M-64. Documentation packages for tanks received w/o weld maps, weld rod control records, cleaning doc.	Doc.-Rework	1-17-78	D. Delaney
1098	12-9-77	M-204. Arc strike on spool 2HCB-20-S613-3-4.	StdRepair	1-9-79	E. Urbanawiz
1099	12-9-77	C-231. Concrete on cure, temperature of 23°F recorded Service Water Discharge structure.	Use As Is	Telex 1-17-78 1-24-78	S. Kirker D. O. Osborn
1100	12-9-77	C-111. Grinder left depression on penetration 2Z-51, Unit #2, 625'6" Az-297°	Std. Repair	2-11-78	J. C. Huron
1101	12-9-77	C-143. Replacement rebar left out near penetrations sleeves 24 and 31, Aux Bldg Elev. 584'	No Nonconformance	1-3-78	D. L. Osborn
1102	12-12-77	M-305. Service rating on pipe plug stamped as 6000# quality Verification Doc. indicates it to be 3000#	Reject	2-3-78	T. Christofferson
1103	12-12-77	M-305. Heat code on 62 pcs. of 3/4" 150# CS SW flange illegible.	Reject	6-2-78	D. Delaney
1104	12-12-77	M-215. 10" 90°LR Ells delivered to the jobsite w/o Certified MTRs, X-ray film, and code stamp.	Reject	2-6-78	D. F. Duff

LOG OF NONCONFORMANCE REPORTS

PROJECT NAME ¹ Midland JOB NO. ¹ 07220 PAGE ⁸ 122

² NCR NO.	³ DATE	⁴ NONCONFORMANCE DESCRIPTION / REMARKS	⁵ DISPO.	⁶ DATE NCR CLOSED	⁷ CLOSED BY
1972	3-19-79	E-2.1 Cable Tray Seismic Support I Beam, steel added to floor beam has incorrect detail.	Repair	2-20-80	D. Squires
1973	3-19-79	F-34094 22 Control Switches, no statement of conformance was received with these items.	Doc. Rework	3-23-79	T. Estes
1974	3-19-79	A-41 Coating Repair-Galvanized Steel, items are being coated with LPS-heat resistance instant cold cont. galvanized without surface preparation	Use As Is	1-10-80	S. Gelnett
1975	3-19-79	PSP-G-1.1 Grouted Equipment Pads, were grouted without Quality Control Inspections.	Use As Is	11-2-79	S. Gelnett
1976	3-19-79	E-47 Class 1E and Non-Class 1E Cable not employing separation of six inches where cable enters through floor.	Rework	1-23-81	H. Waatti
1977	3-19-79	P-1.30 Valves : 1mo-0316&2mo-0416 manufactures instructions for installation were not followed.	Use As Is	1-11-80	C. Spinks
1978	3-19-79	E-42 Conduit Supports, has been attached to a wall with 1/2" drop-ins and over size washers.	Rework	9-13-79	C. Cameron
1979	3-20-79	M-204 Spool # 2HBC-151-s-617-8-2 shows it being Grinnel fabricated spool in actuality its incorporated pup piece, ht. #15501	N/A	5-9-79	T. Aritola
1980	3-20-79	PSP-3.2 Work-Through NCR1949 work was preformed on conduit support after this NCR was written.	Use As Is	6-27-79	D. Squires
1981	3-20-79	E-42 Conduit Supports are installed with supports that are not approved by E-42, or any of the latest drawings.	Rework	10-1-79	D. Squires
1982	3-20-79	M-204 Drain & Inst. Connections do not have same configuration as shown on the drawing.	Rework	9-26-79	E. Urbanawiz
1983	3-20-79	E-34 Temporary Blockout-B.W. #15 was installed with no FCN issued.	Doc. Rework	6-8-79	R. Harvey
1984	3-20-79	M-204 Drains Vents, & INST, Connections, do not have same configuration as shown on drawing.	Rework	10-4-79	E. Urbanawiz
1985	3-20-79	M-204 Drain & Vent Connections, do not have same configuration as shown on the drawing.	N/A	10-1-79	E. Urbanawiz
1986	3-21-79	M-204 Spool no. 1HEC-96-s-619-5-3 shows to be a grinnel fabricated spool, actually a puppc, ht. #27733 incorporated into spool.	N/A	5-9-79	T. Aritola
1987	3-21-79	M-204 2HBC-110-s619-2-14 spool has a ground area where an ARC strike was previously.	Std. Repair	9-21-79	J. Hamler
1988	3-21-79	C-304 Seismic Box Support Box #2BJ371 has wrong dimension.	Use as is	6-12-79	D. Squires
1989	3-22-79	C111 Unistrut Welded to liner plate, was welded without project approved drawing.	Use As Is	11-29-79	D. Squires



LOG OF NONCONFORMANCE REPORTS

PROJECT NAME ¹ Midland JOB NO. ¹ 07220 PAGE ⁸ 127

² NCR NO.	³ DATE	⁴ NONCONFORMANCE DESCRIPTION / REMARKS	⁵ DISPO.	⁶ DATE NCR CLOSED	⁷ CLOSED BY
2062	4-12-79	E-33375. Pipe mat'l bent upon receipt, marking of pipe illegible and unreadable, heat no. not traceable	1. Use As Is 2. Reject	2-12-80	R. MacGlashan
2063	4-12-79	Hanger U-619-4-8. 6"-WF beam bent, indentation in hanger leaving the integrity indeterminate.	Use As Is	7-20-79	L. Brown
2064	4-12-79	M-1.2. 14" Reactor Vent Valves received without documentation or other identification.	N/A	5-14-80	D. Delandy
2065	4-13-79	M-204. Spool 2ELB-10-S632-1-9 under visual inspection was found to have laminations over 40% of the weld end portion.	Use As Is Repair	3-7-80	F. Mahala
2066	4-13-79	M-204. ISO 634 sh.1. spools do not have the same dimensional configuration as the Bechtel Iso.	Rework	10-1-79	E. Urbanawiz
2067	4-13-79	M-204. M-512 sh.3. Pup piece attached to flued head. temp. fit-up lugs ground off violating min. wall reqm'ts.	Std. Rework	5-18-79	D. Fredianelli
2068	4-13-79	Dwg. E-614. Conduit support installed without a project approved drawing.	Rework	7-12-79	D. Squires
2069	4-13-79	Dwg. E-614. 8 supports constructed of P1001 unistrut were installed w/o prior engineering approval.	Use as is	7-14-79	D.C. Squires
2070	4-13-79	E-614. Project approved dwg. cannot be located for the installation of type 16 SIM conduit supports.	Use As Is	11-6-79	D. C. Squires
2071	4-13-79	E-614. Conduit supports constructed with incorrect unistrut	Use as is	7-16-79	D. Squires
2072	4-16-79	E-510. Conduit 2BA074 has a stream of water flowing from it.	Repair	3-12-80	C. Bawtinheimer
2073	4-13-79	Dwg. C-192. Welding on Installed monorails has several discrepancies.	1. Rework 2. Use As Is	12-3-79	S. Gelnett
2074	4-16-79	Hanger 1-633-1-22. As built condition is not per pipe support design dwgs. portion of hanger is ID'ed as non-Q	Rework	8-24-79	L. Brown
2075	4-16-79	Dwg. E-732. 1/2" stud anchors have been installed on tray supports rather than the required 5/8"	Use As is	6-18-79	D. Squires
2075	4-16-79	M-1.45. Immersion Heating Element cannot be traced to the documentation.	N/A	9-24-79	R. Valentine
2077	4-16-79	E-3149. Grout failed to reach the required compressive strength at 3 days.	Use As Is	5-9-79	M. Moore
2078	4-17-79	Hanger 2-657-41-20. Hanger installed with angle that cannot be traced to a certificate of compliance.	Rework	11-16-79	E. Urbanawiz
2079	4-17-79	Spool 1CCB-70-603-3-8 has been installed with a 2" sockolet instead of the required reducing ins.	Rework	1-28-81	R. Amos

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PROJECT NAME ¹ Midland JOB NO. ¹ 07220 PAGE ⁸ 133

2 NCR NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
2169	5-8-79	E-617 Sh. 2. Four additional conduit supports installed for 2AKA012 thru 2AKA017 were not as shown in drawing.	Repair	3-12-80	I. Mann
2170	5-8-79	M-619 Sh. 3. Spool 2HBC-120-S619-3-1 has a gross amount of concrete on the 90° elbow.	Rework	9-28-79	D. Fredianelli
2171	5-8-79	E-42. Type 11 Conduit support has been installed with P1001A3 substituted for P1000 and P3300.	Rework	2-28-80	C. Cameron
2172	5-9-79	F-27952. Fittings certified to ASTM-A276-73 rather than ASME-SA-479 as called out by PO.	Doc. Rework	8-22-79	M. Moore
2173	5-9-79	OUM-01A & OUM-01B, Air Handling Units, released from storage without megger testing the motors.	Doc. Rework	2-20-80	F. Mahala
2174	5-9-79	C-383. Structural steel beam to the north of the reactor headstand opening at El. 656-9 exceeds tolerance of error.	Repair Use As Is	6-22-79	L. Harrison
2175	5-9-79	E-22. 350 MCM 3/C B-11 Cable, several reels are indeterminate on the basis of sampling or use.	Use As Is & Repair Doc. Rework	Rework	
2176	5-11-79	J-201. Dwg. 540. Control Panel, 1C14, five wire terminations loose from soldered connection to individual switches.	Rework	11-25-80	A. Lobrovich
2177	5-11-79	M-326. Hangers are indeterminate because heat no.'s are not traceable to doc., incorrect or illegible numbers.	Rework Use As Is	1-28-81	E. Urbanewiz
2178	5-11-79	M-1.35. Documentation not available for Differential Pressure Transmitters.	Doc. Rework	3-5-80	D. Delaney
2179	5-12-79	M-614 Sh. 10. Valve, 12"HCC-GT-RL, below FW #6 a depression leaves wall thickness indeterminate.	Repair	9-13-79	J. Hamler
2180	5-14-79	E-640 Sh. 2. Conduit/box support installed without adequate prior approval or documentation.	Use As Is	6-4-79	C. Cameron
2181	5-14-79	E-624 Sh. 2. Tray support has been installed with continuous across the flange welds.	Use As Is	9-17-79	C. Cameron
2182	5-14-79	A-41. Faint Storage Area, no temperature readings available for 5-12-79 thru 5-14-79.	Use As Is	5-14-79	S. Kirker
2183	5-14-79	E-532. Motor Control Centers, units installed back to back; rear & top compartments rendered inaccessible.	Reject	8-31-79	A. Lobrovich
2184	5-14-79	F-3107, C-233. Vendor, NPS, discrepancies in NDE reports and inspection processes not documented per requirements.	Use As Is	1-11-80	S. Kirker
2185	5-14-79	E-532. Panelboards, CDP, 1 & 2D20, four additional holes for anchors drilled not required by drawing.	Use As Is	1-31-80	C. Spinks



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2255	6-11-79	E-657 Sh. 1. Conduit support LBVA007 welded, welder's WR-6 form for that day shows his work as being non-Q.	Use As Is	3-19-80	J. W. Millier
2256	6-13-79	F-32165. Rear brackets and rod ends of sway struts rec'd. welded in place; P.O. require them to be banded.	Reject	7-6-79	R. Valentine
2257	6-12-79	C-110. Liner Plate Coating. Coating being applied to welds and liner plate surface. Welds w/ no surface preparation.	Rework Use As Is		
2258	6-12-79	M-154AC. HVAC Isolation Valves, discrepancies in documentation; no item no.s on some doc., G-321-D partly illegible	Doc. Rework	8-13-79	R. Mac Glashan
2259	6-12-79	F-33741. 20 Resistors received on AEO-9721 have no traceability to P.O., packing slip or markings on material	Reject	8-4-79	R. MacGlashan
2260	6-13-79	M-104AC. Four pieces of 24" pipe received on AEO-9699 have no line designation data marked on it.	NA	11-6-79	M. Moore
2261	6-13-79	C-305. 6" anchors delivered without traceability to Form G-321-D and Certificate of Compliance.	Doc. Rework	8-30-79	R. Valentine
2262	6-13-79	M-1.16. RCS Makeup Pumps delivered from vendor do not have nameplates which are required.	Use As Is	1-12-81	A.M. Lobrovich
2263	6-14-79	Hanger JHBC-196-2-H4, wrong diameter expansion anchors used for installation; also does not meet min. embedment requirements.	Rework	9-13-79	E. Urbanawiz
2264	6-14-79	E-205. 4160 Switchgear, rodents have chewed & bared wiring to CT's and control switches.	Rework	8-17-79	George Young
2265	6-14-79	M-618 Sh. 1. C/S pipe; butt welds are not full penetration, weld is not completely fused around the joint.	Rework	9-17-79	S. Hamler
2266	6-14-79	E-617 Sh. 2. Conduit support, type 12, installed with P1001 instead of the required P1001A3.	Rework	10-19-79	D. Hallenbeck
2267	6-14-79	E-617 Sh. 2. Conduit support, type 12, to be installed with 2"x 2"x 1/4" tube steel (min.), field used P1001.	Rework	1-4-80	C. Mann
2268	6-14-79	F-30537. A portion of the studs received have no identification marking, the majority have illegible markings.	Reject	2-18-80	D. Delaney
2269	6-15-79	M-167. Service Water Piping 26" OHBC-54, wall thickness indeterminate, soil sample drill bit hit this line.	Std. Repair	8-28-79	L. Brown
2270	6-15-79	E-900. Termination was made with 2BD2001AP as positive and 2BD2001X as negative which is not as required by dwg.	Rework	11-9-79	K. Drew
2271	6-15-79	F-36480. Bolts received on AEO-9874 received with no marking at all on the bolt heads.	Reject	9-4-79	M. Moore

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2328	7-9-79	C-24. Sluice gates w/ lifting operators released to construction without maintenance compliance to FPG 5.000.	Use As Is		
2329	7-9-79	CRD Primary AC Breakers, dehumidifiers have not been properly maintained, causing oxidation of bolt holes on bus bars of panels.	Rework	2-26-80	E. Urbanawiz
2330	7-9-79	Concrete slab at 628'6", rebar cut (no. 11).	Std. Repair	11-19-79	S. Gelnett
2331	7-10-79	Check Valve 2 1/2" CCB-CK-L (403-2-061), both hinge pin covers & hinge pins disassembled without use of field instruction FIP-2.112.	Rework	1-29-81	R. Amos
2332	7-10-79	M-1.7. T-304 SS Safety Wire delivered without documentation.	Doc. Rework	1-28-80	D. Delaney
2333	7-10-79	M-1.1. Dowels for DRDM indexing hole Mod. FCA-34 received without documentation.	Doc. Rework	7-25-79	A. A. Delaney
2334	7-10-79	J-256AC. Solenoid valve, tag # 2SV-3969A, received with name-plate marked with incorrect serial number.	Doc. Rework	8-23-79	T. Estes
2335	7-10-79	QHBC-17-619-8-1, pipe spool damaged, has an arc strike approximately 7/8" in diameter.	Std. Repair	10-10-79	C. Fugate
2336	7-10-79	F-27952. 48 ea. 3/4" to 3/8" socket weld tube reducer, are not marked with alpha-numeric code B-31.	Doc. Rework	11-19-79 11-12-79	R. Mac Glashan
2337	7-10-79	E-12AC. 125 volt station battery, supplier release twx and quality verification documentation not received.	Use As Is	11-13-79	R. Montreuil
2338	7-11-79	C-306. Rebar (#11) was cut at the top of D/5.6 pilaster while core drilling for hanger.	Use As Is	1-11-80	G. Cheves
2339	7-11-79	Spec. M-342. Q piping & components have a gross amount of concrete, also within pipe spool 1FCB-19-610-7-8.	Rework	12-14-79	F. Mahala
2340	7-12-79	C-306. Grouted anchor bolts for hanger in concrete block walls, contrary to spec. requirements.	Rework	11-14-79 11-12-79	P. Haren
2341	7-12-79	Hanger 8" 2GCB-15-H21, sketch shows part 4 attached to part 2 with fillet welds; part 5 attached to part with no weld symbol.	Rework	10-1-79	E. Urbanawiz
2342	7-12-79	F-3107 Rev. 24. G-321-D form received with documentation for the restraint material received on AEO-9/64 is from Rev. 14 of Spec. C-233	Doc. Rework	8-17-79	M. Moore
2343	7-13-79	Dwg. FSK-M-1HBC-207-1, 3/4" globe valve is inoperative due to piping insulation interference.	Rework	1-16-80	E. Urbanawiz
2344	7-13-79	E-750 Sh. 1, Anchor center to center spacing do not meet requirements of Spec. C-305.	Rework Use As Is	10-16-79	R. Amos
2345	7-14-79	Dwg. E-611. Conduit Installation 1BJE902. Conduit has total of 405' between pulling points. Anchor bolts do not meet dwg. dimensions.	Rework	1-30-80	C. Cameron
2346	7-14-79	Dwg. M-631 sh. 3. Block welding done pipe spool 1ELB-12-631-3. This is not permitted by Spec. G-27 and M-204.	Use As Is	11-12-79	E. Urbanawiz

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2841	1-7-80	C-2. Manufacturing defect (brush tearing marks) in tendon H32-237.	Reject Use As Is	2-13-80	P. Vanderveer
2842	1-7-80	Cont. 2, C-2 "Y" device not used to install grease in horizontal tendon (per installation manual instruction)	Use As Is	2-11-80	S. Kirker
2843	1-10-80	F-44393. Material delivered on this P.O. did not conform to requirements of P.O.	Doc. Rework Use As Is	3-13-80	J. Kramer
2844	1-10-80	M-619 Sh. 2. Pipe Spool 2HCB-90-619-2-1 has a large arc stike contrary to Spec. M-204.	Std. Repair	3-7-80	C. Fugate
2845	1-11-80	M-131AC. Valves received on AEO-11450 have discrepancies on G-321-D.	Doc. Rework	2-11-80	R. MacGlashan
2846	1-11-80	E-39933. Flanges received have a 1/8" deep cut.	Reject	2-25-80	F. Kanchwala
2847	1-14-80	M-617 Sh. 4. Incorrect size coupling welded to pipe spool 2CBB-617-4-2F at FW #221.	Use As Is	4-24-80	S. Schumitsch
2848	1-14-80	FSK-DVI-619 Sh. 1-2-3-18 Undersize socket welds.	Rework Std. Repair		
2849	1-14-80	Dwg. M-610-4. Drain Conn. #11; linear transver crack in weldolet contrary to Spec. M-204.	Reject	1-6-81 3-10-80	C. Fugate F. Mahala
2850	1-14-80	E-613. Motor operated valve, 1MO-1020A, does not meet minimum clearance requirements; no torque settings stamped on valve.	1 N/A 2 Rework	3-28-80	F. Mahala
2851	1-14-80	E-612. motor operated valves, 2MO-0428 & 29, 2MO-0430A & B. no torque switch settings stamped on valve contrary to Spec. G-9.	N/A	3-19-80	F. Mahala
2852	1-16-80	C-2. One wire of Tendon H13-201 was found with two ricks or indentations approx. 21" from end of the unbuttonheaded wire.	Reject Use As Is	1-29-80	P. Vanderveer
2853	1-16-80	F-38780. Certificate of compliance for item 12 of P.O., 6" nuclear fittings, refers to wrong revision of Spec. M-215.	Doc. Rework	1-28-80	J. Kramer
2854	1-16-80	F-44014. AC Ammeter received are type G.E. 251; should be type G.E. 51.	Not An NCR Condition	2-7-80	D. Delaney
2855	1-16-80	One wire on tendon H21-251 bent less than 1/2" radius during insertion contrary to Field Installation Manual C2-146.	Butto heads Rework Wire Reject	2-14-80	K. Gunser
2856	1-16-80	Concrete cure for Rm. 11 Bay 2 & Rm. 19 Bay 3 was not started until 3 days after placement contrary to Spec. C-231.	Rework	2-8-80	S. Kirker
2857	1-17-80	During buttonheading of tendon H13-205, 2 wires have nicks or gouges contrary to Field Installation Manual C2-146.	Reject	2-7-80	P. Vanderveer
2858	1-17-80	J-242AC. Venturi tubes, 1FE3803 & 2FE3903, RT vendor film problem film returned to vendor leaving QVD packages onsite incomplete	Doc. Rework	2-19-80	D. Delaney
2859	1-18-80	Socket welds undersized and also other discrepancies per spec. G-27.	Rework	2-22-80	G. Sweet

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2993	5-2-80	PCR-C-2419 shows rebar to be cut while core drilling penetrations; penetration at El. 669'8" has 2 horizontal bars cut instead of one.	Use As Is	6-5-80	S. Gelnett
2994	5-2-80	C2-146 Post Tensioning, tendon V107 has three broken wires during stressing.	Use As Is	5-15-80	P. Vanderveer
2995	5-5-80	E-655 Sh. 1. Two P1000 strut supports for 1CJ620 is welded with 3/16" continuous fillet welds, across flange contrary to E-42.	Use As Is	5-29-80	J. W. Miller
2996	5-8-80	C-305. A vertical bar was cut 8'4" away from two other cut vertical bars which is contrary to spec.	Use As Is	6-26-80	S. Kirker
2997	5-8-80	C-2AC. No documentation received for field bushings, nor MRR showing receipt of the bushings.	Doc. Rework	7-1-80	R. MacGlashan
2998	5-8-80	E-650 Sh. 1. 6" conduit 2BVA002 is less than 1" from a non-Q listed conduit which is contrary to spec. E-42.	Rework	7-3-80	J. W. Miller
2999	5-12-80	Spec. C-83. During a reading of the inline flowmeter, the meter was found not functioning properly.	Use As Is Repair 1	2	
3000	5-15-80	Spec. C-304. Bolt holes burned on pipe restraints 611-1-24 & 611-1-29 to a diameter equal to or exceeding final diameter	Repair	9-16-80	S. Gelnett
3001	5-15-80	Spec. G-27. Socket weld #3 on FSK-M-2CCC-15-2 has scribe lines.	Rework	6-10-80	F. Mahala
3002	5-20-80	Spec. C-306. 3 east-west bars cut while core drilling for grouted anchor bolts for pipe hanger 633-2-17, 1HBC-322-H8.	Repair Use As Is	1-05-81	P. Vanderveer
3003	5-20-80	F-45770. High speed auxiliary relay, has no statement of conformance which is required by Spec. G-33.	Doc. Rework	6-6-80	J. Kramer
3004	5-22-80	Dwg. 533. Vendor termination OVM94A & OVM94B; conductors are nicked or cut.	Rework		
3005	5-23-80	F-46088. Master Builders 814 cable grout; no final results of the compressive strength or the shrinkage tests have been received.	Use As Is	8-26-80 9-3-80	B. DeArmond
3006	5-27-80	F-44893. Hex head bolts; no charpy v-notched tests received for bolts, several pieces have injurious surface defects & thread damage.	Doc. Rework Reject		
3007	5-27-80	F-45514 requires spare parts furnished per original Spec. M-123A & P.O.; this spec. leaves doc. for spare parts indeterminate.	Doc. Rework	8-18-80	J. Kramer
3008	5-27-80	F-45796 requires spare parts furnished per original Spec. M-123B & P.O.; this spec. leaves doc. for spare parts indeterminate.	Doc. Rework	11-5-80	J. Kramer
3009	5-27-80	F-44060 requires spare parts furnished per original Spec. M-117 & P.O.; this spec. leaves doc. for spare parts indeterminate.	Doc. Rework	8-18-80	J. Kramer
3010	5-27-80	F-45567 requires spare parts furnished per original Spec. M-125B & P.O.; this spec. leaves doc. for spare parts indeterminate.	Doc. Rework	11-5-80	J. Kramer
3011	5-27-80	F-45566 requires spare parts furnished per original Spec. M-123B & P.O.; this spec. leaves doc. for spare parts indeterminate.	Doc. Rework	11-5-80	J. Kramer

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3108	9-8-80	Hanger 6" 2EBB-13-H9R #1 4" stroke Fig 306 Mechanical Shock sup- pressor is of indeterminant integrity and possibly damaged			
3109	9-8-80	Dwg. Sk 2-604-3-18 the south sway strut for the self-aligning bushing is partially knocked out of place.			
3110	9-8-80	Dwg. 618-1-8, 618-1-9, 618-1-10, & 618-1-12 all have sway struts of indeterminant integrity and possible damage			
3111	9-9-80	M-379 C P. O. Spec. 132 Non drawings or instructions or G-321-D documentation have been received.			
3112	9-9-80	Spec. C-230 9 yds of concrete exceeding the allowable limits by 1/2" were placed in pour #Y(628.42)8'.	Use As Is	1-9-81	L. May
3113	9-11-80	2" Dia. Engine bolt for Diesel Eng. 1G-11 has numerous gouges	Use As Is	11-25-80	C. Fugate
3114	9-11-80	ASTM- C31-69 During curing of concrete specimens temp. exceeded required temp.	Use As Is	12-03-80	E. DeArmond
3115	9-10-80	E-7-AC, 125 volt D.C. Relay found damaged during inspection	Reject	11-3-80	J. Kramer
3116	9-11-80	Pipe spools 1FCB-42-S610-4-4,-3 & 2FCB-42-S611-4-3,-5 do not have code data reports nor "N" stamp on code data nameplates. Spec M-204	Rework	1-29-81	R. Amos
3117	9-12-80	Expansion Anchors for conduit supports are 2 3/4" center to center spacing when requirements are 4". Spec C-305	Rework		
3118	9-15-80	Spec C-230 Concrete slump, retest of working limits was found to be exceeding maximum of 5".	Use As Is	12-12-80	P. Vanderveer
3119	9-17-80	Spec M-204 Piping Drain Connection #4 as shown on FSK-DVI-M-610-3 Rev 1 & FSK-M-610-3 #4 Rev 0 was not inspected for cleanliness prior to instl.	Use As Is	11-3-80	R. Moray
3120	9-17-80	Per FPG-2.100 Center to edge & center to center spacing for instal anchors is not within requirements (E-642 Sh. 2)	Use As Is	12-02-80	D. Presslar
3121	9-17-80	F-45750 Requires spare parts furnished per original Spec. M-125A and P.O.; This spec leaves Doc. for spare parts Indeterminate	Doc. Rework	10-16-80	F. Kanchwala
3122	9-17-80	C-2022 Borros Anchors have no Doc. weekly readings as required by DCN #2 of Drawing.	Use As Is	1-27-81	J. Sercu
3123	9-18-80	C-305 Four Horizontal Ba. cut within a 4' to 2 1/2" radius which is contrary to Spec. Requirements	Use As Is	1-16-81	T. Gilnett
3124	9-19-80	Vertical Tendon Filling, V28-1, Requirements not met per C2-146, Q.C. could not verify waste Mat'l in grease or record temp. of grease	Use As Is	12-11-80	P. Vanderveer
3125	9-19-80	Contrary to Spec C-2, V40-1, has evidence of a leak of Tendon Filler Material through seam weld on the cap's tube	Rework	12-11-80	K. Gunser
3126	9-19-80	M-018, Rotor, 1G-11, damaged during transportation from warehouse to Diesel Generator Building.			

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3146	10-2-80	Temp. Closure Plates for 4 18" spools were not Doc. on separate QCIR's for installation and removal	Rework		
3147	10-3-80	Sampling/Fabrication of fresh concrete, contrary to ASTM C172-71, 20 min. wait between composite sampling & molding of specimens	Use As Is		
3148	10-3-80	Concrete material proportions, the cement & the cement & Pozzolan was below required amount per C-94-78a	Use As Is	12-17-80	B. DeArmond
3149	10-3-80	M-1.1b. During an inspection, a leak was found in Lube Oil Cooler for 2P-58A			
3150	10-3-80	Embedded conduit 2AA055 was found damaged by Core Drilling in Cont. #2	Std Repair	10-28-80	J. W. Miller
3151	10-2-80	F-47666, P.O. Item #9, Transformers JAK-0 have no Certificate of Conformance, and is required per G-33 Rev. 12	Rework	10-27-80	J. Kramer
3152	10-2-80	E-22 Contrary to Hold placed on Q cables for scheme # 1BD2001AD, 1BD2001AC, 2BD2001AA, 2BD2001AC, & 2BC2001AD have been installed	Use As Is	1-05-81	J. Lange
3153	10-3-80	ASME NB-4411 Sect. 3, Contrary SW#1 completed without Q.A. Record to identify and control filler material or weld process	Rework		
3154	10-6-80	During a Hydrostatic test on spools LHCC-35-S-603-15-4 & 6 Two shop welds were found that were not on ISO drawing M-603 SH 15 Rev. 7/F2	N/A	01-9-81 12-1-80	C. Fugate W. Greel
3155	10-6-80	Spec M-481 SH 100B, contrary to spec., Drain Connection #1 on FSK-DVI-M619-18 was installed using a half coupling on FW 11.	Use As Is	01-30-81	R. Kramer
3156	10-7-80	M-18, Rotor, 1G-12, damaged during installation			
3157	10-8-80	Dwg. C-2022, During temp. dewatering, settlement monitoring is required. Soil monitoring devices not read from 8-29-80 on.	Use As Is		
3158	10-8-80	M-118B, Valves 2XV-3966A1P & 1XV-3866B1P have corrosion, rust & scaling of the valve internals	Rework	11-18-80	C. Fugate
3159	10-8-80	F-31122, Structural backfill received on AEO-13773 was not tested by contractor as required per Spec. C-211	Use As Is	12-17-80	D. Delaney
3160	10-8-80	E-756 SH 1 & E-751 SH 2, 3/4" Hilti Drop In Anchors no installed with edge to edge distance as required by FPG-2.100			
3161	10-8-80	Dwg. FSK-MPY-153, Thermowell supports for temperature elements not installed per drawing detail			
3162	10-8-80	E-650 SH 1, Type 12 & 14 conduit supports & type 9E box support installed on misc. steel contrary to E-42	Reject		
3163	10-9-80	Supports on Dwg. FSK-CA-2213 were welded by Standish welders S-2, S-5, & S-7 who are not qualified on only 3/8" plate per ASME	Use As Is		
3164	10-9-80	Dwg. M-166, 4" ODBC-1 Subassembly from FW 150 to 166 released from field shop without A.I. signature	Doc. Rework	10-10-80	M. Meeks

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3184	10-28-80	E-603 Sh. 1 Expansion anchors not installed for center to embed requirement per F.P.G. 2.100 Rev 0			
3185	10-28-80	E-20 Rev 6 F-46295Q No certificate of conformance has been received for purchase order Item #1, Junction box top panel	Doc Rework	11-11-80	J. Kramer
3186	10-29-80	Cables for scheme no. 2AA0511W, 2AQ215A-2AQ392B and 2AQ393B is indeterminate, the cable was not witnessed by QC during installation	Rework	12-31-80	J. Lange
3187	10-29-80	M-204 Installed valves 414-052 & 414-066 are identified on dwg M-614-8 Rev 107F2 as HCC-GT-L but should be HCC-GT-RL			
3188	10-29-80	Spec M-326 hanger 10"-1FCB-34-H1, ITT Grinnell sway strut was installed with disengagement of the self-aligning bushing			
3189	10-29-80	Spec M-214 closure point AT-FW-#9 was not evaluated for alignment prior to the weld	Doc Rework		
3190	10-29-80	C-2 Post tensioning vents and drain for H13-010-H13-030 & H21-028 were installed improperly or not installed at all			
3191	10-31-80	E-656 Sh 2 A type 16 conduit support on 1DG018 cross flange stitch weld w/5/16" & larger fillet welds contrary to Spec E-42			
3192	10-31-80	E-768 Cable tray supports installed to building structure beams with cross flange welds contrary to Spec-C-304	Use As Is	1-9-81	J. Durham
3193	10-31-80	E-728 Tube steel attachment to building structural beams steel made by cross-flange welds contrary to Spec-C-304	Use As Is	1-15-81	J. Durham
3194	11-03-80	F-46351 No certified material test report of charpy V-notch impact test report have been received Contrary to Spec-G-33	Reject		
3195	11-03-80	Dwg C-1148 Daily readings on tanks 1T-60 & 2T-60 were not taken on October 18 and 19	Use As Is	12-31-80	J. Sercu
3196	11-03-80	Hangers 1-612-5-33 & 2-613-2-4 excessive shrinkage of the pipe caused flattening of pipe in stress of attachment welds			
3197	11-5-80	F-47860 Bolt heads were received with no marks to identify manufacturer	Reject	11-18-80	F. Kanchwala
3198	11-05-80	F-47349 Phoenix Steel Corp. is not qualified by ASME or Bechtel for NA-3700 quality program - carbon steel products are indeterminate	Reject	12-16-80	M. Slocumb
3199	11-06-80	Dwg. 1-638-14-19 No apparent QC inspection of expansion anchors or drilling of holes for anchors Embedment length was not met			
3200	11-06-80	F-32165 Sketch 2-604-3-34 Sway strut has a self-aligning ball bushing which is loose	Reject	12-09-80	W. Smith
3201	11-06-80	Rotor (2G-12) was damaged during storage			
3202	11-07-80	Dwg 1-610-6-22 There is no record of QC inspection of the grouting of hanger 1-610-6-22 anchors rendering them indeterminate			

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² NRC NO.	³ DATE	⁴ NONCONFORMANCE DESCRIPTION / REMARKS	⁵ DISPO.	⁶ DATE NCR CLOSED	⁷ CLOSED BY
3203	11-11-80	Contrary to Spec. A-15 four units of Nukem 109 Nu-Klad Filler compound-Batch #810235 with older shelf date than spec. allows.	Reject	1-27-81	F. Kanchwala
3204	11-11-80	F-47869. Upon inspections of subject flanges 4 of 8 pieces were found to be damaged on raised face sealing surface.	Use As Is		
3205	11-12-80	Contrary to Spec. C-231 containment 2 dome repair CC(778)c had one recording of accumulative time below 50°F of 16 hours.	Use As Is	1-07-81	S. Gelnett
3206	11-13-80	Dwg. M-657-45. Two welding IRs were generated for weld 113A and is also located in two places.	Use As Is		
3207	11-13-80	F-47527. Contrary to G-33, the material test report received for the clevis mat, received on AEO-13794 does not have physical prop.	Reject	12-24-80	R. MacGlashan
3208	11-13-80	Dwg. M-619-7 Rev. 8/F2 was completed without obtaining the necessary AI action.	Use As Is		
3209	11-18-80	Dwg. M-603-18. Contrary to PQCI W-1.00 FW 23 was completed with no PQCI W-1.00A being issued.			
3210	11-19-80	Contrary to Spec. C-2, during the buttonheading process on H13-041 one wire was sheared in half by the buttonhead machine.	Reject	12-06-80	P. VanderVoer
3211	11-18-80	Contrary to Spec. C-208, on 11-16-80 tank #8 had a temperature of 69°F exceeding the minimum temperature by 1°F.	Use As Is	1-13-81	B. DeArmond
3212	11-19-80	Spec. C-304. Dwg. C-192 shows the monorail in Sc. R was cross flange welded to existing W30x99 with a 5/8" fillet weld.	Use As Is	1-21-81	N. Plante
3213	11-19-80	M-120AC & Spec. M-204. A gouge exists in one end of the valve and porosity is visible in the bottom of the gouges area.	Std. Repair	1-22-81	J. Kramer
3214	11-19-80	M-349A Rev.4. 34 piece thermostat G-321-D & Spec. requirements and/or eng. do not differentiate between OVD & eng. procedures and qualification reports; no OVD submitted.			
3215	11-20-80	Spec. M-481 Rev.18. Two 900# weld neck R.F. flanges, sch 80 were installed on plant side of tanks OVT 28A and B should be sch 120.	Reject		
3216	11-26-80	Dwg. 619 sh 3 Pipe spool 2HBC-102-S-619-3-4 has an arc gouge that is 3/4" x 1 7/8" x 1/4" deep (approx)	Repair		
3217	11-26-80	Dwg. M-604-9 Valve (404-2-161)S?N 10 was installed with several gouges on the outside surface there by leaving the integrity of this indet.			
3218	11-26-80	PO F-45573 Contrary to Spec C-233 no G-321D has been received Both CMTRs received are illegible making the material indeterminate	Doc Rework	12-04-80	R. MacGlashan
3219	11-26-80	M-18-AC No certificate of compliance or CMTR were received for stud & nut for Valve #77001-139 Serial No. N61848-00-0004	Doc Rework	1-21-81	R. MacGlashan
3220	11-26-80	Contrary to Spec. C-306 4 anchor bolt holes were core drilled for H. FSK-M-1CCA-42-1-H7 & one 1CCA-42-1-AH6 One rebar was cut on hanger FSK-M-1CCA-42-1-AH7			

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2 NRC NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
3221	11-26-80	Contrary to Spec C-306 Rev 6 A #8 vertical bar was cut 7'1" from two other cut vertical bars on the same face	Use As Is	1-27-81	P. Vanderveer
3222	11-26-80	Contrary to ASTM C-31-69 concrete specimens cast on 11-25-80 were measured at 83° F.	Use As Is	1-30-81	B. DeArmond
3223	11-26-80	Dwg. M-604 Sh 8 FW #41 was welded completely, prior to the attachment of Copy #4 of QCIR-W-1.00 or fit-up acceptance by the FWE	N/A		
3224	12-02-80	Dwg. M-177 rev 8/F2/M-178 Penetrations 1230 & 2230 have no proj. appr. for the config. or weld of this config - No material identification thus there is no traceability to a certified material test report.			
3225	12-3-80	M-18 Serial No. 77001-2882 Numerous gouges are on the forged flanged shaft for generator #2G-11			
3226	12-03-80	F-44862 50 nuts inspected were found to have rough and uneven threads that would not consistently match thread gauge	N/A		
3227	12-08-80	Dwg 1-612-4-6 Contrary to Spec 305 there are two expansion anchors cut flush with the concrete under the lower plate			
3228	12-08-80	M-612 sh 6 Contrary to Spec 204 a valve was installed in the piping system without a nameplate containing a nuclear stamp symbol	Rework		
3229	12-09-80	F-48788 Contrary to Spec ASTM A-325 Heavy hex bolts were received with no A-325 markings & injurious defect in the heads of the bolts	Reject	1-21-81	M. Slocumb
3230	12-09-80	Contrary to FPW-6000 on re-calibration, voltage amperage monitor BPG 602 was found to be indicating approx. 26% lower than actual amperage	Use As Is		
3231	12-09-80	Spec C-88 Incorrect filter paper was used to measure the quantity of fines in the return & discharge lines			
3232	12-15-80	Contrary to Spec C-306 Rev 6 4 east-west rebar were cut within a 10' radius on the top mat of the 674'-6" slab in the Aux Bldg.			
3233	12-15-80	Contrary to Spec C-231 two #5 horizontal bond beam bars were cut at the top of Block wall #6			
3234	12-16-80	Contrary to Spec 231 surface temperature of pour # A(704.0)E dropped to 29 degrees 11 degrees below the allowed minimum			
3235	12-16-80	PHCCS-1B79-2B79-1B80-2B80 all missing ident.-missing grd. fault indicator-broken at brackets-& inaccessible locations for PHCCs			
3236	12-16-80	Dwg M-656-9 Contrary to Spec M-214 FWs #5-#6-#11-#17 were made without Field and Engineering verification for misfit	Doc Rework		
3237	12-19-80	Dwg E-616-2 - 3" conduit 1AJ8043 the coupling was installed on unthreaded conduit. Wire has been pulled	Rework		
3238	12-22-80	Dwg E-532 Flat washers were used to shim and level electrical panels No Vendor or Project approved dwgs were provided to allow shimming			

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2 NRC NO.	3 DATE	4 NONCONFORMANCE DESCRIPTION / REMARKS	5 DISPO.	6 DATE NCR CLOSED	7 CLOSED BY
3239	12-24-80	Contrary to Spec C-233 the vendor did not submit welding procedures			
3240	12-24-80	F-47790 1½" H.H. Nuts & H.H. Jam nuts were received with no markings for traceable heat numbers or heat code.	Reject Rework		
3241	12-24-80	P.O. M-18AC Engine No. 2833 has a rear main thrust bearing clearance measurement of .063" contrary to the .030" allowed.			
3242	12-24-80	C-305 Expansion Anchors on the following hangers exceed maximum depth 1EBC-4-4-H1-1ECB-8-2-H6-1ECB-1ECB-3-3-H3			
3243	12-29-80	C2-146 Rev 58 One tendon wire of Tendon H32-07 was cut with a saw blade approx. 2" from the end of the existing buttonhead.	Reject		
3244	01-06-81	Dwg. E-42B A Type 25 conduit support for 2BVA020 has 7" from unistrut centerline to a support for HVAC ductwork.			
3245	01-07-81	Spec 304 Dwg. H80-297 Sh. 14 Beam #MK 1401 was fabricated in the Combo Shop with cross flange welding with no prior Proj. Eng. approval			
3246	01-8-81	Spec 7220-G9 motor operated valves have less volts than required by spec.			
3247	01-12-81	Dwg. 618 Sh 2 Spool OHBC-59-S618-1-4 has damage to bottom area of pipe damage area is indentation approx. 3" in diameter			
3248	01-12-81	P. O. F-3183 Rel 3 Material received on AEO 14014 & 14269 were fabricated to the wrong ASTM Specification.			
3249	01-12-81	M-18 Documentation identification for Emergency Diesel Generator Aux skid parts reads differnt from actual tag on material.	Rework (Doc)	01-26-81	R. MacGlashan
3250	01-12-81	F-48674 Contrary to Spec 305 no verification documentation has been received on AEO-14205 from the vendor			
3251	01-12-81	F-47848 Contray to Spec 305 No quality verification documentation has been received on AEO 14184 from the vendor	Doc Rework		
3252	01-12-81	Dwg. FSK-M-1HCB-80-1 Contrary to Spec M-204 ½" globe valve missing N stamp tag	Rework		
3253	01-14-81	Spec. C-208 & C-230 Flyash informity requirements exceed maximum variation.			
3254	01-14-81	Spec. M-204, Pipe Spool 1HCC-35-603-15-5 location makes contact with corrugated deck grating contrary to Spec. requirement.	Rework	01-26-81	C. Fugate
3255	01-14-81	Spec. C-305. 2 rebar cut exceeding minimum radial distance required.			
3256	01-14-81	Dwg. J-275-2-364, Panels 1 & 2C46, 1 & 2C47 installed contrary to requirements, no installation manuals furnished as per Spec. J-275.			
3257	01-14-81	F-19328 AEO-4144, Bolts are indeterminate due to CMTR referencing elongation being contrary to requirement.			

CLOSED NCRs

NONCONFORMANCE REPORT

1. Project Name MICRAND		Sub No. 7220		19. No. 1086		20. Page 1 of 7	
2. Unit(s) COMMON		3. Drawing/Part No. SEE BLOCK (16) CONTINUATION SHEETS		4. Item Description HANGERS		5. Item Location Box 2/Cont "2"	
6. P.O. Or Spec No. H-209		7. Serial No. N/A		8. Replacement Part P/N N/A REV N/A NO. N/A		9. Source VENDOR	
10. Contractor/Supplier ITT GRINNELL		11. Inspection Criteria ☒ DWG ☐ SPEC ☐ OTHER NO. SEE BLOCK 16		12. ASME AUTHORIZED INSPECTION REQ'D ☐ YES ☒ NO		13. SKETCH ATTACHED ☐ YES ☒ NO	
14. Discovered During		15. Equip Furnished By ☐ REC:G ☐ CONST ☐ TEST ☐ CLIENT ☐ ENG ☐ FLO		16. Nonconforming Condition: THE HANGERS RECEIVED HAVE SHOP WELDS WHICH ARE SPECIFIED ON THE APPLICABLE SKETCH FOR EACH HANGER. CONTRARY TO THE ABOVE THE SHOPWELDS DO NOT CONFORM AS THEY ARE SPECIFIED ON THE APPLICABLE SKETCH FOR EACH HANGER.		24. Disposition Concurrence SEE BLOCK 23	
17. Reported By W. Barclay		Date 12/5/77		Validated By W. Barclay		Date 12-5-77	
21. Routing ☒ TO FIELD ENGINEERING ☐ TO OTHERS (SPECIFY)		22. ☐ Field Engineering Disposition ☒ FIELD ENGINEERING RECOMMENDED DISPOSITION TO PROJECT ENGINEERING DISPOSITION REQUIRED BY 1/5/78		23. Project Engineering Disposition HANGER 2-613-2-24 SW#3-Rework the subject hanger in the area where fusion in incomplete. Hanger 2-608-1-2 SW#1 & 2-O.G. Markham was contacted on phone as to the discrepancy between the weld requirement on the Dwg and weld as measured. (Dwg cal or 3/16" weld all around, whereas it was welded only one side) Markham replied 2 and 3 (involving SW# 1 & 2) were lost in the field, and they are to be in the field. Hanger 1-604-12-19 Item 2 is hanger standard 62 and so weld required to be specified on the dwg. Hanger 1-602-12-3 shop welds 2 & 3 Grinnell was informed about non-availability of weld size on the dwg and the be 3/16" fillet per ASME Section III Linear Requirements. Grinnell agreed to the field and revise dwg as well. Following hangers use as is refer to NCAR ersize portion of weld. (continued next column)		25. Disposition Results SEE ATTACHED SHEET C-3 7-12-77	
26. QC Acceptance William Smith		Date 1-5-78		27. AUTHORIZED INSPECTOR D		28. DATE 1-5-78	

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NONCONFORMANCE REPORT (CONT'D)

Block #	CONT'D	DATE	IN #	WELD SIZE REQUIRED	WELD SIZE MEASURED
1	HANGER #	2-617-8-10	1	1/4 ALL AROUND	3/16 - 5/16 ALL AROUND
2	"	"	2	1/4	3/16 - 5/16
3	18" - 1HBC-133-A15	1-616-7-9	1	1/4 ALL AROUND	3/16 - 1/4 ALL AROUND
4	"	"	2	1/4	3/16 - 1/4
5	8" - 2HCC-4-A11	0-614-8-12	1	1/4 ALL AROUND	3/16 ALL AROUND
6	"	"	2	1/4	3/16
7	"	"	3	1/4	3/16
8	"	"	4	1/4	3/16
9	"	"	5	3/16 ALL AROUND	1/2
10	"	"	6	3/8	1/2
11	8" - 2HBC-102-H14	2-619-3-31	1	1/4 ALL AROUND	3/16 - 5/16 ALL AROUND
12	8" - 1GCB-16-A17	1-612-3-18	1	1/4	1/4 - 5/16
13	"	"	2	1/4	1/4 - 5/16
14	"	"	3	1/4	1/4 - 5/16
15	"	"	4	1/4	3/16 - 1/4
16	"	"	5	1/4	3/16 - 1/4
17	"	"	6	1/4	3/16 - 1/4
18	"	"	7	1/4	3/16 - 1/4
19	"	"	8	1/4	3/16 - 1/4
20	"	"	9	1/4	3/16 - 1/4
21	"	"	10	1/4	3/16 - 1/4
22	"	"	11	1/4	3/16 - 1/4
23	12" - 2HBC-124-H2	2-617-6-12	1	3/16 ALL AROUND	3/16 - 1/4
24	"	"	2	3/16	3/16 - 1/4
25	"	"	3	1/4	3/16 - 5/16
26	"	"	4	1/4	3/16 - 5/16
27	"	"	5	1/4	3/16 - 5/16
28	"	"	6	1/4	3/16 - 5/16



NONCONFORMANCE REPORT (CONT'D)

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Block 16 CONT'D

HANGER	SKETCH #	JN #	WELD SIZE REQUIRED	WELD SIZE MEASURED
1 16-CHB-51-H4	0-616-8-23	1	3/16	3/16
"	"	2	3/16	3/16
"	"	3	3/16	3/16
"	"	4	3/16	3/16
8 10-1HBL-100-H2	1-619-8-16	1	3/16	3/16
"	"	2	3/16	3/16
"	"	3	3/16	3/16
2 13-1FEB-22-H14	1-610-6-17	1	3/16	3/16
"	"	2	3/16	3/16
"	"	3	3/16	3/16
10 4-1HCB-18-H3	1-610-3-34	2	3/16	3/16
"	"	3	3/16	3/16
"	"	4	3/16	3/16
"	"	5	3/16	3/16
"	"	6	3/16	3/16
"	"	7	3/16	3/16
"	"	8	3/16	3/16
"	"	9	3/16	3/16
"	"	10	3/16	3/16
11 18-2HCB-2-H11	2-611-3-11	1	3/16	3/16
12 10-2CCB-25-H9	2-611-1-7	1-8	3/16	3/16
13 6-2EBB-6-H7	M-2-639-14(1) of 45	1-10	3/16	3/16
14 6-2EBB-6-H15	M-2-637-14(5) of 45	1-12	3/16	3/16
15 6-2EBB-6-H14	M-2-637-14(4) of 45	1-12	3/16	3/16
16 6-2EBB-5-H13	M-2-637-14(19) of 45	1-12	3/16	3/16
17 18-1HCB-2-H13	1-610-3-13	1	3/16	3/16
18 6 16-5-11	1-633-6-23	2-5	3/16	3/16
		1-11	3/16	3/16

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PACK 16 CONT'D

WALKER #	SHEET #	SAL #	WELD SIZE REQ'D	WELD SIZE MEASURED
10-211FC-103-113	2-619-3-3	1-8	1/4 ALL AROUND	1/4-3/8 ALL AROUND
10-211FC-110-116	2-619-2-6	1	3/16 ALL AROUND	3/16x5/16 ALL AROUND
12-261CB-26-119	2-611-2-17	1	1/4 " "	1/4-5/16 " "
8-261CB-15-117	2-613-2-24	1-2	1/4 " "	3/16-5/16 ALL AROUND
"	"	3-4	1/4 BOTH SIDES	1/4 BOTH SIDES
12-261CB-26-118	2-611-2-16	1	3/16 ALL AROUND	3/16-1/4 ALL AROUND
8-261CB-15-116	2-613-2-23	1	1/4 " "	1/4-5/16
12-261CB-26-116	2-611-2-1	1	1/4 " "	1/4-5/16
16-111CB-135-111	1-616-6-20	1	1/4 " "	5/16 " "
10-261CB-25-119	2-611-1-7	1-8	1/4 " "	1/4-5/16 " "
14-261CB-30-111	2-611-1-22	1	3/16 " "	1/4-5/16 " "
10-261CB-110-118	2-619-2-8	1	1/4 " "	3/16-7/16 " "
12-161CB-25-115	1-610-5-6	1-3	1/4 " "	1/4-5/16 " "
"	"	4-11	1/4 " "	MISSING
24-111CB-1-114	1-610-5-12	4-8	1/4 " "	1/4-5/16 ALL AROUND
6-261CB-17-114	2-604-6-4	1	3/16 " "	1/2 " "
8-261CB-140-111	2-617-11-1	1-2	3/16 " "	5/16 " "
6-111CB-17-118	1-603-6-22	1	3/16 " "	5/16 " "
10-261CB-22-117	2-611-6-20	1-3-6	1/4 " "	5/16 " "
12-261CB-22-117	2-611-6-20	2	1/4 BOTH SIDES	5/16 BOTH SIDES
2-111CB-23-111	2-611-6-20	3-4	3/16 ALL AROUND	3/16 ALL AROUND
2 1/2-111CB-23-111	1-603-7-25	3	1/4 " "	5/16 " "
2 1/2-111CB-23-111	1-603-7-25	1-2	1/4 " "	1/4-5/16 " "
8-111CB-23-112	1-610-7-25	1-2	1/4 " "	1/4-5/16 " "
10-111CB-22-113	1-610-7-25	1-2	1/4 " "	1/4-5/16 " "
"	"	3-6	1/4 " "	1/4-5/16 " "
12-161CB-25-116	1-610-5-7	1-4	1/4 BOTH SIDES	1/4-5/16 ALL AROUND
"	"	2-3, 5-8	1/4 ALL AROUND	1/4-5/16 " "
4"-111CB-19-113	1-612-6-16	1	3/16 ONE SIDE (1/2)	3/16 A. AROUND
"	"	2-6, 3	1/4 BOTH SIDES	5/16-5/8 2 C. AR

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Block 16 CONT'D				Sketch #		SN #		ALLO SIZE Rep'd		ALLO SIZE MEASURED	
41	1/4 ANGLE			0-614-8-15		1-2		1/4 TO 5/16	1/16 ALL AROUND	1/4 - 5/16	ALL AROUND
42	2" ONHC-3-H1			2-604-8-12		1		3/16 BOTH SIDES		1/4 - 5/16	ALL AROUND
43	6" 2HCB-17-H9			2-604-8-7		1-2		3/16 BOTH SIDES		1/4 TO 5/16	ALL AROUND
44	6" 2HCB-15-H8			1-610-3-10		1-2		1/4 ALL AROUND		1/4 - 5/16	"
45	18" 1HCB-2-H10			0-619-9-5		1		3/16 ALL AROUND		3/16 - 1/4	ALL AROUND
46	8" ONHC-22-H7			"		2 1/2 3		3/16 THREE SIDES		1/16 - 1/4	"
47	10" 1HCB-42-H11			1-610-6-26		1 1/2 2		1/4 ALL AROUND		1/4 - 5/16	"
48	"			"		3 1/2 5		1/4 BOTH SIDES		1/4	THREE SIDES
49	"			"		5		1/4		1/4 - 5/16	ALL AROUND
50	"			"		4		1/4 ONE SIDE		1/4	ALL AROUND
51	"			"		7-14		1/4 ALL AROUND		1/4 - 3/8	ALL AROUND
52	10-1HCB-22-H18			1-610-6-21		1-2		1/4		1/4 - 5/16	"
53	"			"		3-4		3/16 ALL AROUND		3/16 - 5/16	"
54	2 1/2" 1HCB-70-H15			1-603-3-20		1		3/16 ONE SIDE		1/4	ONE SIDE
55	4" 1HCB-70-H21			1-612-3-35		1 1/2 2		3/16 ALL AROUND		1/4 - 5/16	ALL AROUND
56	"			"		6		1/4 ALL AROUND		5/16	ALL AROUND
57	8" ONHC-51-H8			0-614-10-34		1		3/16 ONE SIDE		1/4	ALL AROUND
58	8" 2HCB-23-H2			2-634-3-19		1-8		1/4 ALL AROUND		1/4 - 5/16	ALL AROUND
59	2 1/2" 2HCB-178-H15			2-657-42-15		1		3/16		3/8	ALL AROUND
60	8" 2HCB-23-H2			2-634-3-19		1-8		1/4		5/16	"
61	3" 2HCB-29-H3			2-611-6-29		1, 2, 4		3/16 BOTH SIDES		1/4	BOTH SIDES
62	"			"		3		3/16 ONE SIDE		1/4	ONE SIDE
63	"			"		5 1/2 6		1/4 ALL AROUND		5/16	ALL AROUND
64	4" 2HCB-11-H2			2-608-1-2		1		3/16 ONE SIDE		3/16 - 1/4	ONE SIDE
65	"			"		2 1/2 3		1/4 ALL AROUND		3/16 - 1/4	ALL AROUND
66	10-1HCB-102-H15			1-619-12-15		1		1/4		3/16 - 1/4	ALL AROUND
67	10-1HCB-103-H6			1-619-13-6		1 1/2 2		1/4 ONE SIDE (2)		3/8	ALL AROUND
68	10-1HCB-102-H7			1-619-12-7		1		1/4 ALL AROUND		3/8	ALL AROUND

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NONCONFORMANCE REPORT (CONT'D)

Block to Cont'd	Holder #	Sketch #	Sub#	Weld Size Req'd	Weld Size Measured
58	10-1115-102-113	1-619-12-13	1-12	3/16 ALL AROUND	3/16-7/8 ALL AROUND
59	4-2605-27-42	2-611-2-6	1-12	"	5/16-5/8
60	"	"	3-14	"	3/16-5/8
61	4-2605-80-11	2-604-8-19	1-12	BOTH SIDES	3/16-1/2
62	"	"	3	ALL AROUND	3/16-1/2
63	26-0115-15-111	0-619-4-31	1	"	3/8
64	26-0115-15-112	0-619-4-32	1	"	1/4-3/8
65	10-2605-31-110	2-611-4-9	1-12	"	1/4
66	12-1115-15-112	1-614-10-4	1-12	"	1/4
67	6-1515-15-113	1-603-6-3	1	"	1/4-5/8
68	5-2605-15-110	2-604-8-9	2-13	NOT STANDARD REPORT	1/4-5/8
69	3-2115-149-114	"	1-12	ALL AROUND	1/4
70	5-2605-15-119	2-617-11-12	3-14	ONE SIDE	5/8
71	10-1515-31-112	2-613-4-18	1	ALL AROUND	1/4
72	"	1-617-4-12	1-6	"	1/4-5/8
73	26-0115-16-114	"	1-12	"	5/8-7/8
74	"	0-619-5-16	3-6	ONE SIDE	5/8-1/2 ONE SIDE
75	"	"	1-12	ALL AROUND	5/8-7/8 ALL AROUND
76	26-0115-16-115	0-619-5-17	3	"	3/8
77	26-0115-16-117	2-604-13-9	4	"	3/8-1/2
78	26-0115-19-42	0-619-6-2	1-12	BOTH SIDES	1/4 BOTT- SIDES
79	"	"	5	BOTH SIDES	5/8 ALL AROUND
80	"	"	3-14	ALL AROUND	5/8
81	26-0115-17-114	0-619-6-4	1	"	5/8
82	"	"	2-13	"	5/8-7/8
83	"	"	1	"	5/8-7/8

A CONDITIONAL RELEASE IS GRANTED TO INSTALL THE SUBTREC HANGERS. HANGERS ARE RETRIEVABLE AFTER INSTALLATION.

PFE W.D. Foster DATE 12/9/77 PFECE 12-9-77 DATE

R.C. Hollan for

G.L. Richardson

12/13/77

LGRE

DATE

BLOCK 16 CONT'D.

* 1. PAGE 3 SKETCH 0-616-8-23 SW 1 & 2 ARE DELETED, REINSPECTION DETERMINED WELDS TO BE CONFORMING.

* 2. PAGE 4 SKETCH 2-613-2-24 SW'S 1 & 2 AND SW 3 SIZE MEASURED NOW INDICATED ON DND

3. PAGE 7 SKETCH 1-604-12-19 SW 1 WELD SIZE REQUIRED SHOULD READ CATALOG ITEM, DIMENSION NOT REQUIRED ON DWG.

W.D. Foster
12/13/77

W.D. Foster
12/13/77



Block 25 CONTINUED.

ALL HANGERS LISTED IN BLOCK #16 ARE USE-AS-IS EXCEPT THE FOLLOWING HANGERS: 2-613-2-24; 2-608-1-2; AND 1-603-6-3. NOTE: ON HANGER 5-613-2-24 SW #1 AND #2 ARE USE-AS-IS AND SW #3 IS TO BE REWORKED. ON HANGER 2-608-1-2 SW #3 IS USE-AS-IS, AND SW #1 AND #2 (ON ITEMS #2 AND #3 OF THE HANGER) WERE LOST IN THE FIELD AND SHALL BE RE-FABRICATED BY THE FIELD. ON HANGER 1-603-6-3 SW #2 AND #3 ARE USE-AS-IS, AND ITT GRINNEL HAS AGREED TO REVISE DRG. TO INDICATE THE WELD SIZE. ALSO HANGER 1-603-6-3 SW #1 WAS NOT DISPOSITIONED IN BLOCK #23.

John Fugate 7-18-79
NOTE ON HANGER 2-611-2-1 WELDS WERE REWORKED AND FOUND TO MEET THE MINIMUM REQ'D WELD SIZE SPECIFIED ON PAGE 4059 HOLD THE 370F BS REMOVED FROM HANGER

Robert J. Grubel 7/23/80

Hgr 1-603-6-3 SW 1 is Not a Non Conforming Item
Since over size weld can go up to 3/4".

NJ Smith
1-5-81



NONCONFORMANCE REPORT

S/C. Non Testable Unit

1. PROJECT NAME Midland		JOB NO. 07220		19. 1976 NO. 47	20. PAGE 1 OF 2
2. UNIT(S) I & II	3. DRAWING/PART NO. E-47	R/V 1	4. ITEM DESCRIPTION Class 1E and Non-Class 1E Cable	5. ITEM LOCATION Aux. Bldg. - 659 Control 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 () DWG (X) SPEC () OTHER		IR NO. E-5.0 NO. J-201, J-275	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: Drawing E-47 indicates that a minimum separation of six (6) inches must be maintained between Class 1E and Non-Class 1E wiring not treated as associated circuits. Contrary to the above requirements, panels 1C47, 2C47, and 2C15 contain Class 1E and Non-Class 1E cable not employing a separation of six(6) inches where the cable enters through the floor penetration from the lower cable spreading room. Hold For Engineering Disposition					
24. DISPOSITION CONCURRENCE rework ☒ select ☐ repair ☐ use as is ☐ PROJECT FIELD ENGINEER DATE PROJECT ENGINEER DATE PROJ CONSTR QC ENGINEER DATE AUTHORIZED INSPECTOR DATE					
25. DISPOSITION RESULTS SEPERATION AQUIRED PER REWORK AND ENG. DISPOSITION					
26. QC ACCEPTANCE QC ENGINEER DATE AUTHORIZED INSPECTOR DATE					

17. REPORTED BY: R. L. Gibbons DATE: 3-19-79

18. VALIDATED BY: J. B. Barclay DATE: 3-19-79

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

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

This discrepancy is a design problem involving Q and non-Q cable routing through a common penetration (floor); Also physical layout of 1C47/2C47 makes channel separation difficult. This discrepancy is beyond scope of Field Engineering. Recommended referral to Project Engineer for resolution.

23. PROJECT ENGINEERING DISPOSITION
A BARRIER WILL BE PROVIDED IN THE PENETRATION TO PROTECT THE CABLE AGAINST FIRE. THE CIRCUITS TO PANEL 2C15 DO NOT HAVE THE SAME CONDITION AS DESCRIBED BY THIS NCR. THERE SHOULD BE NO MIXING OF CABLES IN 2C15. CABLES TO 2C15 SHOULD BE REWORKED TO PROPER SLOT.

SEE CONTINUATION SHEET.



980 5-1-79 6/18/80
3-1-11

20. PAGE 2 OF 19. MCR NO 1976

NONCONFORMANCE REPORT (CONT'D)

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER DATE 4-20-79			
PROJECT ENGINEER DATE 4-19-79			
PROJECT CONSTR OC ENGINEER DATE 5-7-79			
AUTHORIZED INSPECTOR DATE			

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER DATE 6-23-80			
PROJECT ENGINEER DATE 6-20-80			
PROJECT CONSTR OC ENGINEER DATE 6-20-80			
AUTHORIZED INSPECTOR DATE			

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER DATE 9/20/80			
PROJECT ENGINEER DATE 9/24/80			
PROJECT CONSTR OC ENGINEER DATE			
AUTHORIZED INSPECTOR DATE			

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER DATE 11/20/81			
PROJECT ENGINEER DATE 1/21-81			
PROJECT CONSTR OC ENGINEER DATE			
AUTHORIZED INSPECTOR DATE			

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

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

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

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

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

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

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

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



NONCONFORMANCE REPORT (CONT'D)

20 PAGE

3

OF

19 NCR NO

1976

Block 16 continued:

A conditional release is requested to install cable and separate as required in order to comply with the NCR disposition. Corrections can be accomplished without causing damage or contamination to associated plant equipment or structure.

G. T. Pugh AWB 5-1-79
PFE Date

REA W. D. Dineen 5-1-79
PQAE Date

W. J. Bailey 5-1-79
PFQCE Date

Blk. 22 cont.)

A barrier in 2C47 cabinet A channel A cannot be installed because of location of slot. The non class 1E cables will have to be spliced and cables rerouted. Raymond Schuffele 6/4/80 HAVE



Block #23 Continued.

Due to the location of the penetration in Panel 2C47 a barrier can not be installed to obtain the cable separation required. Cable 2NB7303C has not been pulled and shall be rerouted to the top of the Panel.

The following list of cables shall be ~~detached and~~ ^{disconnected} removed. New cables shall be ~~separately~~ ^{separately} routed, and pulled into the top of the panel.

2NA0505A 2NA121A

06A 154A

11C 154D

12A 158A

12B 182G

2NB1701B 215A

2317A 375B

5518A

5519B

2NMU008H

008J

045E

046E

047E

048E

067B

DWG E-37 WILL BE REVISED

A.B. Hyman 6/14/80
 R. B. Hyman 6/14/80



B/k. 22 cont.)

Disposition by Project Engineering of 6-10-80 does not resolve problem in 2C15 and 1C47. Recommend, disposition should read to provide a barrier in the blackout of 1C47 and to rework the cables to the proper location in 2C25. Raymond Scheffle 9/9/80
2C15 PLS 7/17/80

Block 23 CONT.

THE CIRCUITS TO PANELS 2C15 & 1C47 DO NOT HAVE THE SAME CONDITION AS DESCRIBED BY THIS NCR. THERE SHOULD BE NO MIXING OF CABLES IN THESE PANELS.

NO DWG REVISION REQD FOR THESE PANELS. 9/18/80 Raymond Scheffle 9/18/80

BLOCK 23 CONT.

THE CONDITION IDENTIFIED IN BLOCK 16 HAS BEEN RESOLVED FOR PANELS 1C47 AND 2C15. ACTION HAS BEEN COMPLETED TO RESCHEDULE AND REPULL INSTALLED CABLES. NO DRAWING REVISION REQUIRED FOR THESE PANELS. 1-14-81 1-14-81



NGN CONFORMANCE REPORT

1. Project Name MIDLAND		Job No. 07220		19. 2079 No.	20. Page 1 of 2
2. Unit(s) 1	3. Drawing/Part No. M-603 SH.3	Rev 6/FI	4. Item Description 2X1 REDUCING INSERT	5. Item Location CONT. #1	
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 ☒ LOW ☐ SPEC		IR NO. N/A	12. ASME AUTHORIZED INSPECTION REQ'D ☒ YES ☐ NO	13. SKETCH ATTACHED ☐ YES ☒ NO	14. Discovered During ☐ REC-G ☒ CONST ☐ TEST
15. Equip Furnished By		16. Disposition Concurrence		REWORK	REJECT
17. Reported By Andrew Wilk		Date 4-16-79	18. Nonconforming Condition: PER DRAWING M-603 SH.3 SPOOL ICCB-70-603-3-8 HAS A 2" SOL. WELDED TO IT. CONTRARY TO THIS A REDUCING INSERT HAS BEEN SUBSTITUTED. Q NUMBER IS 4.037 - HOLD TAC APPLIED -	19. PROJECT ENGINEER Barclay	20. DATE 5-8-79
21. Routing ☒ TO FIELD ENGINEERING		22. Field Engineering Disposition ☐ TO OTHERS (SPECIFY)		23. Disposition Results RED. INS. PART OF 14" IECB-2 WAS REMOVED, A PUP PC BETWEEN FW# 91 & FW# 46 WAS INSTALLED JOE CARRAL 1/20/81	24. PROJECT ENGINEER Barclay
25. Project Engineering Disposition Remove the 1" reducing insert and replace with a 2" sol. D. Shank 5/17/79		26. Project Engineering Disposition Remove the 1" reducing insert and replace with a 1" half coupling. (R.S.) 5/18/79		27. AUTHORIZED INSPECTOR Joe Carral	28. DATE 1-20-81
29. Project Engineering Disposition This non-conforming condition no longer exists. Per the work order 14500		30. Project Engineering Disposition Remove the 1" reducing insert and replace with a 2" sol. D. Shank 5/17/79		31. AUTHORIZED INSPECTOR Joe Carral	32. DATE 1-20-81

see pg. 2 for concurrence

S/L 1-BG-A

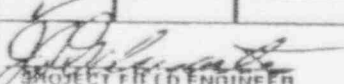
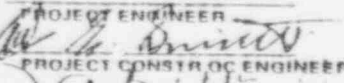
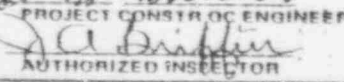
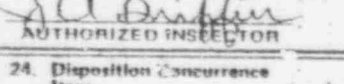
Job

P



NONCONFORMANCE REPORT (CONT'D)

20, PAGE 2 OF 2 2-15-81 19, NCR NO. 2079

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
 PROJECT FIELD ENGINEER DATE 1/18/81			
 PROJECT ENGINEER DATE 1-16-81			
 PROJECT CONSTRUCTION ENGINEER DATE 1/16/81			
 AUTHORIZED INSPECTOR DATE			

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

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

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

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

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

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

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

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

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

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

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

6-79-10

NONCONFORMANCE REPORT

S/L 20KA

6 SH

See pg 5 for
Concurrence

1. Project Name 07220 MIDLAND		Job No.		19. No. 2177		20. Page 1 of 3	
2. Unit(s) CONT 2		3. Drawing/Part No. SEE BLOCK 16		4. Item Description SEE BLOCK 16		5. Item Location CON 2-DOME	
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 CONST	
11. Inspection Criteria BLOWING ☒ SPEC ☐		12. ASME AUTHORIZED INSPECTION YES ☐ NO ☒		13. SKETCH ATTACHED YES ☐ NO ☒		14. Discovered During DIRECT ☒ INST ☐ TEST ☐	
15. Equip Furnished By		16. Disposition REWORK ☒ REJECT ☐		17. Repair REPAIR ☐ USE AS IS ☒		18. Date 2-8-80	
16. Nonconforming Condition: M1326 REV 3 PARA 5.1-1 STATES IN PART: "TO THE GREATEST EXTENT POSSIBLE, PIPE SUPPORTS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE PIPE SUPPORT DESIGN DRAWING M1209 REV 7 PARA 10.3 STATES IN PART: "MILL TEST REPORTS SHALL BE PROVIDED FOR ATTACHMENT MATERIALS THAT REQUIRE WELDING TO NUCLEAR OR CRITICAL PIPING. THE MATERIAL SHALL BE - CON 2							
17. Reported By X [Signature] Date 5-11-79							
18. Routing TO FIELD ENGINEERING ☒ TO OTHERS (SPECIFY)							
19. Validated By [Signature] Date 5-11-79							
20. Field Engineering Recommendation FIELD ENGINEERING RECOMMENDED DISPOSITION TO PROJECT ENGINEERING							
21. Field Engineering Recommendation 1) Field Engineering recommends that Project Engineering analyze the offsets of the pipe stanchion to the base. Information regarding the offsets has been forwarded to engineering per memorandum dated May 16, 1979 from Richard Sheppard to Dave Anderson. 2) Heat No.'s traceable to Mill Test reports are not Rqd for the anchor material. 23. Project Engineering Disposition cont. on page 3							
Items 1 & 3) Sketches 613-1-3 to 613-1-7 and 613-1-13 have been revised (see sub 4/F2) to show the as-built condition. Grinnell's analysis of these as-built installed anchors shows them to be satisfactory. Items 2 & 4) The sketches call for traceable material for the stanchions as required by hanger Specification 7220-M-209 to which the hangers were designed. Therefore, traceability is required. (ITEMS IN BLOCK 23 DISPOSITION REFER TO BLOCK 22 (ITEMS) (CONT, ON PG 3)							
24. Disposition REWORK ☒ REJECT ☐							
25. Project Field Engineer [Signature] DATE 2-8-80							
26. Disposition Results Agd 613-1-3 has been identified as He # 613-1-3 is the Stanchion He # 613-1-3 is traceable material. He 613-1-13 Stanchion has been identified as He # 622668 or 18 P110-613-1-1 Rev O. [Signature] SEE PAGE 4 FOR CONTINUED							
27. OC Applicable DATE 1-28-81							
28. Authorized Inspector DATE							

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

6-20CB-15-H43 - SKETCH 2-613-1-3 REV 3 SUB 4/E1 - SHOWS NO OFFSET

- ① HANGER IS OFFSET
② HT # OF STANCHION HAS BEEN TRANSFERRED. THE NUMBER READS HT #40367. THIS NUMBER IS NOT TRACEABLE TO A MILL TEST REPORT.

6-20CB-14-H1 - SKETCH 2-613-1-4 REV 3 SUB 4/E1 - SHOWS NO OFFSET - SHOWS ONLY 1 PLATE.
① HANGER IS OFFSET. ② HAS ADDED PLATE ③ ASSEMBLY IS IDENTIFIED NOT SHOWN ON SKETCH. DI: PLATE AS 613-1-5 AND

ADJACENT T. F. #118 AS 20CB-16-H37
THESE NUMBERS ARE INCORRECT.

6-20CB-13-H1 SK. #2-613-1-5 REV 3 SUB 4/E1 - SHOWS NO OFFSET
① HANGER IS OFFSET.

6-20CB-16-H39 SK. #2-613-1-6 REV 3 SUB 4/E1 - SHOWS NO OFFSET
① HANGER IS OFFSET

4-20CB-12-H1 SK. #2-613-1-7 REV 1 SUB 2/E1 - SHOWS NO OFFSET
① HANGER IS OFFSET

4-20CB-5-H1 SK. #2-613-1-13 REV 1 SUB 2/E1 - SHOWS NO OFFSET
① HANGER IS OFFSET
② HT # ON STANCHION IS ILLEGIBLE

HOLD FOR ENG. DISPOSITION Q# IS 4.131 6 HOLD TAGS APPLIED

QC-033

W's Copy - Originator
Canary Copy - Field Engineer
Pink Copy - PGAE
Goldenrod Copy - QC

block 22 continued.

Material for the anchors has been identified as proper material prior to installation. Spec. M-326 par. 3 (cn 13) refers to M-366 par. 4.1.7 which refers to M-204 par. 4.1.2 (scn #23) which states that certified mat'l test reports are not Rqd for class 2 and 3 non pressure retaining attachment material.

- 3) Field recommends to use the additional plate on hanger 6"-2GCB-14-H1 as is. Field Engineering shall revise ~~sketch~~ sketch 2-613-1-4 to show the additional plate
- 4) Upon inspection of the material on hanger 613-1-4, the identification number 2GCB-16-H37 shown in block 16 is not stamped on the assembly. Heat numbers are stamped on the additional plate (HT 40403) and the stanchion (HT M0387) along with the No. 613-1-5. These no.'s can be traced to a certificate of compliance which is in compliance with the specifications.

(KN) D. Short 8-7-79

Block 23 CONTINUED

THE REQUIREMENT FOR TRACEABLE MATERIAL FOR ITEMS 2 & 4 HAS BEEN FURTHER VERIFIED BY THE ASME BOILER AND PRESSURE VESSEL COMMITTEE'S RESPONSE TO OUR WRITTEN INQUIRY ON THE SUBJECT: (REFER TO THE ATTACHED BECHTEL NATIONAL, INC LETTER DATED AUGUST 25, 1980 W. R. SMITH ST. TO L. H. CURTIS).

Run 8/29/80 P. Priddy - QE - 9/2/80

Block 23 (CONT.)

SPECIFICATION 7220-M-204 WILL BE CHANGED TO REFLECT THE PROTECT ENGINEERING DISPOSITION FOR ITEMS 2 & 4. REShiffard 9/24/80

RE 9/24/80 QE J.S. 9-30-80

BLOCK NO 25 CONTINUES

ITEM 1 -	SK # 2-613-1-3.	PART 2.	WITNESSED THE AIRSCRIBING OF ACTUAL	} SH 11-12-80
			CORRECT HEAT NUMBER.	
ITEM 2 -	SK # 2-613-1-4	PART 3	WITNESSED THE AIRSCRIBING OF CORRECT	} SH 11-12-80
			HANGER #. 2-613-1-4 INSTEAD OF 2-613-1-5	
ITEM 6 -	SK # 2-613-1-13	PART 2	WITNESSED AIRSCRIBING OF CORRECT HT #	} SH 11-12-80

All items have been verified as traceable material (where required)
The subject drawings have been revised ~~to~~ to reflect the as built
condition. All items are acceptable.

E. Chlanawicz 12-3-80

Bechtel National, Inc.

Engineers - Constructors

Fifty Beale Street
San Francisco, California

Mail Address: P. O. Box 3915, San Francisco, CA 94119



To: L. H. Curtis

Subject: Integral Attachments for ASME
Section III Class 2 & 3 Piping
Systems - Midland Project
Bechtel Job No. 7220

Copies:

~~W. R. Anderson~~
J. R. Barbee
L. E. Davis
R. A. Marley/B. D. Hackney
J. A. Rutgers
R. F. Steigewald
C&S Log No. Q20153
C&S File: BPC/G.2

JOB 7220 MECHANICAL				
	A	I	C	SA
G. SUPV. 1				
G. SUPV. 2	1			
R. P. LDR.				
T. G. LDR.				
P. F. LDR.	1/2			
PIP. LDR.				
EVAP. LDR.				
DISP. CK				
G. V. C.				
FILE	17-			

Date: August 25, 1980

From: W. R. Smith, Sr.

Code & Standards/R&E

At: 50/18/A15/SF02
(415) 768-5811

THIS SHOULD
BELOW FINAL
CHANGE OF
NCR. DISPOSITION
FIELD RETESTED

TRANSMIT COPY
THIS TO FIELD
GET OUR SPECS
ACCORDINGLY. ALSO
FROM ME TO TULLCH
TO ADVISE HIM

Reference: IOM. W. R. Smith, Sr. to L. H. Curtis, dated May 6, 1980,
same subject.

The reference memorandum stated that Codes and Standards (C&S) would submit a written inquiry to the ASME Boiler and Pressure Vessel Code Committee asking if it is a requirement of ASME Section III, 1971 Edition with Addenda through Summer 1973 that a Certified Material Test Report is required for non-pressure retaining material welded to pressure retaining material for Class 2 and 3 construction.

We have been notified that, if a formal answer is requested, the answer to our question is yes. That is, a Certified Material Test Report is required to be furnished for non-pressure retaining material welded to pressure retaining material for Class 2 and 3 construction when the Code edition and addenda of ASME Section III, in effect, is the 1971 Edition with Addenda through Summer 1973.

Please contact J. R. Barbee or me at (415) 768-5811 if you have any questions.

W. R. Smith, Sr.

W. R. Smith, Sr.

WRS/JRB/bp

NCR 2177 of 4 of 5
596
4923M



NONCONFORMANCE REPORT (CONT'D)

20. PAGE 5 OF 5

6 of 6

5³⁰ 08 30

19

NCR NO

2177

24. Disposition Concurrence			
Item	REWORK	REJECT	USE AS IS
ITEM 24	X		X
PROJECT FIELD ENGINEER			DATE 10/3/80
PROJECT ENGINEER			DATE 9/30/80
PROJECT CONSTR OC ENGINEER			DATE 10/13/80
AUTHORIZED INSPECTOR			DATE

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

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

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

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PROJECT FIELD ENGINEER			DATE
PROJECT ENGINEER			DATE
PROJECT CONSTR OC ENGINEER			DATE
AUTHORIZED INSPECTOR			DATE

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



NONCONFORMANCE REPORT

a Jav
5/11 # 1-BGC & 2-BGC

1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 2262		20. PAGE 1 OF 2			
2. UNIT(S) 1 & 2	3. DRAWING/PART NO. NA	REV	4. ITEM DESCRIPTION R.C.S. Makeup Pumps 1-P-58A, 2-P-58A, 1-P-58B, 2-P-58B, 1-P-58C, 2-P-58C			5. ITEM LOCATION Aux. Bldg. E1 599			
6. P.O. OR SPEC NO. M116	7. SERIAL NO. NA	8. REPLACEMENT PART P/N NA REV NA SER NO. NA		9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER B & W				
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO		13. SKETCH ATTACHED () YES (X) NO		14. Discovered During () Rec'g (X) Const () Test		15. Equip Furnished By () Client (X) Eng () FLD	
16. NONCONFORMING CONDITION: Pumps: 1-P-58A E60-112, 2-P-58A E60-113, 1-P-58B E60-114 2-P-58B E60-115, 1-P-58C E60-116, 2-P-58C E60-117. These Pumps are 900 HP, Spec. E10-Rev. 9 Para 2.7 states, The limits on successive starts for all motors rated 250 horsepower and larger shall be provided on a permanent stainless steel motor nameplate by the seller. Contrary to Spec. These G.E. motors do not have the nameplates. Q 11st 4.036 & 4.046 G. Hold Tags Applied. Hold for Engineering Disposition.				24. DISPOSITION CONCURRENCE					
				rework		reject	repair	use as is	
				[Signature]		4/7/81		DATE	
				PROJECT ENGINEER		12-23-80		DATE	
				PROJECT ENGINEER		1/12/81		DATE	
				AUTHORIZED INSPECTOR				DATE	
17. REPORTED BY DATE A.M. Labovich 5/13/79				18. VALIDATED BY DATE H. J. Russell/Jona 6/13/79		25. DISPOSITION RESULTS Motor Purchased thru B&W by C.P.C. Elected P.C. not applicable in this matter. a.m. Labovich 1/12/81			
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)									
22. () Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering									
These motors are purchased by Consumers Power Company and 7220-E10 specification is not applicable. Therefore this is not a non-conforming condition. J. Collins 12 Nov 80									
23. PROJECT ENGINEERING DISPOSITION Project Engineering concurs with field engineering's recommended disposition. Ja Clemente 12-3-80 P. Priddy - PE - 12/31/80									
				26. QC ACCEPTANCE A.M. Labovich 1/12/81 QC ENGINEER DATE					
				AUTHORIZED INSPECTOR DATE					

Babcock & Wilcox

018321

B&W Construction Company

Copley, Ohio 44321

Telephone (215) 856-2841

RECEIVED

October 6, 1980

OCT 13 1980

BECHTEL POWER CORP
JOB 7220

PER 782-11-1

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

SUBJECT: Bechtel FQCL-322

Attention: L. E. Davis

Reference: Babcock & Wilcox Site Problem Report
#13-13-61-0 (attached)

Dear Mr. Davis:

This letter is in answer to Mr. Barclay's letter FQCL-322, dated 8-9-79, concerning the problems outlined in the referenced Site Problem Report.

I am requesting you to be guided by the resolution in the report and reassign responsibility for item #22 of Bechtel Nonconformance Report #3262 (attached), to your organization.

If you have questions concerning this request, please call me on extension #576.

Very truly yours,

H. A. Guetling
H. A. Guetling,
B&W Site Consultant

for: I. D. Green,
B&W Site Operations Manager

HAG/IDG/dbc
Attachments

cc: V. N. Asgaonkar, w/o
M. K. Sarkar, w/o
D. F. Judd, w/o
W. J. Lee, w/o
W. L. Barclay, w/a
File, w/a

JOB 7220	ROUTING	ACT	CTM	DET
Site Mgr.				
Proj. Supt.				
Serv. Supt.				
P.F. Engr.				
APP. Engr. 1				
APP. Engr. 2				
S.U. Turnover				
Cost-Sch.				
Inst. Engr.				
Civ. Supt.				
Civ. Engr.				
Mech. Supt.				
Mech. Engr.				
Pipe. Engr.				
Elect. Engr.				
Weld. Eng.				
Q.C. Engr.				
P&A				
O.C.				
Purch.				
Sub-Con.				
Doc. Con.				
J. Stubbs				

John - can you take indicated action?

ATT: H.A. GUETLING

PDS-21091-6 (8-79)

PROBLEM IDENTIFICATION	SITE PROBLEM REPORT 018321		PRIORITY 1 ☐ 2 ☐ 3 ☐ 4 ☒ NONE ☐		BABCOCK & WILCOX	
	CUSTOMER Consumers Power Co.		ORIGINATOR H.A. Guetling		DATE 8-13-79	
	SUPPLIER B&W		PA. NO. 620-0013-35		DOC ID NSS NO. SPR NO. REV. NO. 13 13 61 0	
	TITLE (maximum 30 characters) Make-up Pump		PART NO./TASK-GROUP-SEQ. NO. 35 - 40 - 002		LEAD MANAGER R.K. Kennedy	
	DESCRIPTION OF PROBLEM: Missing name plate on pumps 1P-58A E6.0-112, 2P-58A E6.0-113, 1P-58B E6.0-114, 2P-58B E6.0-115, 1P-58C E6.0-116 and 2P-58C E6.0-117. See NCR Bechtel NCR #2262					
PROBLEM IDENTIFICATION	STATUS-ACTION TO DATE, INCLUDING PERSONS CONTACTED: J.T. Frost - Lynchburg					
	FURTHER ACTION RECOMMENDED BY SITE PERSONNEL: Provide Name Plates					
RESOLUTION	RESOLUTION NPGD Engrg. Pumps & Drives Unit has been advised by CE. Mahoney, Proj. Mgmt, that B&W is not required to meet Bechtel Specification E-10. Therefore, we are not required to furnish the permanent stainless steel nameplates for motors stating the limits on successive starts as called for in Para. 27 of Bechtel Spec. E-10, Rev. 9. Please find attached a letter, E. Williams (Pumps & Drives) to C. Mahoney (Proj. Mgmt), dated 8-30-79, stating the limits on successive starts for the makeup Pump Motors. Bechtel may wish to have their own nameplates made or possibly procure them thru B&W at a later date.					
	☐ INFORMATION ONLY PCA REQUIRED YES ☐ NO ☒		POTENTIAL SAFETY CONCERN YES ☐ NO ☒		RESOLUTION DOC. NO. PREPARED BY: E. Williams, Pumps & Drives 10/1/79 REVIEWED BY: W. Williams by CH OLOS APPROVED BY: [Signature] DATE: 8-30-79	
CLOSEOUT	SPR CLOSEOUT REPORT: No Action Required By Site				CLOSED OUT BY: [Signature] R.T. Aversall SHEET 1 of 5	

NCR 2262

07798
10-30-80

asa reply to:

018321

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640



Babcock & Wilcox
Bechtel Job No. 07220
Midland, Michigan

August 9, 1979

Attention: Walter Lee
B & W Site Representative

Reference: Midland Project Units 1 & 2
Dispositioning of Bechtel NCRs
FQCL- 322

Dear Mr. Lee:

Attached please find a copy of Bechtel NCR No. 2262 for B & W dispositioning per Project Quality Control Instruction 7220/R-2.00, Rev. 4, "Receiving Inspection for NSS Equipment", special instruction No. 8, which states in part "... one xerox copy to the B & W Site Representative for disposition. The B & W Site Representative will transmit the NCR disposition to the Bechtel Project Quality Control Field Engineer (PFQCE) ...".

Upon receipt of the returned NCR with your disposition, Quality Control will complete the processing of the NCR in accordance with the instructions contained in SF/PSP G-3.2.

Please respond accordingly with your disposition by the requested date shown below in order that the NCR may be closed in a timely manner. Thank you.

Sincerely,

BECHTEL POWER CORPORATION

W. L. Barclay
W. L. Barclay

Project Field Quality Control Engineer

WLB/KEB/jmr

Attachment
Response Required: Yes
Date Required:

NCR 22

81447

10-20-80

Distribution:

R.V. Green
R.K. Kennedy
W.N. Prillman
J.E. Thornhill
H.A. Guetling
J.T. Frost

C.E. Mahaney, Project Management

E.N. Williams, Pumps & Drives (2807) 018321

Consumers Power Co. 620-0012,13

Nameplates for Makeup Pump Motors stating the limits on successive starts.

FILE NO. CP 125

WSS-12/T3-35

WSS-13/T3-35

DATE

August 30, 1979

(1) Bechtel NCR No. 2262

(2) B&W SPR No. 13 13 61 0

(3) Letter Bechtel (W.L. Barclay) to B&W (Walter Lee - B&W Site Rep.) dated Aug 9, 1979.

(4) Letter GE (B.K. Greenwood) to B&W (Bob Eacharick) dated April 3, 1974. (Copy attached)

Bechtel's Nonconformance Report, Ref. # 1, states that B&W did not furnish permanent stainless steel nameplates for the Makeup Pump Motors stating Limits on Successive Starts as required by Bechtel Spec. E-10, Rev. 9, Para. 2.7.

Pumps & Drives (R.K. Kennedy) has been advised by Project Mgmt. (C.E. Mahaney) that B&W is not required to meet that Bechtel Specification. P.M. advised that we will ask Bechtel to make up their own nameplates - or procure them thru B&W at a later date. The B&W SPR, Ref. #2, is being marked up in the Resolution section to reflect these statements.

Please find listed below the Limits on Successive Starts for these motors:

These Motors are capable of -

(1) Three (3) starts in a 15 minute period with at least 10 minutes of continuous operation before the third start when started against the appropriate load-torque curves in B&W Specification 08-1125 000 007-01. This duty cycle may be repeated after 20 minutes running time or 45 minutes standing idle once per 24 hour period.

OR (2) Three (3) starts in a 30 minute period without continuous operation during the period when started against the appropriate load-torque curves in B&W Specification 08-1125 000 007-01. This duty may occur once in a 24 hour period.

Note: The above limits are allowable providing the motor is allowed to coast to rest before being restarted.

It is recommended that no restart be made until all conditions affecting operation have been thoroughly checked and the motor examined for evidence of excessive heating.

E.N. Williams

NCR 2262 / 01798300

C

GENERAL ELECTRIC

018321

GENERAL ELECTRIC COMPANY, P. O. BOX 6974, RICHMOND, VIRGINIA 23230
Phone (804) 268-4071

C. J. A. James

INDUSTRIAL

SALES

DIVISION

T. A. JAMES

APR 11 1974 April 3, 1974

cc TA James

REFERENCE: YOUR ORDER 026506LR
OUR REQ. 326-32605-5
MAKEUP & DECAT HEAT MOTORS
CONSUMERS POWER

NPGD

Babcock & Wilcox Company
Nuclear Power Generation Division
Post Office Box 1260
Lynchburg, Virginia 24505

ATTENTION: Mr. Bob Zachariah, Buyer
Purchasing Department

Gentlemen:

To answer your February 27, 1974 letter to Mr. Coughtry, these motors are capable of:

- 1) Three (3) starts in a 15 minute period with at least 10 minutes of continuous operation before the third start when started against the appropriate load torque curves in B&W Specification 08-1125000007-01. This duty cycle may be repeated after 20 minutes running time or 45 minutes standing idle once per 24 hour period.
- OR 2) Three (3) starts in a 30 minute period without continuous operation during the period when started against the appropriate load torque curves in B&W Specification 08-1125000007-01. This duty may occur once in a 24 hour period.

Very truly yours,

B.K. Greenwood
B.K. Greenwood, Manager
INDUSTRIAL SALES - VIRGINIA AREA

BKG/bmm



NRK 2262
6 of 7
10/2/80

018321

- 2.4 All motors specified in the driven equipment specification as requiring emergency diesel generator power supply shall be capable of accelerating the load within 5 seconds with 70% of the motor nameplate voltage applied to the motor terminals. If this requires an increase in the motor nameplate horsepower rating, the Bidder shall so state.
- 2.5 A-weighted mean sound level at a distance of one meter from the motor surface shall not exceed 85 dB. Sound level shall be determined in accordance with IEEE Std 85-1973, or its latest revision. 
- 2.6 Motors rated 250 horsepower and larger shall be capable of the following starting duties with standard WK² load, as defined in NEMA Standard MG-1-20.42. The motors will be allowed 20 minutes running time or 45 minutes standing idle before the duty cycle is repeated.
- 2.6.1 Three starts in a fifteen minute period with at least ten minutes of continuous operation before the third start.
- 2.6.2 Three starts in a thirty minute period without continuous operation during the period.
- 2.6.3 In case of extra cost for the above starting duties, the additional amount shall be indicated in the proposal. If the Bidder cannot meet the required number of starts, he shall state in his proposal the limits which he can meet without extra cost.
- 2.7 The limits on successive starts for all motors rated 250 horsepower and larger shall be provided on a permanent, stainless steel, motor nameplate by the Seller. 
- 2.8 Motors rated 250 horsepower and larger shall be capable of producing the torque required by the driven equipment at rated speed with 70 percent of rated motor nameplate voltage for short periods of time (30 seconds) under steady state conditions.
- 2.9 Motors shall be suitable for operation under all environmental conditions as specified in the driven equipment specification. 

NCR 2262
701708
103060



ANN ARBOR

XC: K. Bandy
w/oMEMORANDUM

018321

TO: J. A. CLEMENTS *Jan* LOCATION AAO
FROM: B.P. KONONETZ/A.K. JULKA/K. BANDY DATE 12-16 19 80
SUBJECT: NCR # 2262 JOB NO 7220
RCS Make up Pumps FILE EG-0294 w/o

MOTOR SHALL HAVE A NAME PLATE. EQUIPMENT PURCHASING SPECIFICATION SHALL DICTATE THE MOTOR NAME PLATE REQUIREMENTS.

IF THE M/R DOES NOT SPECIFY THE REQUIREMENT, SUPPLIER SHALL COMPLY WITH APPLICABLE NEMA REQUIREMENTS (APPLICABLE NEMA STANDARD FOR NAMEPLATE DATA FOR THE MOTOR IN QUESTION IS MG-1-20-60)

THE INFORMATION RELATED TO SUCCESSIVE STARTS IS AN E-10 SPEC REQUIREMENT NOT A NEMA REQUIREMENT. THEREFORE WHAT INFORMATION THE NAME PLATE WILL HAVE DEPENDS UPON PURCHASING SPEC REQUIREMENT OR NEMA MG-1-20-60 REQUIREMENTS.

SINCE SPEC. E-10 REQUIREMENTS WERE NOT EVOKED FOR SUBJECT MOTORS, ELECTRICAL CONCURS WITH THE RECOMMENDED DISPOSITION OF THIS NCR.

ATTACHMENT: NCR # 2262 ORIGINAL

WTTED RESPONSE REQUESTED: NO

COM USE: N/A

Comm Control Rec'd Dec. 17, 1980

J. Konec

for B.P. Kononetz



NONCONFORMANCE REPORT

SIO 1-B66

10 1/19/79

1. Project Name MIDLAND		Job No. 7220		19. No. 2331	20. Page 1 of 2
2. Unit(s) 1	3. Drawing/Part No. M-603-SH.7	Rev 4/F2	4. Item Description CHECK VALVE 2 1/2" CCB-CK-L (403-2-061)	5. Item Location Box 100 El 606' E of West of 5-6	
6. P.O. or Spec No. N/A	7. Serial No. SEE BULK # 4	8. Replacement Part PIN N/A REV N/A	9. Source CONSTRUCTION	10. Contractor/Supplier N/A	
11. Inspection Criteria ☐ DWG ☐ SPEC ☒ OTHER NO. FIP 2.112 REV D		12. ASME AUTHORIZED INSPECTION REQ'D ☒ YES ☐ NO		13. SKETCH ATTACHED ☐ YES ☒ NO	
16. Nonconforming Condition: FIP-2.112-1.0 REV. D, STATES IN PART: PURPOSE OF THIS INSTRUCTION IS TO PROVIDE GUIDELINES REQUIREMENTS FOR THE DISASSEMBLY & REASSEMBLY OF VALVES AS NECESSITATED BY COMS ACTION REQUIREMENTS.		14. Discovered During ☒ REC-G ☐ CONST ☐ TEST ☐ CLIENT ☐ ENG ☐ FLD		15. Equip Furnished By	
TO PROVIDE GUIDELINES REQUIREMENTS FOR THE DISASSEMBLY & REASSEMBLY OF VALVES AS NECESSITATED BY COMS ACTION REQUIREMENTS.		24. Disposition Concurrence			
CONTRARY TO THE ABOVE: 2 1/2" CHECK VALV (403-2-061) SN 2N785, HAS HAD BOTH HINGE PIN COVERS & HINGE PINS DISASSEMBLED, WITHOUT USE OF FIELD INSTRUCTION FIP-2.112. THEREFORE LEAVING THE OPERATIONAL & PRESSURE RETAINING VALUE OF SAID VALVE INDETERMINATE.		REWORK		REJECT	
Q. List # 4.0310 (1) ONE HOLD TAG APPLIED TO CHECK VALVE		REPAIR		USE AS IS	
17. Reported By [Signature]		18. Validated By [Signature]		25. Disposition Results	
Date 7-9-79		Date 7-10-79		Value (403-2-061) SN: 2N785 was disassembled and reassembled per Vendor maintenance manual M123C-46-5. See copy of Field Inspection Report (attached).	
21. Routing ☒ TO FIELD ENGINEERING ☐ TO OTHERS (SPECIFY)		22. ☒ Field Engineering Disposition ☐ FIELD ENGINEERING RECOMMENDED DISPOSITION TO PROJECT ENGINEERING		D. Shatt 8-6-79	
Remove the valve hinge pin covers one at a time and remove any foreign material. Install new hinge pin gaskets and replace covers. All work to be performed in accordance with FIP-2.112 and vendor maintenance manual M123C-46 Note new gaskets, studs, and nuts are to be installed.		23. Project Engineering Disposition		26. QC Acceptance [Signature] QC ENGINEER [Signature] AUTHORIZED INSPECTOR	
				DATE 7-27-81	



FIELD INSPECTION REPORT

3. RECORD CONTROL

CONTROL NO. 219FILE NO. 11. PROJECT NO. 22202. DATE 1/27/81PAGE 1OF 2

4. ITEM INSPECTED Work to close WCR 2331, Valve disassembled without
use of RP2.112. Valve (403-2-061) S/N: 2N785 P1.30-M603-F-5
(rev) log #11847

See continuation sheet

5. LOCATION Aux Bldg E1.606' East of S.6 and 10/27/81 3'-3" East of S.6
1'-6" North of E
South 10/27/81

6. TYPE OF INSPECTION Visual

7. STANDARD / CODE / PROCEDURE / DRAWING / SPECIFICATION M204 rev 14, Verdor Dwg M123C-46-3

8. INSPECTION EQUIPMENT USED Flashlight, Torque Wrench

9. RESULTS OF INSPECTION:

SATISFACTORY ☒UNSATISFACTORY ☐

10. ACTION TAKEN IF UNSATISFACTORY

INSPECTION ASSIGNED TO P. AmosASSIGNED BY C. L. L. L.

QCE LEVEL II 1/27/81

IN ACCORDANCE WITH RFP G-8.1 PARA. 7.2

COMPLETED FORM REVIEWED BY W. L. L.

QCE LEVEL II 1/29/81

Distribution:
White - QC Files
Canary - Originator

11. ENGINEER P. Amos



CONTINUATION SHEET

3. RECORD CONTROL

CONTROL NO. N/AEDFILE NO. ↓ ↓1. PROJECT NO. 072202. DATE 1/28/814. PAGE 2 OF 25. BLOCK CONT'D
1/46. FORM NO.
QC-G1-1

7. REPORT NAME

Field Inspection Report - Reassembly of Valve 4042-61

Block 4 continued

Valve (404-2-61) SN: SN 785 NCR 1366 F130-604-7.2
789 60 1/2 9/81The disassembly and reassembly of the valve was performed under Q.C. surveillanceValve internals were inspected and found to be clean and free of damageMaterials which were replaced, were purchased on P.O.'s F28934 (AEO 7287) and F45518 (AEO 13053). The items which were replaced are:

- 1.) hinge pin covers and gaskets (2 of each)
- 2.) hinge pin
- 3.) Pressure retaining gasket
- 4.) Four (4) studs and nuts for hinge pin cover

The 4 cast studs for hinge pin cover were torqued per manufacturer's instructions with torque wrench BPC C306
CAL EXP DATE 6/9/81Torqued 4 west studs for hinge pin cover and bonnet studs per manufac. instruc. with torque wrench BPC C306
CAL EXP DATE 6/9/81

Distribution:
White - QC Files
Canary - Originator

9. ENGINEER Robert J. Jones

MECH.



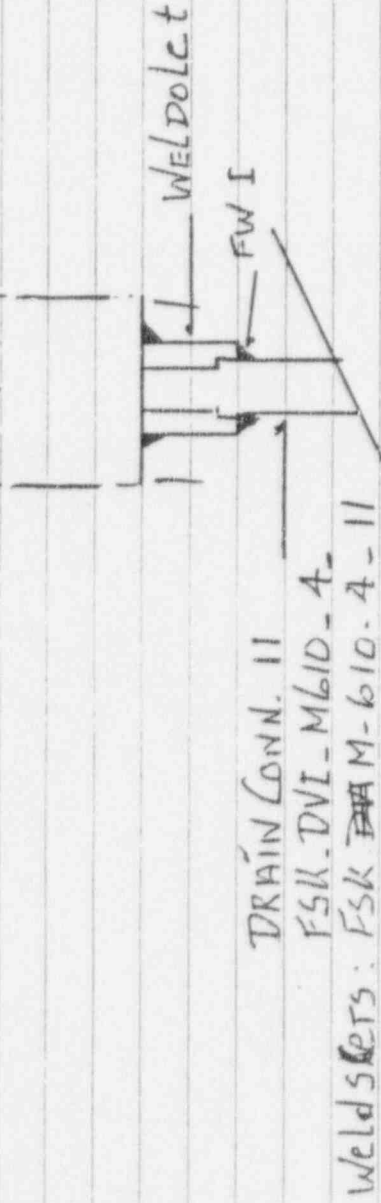
NONCONFORMANCE REPORT

1. PROJECT NAME Midland Unit #7-2		JOB NO. 7220		19. 2849 NO.	20. PAGE 1 OF 2
2. UNITS 1	3. DRAWING/PART NO. M-610-A	REV. 1/23	4. ITEM DESCRIPTION DRAIN CWN. #11 (10" FCB-42)	5. ITEM LOCATION E15895" W.W.	
6. P.O. OR SPEC NO. 1/12	7. SERIAL NO. 1/12	8. REPLACEMENT PART P/N 1/12 REV 1/12	9. SOURCE CON 57	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO		13. SKETCH ATTACHED () YES () NO	
14. DISCOVERED DURING () REC'G () TEST		15. EQUIP FURNISHED BY () CLIENT () ENG () FLD		16. NONCONFORMING CONDITION: REQUIREMENT: SPEC. M204, 5.2.1 STATES (CARE SHOULD BE TAKEN IN HANDLING AND INSTALLATION OF PIPING TO PREVENT SURFACE DAMAGE D-N-6-252 1/12 4.104 CONDITION: CUMMERY TO ABOVE. ^{GUARVEILLABLE} SMOOTHNESS INSPECTOR (UT) REVEALED A 1/4" CRACK IN WELDED APPR. 1" - SEE SKETCHES ATTACHED -	
17. REPORTED BY 1/11/80		18. VALIDATED BY 1/14-80		25. DISPOSITION RESULTS DEFECTIVE COUPLING WAS REMOVED AND DISCARDED. NEW COUPLING WAS INSTALLED AS PER FIELD ENGINEERING DISPOSITION IN BLOCK 22.	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering Remove defective CPLG and discard. Reinstall proper half CPLG in accordance with drawg # M-488. 1-28-80 1/29/80			
23. PROJECT ENGINEERING DISPOSITION NOTE: BLACK #11, CORRECT OR 15 P110-FSK-610-A-3 A, CWN #1099. J. P. P. 3.10.80 26. ACCURACY 26. C.C. 1-8-81 DATE 3-10-80 DATE 3-10-80 DATE 1/6/81					

5/4/13CA



Ref. M-610-4-12/F3

Decay Heat Removal
discharge - System "A"
Unit #710' - SPool 1 CB-42
S 610-4-2
MP. 78-28

a. Note: Discusst with Mr. K. Anderson-FWE.
Confirmed with P.T. Examination. - 1-11-'80

b. Weldolet ser NO: Not Readable -

c. Hold tack applied to Drain Conn. (Weldolet) (1)

E. Discusst with Mr. Bruce McKencie. - 1-11-'80

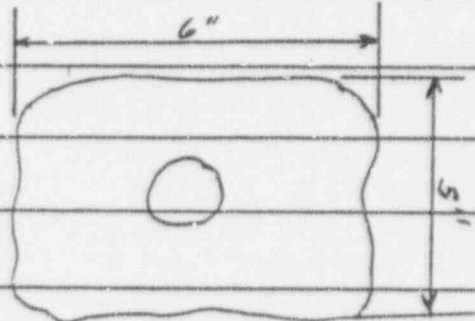
D. P.T. Performed By Robby N#5 Reported. 1-14-'80
"after Grinding" -

Number 9479

NONDESTRUCTIVE EXAMINATION REPORT

<u>ASME SEC III</u>		<u>Reference NCR#2849</u>	
Job No. and Project Location <u>7220 Midland, Michigan</u>		Date <u>2-21-80</u>	
Surface Condition <u>ground smooth</u>	Time of Examination <u>after Removal of cracked Half Coupling</u> Before PWHT <u>N/A</u> After PWHT <u>W/A</u>		Iso/Dwg Number <u>M-610 sht 4</u>
Type of Examination PT ☒ MT () UT () Other ()	Type and Temp. of Material <u>S/S</u> <u>75°F per BPC 2738</u> <u>calib exp date 9-19-80</u>		NDE Procedure No. <u>PT(SR) ASME Rev O</u>
Specification Standard <u>Spec G-27 / Spec M-204</u>		Acceptance Standard <u>ASME SEC III / PT(SR) ASME Rev.</u>	
Defect Code			

C—Cracks P—Porosity NF—Nonfusion S—Slag R—Rounded L—LINEAR Other—Specify

Part or Weld Number	ACC	REJ	Defect Code	Remarks
<u>PT of a 5"x6" Area around Half Coupling See Remarks</u>				 <u>PT area</u> <u>after Removal of cracked Half Coupling</u>

Page 3 Of 3

NOTES: _____

Enclosure Added: Yes () No ☒
Timothy O. Anderson Level II
Examiner Kang T. Juhmes
Witnessed by _____



ENR. S. PAYNE

NONCONFORMANCE REPORT

1. PROJECT NAME

MIDLAND

JOB NO.

7220

2. UNIT(S)

COMMON

3. DRAWING/PART NO.

N/A

4. ITEM DESCRIPTION

CUT REBAR

REV

N/A

8. REPLACEMENT PART

P/N N/A REV N/A

SER NO.

N/A

12. ASME AUTHORIZED INSPECTION REQ'D

YES NO

13. SKETCH ATTACHED

YES NO

14. DISCOVERED DURING

TEST

15. EQUIP FURNISHED BY

CLIENT / ENG

16. NONCONFORMING CONDITION:

APPENDIX D, PART 2.2, STATES "IN LIEU OF SECTION 2.1

ABOVE, TWO BARS MAY BE CUT EACH WAY, EACH FACE PROVIDED THE MINIMUM

RADIAL DISTANCE TO THE NEXT CUT BAR ON THE SAME FACE, IN THE

SAME DIRECTION IS AT LEAST TEN FEET." CONTRARY TO THIS, 3

EAST-WEST BARS WERE CUT WHILE CORE DRILLING FOR GRouted ANCHOR

BOLTS FOR PIPE HANGER # 633-2-17, IN BC-322-H8, (X LIST #1, 203,

ONE HOLE THE APPLIED, HOLD FOR ENGINEERING DISPOSITION.

17. REPORTED BY

DATE

18. VALIDATED BY

DATE

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

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

Project Engineering to evaluate the 3 cut east-west bars reported

in block 16 however, be advised that 4 of the 10 anchor bolt holes

for hanger # 633-217 are not complete. In order to complete

the installation of this hanger as designed, the following rebar

will have to be cut in addition to those already cut: One cap bar,

23. PROJECT ENGINEERING DISPOSITION TOO MANY OF THE REINFORCING BARS HAVE BEEN CUT,

FOR THE FLOOR SLAB TO ADEQUATELY SUPPORT THE PIPE RESTRAINT LOAD. REFER

TO PAGE 3, WHICH SHOWS A SKETCH OF THE CONCRETE AND CUT REBAR

TO BE REMOVED AND REPLACED, WITH PROCEDURE NOTES FOR THE WORK.

THE RESTRAINT LOADS CAN ADEQUATELY SUPPORT THE PIPE

RESTRAINT LOADS. NO DOCUMENT CHANGE READ.

SEE PAGE 7 FOR REDISPOSITION

CALCULATED 10.230.2

25. DISPOSITION CONSEQUENCE

remotely reject repair use as is

26. QC ACCEPTANCE

QC ENGINEER

AUTHORIZED INSPECTOR

DATE

19. NO.

20. PAGE

5. ITEM LOCATION

SLAB # 634.2.1

H = 5.3 LINES

10. CONTRACTOR/SUPPLIER

N/A

15. EQUIP FURNISHED BY

CLIENT / ENG

24. DISPOSITION CONSEQUENCE

remotely reject repair use as is

25. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

26. QC ACCEPTANCE

QC ENGINEER

AUTHORIZED INSPECTOR

DATE

27. DISPOSITION CONSEQUENCE

remotely reject repair use as is

28. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

29. DISPOSITION CONSEQUENCE

remotely reject repair use as is

30. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

31. DISPOSITION CONSEQUENCE

remotely reject repair use as is

32. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

33. DISPOSITION CONSEQUENCE

remotely reject repair use as is

34. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

35. DISPOSITION CONSEQUENCE

remotely reject repair use as is

36. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

37. DISPOSITION CONSEQUENCE

remotely reject repair use as is

38. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

39. DISPOSITION CONSEQUENCE

remotely reject repair use as is

40. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

41. DISPOSITION CONSEQUENCE

remotely reject repair use as is

42. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

43. DISPOSITION CONSEQUENCE

remotely reject repair use as is

44. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

45. DISPOSITION CONSEQUENCE

remotely reject repair use as is

46. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

47. DISPOSITION CONSEQUENCE

remotely reject repair use as is

48. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

49. DISPOSITION CONSEQUENCE

remotely reject repair use as is

50. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

51. DISPOSITION CONSEQUENCE

remotely reject repair use as is

52. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

53. DISPOSITION CONSEQUENCE

remotely reject repair use as is

54. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

55. DISPOSITION CONSEQUENCE

remotely reject repair use as is

56. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

57. DISPOSITION CONSEQUENCE

remotely reject repair use as is

58. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

59. DISPOSITION CONSEQUENCE

remotely reject repair use as is

60. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

61. DISPOSITION CONSEQUENCE

remotely reject repair use as is

62. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

63. DISPOSITION CONSEQUENCE

remotely reject repair use as is

64. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

65. DISPOSITION CONSEQUENCE

remotely reject repair use as is

66. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

67. DISPOSITION CONSEQUENCE

remotely reject repair use as is

68. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

69. DISPOSITION CONSEQUENCE

remotely reject repair use as is

70. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

71. DISPOSITION CONSEQUENCE

remotely reject repair use as is

72. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

73. DISPOSITION CONSEQUENCE

remotely reject repair use as is

74. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

75. DISPOSITION CONSEQUENCE

remotely reject repair use as is

76. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

77. DISPOSITION CONSEQUENCE

remotely reject repair use as is

78. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

79. DISPOSITION CONSEQUENCE

remotely reject repair use as is

80. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

81. DISPOSITION CONSEQUENCE

remotely reject repair use as is

82. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

83. DISPOSITION CONSEQUENCE

remotely reject repair use as is

84. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

85. DISPOSITION CONSEQUENCE

remotely reject repair use as is

86. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

87. DISPOSITION CONSEQUENCE

remotely reject repair use as is

88. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

89. DISPOSITION CONSEQUENCE

remotely reject repair use as is

90. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

91. DISPOSITION CONSEQUENCE

remotely reject repair use as is

92. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

93. DISPOSITION CONSEQUENCE

remotely reject repair use as is

94. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

95. DISPOSITION CONSEQUENCE

remotely reject repair use as is

96. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

97. DISPOSITION CONSEQUENCE

remotely reject repair use as is

98. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

99. DISPOSITION CONSEQUENCE

remotely reject repair use as is

100. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

101. DISPOSITION CONSEQUENCE

remotely reject repair use as is

102. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

103. DISPOSITION CONSEQUENCE

remotely reject repair use as is

104. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

105. DISPOSITION CONSEQUENCE

remotely reject repair use as is

106. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

107. DISPOSITION CONSEQUENCE

remotely reject repair use as is

108. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

109. DISPOSITION CONSEQUENCE

remotely reject repair use as is

110. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

111. DISPOSITION CONSEQUENCE

remotely reject repair use as is

112. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

113. DISPOSITION CONSEQUENCE

remotely reject repair use as is

114. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

115. DISPOSITION CONSEQUENCE

remotely reject repair use as is

116. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

117. DISPOSITION CONSEQUENCE

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118. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

119. DISPOSITION CONSEQUENCE

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120. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

121. DISPOSITION CONSEQUENCE

remotely reject repair use as is

122. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

123. DISPOSITION CONSEQUENCE

remotely reject repair use as is

124. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

125. DISPOSITION CONSEQUENCE

remotely reject repair use as is

126. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

127. DISPOSITION CONSEQUENCE

remotely reject repair use as is

128. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

129. DISPOSITION CONSEQUENCE

remotely reject repair use as is

130. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

131. DISPOSITION CONSEQUENCE

remotely reject repair use as is

132. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

133. DISPOSITION CONSEQUENCE

remotely reject repair use as is

134. DISPOSITION RESULTS

AUTHORIZED INSPECTOR

DATE

135. DISPOSITION CONSEQUENCE

remotely reject repair use as is

136. DISPOSITION RESULTS



NONCONFORMANCE REPORT (CONT'D)

20 PAGE

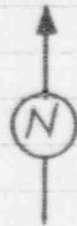
2 OF 2

19NCR NO 3002

blk. 22 cont.) one north-south bar at the far face (one north-south bar is already cut at the far face), and one more north-south bar at the near face (two north-south bars are already cut at the near face). Other rebar may be encountered in addition to the before mentioned rebar when the four unfinished holes are drilled deeper. Project to evaluate for cutting all rebar shown on the attached sketch (pg 3). If this is acceptable, the field will follow up with a F.C.R. to cover the rebar not yet cut.

Paul Seguen 6/26/80

blk. 16 cont.)



TENDON
SERVICE
SHAFT

5'-3"

1'-7"

1'-0"

2'-1 1/2"

6"

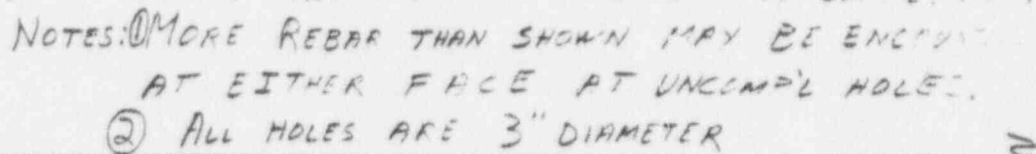
2'-3"

T.O.C. 634'-6"

5.3

H

PLAN @ 634'-6"
NOT TO SCALE



1. CHIP AWAY CON. RETE, EXPOSING ALL CUT BARS TO THE BOUNDARY SURFACE.
IF POSSIBLE, DO NOT UNCOVER UN-CUT BARS, OR THE SHEAR STUDS ON THE W30 BEAM.
"CORRECT THE CURB ANGLE, IF DISTURBED IN CHIPPING CONCRETE".
SPlice NEW #5 BAR SECTIONS TO RESTORE CUT BARS TO DESIGN LENGTH, ALL
"PLICES SHALL BE AT LEAST 18 INCHES IN LENGTH."
"PUT THE ANCHORS IN POSITION, MOVING REBAR ASIDE, WHERE INTERFERENCE EXISTS."
PLACE CONCRETE TO DRAINAGE DIMENSIONS.

202 7/30 = 20

NCR 30025-118-113
pg 3 of 3
11-25-80



(BLK 22 CONT.)

The field does not wish to do the repair work as dispositioned by Project Engineering on 7-31-80 but instead will do the repair work as follows (Project Engineering to concur):

1. The five N.F. No. 5 cut rebar will be restored to their design length.
2. Concrete will be chipped as necessary for rebar repair and anchor bolt installation.
3. The one No. 5 F.F. cut rebar (see page 3) will not be repaired since the existing condition does not exceed specified tolerances and repair would result in providing an extension of only 9"± to the existing bar.
4. Concrete will be repaired or replaced in accordance with Section 17 of Spec. 7220 C-231.

Randy P. Widner 8-13-80
Paul D. Dugan 8/14/80

(BLK 22 CONT.) (X) FIELD ENGINEERING RECOMMENDED DISPOSITION TO PROJECT ENGINEERING; THE FIELD HAS INITIATED REPAIRS PER PREVIOUS PROJECT AND FIELD ENGINEERING DISPOSITIONS. DUE TO REBAR CONGESTION NEAR THE CURB ANGLE THE CONCRETE CANNOT BE CHIPPED BACK FAR ENOUGH TO RESTORE THE CUT BARS TO THEIR ORIGINAL DESIGN LENGTH. THERE IS ROOM TO INSTALL HOKED BARS UNDER THE CURB ANGLE TO REPLACE THE CUT EAST-WEST BARS AT HOLES #1 AND #2 (SEE DETAIL 1) HOWEVER, THE CONCRETE CAN NOT BE CHIPPED BACK FAR ENOUGH TO ENABLE EXTENDING THESE HOKED BARS NEARER THAN 5" FROM THE EDGE OF THE OPENING. AFTER CHIPPING THE SLAB, IT WAS DISCOVERED THAT THERE ARE MORE NORTH-SOUTH BARS CUT AT THESE LOCATIONS THE END OF A LAP SPICE. THE SPICE LENGTH WAS BARELY REDUCED BY 2". THE FIELD RECOMMENDS TO USE THIS BAR AT HOLE #8 WILL BE REPAIRED BY CHIDWELDING. THE EAST-WEST BAR AT HOLE #3 (BAR C) WILL HAVE TO BE CUT IN ORDER TO INSTALL THE ANCHOR BOLT. THIS BAR CAN BE SEEN TURNING DOWN IN HOLE #3. THIS INDICATES THAT IT IS A CHIP BAR.



THAN REQUIRED BARS U, T AND X ARE NOT REQUIRED AND HAVE NOT BEEN CUT. THE FIELD RECOMMENDS TO USE THE NORTH-SOUTH BARS CUT AT HOLE #1 (BARS RAKDS) AS IS, BASED ON THE EXISTENCE OF BARS U AND T. IT WAS DISCOVERED THAT THERE IS ANOTHER NORTH-SOUTH BAR CUT AT HOLE #4, THAT WAS NOT REPORTED IN BLOCK 16. THE FIELD RECOMMENDS TO USE THIS CUT BAR AS IS BASED ON THE EXISTENCE OF BAR X. THE NORTH-SOUTH BAR CUT AT HOLE #10 WAS THE END OF A LAP SPICE. THE SPICE LENGTH HAS BEEN REDUCED BY 8". THE FIELD RECOMMENDS TO USE THIS BAR AS IS. THE CUT EAST-WEST BAR AT HOLE #8 WILL BE REPAIRED BY CAPWELDING. THE EAST-WEST BAR AT HOLE #3 (BAR L) WILL HAVE TO BE CUT IN ORDER TO INSTALL THE ANCHOR BOLT. THIS BAR CAN BE SEEN TURNING DOWN IN HOLE #3. THIS INDICATES THAT IT IS A CAP BAR. HOWEVER, IT HAS EXCESSIVE CONCRETE COVER (6 1/2") IT IS APPARENT THAT BAR J WAS PLACED AFTER IT WAS DISCOVERED THAT BAR L HAD EXCESSIVE COVER. THEREFORE, THE FIELD RECOMMENDS CUTTING BAR L SINCE IT IS ESSENTIALLY REPLACED BY BAR J. ^{aka ho}

PROJECT ENGINEERING TO CONCUR THAT THE CUT NORTH-SOUTH #5 BOTTOM SLAB BAR IN HOLE #5 NEED NOT BE REPAIRED DUE TO THE EXTENSIVE REWORK INVOLVED AND POSSIBLE ADDITIONAL DAMAGE. IT SHOULD BE NOTED THAT THIS CUT REBAR IS WITHIN THE ALLOWABLE LIMITS OF SPEC. C-306 AND ITS REPAIR WOULD RESULT IN ADDING ONLY 9" TO THE EXISTING BAR.

IN ADDITION, WHILE THE SLAB WAS BEING CHIPPED, BARS F, K, L, P AND R WERE DAMAGED (NICKS UP TO 1/4" DEEP) AND BAR Q WAS NICKED WHILE CORE DRILLING HOLE #10. THE FIELD RECOMMENDS BASE METAL REPAIR ON THESE BARS WHERE REQUIRED. WELD PROCEDURES PI-REPAIR, ~~OR~~ ^{REBAR} THE REV. 1, (SPEC. G-27) DOES NOT COVER BASE METAL REPAIRS. THE FIELD REQUESTS GUIDELINES FROM PROJECT ENGINEERING TO FACILITATE THESE REPAIRS.

7/3
4/4/k

Paul Piquero 10/31/20

NCR 2002 8709 608 22-11-80

IS CUT AT
FACE WILL NO
BE REPAIRED.

THIS CUT BAR WAS
NOT REPORTED IN BLOCK
IS ON ORIGINAL NCR.

22-1HBC-322

30.

$$Z$$



BLOCK 23 (CONTINUED):

PROJECT ENGINEERING HAS REVIEWED FIELD ENGINEERING'S REVISED DISPOSITION AND HAS CONCLUDED THE FOLLOWING. THE ADDITIONAL REBARS COMPENSATE FOR MANY OF THE CUT AND NICKED REBARS. BARS R AND S ARE COMPENSATED FOR BY BARS U AND T. BAR M IS COMPENSATED FOR BY BAR O. BAR G IS COMPENSATED FOR BY BAR I. BAR Y IS COMPENSATED FOR BY BAR X WHICH SHALL NOT BE CUT DURING INSTALLATION OF ANCHOR BOLT IN HOLE #6. THE BAR CUT BY HOLE #10 WAS ONLY AT THE END OF THE BAR AND REDUCTION IN LENGTH IS NOT DETRIMENTAL. BAR L MAY BE CUT TO ALLOW COMPLETION OF DRILLING OF HOLE #3 AND IS COMPENSATED FOR BY BAR J. BAR F IS ^{BAR #10} EXTRA, BUT SINCE IT HAS BEEN NICKED IT SHALL BE NEGLECTED. THE CUT BAR AT FAR FACE IN HOLE #5 NEED NOT BE REPAIRED AS IT FALLS WITHIN THE REBAR CUTTING REQUIREMENTS OF SPEC. C-306(Q). BARS D, P AND Q SHALL BE DEFINED AS CUT AND ARE WITHIN THE LIMITS OF SPEC C-306(Q). REVIEW OF ANCHOR BOLT HOLES AND REINFORCEMENT (REF CALC. #23C.3) REVEALS NO RELEVANT DEFICIENCY. THEREFORE, PROJECT ENGINEERING RECOMMENDS "USE AS IS."

NO DIAG CHANGE REQUIRED
NO COORDINATION REQUIRED

Alan V. Dausman 11/24/80
REM C-2865

RE. L. S. Ye 12-12-80
JLH 12-12-80



NONCONFORMANCE REPORT (CONT'D)

8 2 8 2 10 11 20
8 2 8 2 10 11 20
20. PAGE 9 OF 9
19. NCR NO. 3002

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
			☒
PROJECT FIELD ENGINEER		DATE 12/10/80	
PROJECT ENGINEER		DATE 12/12/80	
PROJECT CONSTR QC ENGINEER		DATE 12/24/80	
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

S/V - Non-Testable

1. PROJECT NAME MIDLAND		JOB NO. 1220		19. NO. 3112	20. PAGE 1 OF 2
2. UNIT(S) COMMON	3. DRAWING/PART NO. N/A	REV	4. ITEM DESCRIPTION CONCRETE SLUMP EXCEEDS LIMITS	5. ITEM LOCATION South Service Water Pit	
6. EQ. OR SPEC NO. C-230	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 GULFED CONCRETE
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec'g () Const (X) Test	15. Equip Furnished By () Client () Eng () FLID
16. NONCONFORMING CONDITION: SPEC. C-230 Rev. 117, Section 9.1.3 (SLUMP) states IN PART, "THE WORKING LIMIT, AS SPECIFIED IN TABLE 9.1, will be the BASIS FOR EVALUATING CONCRETE CONSISTENCY AT THE POINT OF PLACEMENT. THE INADVERTENCY MARGIN IS THE ALLOWABLE DEVIATION FROM THE WORKING LIMIT". CONTRARY TO THE ABOVE (AND TABLE 9.1) 9 YDS. OF CONCRETE EXCEEDING THE ALLOWABLE LIMITS BY 1/2" WERE PLACED IN POUR # 1 (628.42) B. TICKET # 40035. HOLD FOR ENGINEERING DISPOSITION. QUST-1,505.				24. DISPOSITION CONCURRENCE rework reject repair use as is PROJECT FIELD ENGINEER 1/7/81 PROJECT ENGINEER 12/18/80 PROJ CONSTR QC ENGINEER 1/8/81 AUTHORIZED INSPECTOR DATE	
17. REPORTED BY Lane May		18. VALIDATED BY S. J. Smith		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 ENGINEERING RECOMMENDS TO "USE AS IS". THE REMAINING CONCRETE WAS PLACED WITH A SLUMP OF 3 1/2". CYLINDERS WERE CAST FROM THE NONCONFORMING MATERIAL WITH 28 DAY STRENGTHS OF 3500 PSI. THE STRENGTHS ARE ANTICIPATED TO MEET.					
23. PROJECT ENGINEERING DISPOSITION The design strength of the concrete in question is 4000 p.s.i. @ 90 days. As per information supplied by J. Kelleher the cylinders for 90 days had an average strength of 4845 p.s.i. (cylinder batch # 4724 F). The cylinder strength exceeds the design strength by 845 p.s.i. The concrete and the cylinders should be acceptable. The recommended disposition is "USE AS IS". No calculations are required.					
28. QC ACCEPTANCE QC ENGINEER AUTHORIZED INSPECTOR				DATE 1/9/81 DATE	

P. Pruey 12/10/80 P.S. 12/16/80 P. Shufw B. Har 12-18-80

SPECIFICATION REQUIREMENTS BASED ON DATA FROM PAST POURS, THE INFORMATION IS AS FOLLOWS:

10/17/80
G.D.

Paul Rogers
10/7/80

Black 16 (cont.)

Dr. H. Bobb / 10/7/80
DATE

106-188-
DATE
PEACE

Donald E. Horn 10/7/80
NPGAD DATE

IN-PROCESS CONCRETE TEST REPORT

Q.C. Acceptance

Date

Control No.

File No.

Inspection Record No. C-130-822 130-825 2. Date 9/8/80 3. Page of

CONCRETE PLACEMENT IDENTIFICATION

4. Placement Identification Pour # 4(628.42) B'ET(627)C Thin Section ☒ Thick ☐ Mass ☐
5. Concrete Class I 6. Mix No. C-1 7. Entrained Air Content Limits 3-6
8. Slump Working Limits 3" 9. Inadvertancy Margin 2"
10. Concrete Placing Temperature Limits 85°F MAX 11. Weather Conditions Applicable

Hot ☒ Cold ☐

12 Ticket No.	13 Truck No.	14 Time	15 Cum. Yardage	16 Sampling Point	17 Slump ASTM	18 Air Ent. ASTM	19 Conc. Temp.	20 Air Temp.	21 Unit Wt. ASTM	22 Conc. Cyls. ASTM C-31-79
40035	16	1235	9	TG	5 3/4	5.6	77	81		
				TD	7 1/6 3/4	4.3	78	79		
				EOL	5 1/2	4.0	78	79		4124 15 6
40036	17	115pm	18	TG	3 1/2	4				
				EOL	3 1/2	4				
40037	18	115pm	27							
40039	16	2:20pm	36							

22. TESTING EQUIPMENT

Slump Rod	154, 538	** 511, 540	Calibration	Due Date	4-4-80 / 11/20/80
Slump Cone	361, 147		Calibration	Due Date	4-19-80, 10-24-80
Air Meter No.	88, 316		Calibration	Due Date	4-1-80, 10-29-80
Unit Wt. Cont. No.	N/A		Calibration	Due Date	N/A
Scale No.	MA		Calibration	Due Date	N/A
Thermometer No.	429		Calibration	Due Date	2-22-81

23. Concrete Rejected Cu. Yards 10
24. Concrete Sampled & Tested by SAT RM, TWS RB*
25. Quality Control Engineer Lane May 26. Date 9/8/80

Shelby County

These goods do not have an "X" stamp on the outside, indicating they are not for export. It is reported that the goods are on the way to the U.S. and will be sold for a profit.

Q. 10 4.10.14

Had a fine day. 10/10/10

Note. Text B66-236 & quoted in B66-47 X slip
less sports "as per".

[illegible]



NONCONFORMANCE REPORT (CONT'D)

20. PAGE 3 OF 3 ⁸ 4-23-80 19. NCR NO. 3116

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
☒	☐	☐	☐
PROJECT FIELD ENGINEER		DATE 9/25/80	
PROJECT ENGINEER		DATE 10/24/80	
PROJECT CONSTR OC ENGINEER		DATE 10-2-80	
AUTHORIZED INSPECTOR		DATE	

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

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

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

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

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

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

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

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

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

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

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



FIELD INSPECTION REPORT

3. RECORD CONTROL

CONTROL NO. _____

FILE NO. _____

1. PROJECT NO 72202. DATE 1-28-81PAGE 1 OF 24. ITEM INSPECTED NCR 3116

CUT OFF 9(EA) 6" S/S FLANGES HT# HH516, SALVAGE FLANGES
FROM PIPE HT# 312213, PC MK 2FCB-425-611-4-3 PC MK 1FCB-
425-610-44

CUT OFF 1(EA) 6" 90° S/S ELL 1TT GRINNELL PC MK 2FCB 425-610-
4-3

(3) EA PIPE 6" S/S WAS SPLIT AND SCRAPPED 3 Pieces 16.5" LONG
(1) EA PIPE 6" S/S WAS SPLIT AND SCRAPPED 1 Piece 15" LONG
PC MK 2FCB 425-611-4-3

5. LOCATION

COMBO SHOP

6. TYPE OF INSPECTION

VISUAL7. STANDARD / CODE / PROCEDURE / DRAWING / SPECIFICATION REF. NCR # 3116

8. INSPECTION EQUIPMENT USED

12" TAPE

9. RESULTS OF INSPECTION:

SATISFACTORY ☒UNSATISFACTORY ☐

10. ACTION TAKEN IF UNSATISFACTORY

INSPECTION ASSIGNED TO M. MEERS

QCB

ASSIGNED BY W. Smith 1-28-81

QCE LEVEL II

IN ACCORDANCE WITH PSP-G-8.1 PARA. 9.3

COMPLETED FORM REVIEWED BY R. Smith 2/3/81

QCE LEVEL II

Distribution:
White - QC Files
Canary - Originator

11. FIELD ENGINEER

J. Meers



NONCONFORMANCE REPORT

ALAP

NON-TESTABLE

1. PROJECT NAME MIDLAND		JOB NO. 7000		19. 3122 P.O.	20. PAGE 1 OF 2								
2. UNIT(S) COMMON	3. DRAWING/PART NO. C-2022 Rev 1	REV 1	4. ITEM DESCRIPTION SETTLEMENT MONITORING	5. ITEM LOCATION PLANT AREA									
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE CONSTR.	10. CONTRACTOR/SUPPLIER N/A								
11. INSPECTION CRITERIA ☒ DWG ☐ SPEC ☐ OTHER		FIR NO. NO. C-2022 A	12. ASME AUTHORIZED INSPECTION REQ'D ☐ YES ☒ NO	13. SKETCH ATTACHED ☐ YES ☒ NO	14. Discovered During ☐ Rec'g ☒ Const ☐ Test								
15. Equip Furnished By ☐ Client ☒ Eng ☐ FLD													
16. NONCONFORMING CONDITION: NOTE # 2 - DCN # 2 OF DWG. C-2022 REV 1 STATES IN PART "BORROS ANCHORS BA 5 THROUGH 8, 13 THROUGH 16, 20, 23, 34 THROUGH 36, 45, 50, 51, 53, 54, 61 THROUGH 64, BA 100 THROUGH 106, A1 THROUGH A6, AND RODS L-1 THROUGH L-6 SHALL BE MONITORED BY BECHTEL CONSTRUCTION BIWEEKLY UNTIL OCTOBER 31, 1979; MONTHLY UNTIL DECEMBER 31, 1979, AND THEN BIMONTHLY; EXCEPT THEY SHALL BE MONITORED				24. DISPOSITION CONCURRENCE									
				<table border="1"> <tr> <th>work</th> <th>reject</th> <th>repair</th> <th>use as is</th> </tr> <tr> <td>☒</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </table>		work	reject	repair	use as is	☒	☐	☐	☐
work	reject	repair	use as is										
☒	☐	☐	☐										
17. REPORTED BY James G. Seice DATE 9/16/80				18. VALIDATED BY Paul Dugan DATE 9/17/80									
21. ROUTING: ☒ TO FIELD ENGINEERING ☐ TO OTHERS (SPECIFY)													
22. ☒ Field Engineering Disposition ☒ Field Engineering Recommended Disposition to Project Engineering													
Borros anchors 61 through 64 are to be monitored by Goldberg-Zaino-Dunncliff and Associates (GZD) per note # 10 of DCN # 2 to dwg. C-2022. Forward to project engineering for evaluation. Paul Dugan 9/23/80													
23. PROJECT ENGINEERING DISPOSITION													
BA 5 through BA 64 were intended to be monitored once a month by Goldberg-Zaino-Dunncliff and Associates (GZD) as indicated in note no. 10 (in 2.2 for DWG 7000-C-2022 a). Goldberg-Zaino-Dunncliff has indicated that weekly monitoring of these rods is not necessary to evaluate for settlement during construction. Based on this, project engineering has recommended that the rods be monitored monthly.													
26. DC ACCEPTANCE James G. Seice DATE 1/27/81													
27. DC ENGINEER James G. Seice DATE 1/27/81													
28. AUTHORIZED INSPECTOR James G. Seice DATE 1/27/81													

WEEKLY FOR THE INITIAL OPERATING MONTHS OF THE LOCAL DEWATERING CONTRARY TO THE ABOVE, THERE IS NO DOCUMENTED WEEKLY READINGS OF PIERES ANCHORS 61 THROUGH 64.

YOLD FOR ENGINEERING DISPOSITION, NO HEAD TAGS APPLIED

Block no. 23 continue:

Aug. 2270-C-222 (K) will be revised accordingly.

P. Steadman
B. 11/4/82

B. 114/82

D. Freney - GE - 11/14/80

wel nigao 11/11

2011/11/11

George.



NONCONFORMANCE REPORT

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3123		20. PAGE 1 OF 1	
2. UNIT(S) COMMON		3. DRAWING/PART NO. N/A		4. ITEM DESCRIPTION CUT REBAR		5. ITEM LOCATION ALL @ 6 LINE, NO. 603	
6. P-0-04-SPEC NO. C-305(Q) 12		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. C-160-288 NO. C-305(Q) 12		12. ASME AUTHORIZED INSPECTION REC'D () YES (X) NO		14. Disc'g During () Rec'g (X) Const () Test	
16. NONCONFORMING CONDITION: APPENDIX E, PART 2.2, STATES IN PART "TWO BARS MAY BE CUT EACH WAY, EACH FACE, PROVIDED THE MINIMUM RADIAL DISTANCE TO THE NEXT CUT BAR ON THE SAME FACE IN THE SAME DIRECTION SHALL BE TEN (10) FEET. CONTRARY TO THIS, FOUR HORIZONTAL BARS HAVE BEEN CUT WITHIN A 4'-2 1/2" RADIUS. SEE SKETCH ON PAGE 2 OF 2. Q LIST #1, 203 One held tag applied				13. SKETCH ATTACHED (X) YES () NO		15. Equip Furnished By () Client () Eng (X) FLD	
24. DISPOSITION CONCURRENCE				25. DISPOSITION RESULTS		26. QC ACCORDANCE QC ENGINEER 1/16/81 DATE 1/16/81	
17. REPORTED BY Steve Page				18. VALIDATED BY Sgt. E. Smith			
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)				22. () Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering			
Project Engineering to evaluate.				see Page 3 for additional information			
23. PROJECT ENGINEERING DISPOSITION				THIS IS NOT A SHEAR WALL OR LOAD BEARING WALL. MIN. TEMP. REBAR REQ'TS ARE STILL SATISFIED. (CALC. 23C.3) HOWEVER EL2, NO ADDITIONAL REBARS SHALL BE CUT ON THIS WALL. (USE AS IS.)			
MNF. 10/7/80 P. Dunbar				ETP.			
B. Dunbar 10/29/80				10/19/80			

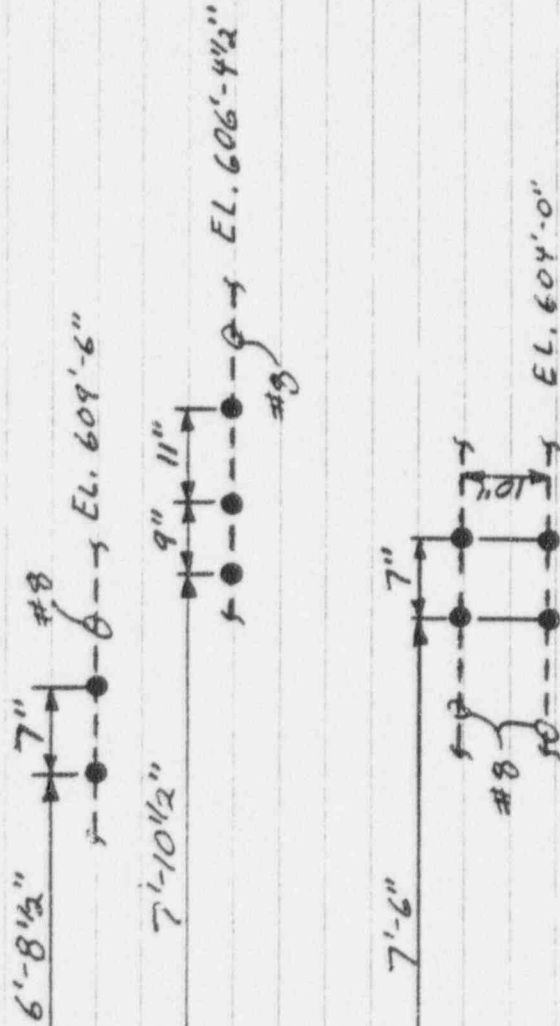
pg. 4 for concurrence

for steel
melay



5.6

5.31



NOTE: THE REBAR AT ELEV. 604'-0", 604'-10",
AND ELEV. 609'-6" WERE REPORTED
ON NCR # 1498.

T.O.C. 574'-0"

WALL @ G LINE
NORTH FACE - LOOKING SOUTH

• Holes
---- #8 cut bars



(Block 22 Continued)

Field Engineering Advises Project Engineering to delete the statement "However, no additional rebars shall be cut on this wall". This will enable QC to close this NCR. If it is Project's intent to restrict rebar cutting other than as called out by Spec. C-305, this information should be noted on drawing C-284.

L. Walker 11-20-80

See Page 1

JAL 12/17/80
P. Prunty 12/19/80
11/20/80
12/18/80
11/20/80



NONCONFORMANCE REPORT (CONT'D)

20. PAGE 3 OF 540

19. NCR NO. 3123

24. 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	
AUTHC 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

Alab
S/U : PKB & 2PKB

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3152	20. PAGE 1 OF 1
2. UNIT(S) I & II	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION 350 MCM 3/c B11 CABLE	5. ITEM LOCATION Aux Bldg GL 1014	
6. P.O. OR SPEC NO. E-22	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A		9. SOURCE CONSTRUCTION	10. CONTRACTOR/SUPPLIER ESSEX
11. INSPECTION CRITERIA () DWG () SPEC (X) OTHER PWT NO. 67-4.0		12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO		13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Rec'g (X) Const () Test
15. Equip Furnished By () Client (X) Eng () FLD				16. NONCONFORMING CONDITION: Contrary to hold placed on Q Cable by TWX BEBC-4118 dated 6-24-80 and TWX BEBC-4276 dated 8-15-80 the cables for scheme numbers 1BD2001AC, 1BD2001AD, 2BD2001AA, 2BD2001AC, & 2BD2001AD have been installed.	
17. REPORTED BY Jeffrey Lange 10-2-80				18. VALIDATED BY Raymond R. Smith 10/2/80	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)				24. DISPOSITION CONCURRENCE rework reject repair use as is PROJECT FIELD ENGINEER 10/3/80 PROJECT ENGINEER 10/3/80 PROJ CONSTR QC ENGINEER 11-4-80	
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering				25. DISPOSITION RESULTS ESSEX CABLE REMOVED FROM HOLD (LEFT FOR CONTAMINANTS) BY PROJECT ENG. Jeffrey Lange 1-5-81	
23. PROJECT ENGINEERING DISPOSITION CABLES WILL BE USED AS TEMPORARY FEEDS TO CHARGE BATTERIES. CABLES ARE RETRIEVABLE AND CAN BE REPELLED IF VENDOR CANNOT QUALIFY THEIR SLICES. WHEN HOLD, PER REFERENCED TWX'S REMOVED CABLES WILL BE USED AS PERMANENT CABLES. REFER TO BEBC-4431 DATED 10-15-80. CABLES 2BD2001AA, 2BD2001AC, & 2BD2001AD WERE CUT FROM REEL #4713. CABLES 1BD2001AC & 1BD2001AD WERE CUT FROM REEL #589. HOLD HAS BEEN REMOVED FOR CABLES CUT FROM REEL #4713, CABLES 2BD2001AA, 2BD2001AC, & 2BD2001AD CAN BE INSTALLED AS PERMANENT. HOLD REMAINS IN EFFECT FOR CABLE CUT FROM REEL #589, CABLES 1BD2001AC & 1BD2001AD				26. QC ACCEPTANCE QC ENGINEER 1-5-81 AUTHORIZED INSPECTOR DATE	



(BLK 14 CONT)

A CONDITIONAL RELEASE IS GRANTED TO RELEASE CABLES # 1BD2001AC, 1BD2001AD, 2BD2001AC, AND 2BD2001AD FOR TERMINATION AND THE CHARGING OF THE BATTERIES. IF NEEDED, SUBJECT CABLES CAN BE REPULLED USING NEW CABLE. CORRECTION OR REMOVAL CAN BE ACCOMPLISHED WITHOUT CAUSING DAMAGE OR CONTAMINATION TO ASSOCIATED PLANT EQUIPMENT OR STRUCTURE.

ABott/KG 10/16/80
DATE

and E. Smith 10/16/80
PERCE DATE

11/10/80
CPQAD DATE

(BLK 22 CONT.)

CABLES ARE BEING USED TO CHARGE BATTERIES. CABLES ARE RETRIEVABLE. *Raymond Schuffe* 10/15/80
GM

(BLK 23 CONT) ARE TO BE CONDITIONALLY RELEASED AND INSTALLED AS TEMPORARY UNTIL VENDOR SUPPLIES QUALIFICATION DATA FOR INSULATION REPAIR. NO DRAWING REVISION REQUIRED. AAO CONTACT: A. JULKA
USE AS IS. CABLES ARE RETRIEVABLE AND CAN BE REPLACED IF NECESSARY. QUALIFICATION DATA IS NOT ACCEPTABLE.

10/21/80

Don't Supple 10/23/80
QE L. Singer 10-24-80

COPIED THROUGH FROM
FIRST SHEET



Discussed with
DATE SHORT

M

alab

NONCONFORMANCE REPORT S/U # 1 BGA

1. PROJECT NAME Highland		JOB NO. 7220		19. NO. 3154		20. PAGE 1 OF 2			
2. UNIT(S) 1	3. DRAWING/PART NO. NA 603 SH 15	REV 7/2	4. ITEM DESCRIPTION SPOOLS	5. ITEM LOCATION Bldg 624		6. P.O. OR SPEC NO. 7. SERIAL NO. NA		10. CONTRACTOR/SUPPLIER N/A	
8. REPLACEMENT PART P/N NA REV 1A SER NO. NA		9. SOURCE EUBIKING		13. SKETCH ATTACHED () YES () NO		14. Discarded During () Const () Eng () FLD		15. Equip. Furnished By () Client () Eng () FLD	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. 100-ME-12-3		12. ASME AUTHORITY WITNESS SIGNATURE		24. DISPOSITION CONCURRENCE N/A		25. DISPOSITION RESULTS QC	
16. NONCONFORMING CONDITION Condition: ENGINEERING conducted A Hydrostatic Test (BG-CT-14-PT-1) on spools IHCC-35-S-603-15-4 And IHCC-35-S-603-15-6. THE TEST PACKAGE STATES "ALL WELDS BETWEEN FLOW AND CUT, NOT INCLUDING FLOW ON LINE. 2 1/2" - IHCC-35 ON DWG M603 SHEET 15, REV 7/2 THE DATA PACKAGES FOR THE ABOVE ITT GRINDEL SPOOLS "C" LISTED # 4.037 NO HOLD TAGS APPLIED 17. REPORTED BY R. E. SUGATE 10.6.80 18. VALIDATED BY R. E. SUGATE 10/6/80 21. ROUTING: ☒ TO FIELD ENGINEERING () TO OTHERS (SPECIFY)									
22. ☒ Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering NOT A NON-CONFORMING CONDITION. THERE IS NO REQUIREMENT TO INDICATE SHOP WELDS ON THE ISOMETRIC D. SHOT 10/10/80 23. PROJECT ENGINEERING DISPOSITION Indicated on the tested Dwg (Test PKG BG-CT-14-PT-1) The subject shop welds. 26. QC ACCEPTANCE R. E. SUGATE 10/10/80 QC ENGINEER DATE 12-2-80 AUTHORIZED INSPECTOR J. A. Bruffin 1/9/81									



Block #16 (Continued): indicate two (2) shop welds that are not shown on isometric drawing M603 sheet 13 Rev. 7/82. This condition leaves the two (2) shop welds undocumented for the hydrostatic test by the test package.

ORC August 10-6-80

NONCONFORMANCE REPORT

1. PROJECT NAME M. DEMOL		JOB NO. 17220		19. NO.	3155	20. PAGE / OF	1225 / 19-81
2. UNIT(S) 2	3. DRAWING/PART NO. FSK-DU-MC19-18	REV 2	4. ITEM DESCRIPTION 1" HALF COUPLING	5. ITEM LOCATION CONC-2 L.C.C.S.			
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 CONC	10. CONTRACTOR/SUPPLIER N/A		
11. INSPECTION CRITERIA () DWG () SPEC () OTHER NO. 1751		12. ASME AUTHORIZED () YES () NO N/A		13. SKETCH ATTACHED () YES () NO		14. DISCOVERED DURING () REG () CONST () TEST	
16. NONCONFORMING CONDITION: Spec M 481 sheet 100B requires that branch connections for a C line shall be installed with a socket or threaded. Contrary to this, drain connection on FSK-DU-MC19-18 was installed using a half coupling at wall. S/W 2EAC				24. DISPOSITION CONCURRENCE rework reject repair use as is N/A			
17. REPORTED BY Richard Komer		DATE 10/3/80		18. VALIDATED BY J. J. J. J.		DATE 10/6/80	
21. ROUTING: () TO FIELD ENGINEERING () TO OTHERS (SPECIFY) Field Engineering Recommended Disposition to Project Engineering		25. DISPOSITION RESULTS N/A					
This is nonconforming item, FCR-M-3350 allows the use of half couplings for branch connections. (FCR-M-3350, 1-9-81) "Use as is." Project Engineering concurs with Field Engineering disposition. 23. PROJECT ENGINEERING DISPOSITION FIELD ENGINEERING DISPOSITION: THE ABOVE WAS A DEMATION FROM SPEC. M-481 UNTIL FCR-M-3350 WAS ¹⁻¹¹⁻⁸¹ GIVEN INTERIM APPROVAL. PROJECT RECOMMENDS "USE AS IS" BASED ON INTERIM APPROVAL OF FCR-M-3350. PER R. NICOLAUS OF PROJECT ENGINEERING. NO DRAWING REVISIONS REQUIRED. 12/1/81							
26. OC-ACCEPTANCE () YES () NO N/A				DATE 1-13-81			
OC ENGINEER N/A				DATE 1-13-81			
AUTHORIZED INSPECTOR N/A				DATE 1-13-81			

see pg 2 for concurrence

10/12/81
P.H.



NONCONFORMANCE REPORT (CONT'D)

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
<i>Q. M. [Signature]</i>			
PROJECT FIELD ENGINEER			
DATE <i>11/17/81</i>			
PROJECT ENGINEER			
DATE <i>11/17/81</i>			
PROJECT CONSTR OC ENGINEER			
DATE <i>11/17/81</i>			
AUTHORIZED INSPECTOR			
DATE <i>11/17/81</i>			

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

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

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PROJECT CONSTR OC ENGINEER			
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AUTHORIZED INSPECTOR			
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AUTHORIZED INSPECTOR			
DATE			

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

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

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



Corrected Copy

NONCONFORMANCE REPORT

alab
S/L NON TESTABLE

1. PROJECT NAME Midland Units 1 & 2		JOB NO. 7220		19. NO. 3192	20. PAGE 1 OF 1
2. UNIT(S) 1	3. DRAWING/PART NO. E-728	REV 0	4. ITEM DESCRIPTION Cross Flange Welds	5. ITEM LOCATION Room 612 HK-K 26' H/3.6 - 4.6	
6. P.O. OR SPEC NO. C-304	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N NA REV NA SER NO. NA		9. SOURCE Construction	10. CONTRACTOR/SUPPLIER Contractor
11. INSPECTION CRITERIA () DWG () SPEC ☒ OTHER		IR NO. E-21-276	12. ASME 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				15. Equip. Furnished By () Client () Eng () FLD	
16. NONCONFORMING CONDITION: E-728 rev. 0, Type 1 & 2 Cable Tray Supports Require Details 1A & 1B (Depicted On Drawing E-703) Connections To Building Structural Beams, Which Shows All Welds Parallel To The Longitudinal Axis Of The Steel Member, In Lieu Of These Details, Connections Were Made With The Welds Perpendicular To The Longitudinal Axis, Creating Cross Flange Welds Which Also Violates Spec C-304 Para 6.3.10. Hold For Engineering Disposition. Q List Number 3.005				24. DISPOSITION CONCURRENCE rework reject repair use as is	
17. REPORTED BY J. P. R. [Signature] DATE 10-30-80				25. DISPOSITION RESULTS Acceptable as per project engineering disposition. all tags removed 1-9-81 JWD.	
21. ROUTING: ☒ TO FIELD ENGINEERING () TO OTHERS (SPECIFY)				25. DISPOSITION RESULTS	
22. () Field Engineering Disposition ☒ Field Engineering Recommended Disposition to Project Engineering Field Engineering recommends that the existing installation be "use as is." B: Deming 11/14/80 David Scott 11/5/80 H. Hollen 11/29/80				25. DISPOSITION RESULTS	
23. PROJECT ENGINEERING DISPOSITION Based on an evaluation of the relative size of weld to member thickness, location of weld and state of stress in the member, Project Engineering has determined the non-conforming condition to be acceptable and recommends to "use-as-is". J. H. [Signature] 12-11-80				25. DISPOSITION RESULTS	
REM C-2875 No drawing revision required. DRVC generated by Resident Engineering. Calc. No. 29C(Q)				25. DISPOSITION RESULTS	
JLH 12-15-80 BCS 12-12-80 QE J. Smith 12-16-80				25. DISPOSITION RESULTS	

11/25/80
119H

Res Dispositioned 12/16/80



NONCONFORMANCE REPORT

S/C NONTESTABLE

1. PROJECT NAME Midland Units 1 & 2		JOB NO. 7220		19. NO. 3193	20. PAGE 1 OF 1
2. UNIT(S) 1	3. DRAWING/PART NO. E 728	REV. 0	4. ITEM DESCRIPTION Cross Flange Welding	5. ITEM LOCATION Box 659 Rm. 614 Hk-K 5.6-4.6	
6. P.O. OR SPEC NO. C-304	7. SERIAL NO. NA	8. REPLACEMENT PART P/N NA REV NA SER NO. NA		9. SOURCE Construction	10. CONTRACTOR/SUPPLIER Contractor
11. INSPECTION CRITERIA () DWG () SPEC (X) OTHER		12. ASME AUTHORIZED INSPECTION RECD () YES (X) NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During () Visual (X) Const () Test	
15. EQUIP. PROVIDED BY () Client () Firm () FLD		16. NONCONFORMING CONDITION Drawing E-728 Rev. 0 Sections C E & J Depicts A 1/4" Fillet Weld On Two Sides Of The Tube Steel Attachment To The Building Structural Beams, In Lieu Of This Details, 1/4" Fillet Welds All Around Were Used For The Attachment, Creating 6 Cross Flange Welds, Which Also Violates Spec. C-304 para. 6.3.10. Hold For Engineering Disposition.			
17. REPORTED BY Joseph M. Decker 10-30-80		18. VALIDATED BY [Signature] 10/31/80		19. AUTHORIZED INSPECTOR [Signature] 11/9/81	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. () Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering		23. PROJECT ENGINEERING DISPOSITION Based on an evaluation of the relative size of weld to member thickness, location of weld and state of stress in the member, Project Engineering has determined the non-conforming condition to be acceptable and recommends to "use-as-is". REM C-2871 12-8-80 DWG. E-728(Q), Sh. 1, Rev. 0, Sec's C, E, & J will be revised. CALL# 29C	
24. DISPOSITION CONCURRENCE rework reject repair use as is		25. DISPOSITION RESULTS Conditions acceptable as per project evaluation and disposition to use as is. JWD 115-81		26. QC ACCEPTANCE [Signature] 11-15-81 QC ENGINEER AUTHORIZED INSPECTOR DATE	

85

REQ Dispositioned 1/9/81 J.H.

QE J.D. Smith
1-9-81BOS 12-11-80
J. Harkwater 1-8-81



TED CALERIS

NONCONFORMANCE REPORT

S/U CODE INDETERMINATE
3821-20-61
22 EDC
1/20/81

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3203	20. PAGE 1 OF 2
2. UNIT(S) INDETERMINATE	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION 4 UNITS NUKEM 109 NU-KLAD FILLER COMPOUND	5. ITEM LOCATION PAINT SHOP	
6. P.O. OR SPEC NO. 7220 A-15	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A	REV N/A	9. SOURCE CONTRACTOR	10. CONTRACTOR/SUPPLIER J.L. MANTA
11. INSPECTION CRITERIA () DWG () SPEC () OTHER IR NO. R-1-00-14040 NO. A-15		12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO		13. SKETCH ATTACHED () YES () NO	14. Discovered During M Rec'g () Const () Test
15. Equip Furnish'd By () Client () Eng MFLD				16. NONCONFORMING CONDITION: SPECIFICATION A-15 REV. 8 PARA 6 SUB-PARA 6-1 STATES IN PART THAT THE COATING MATERIAL OTHER THAN MANUFACTURER'S RECOMMENDED SHELF LIFE SHALL NOT BE USED, CONTRARY TO THE ABOVE (4) FOUR UNITS OF NUKEM 109 NU-KLAD FILLER COMPOUND - BATCH # 810235 RECEIVED ON AEO 14040 HAD THE MFG'S RECOMMENDED SHELF LIFE ON CONTAINERS AS FOLLOWS 10-9-78 TO 10-9-80. LEAVING THE STATUS OF THE MATERIAL INDETERMINATE. HOLD FOR ENGINEERING DISPOSITION. Q' NUMBER IS INDETERMINATE. ONE (1) HOLD TAG APPLIED.	
17. REPORTED BY Skanehale		DATE 11/10/80		18. VALIDATED BY R.D. Kowalsky	
DATE 11/10/80		DATE 11/11/80		21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)	
22. (X) Field Engineering Disposition () Field Engineering Recommender Disposition to Project Engineering THIS IS NOT A VALID NCR. MATERIAL REFERENCED PER ORDER 4 WAS NOT PURCHASED PER SPEC. 7220-A-15Q, BUT RATHER PER P.O. 7220-C-49155Q IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED PER SPEC. 7220-A-41Q, THEREFORE REFERENCED INSPECTION CRITERIA IS NOT APPLICABLE. R.D. Kowalsky 1/5/81					
23. PROJECT ENGINEERING DISPOSITION Karl Degen 1/5/81					
24. DISPOSITION CONCURRENCE rework () reject () repair () use as is () 1/5/81 PROJECT FIELD ENGINEER PROJECT ENGINEER PROJ CONSTR QC ENGINEER AUTHORIZED INSPECTOR DATE 1/20/81					
25. DISPOSITION RESULTS WITNESSED DISPOSAL OF FOUR (4) UNITS OF NUKEM 109 NU-KLAD FILLER COMPOUND. Skanehale 1/21/81					
26. QC ACCEPTANCE Skanehale QC ENGINEER DATE 1/27/81 AUTHORIZED INSPECTOR DATE					

See pg. 3 for
concurrency



BLOCK 22 (CONTINUED) ?

MATERIAL REFERENCED PER BLOCK 4 WAS PREMATURELY INSPECTED
PRIOR TO ISSUANCE OF PURCHASE ORDER 7220-F-49155 Q. THE
FOUR (4) UNITS OF MUKLAD 109 FILLER COMPOUND (BATCH B10235)
LISTED AS ITEM 5 OF THE REFERENCED PURCHASE ORDER WILL
BE REJECTED PER FIELD ENGINEERING COMMENTS CONTAINED ON
MURR AEO-14310. RD Kowalski 11/20/81

Paul Soguen 11/20/81



NONCONFORMANCE REPORT (CONT'D)

20. PAGE 3 OF 3 ⁸¹ 19. NCR NO 3203

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE 1/21/80	
PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE 1/22/80	
AUTHORIZED INSPECTOR		DATE	

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

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

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

24. Disposition Concurrence Item			
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PROJECT ENGINEER		DATE	
PROJECT CONSTR QC ENGINEER		DATE	
AUTHORIZED INSPECTOR		DATE	

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PROJECT ENGINEER		DATE	
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AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
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PROJECT FIELD ENGINEER		DATE	
PROJECT ENGINEER		DATE	
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AUTHORIZED INSPECTOR		DATE	

24. Disposition Concurrence Item			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
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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	

CONTACT: JIM KELLEHER

Duplicate copy
EHER NONCONFORMANCE R

S/U - NON-TESTABLE

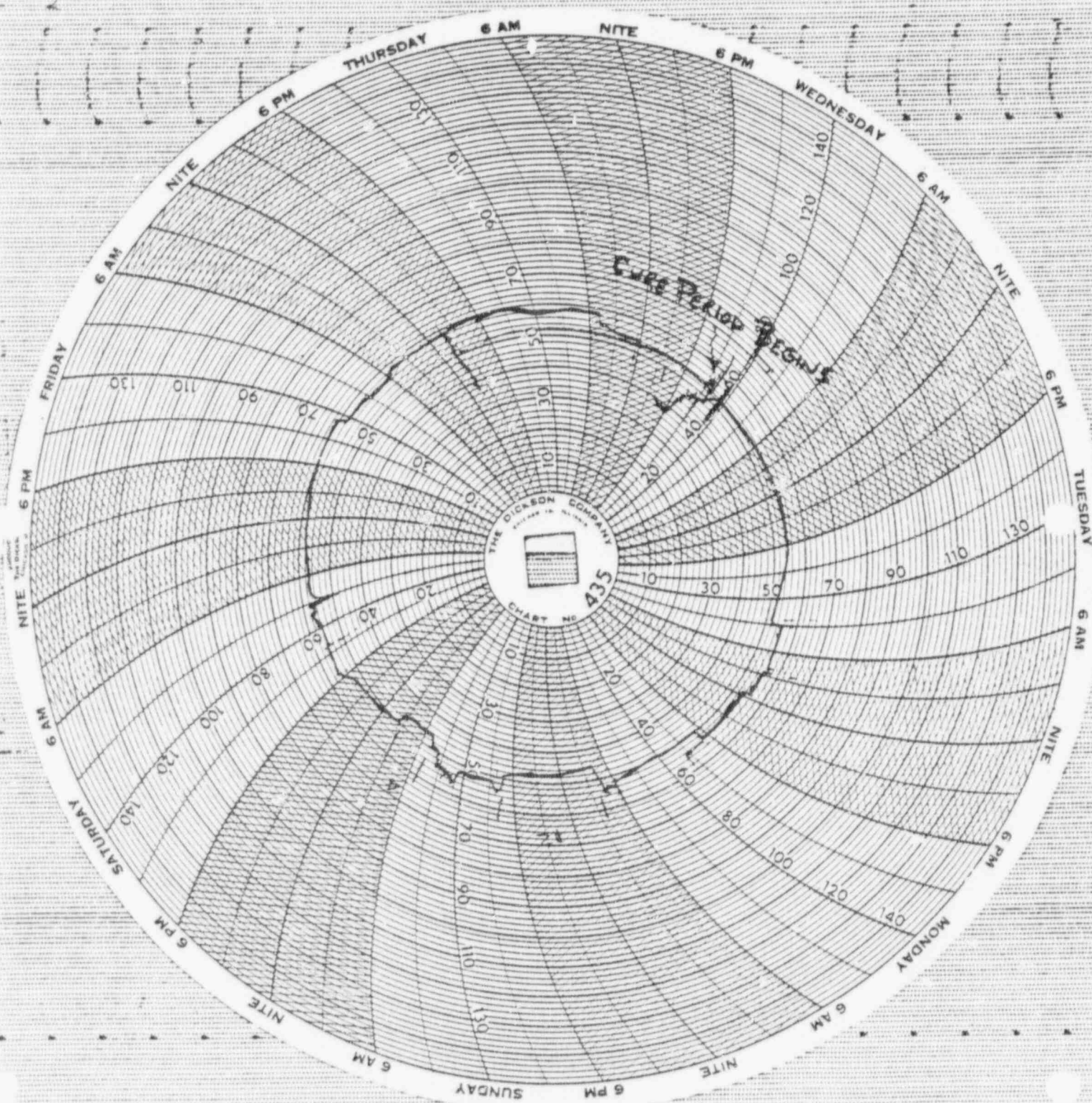
1. PROJECT NAME MIDLAND 1E2		JOB NO. 7220		19. NO. 3205	20. PAGE 1 OF 3
2. UNIT(S) UNIT #2	3. DRAWING/PART NO. N/A	REV	4. ITEM DESCRIPTION CONCRETE CURING	5. ITEM LOCATION (CONT #2) EXTERIOR DOME	
6. P.O. OR SPEC NO. N/A	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N N/A REV N/A SER NO. N/A	9. SOURCE CONSTRUCTION	10. CONTRACTOR/SUPPLIER N/A	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. C-1.40-5068 NO. C-231 REV 19	12. ASME AUTHORIZED INSPECTION REC'D () YES (X) NO	13. SKETCH ATTACHED (X) YES () NO	14. Discovered During () Rec'g (X) Const () Test
15. Equip Furnished By (X) Client () Eng () FLD					
16. NONCONFORMING CONDITION SPEC. 7220 - C-231 REV. 19, SECTION 13.2.4, b, STATES THAT THE SURFACE TEMPERATURE OF CONCRETE MEMBERS SHALL BE MAINTAINED AT A TEMPERATURE OF AT LEAST 50°F, WITH AN OCCASIONAL DROP OF 10°F FOR A PERIOD OF TIME NOT TO EXCEED 12 HOURS CUMULATIVE. CONTRARY TO THIS, THE CONTAINMENT #2 DOME REPAIR (C(77B)C HAD ONE RECORDING THERMOMETER THAT SHOWED A CUMULATIVE TIME BELOW 50°F OF 16 HOURS. HOLD FOR ENGINEERING DISP. "A-LIST" NO. 1.105. 1 HOLD TAG APPLIED.			24. DISPOSITION CONCURRENCE		
17. REPORTED BY Paul Veen DATE 11/11/80			18. VALIDATED BY P. E. Smith DATE 11-12-80.		
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)			25. DISPOSITION RESULTS		
22. () Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering			Field Engineering Recommends to "USE AS IS". Cure was extended an additional 24 hours to insure 7 full days of cure. L.P. Pishin 11-21-80		
23. PROJECT ENGINEERING DISPOSITION			The concrete in question had 3 days of cold weather protection without any nonconformance. This meets the minimum requirement as stipulated in "CONCRETE MANUAL" Bureau of Reclamation. The concrete did not freeze at any time. The concrete placed was for non structural. Project Engineering recommends "USE AS IS". No calculations or spec change required. Cold. Placed with 2" Topping on Base to form wall joints 11/10/80 P. Sheta B. Dhar 11/10/80		
26. QC ACCEPTANCE QC ENGINEER			1/7/81 DATE		
AUTHORIZED INSPECTOR			DATE		

11/21/80
mqw

At the Disposition on 12/1/00

125
125/80

1 AUG 2 1953
ACC # 3205





CONCRETE CURING REPORT

Project 7220

13

S. Platt
QC Acceptance11/5/80
Date

Control No.

File No.

Sec Sketch

1 Placement Location & Elevation

3 Cure Started

4 QCIR No.

Cont # 2, Repair of Dome @ FL 787 =

Time 15:30 Date 10/22/80

C140-5068

5 Time	6 Weather	7 Thermometer/ Cal Due Date		8 Ambient Temperature	9 Surface Temperature	10 QCE Initial/Date		11 D.R. YES NO	
9:05pm	clear	2680	11/7/81	61°	56°	TG	10/22/80		✓
8:45am	clear	2680	11/7/81	70°	60°	TG	10/23/80		✓
5:10pm	clear	2680	11/7/81	66°	61°	TG	10/23/80		✓
8:30am	clear	2680	11/7/81	63°	58°	TG	10/24/80		✓
4:00pm	cloudy	2680	11/7/81	65°	57°	TG	10/25/80		✓
12:45pm	cloudy	2680	11/7/81	58°	46°	TG	10/25/80	✓	
6:20pm	cloudy	2680	11/7/81	61°	53°	TG	10/25/80		✓
12:50pm	cloudy	2680	11/7/81	50°	55°	TG	10/26/80		✓
7:45am	cloudy	2680	11/7/81	52°	46°	SG	10/26/80	✓	59 9/2/80
8:45am	cloudy	2680	11/7/81	56°	53°	TG	10/27/80		✓
16:45	cloudy	2681	2/20/81	70°	50°	TU	10/27/80		X
10:30am	cloudy	2680	11/7/81	49°	52°	TG	10/28/80		✓
16:42	clear	2680	11/7/81	68°	55°	TU	10/28/80		X
10:40am	cloudy	2680	11/7/81	58°	51°	TG	10/29/80		✓
17:22	cloudy	2680	11/7/81	60°	50°	TU	10/29/80		X
8:45am	clear	2508 2885	2/20/81 4/28/81	46°	50°	PH	10/30/80		✓

12

Cure Started

1 Day	✓
2 Days	
3 Days	

Concrete Repair @ temp recorders



CONTACTED: J. WELTHER
FIELD ENG.

VIN. A Lab

Shen

NONCONFORMANCE REPORT

S/U: NON TESTABLE

1. PROJECT NAME MIDLAND PROJECT		JOB NO. 7220		19. NO. 3211		20. PAGE 1 OF 3													
2. UNIT(S) 1/2	3. DRAWING/PART NO. NIA		REV NIA	4. ITEM DESCRIPTION NIA CONCRETE CURING TEMPERATURE		5. ITEM LOCATION TEST LAB													
6. P.O. OR SPEC NO. NIA	7. SERIAL NO. NIA	8. REPLACEMENT PART P/N NIA REV NIA SER NO. NIA		9. SOURCE SUBCONTRACT	10. CONTRACTOR/SUPPLIER US TESTING COMPANY														
11. INSPECTION CRITERIA ☐ DWG ☒ SPEC ☐ OTHER		12. ASME AUTHORIZED INSPECTION REQ'D ☐ YES ☒ NO		13. SKETCH ATTACHED ☐ YES ☒ NO		14. Discovered During ☐ Rec'g ☒ Const ☐ Inst													
15. Equip Furnished By ☐ Client ☐ Eng ☒ FLD																			
16. NONCONFORMING CONDITION: Spec. 208 Rev. 20 Section 7.3.2 STATES IN PART				(24) DISPOSITION CONCURRENCE															
THAT ALL CYLINDERS SHALL BE MADE, CURED, AND TESTED IN ACCORDANCE WITH ASTM C-31-69. ASTM C-31-69 STATES IN PART THAT CYLINDERS SHALL BE STORED ... A MAXIMUM CONDITION OF A TEMP. OF 73.4°F ± 3°F. CONTRARY TO THE ABOVE, ON 11-16-80 TANK #8 HAD A TEMP. OF 69°F, EXCEEDING THE MIN. TEMP BY 1°F. Q LIST 6.101. NO HOLD TAGS APPLIED. ATTACHED LIST OF CYLINDERS IN TANK #8				<table border="1"> <tr> <th>rework</th> <th>reject</th> <th>repair</th> <th>use as is</th> </tr> <tr> <td></td> <td></td> <td></td> <td>☒</td> </tr> </table>				rework	reject	repair	use as is				☒				
				rework	reject	repair	use as is												
							☒												
				<table border="1"> <tr> <td>PROJECT FIELD ENGINEER</td> <td>DATE</td> </tr> <tr> <td><i>[Signature]</i></td> <td>12/30/80</td> </tr> <tr> <td>PROJECT ENGINEER</td> <td>DATE</td> </tr> <tr> <td><i>[Signature]</i></td> <td>12/16/80</td> </tr> <tr> <td>PROJ CONSTR QC ENGINEER</td> <td>DATE</td> </tr> <tr> <td><i>[Signature]</i></td> <td>1-5-81</td> </tr> </table>				PROJECT FIELD ENGINEER	DATE	<i>[Signature]</i>	12/30/80	PROJECT ENGINEER	DATE	<i>[Signature]</i>	12/16/80	PROJ CONSTR QC ENGINEER	DATE	<i>[Signature]</i>	1-5-81
				PROJECT FIELD ENGINEER	DATE														
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<i>[Signature]</i>	1-5-81																		
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25. DISPOSITION RESULTS																			
26. QC ACCEPTANCE																			
<table border="1"> <tr> <td>QC ENGINEER</td> <td>DATE</td> </tr> <tr> <td><i>[Signature]</i></td> <td>1-13-81</td> </tr> <tr> <td>AUTHORIZED INSPECTOR</td> <td>DATE</td> </tr> <tr> <td><i>[Signature]</i></td> <td>1-13-81</td> </tr> </table>				QC ENGINEER	DATE	<i>[Signature]</i>	1-13-81	AUTHORIZED INSPECTOR	DATE	<i>[Signature]</i>	1-13-81								
QC ENGINEER	DATE																		
<i>[Signature]</i>	1-13-81																		
AUTHORIZED INSPECTOR	DATE																		
<i>[Signature]</i>	1-13-81																		

C
12/4/80
mgH

App to disposition 12/4/80 mgH

Field Engineering recommends to "use as is." The concrete test cylinders, although cured under a nonconforming temp. of 69°F for a max. of 16 hours at present the best available strength data for their respective concrete placements. The temperature strength data for their respective records. It should be noted that the nonconforming condition was caused by a malfunctioning heating unit. R.P. Wether
12-3-80

The 1° drop in temperature for 16 hours will tend to develop slightly lower strength in the cylinders. None of the cylinders in the tank was early strength specimen. The loss in strength due to non conformance will even out at 28 days. Hence the cylinders should be acceptable strength test specimens. The recommended disposition is "USE AS IS" P. Shanley
No calculations required.

P. Shanley for B. Shanley
12/14/80

P.S. 12/14/80 14/11/80 GE 12/14/80

TANK #8 69°F C0705 11-16-80

No.	CYL. No.	BREAK DATE	Q	Non-Q	TEST AGE	PLACEMENT IDENTIFICATION
4715	9364	12-1-80	✓		90	TRIAL BATCH
	9365		✓			
4715	9366	12-1-80	✓		90	TRIAL BATCH
4716	9371	12-3-80	✓		90	Y(628.42) A'
"	9372	"	✓		"	" " "
4717F	9377	12-3-80	✓		90	Y(628.42) A'
"	9378	"	✓		"	" " "
4718	9383	12-4-80	✓		90	TF(627.0) B
"	9384	"	✓		"	" " "
4719F	9389	12-4-80	✓		90	TF(627.0) B
"	9390	"	✓		"	" " "
4729	9449	12-10-80		✓	90	CT(681.99) D
"	9450	"		✓	"	" " "
4730F	9455	12-10-80		✓	90	CT(681.99) D
"	9456	"		✓	"	" " "
4731F	9462	12-10-80	✓		90	DG(630.0) B
4768F	9683	1-1-81		✓	90	TF(629.0) A
"	9684	"		✓	"	" " "
4788	9843	1-11-81		✓	90	Y(632.80), Y(634.5) KK
4813	9991	12-2-80		✓	28	ES(613) B
	9992	"		✓	"	
	9993	2-2-81		✓	90	
4813	9994	"		✓	"	ES(613) B
4814F	9997	12-2-80		✓	28	ES(613) B
	9998	"		✓	"	
	9999	2-2-81		✓	90	
4814F	1001	"		✓	"	ES(613) B
4815	1004	12-4-80		✓	28	ES(631.58) A
	1005	"		✓	"	
	1006	2-4-81		✓	90	
4815	1007	"		✓	"	ES(631.58) A

TANK #8

69°F

C0705

11-16-80

No.	C/L No.	BREAK DATE	Q	Q ^{Don}	TEST AGE	PLACEMENT IDENTIFICATION
4816F	1010	12-4-80		✓	28	E5 (631.58) A
	1011	"		✓	"	
	1012	2-4-81		✓	90	
4816F	1013	"		✓	"	E5 (631.58) A
4821F	1041	12-9-80		✓	28	OW (636.0) A
	1042	"		✓	"	
	1043	2-9-81		✓	90	
4821F	1044	"		✓	"	OW (636.0) A
4822	1047	12-12-80	✓		28	DG (634.08) E
	1048	"	✓		"	
	1049	2-12-81	✓		90	
4822	1050	"	✓		"	DG (634.08) E
4823F	1053	12-12-80	✓		28	DG (634.08) E
	1054	"	✓		"	
	1055	2-12-81	✓		90	
4823F	1056	"	✓		"	DG (634.08) E
SP1032	5159	12-3-80	✓		21	TRIAL MIX
	5160		✓			
	5161	12-3-80	✓		21	
	5162	12-10-80	✓		28	
	5163		✓			
SP1032	5164	12-10-80	✓		28	TRIAL MIX

2001 12-10-20
ETB



Yuan

CONTACTED P. Madsen for NONCONFORMANCE REPORT

5/11 NONTESTABLE

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3212		20. PAGE 1 OF 1	
2. UNIT/1 COMMON		3. DRAWING/PART NO. C-192 (Q)		REV 6		4. ITEM DESCRIPTION CROSS FLANGE WELD	
6. P.O. OR SPEC NO. C-304 (Q)		7. SERIAL NO. N/A		8. REPLACEMENT PART PIN N/A		9. SOURCE CONSTRUCTION	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		IR NO. C-304		12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO		10. CONTRACTOR/SUPPLIER N/A	
15. NONCONFORMING CONDITION SPECIFICATION C-304 (Q), SECTION 6.2.6 STATES "NO WELDING ACROSS THE FLANGE OF A BEAM SHALL BE DONE WITHOUT PRIOR APPROVAL BY PROJECT ENGINEERING." CONTRARY TO THIS THE MONORAIL SHOWN IN SECTION R OF DRAWING C-192 (Q) WAS CROSS FLANGE WELDED TO EXISTING W30X99 WITH A 5/8" FILLET WELD. HOLD FOR ENGINEERING DISPOSITION Q LIST # 1.201				13. SKETCH ATTACHED () YES (X) NO		14. Discovered During () Rec'g (X) Const () Test	
17. REPORTED BY Edwin C. Smith				18. VALIDATED BY L. Hold TAG APPLIED		DATE 11-17-80	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)				22. () Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering		23. PROJECT ENGINEERING DISPOSITION	
Project Engineering to evaluate and advise.							
L.P. Williams 11-21-80							
MONORAIL AS INSTALLED IS ACCEPTED. (CALC 23C.3) NO. DWG CHANGE REQ'D NO COORDINATION REQ'D. USE AS IS.							
MAP 12/12/80		ETB 12-10-80		P. Madsen B. Shan		17/15/80	
26. QC ACCEPTANCE DATE		12/18/81		27. AUTHORIZED INSPECTOR		DATE	

NONCONFORMANCE REPORT $\frac{5}{4}$ LEAD

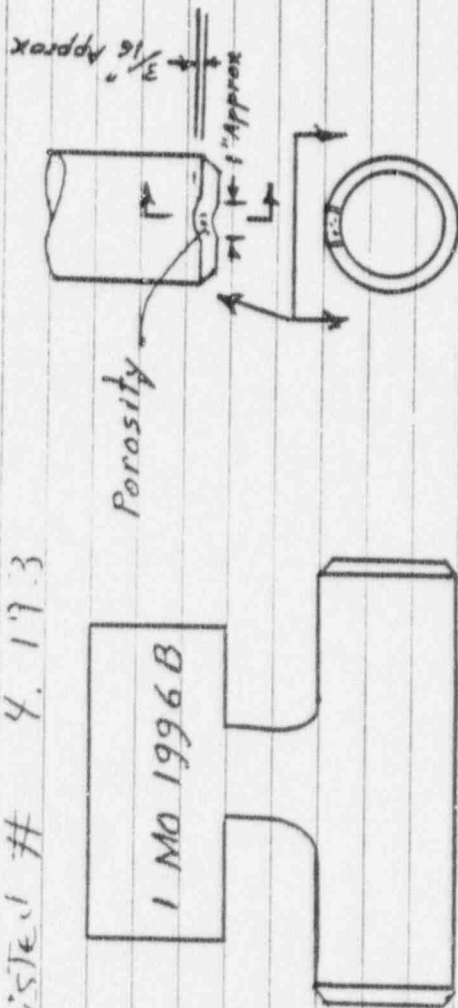
1. PROJECT NAME Midland		JOB NO. 7220		19. NO. 3213		20. PAGE 1 OF 2									
2. UNIT(S) 1		3. DRAWING/PART NO. M 619 Sh 7 (Q)		4. ITEM DESCRIPTION 8" HBC Gate Valve 1M01996B		5. ITEM LOCATION EL-614 West Wing Well									
6. P.O. OR SPEC. NO. M120AC		7. SERIAL NO. 5206-38-00140		8. REPLACEMENT PART N/A		9. SOURCE Cause/Kyrie Anchor / Darling									
10. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		11. IR NO. NO		12. ASME AUTHORIZED INSPECTION REQ'D (X) YES () NO		13. SKETCH ATTACHED (X) YES () NO									
14. DISCOVERED DURING () Rec'g (X) Const () Test		15. EQUIP FURNISHED BY () Client (X) Eng () FLD		16. NONCONFORMING CONDITION: Specification 720 M221 Rev 2 requires... "Butt weld ends of all valves shall be examined by the magnetic particle or liquid penetrant method." This should assure that the weld ends are free of rejectable indications. Specification M 204 Rev 13 5.23 para 5 states... "care shall be taken to prevent damage to the valve."											
17. REPORTED BY Don Murphy		DATE 11-14-80		VALIDATED BY W. J. Smith		DATE 11/19/80									
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. Field Engineering Disposition () Field Engineering Reco./amended Disposition to Project Engineering Excavate defect and repair in accordance with procedure ED-1. A liquid penetrant examination is to be performed before filler metal is added and after completion of the repair. The manufacturer's concurrence is to be obtained prior to repairing this defect.													
23. PROJECT ENGINEERING DISPOSITION		24. DISPOSITION CONCURRENCE <table border="1"><thead><tr><th>rework</th><th>reject</th><th>repair</th><th>use as is</th></tr></thead><tbody><tr><td></td><td></td><td>(X)</td><td></td></tr></tbody></table> PROJECT ENGINEER John H. Smith 11/21/80 PROJECT FIELD ENGINEER John H. Smith 11/26/80 AUTHORIZED INSPECTOR John H. Smith 11/26/80 25. DISPOSITION RESULTS Valve repaired and accepted. Vendor authorization for repair attached. John H. Smith 11/23/81 TR 5-100-BMR-Valve 1M0-1996B Log # 82293 John H. Smith 11/23/81						rework	reject	repair	use as is			(X)	
rework	reject	repair	use as is												
		(X)													
26. ACCEPTANCE (X) FULLY () PARTIAL		DATE 11/23/81													
27. AUTHORIZED INSPECTOR John H. Smith		DATE 11/23/81													

BLOCK 16 (Continued)

Contrary to the above, a gouge exists in one end of the valve, and porosity is visible in the bottom of the gouged area as shown below:

"Q" LISTED # 4.173

1 Hold Tag Applied



WESTERN UNION

WU INFOMASTER 1-009942C319 11/14/80
TLX ANCORCO HYWD
PD HAYWARD CALIF
TWX 810 266 9497 BECHTEL MIDL
ATTN LE DAVIS

SUBJ PO 7220-M-120A, ITEM 21.3
3" 150# GATE VALVE
ADV SER. NO. 5206-33-001-40

PER TELECON WITH RON MURPHY EXCAVATION AND REPAIR WELDING USING
CODE QUALIFIED PROCEDURES IS AUTHORIZED FOR CORRECTION OF REPORTED
POROSITY ON BUTT WELD PREPARATION. THE ABOVE ASSUMES EVERY
ATTEMPT WILL BE MADE TO MINIMIZE WELDING.

EO HOOK
FIELD ENGR
ANCORCO HY WD
11-14-80

1251 EST

BECHTEL MIDL

JOB 7220	ARI	
ROUTING	CTN	
	TEL	
Site Mgr.		
Proj. Supt.		
Serv. Supt.		
P. E. Engr.		
APP. Eng. 1		
APP. Eng. 2		
S. U. Foreman		
Cost Sgr.		
Inst. Engr.		
Civ. Supt.		
Env. Eng.		
Arch. Supt.		
Mech. Eng.		
Elec. Supt.		
Chem. Eng.		
Asst. Eng.		
Off. Eng.		
P. S. A.		
T. C.		
Purch.		
Sub. Con.		
Dist. Con.		
R. Murphy		





Corrected Copy

NONCONFORMANCE REPORT

S/U CODE: 1-PER-1-PER

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3219	20. PAGE 1 OF 1
2. UNIT(S) 142	3. DRAWING/PART NO. SEE BLOCK 16	REV	4. ITEM DESCRIPTION Emergency Diesel Generator VALVE.	5. ITEM LOCATION warehouse #1	
6. P.O. OR SPEC NO. M-18-MC REV.13	7. SERIAL NO. N/A	8. REPLACEMENT PART P/N REV SER NO. N/A		9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER TransAmerica DeLaVal, INC.
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO	13. SKETCH ATTACHED () YES (X) NO	14. Discovered During (X) Rec'g () Const () Test	15. Equip Furnished By () Client (X) Eng () FLD
16. NONCONFORMING CONDITION: Specification 7220-M-18 REV.6 Appendix A, para. 6.0 states in part: ALL pressure boundary material shall meet the requirements of Subarticle ND-2000 of the code. Contrary to the above no certificate of compliance or CMTR were received for the stud and not listed on the code data report for VALVE # 77001-139 serial # N61848-00-0008. Q number is 4.521. Hold for Engineering disposition. A Hold tag applied to the non-conforming item.				24. DISPOSITION CONCURRENCE	
17. REPORTED BY A. J. M. Hill 11/21/80				25. DISPOSITION RESULTS corrected documentation received, reviewed and accepted. A. J. M. Hill 11/21/81	
18. VALIDATED BY H. E. Summ 11/26/80				26. QC ACCEPTANCE H. E. Summ 11/21/81	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering					
Procurement supervisor is to obtain from the vendor the correct documentation. (A.K.) B. Hendrich 12-9-80					
23. PROJECT ENGINEERING DISPOSITION					
26. QC ACCEPTANCE					
QC ENGINEER				DATE	
AUTHORIZED INSPECTOR				DATE	



Corrected Copy

NON-CONFORMANCE REPORT (CONT'D)

PAGE 2 OF 2

INCR NO 3219

Block 16 CONTINUED.

(2) Section III NA 8412.1 states in part: For valves which are to be stamped with the code "N" symbol a Data Report shall be filled out by the Certificate Holder and signed by the Certificate Holder and the Inspector for each group of 25 valves or less of the same size and design with inlet piping connections of 8 in. nominal pipe size and smaller, as identified on the Data Report by individual serial number. Contrary to the above, the Data Report for three valves from Circle Seal Control Serial #'s 903149, 903141 and 903140 (DEKVAL Part #77001-162) List numbers from 903141 thru 9031412. Leaving the status of the Data Report indeterminate.

12/1/80
J. R. Smith
12/3/80
L. R. Smith



Malay

NONCONFORMANCE REPORT

New-Testable Unit

1. PROJECT NAME MIDLAND		JOB NO. 7220		19. NO. 3221		20. PAGE 1 OF 2	
2. UNIT(S) COMMON		3. DRAWING/PART NO. N/A		4. ITEM DESCRIPTION CUT REBAR		5. ITEM LOCATION WALL @ S.E. EAST FACE EL. 5.5' - 3' NORTH SIDE	
6. REV. SPEC NO. C-306Q REV. 6		7. SERIAL NO. N/A		8. REPLACEMENT PART PIN N/A REV N/A		9. SOURCE CONSTRUCTION	
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO		13. SKETCH ATTACHED (X) YES () NO		14. Discovered During () Rec'd (X) Const () Test	
16. NONCONFORMING CONDITION: SPEC. C-306(Q), APPENDIX D, SECTION 2.2 STATES IN PART, "TWO BARS MAY BE CUT EACH WAY, EACH FACE PROVIDED THE MINIMUM AROUND DISTANCE TO THE NEXT CUT BAR ON THE SAME FACE, IN THE SAME DIRECTION IS AT LEAST TEN FEET." CONTRARY TO THIS, A #8 VERTICAL BAR WAS CUT 7'-8" FROM TWO OTHER CUT VERTICAL BARS ON THE SAME FACE. Q LIST #1, 203. HOLD FOR ENGINEERING DISPOSITION. SEE SKETCH ON PAGE TWO. One hold tag applied		17. REPORTED BY Stone Payne		18. VALIDATED BY B. D. Smith		19. DATE 11/24/80	
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. () Field Engineering Disposition (X) Field Engineering Recommended Disposition to Project Engineering		23. PROJECT ENGINEERING DISPOSITION PROJECT ENGINEERING TO EVALUATE.		24. DISPOSITION CONCURRENCE rework reject repair use as is	
25. AUTHORIZED INSPECTOR DATE		26. DISPOSITION RESULTS		27. PROJECT FIELD ENGINEER DATE		28. PROJECT QC ENGINEER DATE	
29. PROJECT ENGINEERING DISPOSITION CALC. 236.3 REVEALS WALL IS STILL OK USE AS IS. NO DWG. CHANGE REQD. NO COORDINATION REQD.		30. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		31. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		32. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80	
33. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		34. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		35. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		36. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80	
37. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		38. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		39. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		40. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80	
41. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		42. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		43. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		44. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80	
45. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		46. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		47. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		48. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80	
49. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		50. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		51. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		52. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80	
53. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		54. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		55. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		56. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80	
57. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		58. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		59. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		60. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80	
61. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		62. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		63. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		64. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80	
65. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		66. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		67. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		68. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80	
69. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		70. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		71. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		72. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80	
73. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		74. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		75. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		76. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80	
77. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		78. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		79. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		80. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80	
81. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		82. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		83. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		84. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80	
85. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		86. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		87. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		88. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80	
89. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		90. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		91. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		92. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80	
93. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		94. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		95. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		96. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80	
97. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		98. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		99. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80		100. PROJECT ENGINEERING DISPOSITION P. Shum for B. D. Smith 12/22/80 JAL 12/17/80 P. D. Smith 12/17/80	

MSM
12/15/80

PHOTO TO DISAPPEARANCE 12/15/80



CONTACTED: J. KELLEHER (F.E.)

NONCONFORMANCE REPORT

APR 20

VIN

S/U: NON TESTABLE

1. PROJECT NAME NIPPLAND		JOB NO. 7220		19. NO. 3222	20. PAGE 1 OF 3
2. UNIT(S) TAIL	3. DRAWING/PART NO. N/A	REV N/A	4. ITEM DESCRIPTION INITIAL CURE OF CONCRETE SPECIMENS	5. ITEM LOCATION FIELD	
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	10. CONTRACTOR/SUPPLIER BECHTEL	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER		IR NO. 3C L05-208 NO. AS IM 31-69	12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO	9. SOURCE FIELD ENG. N/A	14. Discovered During () Rec g () Const () Test
16. NONCONFORMING CONDITION: ASTM C31-69 STATES IN PART THAT THE INITIAL CURE TEMPERATURE OF CONCRETE SPECIMENS SHALL BE MAINTAINED AT A TEMP. OF 60° TO 80° F DURING THE FIRST 24 HOURS AFTER MOLDING. CONTRARY TO THE ABOVE SPECIMENS CAST ON 11-25-80 WERE MEASURED AT 83° F. TEST DATA IS ATTACHED. "Q" LIST # 4, 18. NO HOLD TAGS APPLIED					
17. REPORTED BY B. Delmonico		DATE 11-26-80	18. VALIDATED BY J. E. Summuth	DATE 11/26/80	
21. ROUTING: ☒ TO FIELD ENGINEERING () TO OTHERS (SPECIFY)					
22. () Field Engineering Disposition ☒ Field Engineering Recommended Disposition to Project Engineering					
Field Engineering recommends to "USE AS IS." The high temp. may cause high early strength but should have no significant effect on the 90 day strength requirements of the concrete samples. J.P. Wilbur 12-3-80					
See Page 2 for Block 22 Cont. Appendix 12-16-80					
23. PROJECT ENGINEERING DISPOSITION					
The effect of non conformance is slight acceleration in early strength of the cylinders. The duration and the degree of rise in temperature was small to affect the strength significantly. The concrete used was of 4000 psi strength @ 90 days. The required design strength is 3000 p.s.i @ 90 days. Based on this and that the —					
26. PROJECT ENGINEER B. Delmonico				DATE 1-30-81	
AUTHORIZED INSPECTOR				DATE	

AHO to disposition 12/18/80

C 11/24/80

BOOK 22 (CONT): 12-16-80

THE REQUIRED STRENGTH FOR CONCRETE IN DUCTBANKS IS 3000 PSI (TABLE 9.1 SPEC. C-230(A)). THE 7 DAY STRENGTHS FOR THE CONCRETE IN QUESTION WAS 3260 PSI & 3320 PSI.

BLOCK 23 CONTD L.P. Walker 12-16-80

strength cylinders achieved good strength in 7 days, the concrete should be accepted as "USE AS IS"

W. Walker 12/18/81
1/18/81 P. P. Walker 1/15/81
P. P. Walker 1/12/81



Rot

NONCONFORMANCE REPORT

1. PROJECT NAME MIDLAND		JOB NO. 07230		19. NO. 3229		20. PAGE 1 OF 1	
2. UNIT(S) IND	3. DRAWING/PART NO. NA	REV NA	4. ITEM DESCRIPTION 7/8" #3/4" ASTM A-325 Heavy Hex Bolts	5. ITEM LOCATION GC HOLD AREA WAREHOUSE I			
6. P.O. OR SPEC NO. F48783	7. SERIAL NO. NA	8. REPLACEMENT PART P/N NA	9. SOURCE Supplier	10. CONTRACTOR/SUPPLIER Koepke Industrial Supply			
11. INSPECTION CRITERIA () DWG (X) SPEC () OTHER		12. ASME AUTHORIZED INSPECTION REQ'D () YES (X) NO		13. SKETCH ATTACHED () YES (X) NO			
16. NONCONFORMING CONDITION		14. DISCOVERED DURING EXPG () CONST () TEST		15. EQUIP FURNISH-4 BY () CLIENT () ENG WFLD			
24. DISPOSITION CONCURRENCE							
rework reject repair use as is							
Project Engineer PROJECT FIELD ENGINEER 12/13/80 DATE							
Project Engineer PROJECT FIELD ENGINEER 12/13/80 DATE							
AUTHORIZED INSPECTOR DATE							
25. DISPOSITION RESULTS							
Rejected bolts were sent back on shipping notice # 13530 on 1/1/81.							
26. QC ACCEPTANCE QC ENGINEER DATE							
AUTHORIZED INSPECTOR DATE							
23. PROJECT ENGINEERING DISPOSITION							
All bolting materials with inadequate markings or equivocal defects will be rejected. D.P. Warner 12-11-80							

S/O CODE-1 FEB For 3 M-103B-14 OCT EMINITE (PIPE & POOL.)

1. PROJECT NAME MIDLAND			JOB NO. 7220			19. NO. 3249			20. PAGE 1 OF 2						
2. UNIT(S) 1 & 2		3. DRAWING/PART NO. N/A		REV		4. ITEM DESCRIPTION EMERGENCY DIESEL GENERATOR AUX SKID PARTS AS LISTED IN BLOCK 16			5. ITEM LOCATION WHSE #1						
6. P.O. OR SPEC NO. M-18-KC Rev 13		7. SERIAL NO. N/A		8. REPLACEMENT PART P/N REV		SER NO. N/A		9. SOURCE SUPPLIER		10. CONTRACTOR/SUPPLIER TRANSAMERICA DELAVAL					
11. INSPECTION CRITERIA () DWG () SPEC (X) OTHER			IR NO. R-100-19207 NO. R-1-2220-R-100		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: QCI-7220-R-100 REV 10 PARA 2.2.6 STATES IN PART: REVIEW SUPPLIER'S QUALITY VERIFICATION DOCUMENTATION REQUIRED BY THE PROCUREMENT DOCUMENTS FOR AVAILABILITY, LEGIBILITY, TRACE- ABILITY AND SHOP INSPECTOR'S SIGNATURE. CONTRARY TO THE ABOVE THE DOCUMENTATION FOR THE IMMERSION HEATER, L.O. SUMP TANK READS: SERIAL # N55 TAG # 2M-103A. THE MATERIAL IS TAGGED N55 2M-103B. ALSO DOCUMENTATION FOR PIPE SPOOL PART # 02-965-21-KV								24. DISPOSITION CONCURRENCE							
								rework		reject		repair		use as is	
								Doc							
								PROJECT FIELD ENGINEER		DATE		1/13/81			
								PROJECT ENGINEER		DATE					
								PROJ CONSTR QC ENGINEER		DATE		1/17/81			
								AUTHORIZED INSPECTOR		DATE					
17. REPORTED BY S. M. M. 1/17/81				DATE				18. VALIDATED BY [Signature] 1-12-81				DATE (CONT PAGE 2 OF 2)			
21. ROUTING: (X) TO FIELD ENGINEERING () TO OTHERS (SPECIFY)												25. DISPOSITION RESULTS Documentation received reviewed & accepted. S. M. M. 1/16/81			
22. (X) Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering															
Procurement supervisor is to obtain required documentation from the vendor. (A.K.) [Signature] 1-15-81															
23. PROJECT ENGINEERING DISPOSITION															
26. QC ACCEPTANCE [Signature] 1/24/81 QC ENGINEER DATE															
AUTHORIZED INSPECTOR DATE															



(BLOCK 16 CONTINUED)

REXDS # BT-002-000 LEAVING THE STATUS OF THE MATERIAL INDETERMINATE.
Q NUMBERS ARE 4.521, 4.522. HOLD PENDING ENGINEERING DISPOSITION.

2 HOLD TAGS APPLIED TO THE NONCONFORMING ITEMS.

Discussed with:
Ron Hendricks

ALB

NONCONFORMANCE REPORT

S/U # 1BGA

1. PROJECT NAME Alid Land		JOB NO. 7220		19. NO. 3254		20. PAGE 1 OF 2	
2. UNIT(S) 1		3. DRAWING/PART NO. 11 603-15		4. ITEM DESCRIPTION 1 HEC-35-603-15-5		5. ITEM LOCATION aux Bldg 440	
6. P.O. OR SPEC NO. NA		7. SERIAL NO. NA		8. REPLACEMENT PART P/N NA REV NA		10. CONTRACTOR/SUPPLIER Construction NA	
11. INSPECTION CRITERIA () DWG () SPEC () OTHER IR NO. NO. 11 603-15		12. ASME AUTHORIZED INSPECTION REQ'D () YES () NO NA		13. SKETCH ATTACHED () YES () NO NA		14. Discovers During () Rec'g () Const () Test	
15. NONCONFORMING CONDITION: Paragraph 8 states in Part - The piping shall be kept in appearance, provide adequate space for pipe insulation, be convenient to operate and shall provide for proper expansion, venting and drainage. Continued on p. 2		16. REQUIREMENT: SPEC 11-204 REV 14		17. REPORTED BY Platigato		18. DATE 1-14-81	
21. ROUTING: TO FIELD ENGINEERING () TO OTHERS (SPECIFY)		22. Field Engineering Disposition () Field Engineering Recommended Disposition to Project Engineering		23. PROJECT ENGINEERING DISPOSITION		24. DISPOSITION CONCURRENCE	
25. PROJECT ENGINEERING DISPOSITION		Field shall remove part of corrugated decking to allow $2\frac{1}{2}$ " clearance around pipe spool. Shd 1-19-81		26. FIELD ACCEPTANCE OC ENGINEER		DATE 1-26-81	
27. PROJECT ENGINEERING DISPOSITION		The corrugated decking around the pipe. Platigato		28. AUTHORIZED INSPECTOR		DATE	
29. PROJECT ENGINEERING DISPOSITION		Spec 11-204-35		30. AUTHORIZED INSPECTOR		DATE	
31. PROJECT ENGINEERING DISPOSITION		603-15-5 new		32. AUTHORIZED INSPECTOR		DATE	
33. PROJECT ENGINEERING DISPOSITION		has adequate clearance. The		34. AUTHORIZED INSPECTOR		DATE	
35. PROJECT ENGINEERING DISPOSITION		field remove		36. AUTHORIZED INSPECTOR		DATE	
37. PROJECT ENGINEERING DISPOSITION		The corrugated		38. AUTHORIZED INSPECTOR		DATE	
39. PROJECT ENGINEERING DISPOSITION		decking around		39. AUTHORIZED INSPECTOR		DATE	
40. PROJECT ENGINEERING DISPOSITION		the pipe.		40. AUTHORIZED INSPECTOR		DATE	
41. PROJECT ENGINEERING DISPOSITION		Platigato		41. AUTHORIZED INSPECTOR		DATE	
42. PROJECT ENGINEERING DISPOSITION		1-26-81		42. AUTHORIZED INSPECTOR		DATE	
43. PROJECT ENGINEERING DISPOSITION		26. FIELD ACCEPTANCE		43. AUTHORIZED INSPECTOR		DATE	
44. PROJECT ENGINEERING DISPOSITION		OC ENGINEER		44. AUTHORIZED INSPECTOR		DATE	
45. PROJECT ENGINEERING DISPOSITION		AUTHORIZED INSPECTOR		45. AUTHORIZED INSPECTOR		DATE	
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84. PROJECT ENGINEERING DISPOSITION		DATE		84. AUTHORIZED INSPECTOR		DATE	
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97. PROJECT ENGINEERING DISPOSITION		DATE		97. AUTHORIZED INSPECTOR		DATE	
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99. PROJECT ENGINEERING DISPOSITION		DATE		99. AUTHORIZED INSPECTOR		DATE	
100. PROJECT ENGINEERING DISPOSITION		DATE		100. AUTHORIZED INSPECTOR		DATE	



NONCONFORMANCE REPORT (CONT'D)

20 PAGE 2 OF 2

19NCR NO 3254

Block #16 continued; Contrary to the above, SPool
1400-35-603-15-5 is fouling the corrugated deck
grating where the piping enters the pipe chase.
Solve by 1.14.81

OPEN QARs

QUALITY ACTION REQUEST

cc: D. Turnbull
D. Miller
W. Bird

AI: P-034

From: M. A. Dietrich		Site O.A.		Job 7220																							
To: L. H. Curtis		② Control Document ref.: C-233(Q) Rev. 20 & G-33(Q) Rev. 13	③ QAR Ident. No.: SD-353																								
Action Requested: In the review by QA of procurement activities, it has been observed that certain classified material has been purchased with reference to requirements as stipulated in specification design guide 7220-G-33(Q) for Q-listed bulk material. C-233(Q) technical specification, is intended for purchase of civil type miscellaneous metal. By reference to class of structure, the level of control documentation is determined for procurement of the subject metal. Para. 11.0 addresses QA/QC requirements for class I structures. The qualification of class I structures is taken from the FSAR para. 3.2.1 "Seismic Classification" and further reference to table 3.2-1 "Containment Internal Structures". It is stated in these documents, that																											
(ACTION REQUESTED: continued on page 2)																											
Signature: <i>ACM M.A. Dietrich</i>		⑥ Date: 1/27/81	⑦ Reply Requested by: 2/9/81																								
Reply:																											
<table border="1"> <tr> <td colspan="2">Job 7220-QA-Received 1/27/81</td> </tr> <tr> <td>Log No.</td> <td>File No.</td> </tr> <tr> <td>Response Req'd</td> <td>Date</td> </tr> <tr> <td colspan="2">QA Action Item No.</td> </tr> <tr> <td>Route</td> <td>Info. Act. Comment</td> </tr> <tr> <td>PQAE</td> <td></td> </tr> <tr> <td>Resp. Cor.</td> <td></td> </tr> <tr> <td>Spec (1)</td> <td></td> </tr> <tr> <td>F ect (2)</td> <td></td> </tr> <tr> <td>Overhaul</td> <td></td> </tr> <tr> <td>Fire/Weld</td> <td></td> </tr> </table>						Job 7220-QA-Received 1/27/81		Log No.	File No.	Response Req'd	Date	QA Action Item No.		Route	Info. Act. Comment	PQAE		Resp. Cor.		Spec (1)		F ect (2)		Overhaul		Fire/Weld	
Job 7220-QA-Received 1/27/81																											
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ACTION REQUESTED: (con't.)

beyond NSSS supports, internal structures, items, components or supports that require consideration of SSE and other applicable loads, without loss of function, fall within category I (class I) design criteria.

It is the interpretation that structural accessory steel, as required on Dwg. 7220-C-370(Q) is, for the most part, class I structure and should not be purchased as a G-33 bulk item.

Action Requested:

- (A) The clarification of intent and use of specification 7220-C-233(Q) and design guide 7220-G-33(Q) for procurement of civil type material.
- (B) Define civil type "Q" listed class I structures.

CLOSED QARs

QUALITY ACTION REQUEST

W. Bird
D. Miller
J. Corley D. Turnbull
AI/797

From: M.A. Dietrich L.A. Dreierbach		(1)	
To: L. Davis J.F. Newgen	(2) Control Document ref.: FPG-5.000 Rev. 4	(3) QAR Ident. No.: SD-197	(4)
Action Requested:			(5)
Concern:			
Field Procedure FPG-5.000 entitled "Maintenance/Inspection of Material and Equipment Released for Construction" provides for the preparation of maintenance inspection form F-10.			
A monitor has indicated that the title of the procedure has been taken too literal in that only those requirements listed under "maintenance" in the vendor manuals have been incorporated into the F-10 forms. In general, the maintenance sections of vendor manuals are concerned with preventative/corrective maintenance during operation.			
However, in actuality, the condition that exists in long term (cont.)			
Signature: Lee H. Schroeder	(6) Date: 5/31/79	(7) Reply Requested by: 6/15/79	(8)
Reply: Verified that 7220-M75-46-3, Rev. 1 to the storage recommendation of 1-5000 HP motors by Siemens-Allis dated March, 1979 has been made a part of the PD M-75. This revision requires the rotation of the motors only once in 90 days. Since F-10-145 and V.P. 7220-M75-46-3 have no discrepancy in the requirement for rotation (i.e. once in 90 days) the QAR SD-197 is closed.			(9)
CONSUMERS POWER COMPANY RECEIVED JAN 28 1981			
FIELD QUALITY ASSURANCE MIDLAND, MICHIGAN			
Signature:	(10) Date:	(11)	
Action Verified: <i>Vern Lahot</i>	(12) Date: 1-27-81	(13)	

8/2/74

WHITE — Return to sender

CANARY — Addressee's file

PINK — Sender's file

BPC 20877
G1001649-05

QUALITY ACTION
REQUEST

"in-place" storage of the equipment. Thus, many of the requirements under storage, such as, lubrication and rust prevention, should also be included. Attached are two telecons from pump manufacturers which support this position.

Recommended Action:

1. Review all F-10 forms and revise them as appropriate to resolve the above concern.
2. Coordinate with Project Engineering to determine if there has been any degradation to the equipment caused by the above described situation.
3. Provide a schedule for completion of the corrective action.

QUALITY ACTION REQUEST

W. Bird
D. Miller
D. Turnbull

AI P-004

From: M. A. Dietrich J. A. Grubbs	Ref. Bechtel NCR 3116 Site Q.A.	Job 7220
To: R. C. Ash	(2) Control Document ref.: NQAM Sec. III, No. 4, Spec. M-204, Rev. 13.	(3) QAR Ident. No.: QAR SD-339
Action Requested: Nuclear Quality Assurance Manual Section III, Number 4, paragraph 3.1.8 states in part, "A release for shipment shall not be granted until all identified deficiencies and nonconformances are resolved, i.e., disposition verified or provisions made for subsequent resolution such as documenting on a nonconformance report." Contrary to the above, pipe spools 1FCB-42-S-610-4-3, 1FCB-42-S-610-4-4, 2FCB-42-S-611-4-3, and 2FCB-42-S-611-4-5 were shipped to the Midland jobsite from ITT Grinnel in a nonconforming condition. These spools do not have an "N" stamp on the code data nameplates, there are no code data reports, and UT report for the seam weld on the pipe rejects the weld for lack of fusion. The G-321-D forms were signed by the		
(CONTINUED ON PAGE 2 of 2)		

Signature: <i>J. A. Grubbs</i>	(6) Date: 9/23/80	(7) Reply Requested by: 10/6/80
Reply: TWX from J. S. Newgen dated 3/28/79 authorized release for shipment of the above mentioned pipe spools in "as is" condition. Instructions indicated that stamping of the code data plate would not be required. Supplier Quality Representative at Grinnel will be submitting the revised G-321-D which will note exception by referencing the nonconforming condition and reference Newgen's TWX as authorizing release for shipment. Ann Arbor Supplier Quality personnel have contacted the field Supplier Quality Representative who indicates that to his knowledge no other material has been released at the job site in nonconforming condition. In the future Supplier Quality Representatives will be instructed to review all material that is released prior to completion of fabrication. Instructions will direct that conditions of materials be referenced on the G-321-D along with reference to the document authorizing release for shipment.		

CONSUMERS POWER COMPANY

RECEIVED
JAN

ELD QUALITY
MIDLAND, MICHIGAN
8/2/74

Signature: <i>[Signature]</i>	ACHD (10) Date: RESPONSE DATED 10-22-80
(12) Date: 1-7-81	

QAP 00-339

AJ P-004

FROM: L. A. Dreisbach

TO: R. C. Ash

Page 2 of 2

supplier and the SQR but did not identify the material as nonconforming.

Project Quality Assurance requests the following actions be taken:

1. Determine what other material was shipped to the Midland jobsite from III Grinnell in a nonconforming condition.
2. Take appropriate action to ensure nonconformances identified in (1) above are resolved.
3. Take appropriate administrative action to ensure nonconforming material is not shipped to the Midland jobsite in violation of the NQAM.

OPEN MCARs

QUALITY ASSURANCE PROGRAM
MANAGEMENT CORRECTIVE ACTION REPORT

020175

MCAR-1

REPORT NO.: 46

JOB NO.: 7220

Q NO.: _____

DATE: January 15, 1981

I DESCRIPTION* (Including References):

During the wiring installation of a Henry Pratt Butterfly Valve actuated by a Limitorque Operator, the Marathon terminal strip on the operator broke. Measurement of the strip and comparison with the dimensions on the Marathon catalog led to the suspicion that the terminal strips were underrated. Investigative action disclosed that 8 of the 18 operators on the M-132 Purchase Order had 100 Series Marathon Terminal Blocks rated at 250 volts for use in a 460 volts supply circuit. The RECOMMENDED ACTION* (Optional): cont.

Project Engineering:

1. Identify the purchase orders, quantity, purchase order item numbers, and location of all Limitorque Operators used in safety-related systems.

cont.

REFERRED TO: ☒ Engineering ☐ Construction ☐ QA Management ☐ _____
☒ Procurement

ISSUED BY: M.A. Dietrich 1-15-81
Project QA Engineer Date
M.A. Dietrich

II REPORTABLE DEFICIENCY:

☐ NO

☒ YES

NOTIFIED CLIENT: 1/14/81

[Signature] 1/15/81
Project Manager Date

III CAUSE:

CORRECTIVE ACTION TAKEN:

AUTHORIZED BY: _____
Date

AAPD DISTRIBUTION

MGR OF CONSTRUCTION
MGR OF ENGINEERING
MGR OF PROCUREMENT
MGR OF PROJ OPERATIONS
MGR OF QUALITY ASSURANCE
CONSTRUCTION MGR
ENGINEERING MGR
SUPPLIER QUALITY MGR
QE SUPERVISOR

PROJ DISTRIBUTION

CHIEF CONSTR QC ENGR
CLIENT
PFOCE
PROJECT CONSTR MGR
PROJECT ENGINEER
PROJECT MGR
PROJ PROCUREMENT MGR
SITE MGR

OTHER DISTRIBUTION

MGR OF QA - TPC
GPD - QA MGR
LAPD - QA MGR
SFPD - QA MGR

FORMAL REPORT TO CLIENT
(If Section II Applies)

Date

CORRECTIVE ACTION IMPLEMENTED

VERIFIED BY

Project QA Engineer

Date

*Describe in space provided and attach reference document.

DESCRIPTION CONT.

020175

remaining 10 Operators had 300 Series Marathon Terminal Blocks which are currently rated at 300 volts by the manufacturer, but were presumably rated at 600 volts at time of initial fabrication of the valve operator.

Since 8 of the 18 operators checked have underrated terminal strips, the potential for a short circuit or flash-over exists. Since 7 of these valves are installed in safety-related systems and considered active, this condition has been reported by the Consumers Power Company to the NRC under 10 CFR 50.55(e).

RECOMMENDED ACTION CONT.

2. Prepare, schedule, and implement an inspection plan to check the terminal strips on operators identified in Action (1). Identify all underrated terminal strips.
3. Determine the corrective action required to rectify the discrepancies identified. Plan a schedule of implementation.

Project Procurement:

4. Procurement Supplier Quality is to identify any open Purchase Orders for valves with Limitorque Operators and take appropriate action so that no operators are shipped to the jobsite without verification of terminal strip ratings by the cognizant SQRs.
5. Remind the concerned vendors that if they submit a 10 CFR 21 report, they must notify project as required under the terms of the contract.

Project Engineering and Procurement:

6. Coordinate and issue the first interim report by February 6, 1981.

QUALITY ASSURANCE PROGRAM
MANAGEMENT CORRECTIVE ACTION REPORT
MCAR-1

REPORT NO.: 47

JOB NO.: 7220

Q NO.:

DATE: January 29, 1981

I DESCRIPTION* (Including References):

During a seismic reanalysis associated with plant fill remedial action, it was noted that the 1977 Auxiliary Building seismic model modeled the control tower and the main portion of the Auxiliary Building as an integral unit between Elevation 614 and 659. This assumption may not be appropriate due to possible flexibility at the connection between the control tower and main structure. The structural design of

RECOMMENDED ACTION* (Optional):

1. Continue seismic reanalysis of the Auxiliary Building considering the current building configuration (e.g., tornado missile shield), present soil conditions, and proposed plant fill remedial action (e.g., caissons under electrical penetration area(s)), and state forecasted date of completion.
2. From Action (1) develop revised seismic forces, moments and response spectra.

REFERRED TO: ☒ Engineering ☐ Construction ☐ QA Management ☐ _____
☐ Procurement

ISSUED BY: *Archibald E. Bue* 1/29/81

Project QA Engineer

Date

M.A. Dietrich

v.d.

II REPORTABLE DEFICIENCY:

☐ NO

POTENTIAL

☒ YES

NOTIFIED CLIENT:

1-21-81

Date

1/30/81

III CAUSE:

CORRECTIVE ACTION TAKEN:

AUTHORIZED BY: _____
Date

AAPD DISTRIBUTION
MGR OF CONSTRUCTION
MGR OF ENGINEERING
MGR OF PROCUREMENT
MGR OF PROJ OPERATIONS
MGR OF QUALITY ASSURANCE
CONSTRUCTION MGR
ENGINEERING MGR
SUPPLIER QUALITY MGR
QE SUPERVISOR

PROJ DISTRIBUTION
CHIEF CONSTR QC ENGR
CLIENT
PFOCE
PROJECT CONSTR MGR
PROJECT ENGINEER
PROJECT MGR
PROJ PROCUREMENT MGR
SITE MGR

OTHER DISTRIBUTION
MGR OF QA - TPO
GPD - QA MGR
LAPD - QA MGR
SFPD - QA MGR

FORMAL REPORT TO CLIENT
(If Section II Applies)

Date

CORRECTIVE ACTION IMPLEMENTED

VERIFIED BY

Project QA Engineer

Date

* Describe in space provided and attach reference document.

DESCRIPTION CONT.

the Auxiliary Building and the control tower was done to a 1974 seismic model which modeled these structures reflecting the structural interconnection.

This matter has been conveyed by the Consumers Power Company to the NRC on January 21, 1981 as a "potentially reportable" 10 CFR 50.55(e) item.

RECOMMENDED ACTION CONT.

3. Review existing structural designs and equipment qualifications for adequacy to revised items listed in Action (2). If this action discloses discrepancies, state corrective action measures that will be implemented.

The above 3 actions duplicate the commitments presented in the response to question 13 of 50.54(f). As such, these actions will be tracked under the 50.54(f) effort.

4. Coordinate and issue a status report by February 5, 1981.

QUALITY ASSURANCE PROGRAM
MANAGEMENT CORRECTIVE ACTION REPORT
MCAR-1

REPORT NO.: 48
DATE: January 29, 1981

JOB NO.: 7220 QNO.: _____

I DESCRIPTION* (Including References):

Excavations on the Borated Water Tank Foundation for Unit 1 disclosed cracks in the areas identified by the recent analysis as possibly being overstressed.

This condition has been reported to the NRC by the Consumers Power Company as a potential 10 CFR 50.55(e) item.

RECOMMENDED ACTION* (Optional):

1. Determine the impact of the condition of the ring foundation on the tank's integrity and ability to perform under all required conditions.
2. Determine what further actions will be required to maintain the design criteria for the Borated Water Tank to perform its intended function.
3. Coordinate and issue the first interim status report by February 9, 1981.

REFERRED TO: ☒ Engineering ☐ Construction ☐ QA Management ☐ _____
☐ Procurement

ISSUED BY: Archib E. Bier 1/29/81
Project QA Engineer Date
M.A. Dietrich

II REPORTABLE DEFICIENCY:

☐ NO

POTENTIAL

☒ YES

NOTIFIED CLIENT: January 22, 1981

[Signature] 1/22/81
Project Manager Date

III CAUSE:

CORRECTIVE ACTION TAKEN:

AUTHORIZED BY: _____
Date

AAPD DISTRIBUTION

MGR OF CONSTRUCTION
MGR OF ENGINEERING
MGR OF PROCUREMENT
MGR OF PROJ OPERATIONS
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PROJECT MGR
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MGR OF QA - TPO
GPD - QA MGR
LAPD - QA MGR
SFPD - QA MGR

FORMAL REPORT TO CLIENT
(If Section II Applies)

Date

CORRECTIVE ACTION IMPLEMENTED

VERIFIED BY: _____
Project QA Engineer Date

* Describe in space provided and attach reference document.

CLOSED MCARs

**QUALITY ASSURANCE PROGRAM
MANAGEMENT CORRECTIVE ACTION REPORT
MCAR-1**

REPORT NO. 32
DATE July 20, 1979

JOB NO. 7220 QNO. Various

I *DESCRIPTION (Including references):
States Terminal Block disconnect link failures were identified by CPCo during the electrical checkout of non-Q-listed start-up transformer (0X03A). Thirty-eight (38) individual disconnect links out of 156 examined were found to be cracked.

Subsequent investigation by Bechtel on four cubicles in 4160 vault Switchgear 2A06 revealed seven individual States Terminal Blocks with cracked disconnect links (reference NCR 2362 issued 7/20/79. The blocks are identified as follows:
(Continued on page 2 of 2)

***RECOMMENDED ACTION (Optional)**

1. Determine what effects cracked links in States Terminal Blocks could have on plant safety if uncorrected.
2. Determine cause for the cracked disconnect links.
3. Determine magnitude of problem.
4. Based on the above (3) items determine reportability under 10 CFR 50.55e.
(Continued on page 2 of 2)

REFERRED TO ☒ ENGINEERING ☐ CONSTRUCTION ☐ QA MANAGEMENT ☐ _____
☐ PROCUREMENT

ISSUED BY W. J. Moore for 7/20/79
Project QA Engineer Date
LADREBACH

II REPORTABLE DEFICIENCY

☐ NO

☒ YES

NOTIFIED CLIENT 7/20/79
Date
John A. King 7/20/79
Project Manager Date

III CAUSE As stated in the final Bechtel report dated February 20, 1980, the cause of the failures was due to stress corrosion cracking which is believed to be the result of excessive cold working of the brass and the subsequent exposure of the brass to a corroding agent during the nickel plating process.

CORRECTIVE ACTION TAKEN The corrective action is as outlined in the Bechtel final report dated February 20, 1980. All Bechtel corrective action is complete. Consumers Power Company is continuously monitoring and replacing any failed links identified during preoperational testing. If it cannot be demonstrated that the links are acceptable for long term operation, then suitable shunt/jumpers will be installed on all Class 1E circuits beginning at least three months prior to fuel load.

Aug 1979
PBC

AUTHORIZED BY William J. Moore
Date

STANDARD DISTRIBUTION

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ADDITIONAL DISTRIBUTION - AS APPROPRIATE

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PF OCE
DIVISION PROCUREMENT MGR
PROJ PROCUREMENT MGR
ORV SUPPLIER QUALITY MGR

FORMAL REPORT TO CLIENT
(If Section II Applies)

Date

CORRECTIVE ACTION IMPLEMENTED

VERIFIED BY D. R. Reid 1-5-81
for Project QA Engineer Date

MANAGEMENT CORRECTIVE ACTION REPORT
REPORT NO. 32
Job No. 7220

1* Description - continued

<u>Compartment</u>	<u>Terminal</u>
605	LX31
607	LX27
610	LX14, LX24
611	LX7, LX38, LX24

Note:

Due to the location of the disconnect links in the block, a visual inspection of an installed block can only be made on approximately a quarter of the exposed surface of the link.

* Recommended Action - continued

5. Take those corrective actions necessary to prevent recurrence and assure the integrity of terminations associated with States Terminal Blocks.

B + WCC

NCR's - Open

1. JOB NUMBER CL-238		2. UNIT NUMBER Unit #1		3. DATE 1-15-81		4. ITEM NAME "C" Pump Loop		5. ITEM NUMBER 1P51C	
6. VENDOR/MANUFACTURER Babcock & Wilcox		7. DISCOVERED DURING ☐ RECEIVING ☐ TEST ☒ CONST.		8. REJECT TAG NUMBER #555		9. PROCEDURE NUMBER FCP #281			
10. SPECIFICATION NUMBER 9-CP-100			11. DRAWING NUMBER N/A			12. PRIOR REPORT OF NONCONFORMITY: N/A			
13. DESCRIPTION OF NONCONFORMITY The plug placed in 1P51C return line slipped down line to ^{the elbow Aug 1-15-81} offset allowing dimineralized water to enter the return line, the pump casing and the suction line. It collected in the OTSG lower head and ran out the manway opening. Also filled bottom of the "D" pump suction line.									
14. REPORTED BY <u>R.D. Brown</u> <u>1-15-81</u> NAME DATE			15. VERIFIED BY <u>R.W. Shone</u> <u>1-15-81</u> NAME DATE			16. CORRECTIVE ACTION REQUIRED ☒ YES ☐ NO			
17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e) ☐ YES ☒ NO <u>H.H. Linn</u> <u>1-15-81</u> FIELD PROJECT ENGINEER DATE									
18. RECOMMENDED DISPOSITION: ☒ N/A ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS									
19. TECHNICAL JUSTIFICATION/OR RECOMMENDED DISPOSITION INSTRUCTIONS N/A <u>H.H. Linn</u> <u>1-15-81</u> FIELD PROJECT ENGINEER DATE									
20. ACTUAL DISPOSITION: ☒ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS									
21. DISPOSITION INSTRUCTIONS See attached page. <u>H.H. Linn</u> <u>1-15-81</u> FIELD PROJECT ENGINEER DATE									
22. APPROVALS B&W FOC <u>R.W. Shone</u> <u>1-15-81</u> SIGNATURE DATE OWNER/AGENT <u>R.W. Shone</u> <u>1-15-81</u> SIGNATURE DATE OTHER <u>H.H. Linn</u> <u>1-15-81</u> SIGNATURE DATE OTHER <u>H.H. Linn</u> <u>1-15-81</u> SIGNATURE DATE						23. ANI REVIEW <u>H.H. Linn</u> <u>1-15-81</u> SIGNATURE DATE			
24. DISPOSITION COMPLETED <u>H.H. Linn</u> <u>1-15-81</u> NAME DATE			25. DISPOSITION VERIFICATION ☒ ACCEPTABLE ☐ UNACCEPTABLE <u>H.H. Linn</u> <u>1-15-81</u> NAME DATE REPORT OF NONCONFORMITY #						
25. CORRECTIVE ACTION Re-position tire (plug) in pipe and add an additional 10 lbs. air pressure to hold in place. <u>Walter Shone</u> <u>1-15-81</u> FIELD PROJECT MANAGER DATE									
27. NONCONFORMITY CLOSED <u>H.H. Linn</u> <u>1-15-81</u> FIELD QUALITY CONTROL SUPV. DATE									

REPORT OF NONCONFORMITY

JOB NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL-238	Unit #1	1-15-81	1765

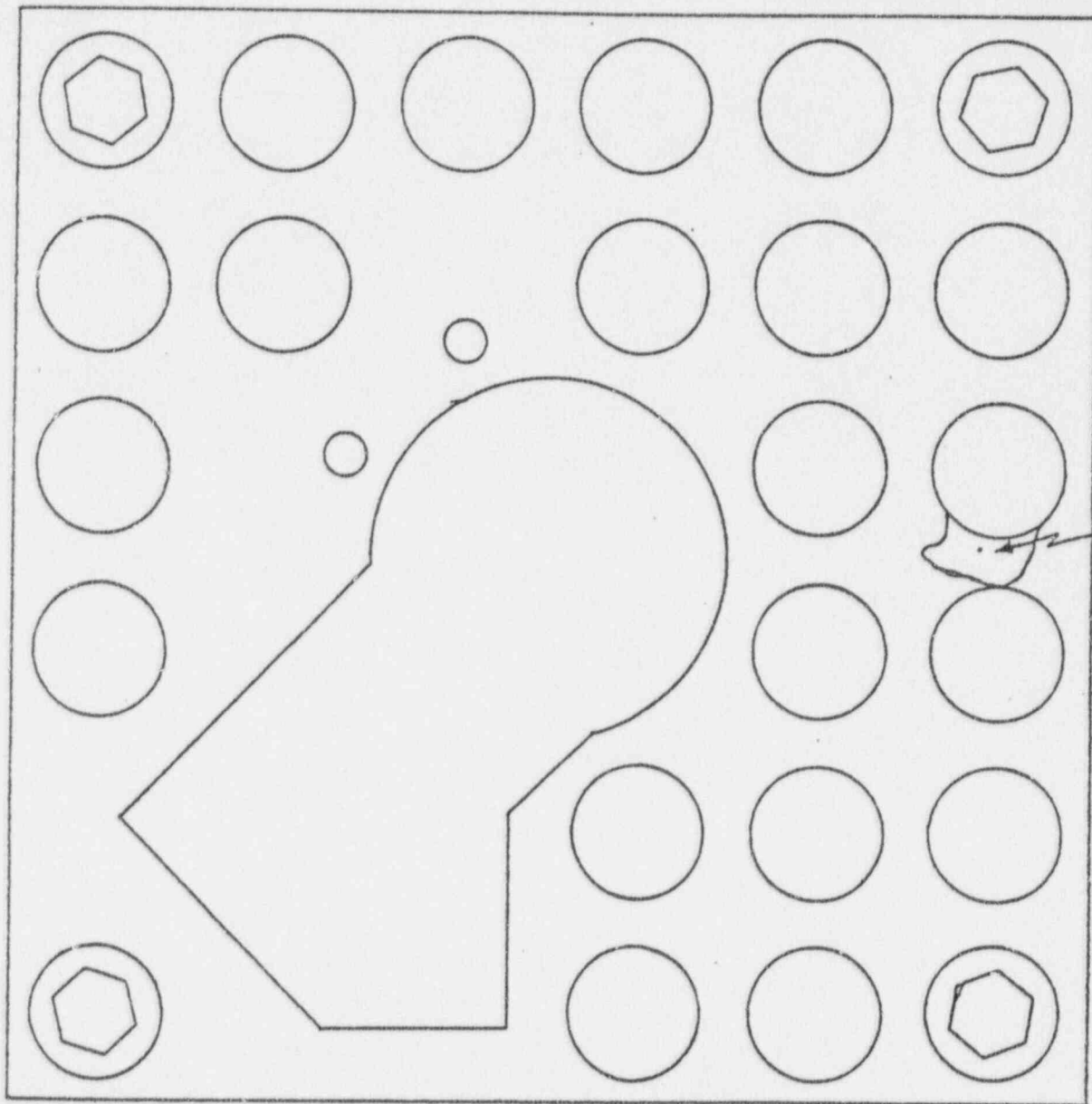
1. Replace plug in 1P51C return line and add additional air pressure to tire to hold in place and re-fill reactor vessel.
2. Pump and/or drain water out of bottom of steam generator, C and D suction lines.
3. Cover openings at bottom of steam generator until water is removed from reactor vessel.
4. After reactor vessel examination is complete and water is removed, perform the following:
 - A. Construct Zone II clean area at "B" steam generator lower manway and I.D. of reactor vessel at 1P51C return line nozzle opening per 9-CP-101.
 - * B. Q.C. to inspect construction of Zone II clean area.
 - C. Remove plug from I.D. of return line and open cover on generator manway.
NOTE: Q.C. to witness removal of plug and cover.
 - * D. Inspect areas behind plug and manway cover in return line and suction lines as far as accessible toward pump case for class "B" clean per 9-CP-100. (Disregard water at this time, it will be wiped up later).
 - E. If inspection noted in item 4D above is acceptable, the previous class B cleanliness of pump case and pump internals shall be considered acceptable and work noted below may proceed. If inspection is not acceptable, then notify engineering for further instructions.
 - F. After inspection is completed, wipe or dry any water found in lines as far as accessible to pump case and in generator lower head. Blow filtered air thru lines for 24 hrs. to dry inaccessible areas. Replace covers on lines at reactor vessel and generator openings.
 - G. Inspect to verify water is removed and pipe opening covers are replaced.
 - H. Remove Zone II clean areas.

REPORT OF NONCONFORMITY

1. JOB NUMBER CL-238	2. UNIT NUMBER 1	3. DATE 1-20-81	4. ITEM NAME Service Structure Tie Plate	5. ITEM NUMBER MK 755
6. VENDOR/MANUFACTURER Babcock & Wilcox		7. DISCOVERED DURING ☐ RECEIVING ☐ TEST ☒ CONST.		8. REJECT TAG NUMBER 558
9. PROCEDURE NUMBER FCP #102		10. SPECIFICATION NUMBER N/A		
11. DRAWING NUMBER 203269E, Rev. 1		12. PRIOR REPORT OF NONCONFORMITY? N/A		
13. DESCRIPTION OF NONCONFORMITY An arc burn was created by a short in a welding cable at the edge of a hole in tie plate #12. (See sketch on Page 2 of 2).				
14. REPORTED BY <u>A. L. Schmitt</u> <u>1-20-81</u> NAME DATE		15. VERIFIED BY <u>R. W. Stone</u> <u>1-20-81</u> NAME DATE		16. CORRECTIVE ACTION REQUIRED ☒ YES ☐ NO
17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e) ☐ YES ☒ NO <u>J. H. Linn</u> <u>1-20-81</u> FIELD PROJECT ENGINEER DATE				
18. RECOMMENDED DISPOSITION: ☐ N/A ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS				
19. TECHNICAL JUSTIFICATION/OR RECOMMENDED DISPOSITION INSTRUCTIONS _____ FIELD PROJECT ENGINEER DATE				
20. ACTUAL DISPOSITION: ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS				
21. DISPOSITION INSTRUCTIONS _____ FIELD PROJECT ENGINEER DATE				
22. APPROVALS B&W FQC _____ SIGNATURE DATE OWNER/AGENT _____ SIGNATURE DATE			23. ANI REVIEW _____ SIGNATURE DATE	
24. DISPOSITION COMPLETED _____ NAME DATE		25. DISPOSITION VERIFICATION ☐ ACCEPTABLE ☐ UNACCEPTABLE _____ NAME DATE REPORT OF NONCONFORMITY #		
26. CORRECTIVE ACTION _____ FIELD PROJECT MANAGER DATE				
27. NONCONFORMITY CLOSED _____ FIELD QUALITY CONTROL SUPV. DATE				

REPORT OF NONCONFORMITY

JOB NUMBER CL-238	UNIT NUMBER 1	DATE 1-20-81	REPORT OF NONCONFORMITY # 1769
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ARC
BURN
LENGTH $1\frac{1}{2}''$
WIDTH $\frac{1}{4}''$
DEPTH $\frac{5}{32}''$

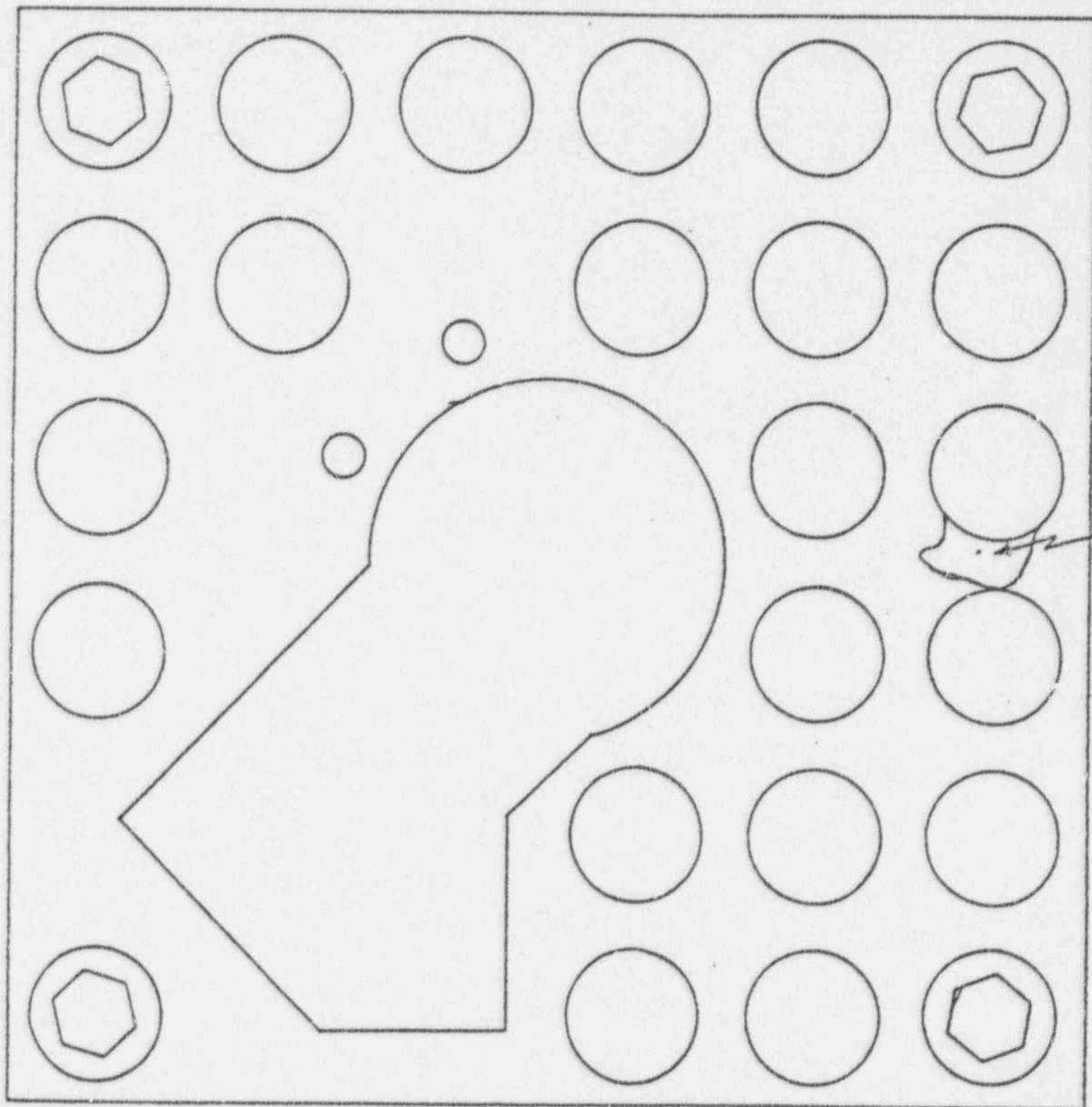
#12 TIE PLATE

REPORT OF NONCONFORMITY

1. JOB NUMBER CL-238	2. UNIT NUMBER 1	3. DATE 1-20-81	4. ITEM NAME Service Structure Tie Plate	5. ITEM NUMBER MK 755
6. VENDOR/MANUFACTURER Babcock & Wilcox		7. DISCOVERED DURING ☐ RECEIVING ☐ TEST ☒ CONST.		8. REJECT TAG NUMBER 558
9. PROCEDURE NUMBER FCP #102		10. SPECIFICATION NUMBER N/A		
11. DRAWING NUMBER 203269E, Rev. 1		12. PRIOR REPORT OF NONCONFORMITY# N/A		
13. DESCRIPTION OF NONCONFORMITY An arc burn was created by a short in a welding cable at the edge of a hole in tie plate #12. (See sketch on Page 2 of 2).				
14. REPORTED BY <u>A. L. Schmitt</u> NAME 1-20-81 DATE		15. VERIFIED BY <u>R. W. Stone</u> NAME 1-20-81 DATE		16. CORRECTIVE ACTION REQUIRED ☒ YES ☐ NO
17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e) ☐ YES ☒ NO <u>J. H. Liss</u> FIELD PROJECT ENGINEER 1-20-81 DATE				
18. RECOMMENDED DISPOSITION: ☐ N/A ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS				
19. TECHNICAL JUSTIFICATION/OR RECOMMENDED DISPOSITION INSTRUCTIONS _____ FIELD PROJECT ENGINEER _____ DATE				
20. ACTUAL DISPOSITION: ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS				
21. DISPOSITION INSTRUCTIONS _____ FIELD PROJECT ENGINEER _____ DATE				
22. APPROVALS B&W FOC _____ SIGNATURE DATE OWNER/AGENT _____ SIGNATURE DATE OTHER _____ SIGNATURE DATE OTHER _____ SIGNATURE DATE			23. ANI REVIEW _____ SIGNATURE DATE _____ SIGNATURE DATE	
24. DISPOSITION COMPLETED _____ NAME DATE		25. DISPOSITION VERIFICATION ☐ ACCEPTABLE ☐ UNACCEPTABLE _____ NAME DATE REPORT OF NONCONFORMITY #		
26. CORRECTIVE ACTION _____ FIELD PROJECT MANAGER _____ DATE				
27. NONCONFORMITY CLOSED _____ FIELD QUALITY CONTROL SUPV. _____ DATE 1769				

REPORT OF NONCONFORMITY

JOB NUMBER CL-238	UNIT NUMBER 1	DATE 1-20-81	REPORT OF NONCONFORMITY # 1769
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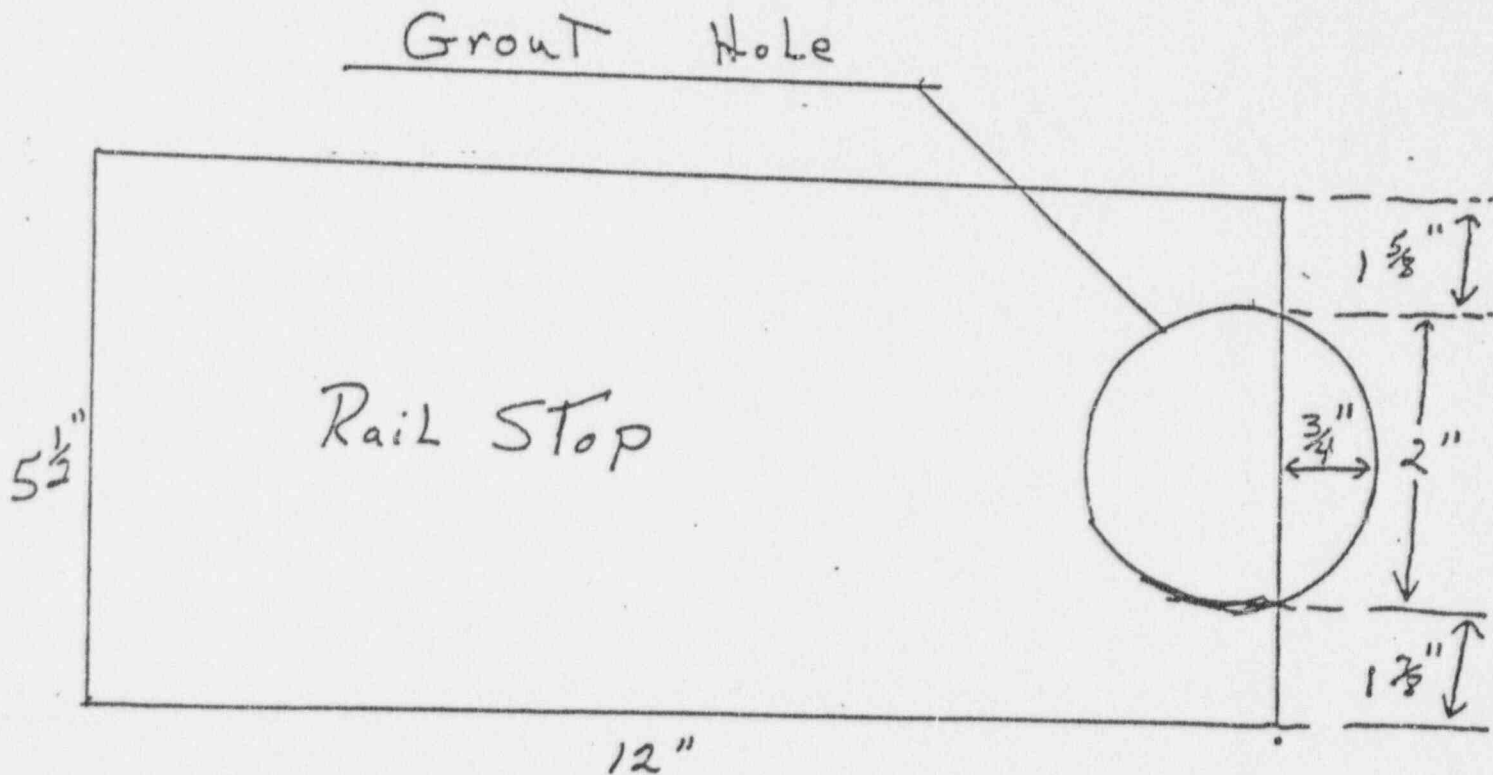
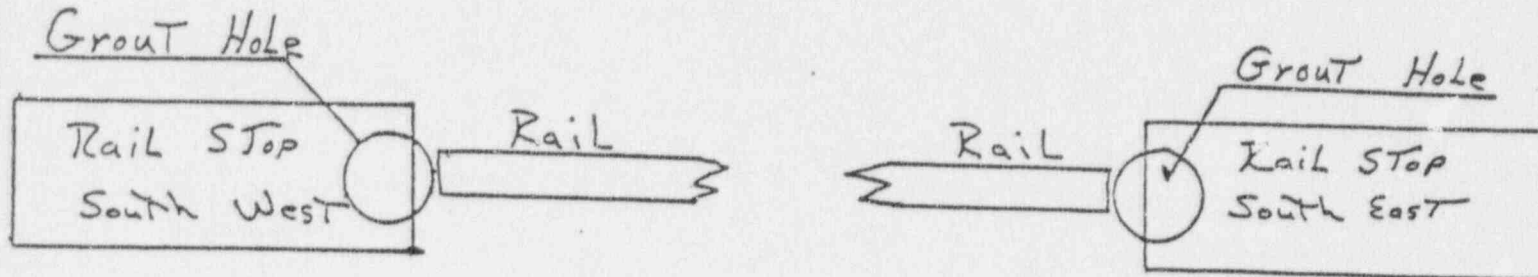
ARC
BURN
LENGTH $1\frac{1}{2}$ "
WIDTH $\frac{1}{4}$ "
DEPTH $\frac{3}{32}$ "

#12 TIE PLATE

1. JOB NUMBER CL-238		2. UNIT NUMBER Aux. Bldg.		3. DATE 1-23-81		4. ITEM NAME Bridge Stop		5. ITEM NUMBER 4900	
6. VENDOR/MANUFACTURER Stearns Roger			7. DISCOVERED DURING ☐ RECEIVING ☒ TEST ☒ CONST.			8. REJECT TAG NUMBER 560		9. PROCEDURE NUMBER FCP #123	
10. SPECIFICATION NUMBER N/A			11. DRAWING NUMBER C-389, Rev. 2, 22576-12			12. PRIOR REPORT OF NONCONFORMITY# N/A			
13. DESCRIPTION OF NONCONFORMITY Can not get full 360° weld on either east or west end of south fuel handling bridge rail stop as required by drawing 22576-12. Grout hole in each end of channel for fuel handling bridge rail will leave a 2" gap in weld for each rail stop.									
14. REPORTED BY <u>Ruth Lee</u> <u>V. BOOKER</u> NAME DATE			15. VERIFIED BY <u>RW Shore</u> NAME DATE			16. CORRECTIVE ACTION REQUIRED ☐ YES ☒ NO			
17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e) ☐ YES ☒ NO <u>G.H. Liao</u> FIELD PROJECT ENGINEER <u>1-23-81</u> DATE									
18. RECOMMENDED DISPOSITION: ☐ N/A ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS									
19. TECHNICAL JUSTIFICATION FOR RECOMMENDED DISPOSITION INSTRUCTIONS _____ FIELD PROJECT ENGINEER _____ DATE									
20. ACTUAL DISPOSITION: ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS									
21. DISPOSITION INSTRUCTIONS _____ FIELD PROJECT ENGINEER _____ DATE									
22. APPROVALS B&W FQC _____ OTHER _____ SIGNATURE DATE SIGNATURE DATE OWNER/AGENT _____ OTHER _____ SIGNATURE DATE SIGNATURE DATE						23. ANI REVIEW _____ SIGNATURE DATE			
24. DISPOSITION COMPLETED _____ NAME DATE			25. DISPOSITION VERIFICATION ☐ ACCEPTABLE ☐ UNACCEPTABLE _____ NAME DATE REPORT OF NONCONFORMITY #						
25. CORRECTIVE ACTION _____ FIELD PROJECT MANAGER _____ DATE									
27. NONCONFORMITY CLOSED _____ FIELD QUALITY CONTROL SUPV. _____ DATE									

REPORT OF NONCONFORMITY

JOB NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL-238	Aux. Bldg.	1-23-81	1770



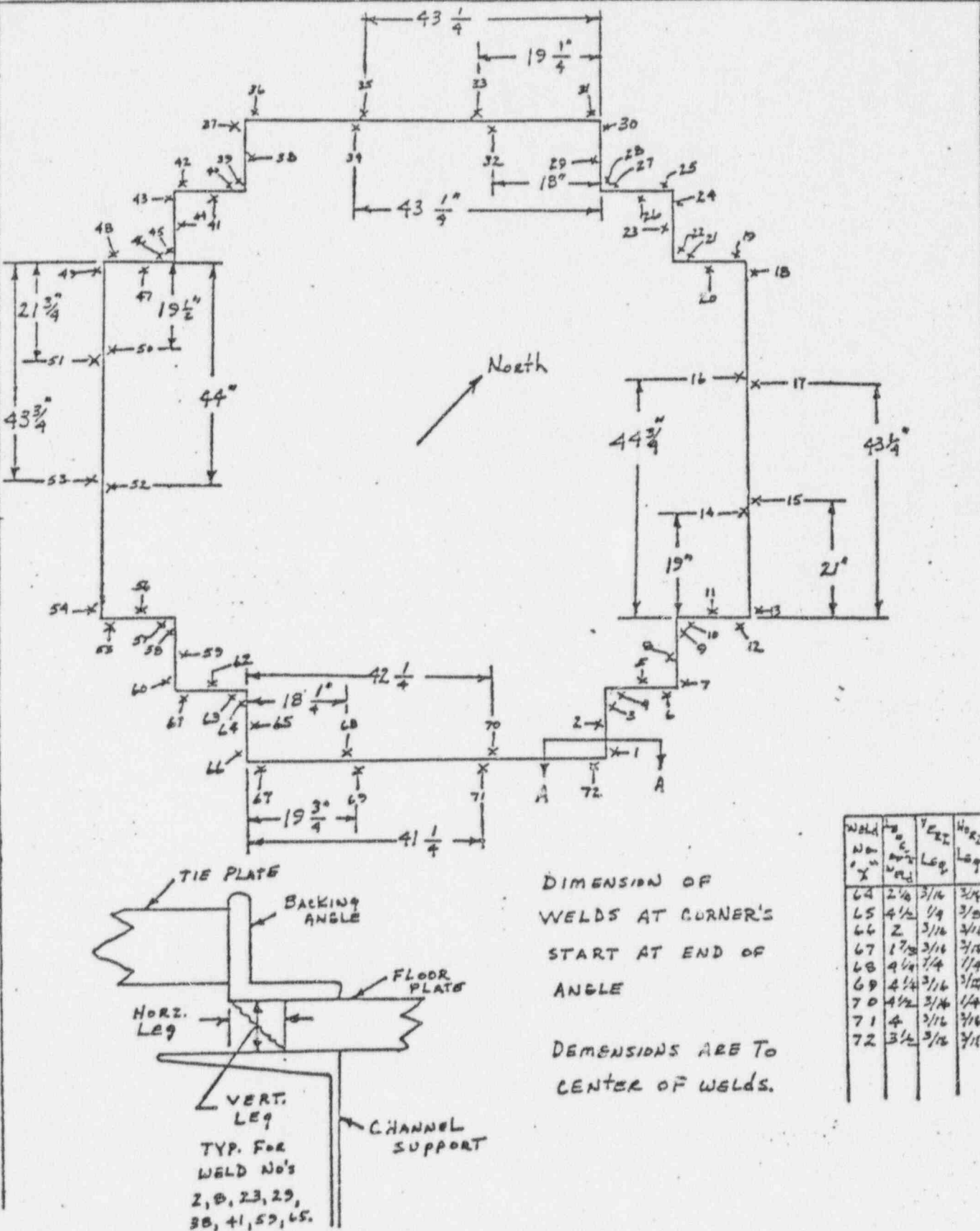
REPORT OF NONCONFORMITY

1. JOB NUMBER CL-238		2. UNIT NUMBER #1		3. DATE 1-26-81		4. ITEM NAME URDM Tie Plate Backing Angles		5. ITEM NUMBER N/A		
6. VENDOR MANUFACTURER Babcock & Wilcox			7. DEFECTS FOUND DURING ☐ INSPECTION ☐ TEST		8. REJECT TAG NUMBER 561			9. PROCEDURE NUMBER FCP #102		
10. SPECIFICATION NUMBER 9-WG-106				11. DRAWING NUMBER 203269E			12. PR. OR REPORT OF NONCONFORMITY# N/A			
13. DESCRIPTION OF NONCONFORMITY The print calls for 3/16" fillet weld 4" long on 24" centers inside and out, staggered. The weld sizes and position are as shown on Page 2 of 2.										
14. REPORTED BY <u><i>T. Kang</i></u> NAME 1-26-81 DATE				15. VERIFIED BY <u><i>R. H. Linn</i></u> NAME 1-26-81 DATE			16. CORRECTIVE ACTION REQUIRED ☐ YES ☒ NO			
17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e) ☐ YES ☒ NO <u><i>H. H. Linn</i></u> FIELD PROJECT ENGINEER 1-26-81 DATE										
18. RECOMMENDED DISPOSITION: ☐ N/A ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS										
19. TECHNICAL JUSTIFICATION/OR RECOMMENDED DISPOSITION INSTRUCTIONS _____ FIELD PROJECT ENGINEER DATE										
20. ACTUAL DISPOSITION: ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS										
21. DISPOSITION INSTRUCTIONS _____ FIELD PROJECT ENGINEER DATE										
22. APPROVALS BSW FOC _____ SIGNATURE _____ DATE _____ OWNER AGENT _____ SIGNATURE _____ DATE _____ OTHER _____ SIGNATURE _____ DATE _____						23. ANI REVIEW _____ SIGNATURE _____ DATE _____				
24. DISPOSITION COMPLETED _____ NAME _____ DATE _____				25. DISPOSITION VERIFICATION ☐ ACCEPTABLE ☐ UNACCEPTABLE _____ NAME _____ DATE _____ REPORT OF NONCONFORMITY #						
25. CORRECTIVE ACTION _____ FIELD PROJECT MANAGER DATE										
27. NONCONFORMITY CLOSED _____ FIELD QUALITY CONTROL SUPV. DATE 1-27-81										

REPORT OF NONCONFORMITY

JOB NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL-238	#1	1-26-81	1771

Weld No.	Weld Size	Weld Length	Weld Location
1	2 1/2	3/16	1/4
2	4 1/4	3/16	1/4
3	2 1/2	3/16	3/16
4	2 1/2	3/16	3/16
5	4 1/4	3/16	1/8
6	2 1/2	3/16	3/16
7	2 1/2	3/16	3/16
8	4 1/2	5/16	5/16
9	2	3/16	3/16
10	2	3/16	3/16
11	4 1/2	1/4	3/16
12	2	3/16	3/16
13	4 1/2	3/16	3/16
14	3 1/2	3/16	3/16
15	4 1/2	3/16	3/16
16	4 1/4	3/8	1/4
17	4 1/2	3/16	3/16
18	3 1/2	3/16	3/16
19	2 1/2	3/16	3/16
20	4	3/16	3/16
21	2 1/2	3/16	3/16
22	2 1/4	3/16	3/16
23	4	1/4	3/8
24	2	3/16	3/16
25	2 1/2	3/16	3/16
26	4	3/16	3/16
27	2	3/16	3/16
28	2	3/16	3/16
29	4 1/2	5/16	3/8
30	2 1/2	3/16	3/16
31	2 1/2	3/16	3/16
32	3 1/2	3/16	1/4
33	4	3/16	3/16
34	4	1/4	1/4
35	4	3/16	3/16
36	2	3/16	3/16
37	2	3/16	3/16
38	3 1/2	1/2	3/8
39	2	3/16	3/16
40	2 1/2	3/16	3/16
41	4	1/4	1/4
42	2 1/2	3/16	3/16
43	2	3/16	3/16
44	4 1/2	3/8	3/8
45	2	3/16	3/16
46	2	3/16	3/16
47	3 1/4	1/4	1/4
48	2 1/2	3/16	3/16
49	2 1/2	3/16	3/16
50	5	3/16	5/8
51	4	3/16	3/16
52	4 1/2	3/16	3/16
53	4	3/16	3/16
54	2	3/16	3/16
55	2	3/16	3/16
56	4 1/4	3/16	3/16
57	2	3/16	3/16
58	2 1/2	3/16	3/16
59	4	3/8	5/8
60	2	3/16	3/16
61	2 1/2	3/16	3/16
62	4	3/16	1/4
63	2 1/2	3/16	3/16



Weld No.	Weld Size	Weld Length	Weld Location
64	2 1/2	3/16	3/4
65	4 1/2	1/4	3/8
66	2	3/16	3/16
67	1 1/2	3/16	3/16
68	4 1/4	1/4	1/4
69	4 1/4	3/16	3/16
70	4 1/2	3/16	1/4
71	4	3/16	3/16
72	3 1/2	3/16	3/16

SEQUENTIAL NUMBER N^o 1772

REPORT OF NONCONFORMITY

1. JOB NUMBER CL-238		2. UNIT NUMBER 1		3. DATE 1-28-81		4. ITEM NAME Thermal Shield Restraint		5. ITEM NUMBER MK 660	
6. VENDOR MANUFACTURER Babcock & Wilcox		7. DISCOVERED DURING ☐ RECEIVING ☐ TEST ☒ CONST.		8. REJECT TAG NUMBER 563		9. PROCEDURE NUMBER FCP #61			
10. SPECIFICATION NUMBER 9-WG-106		11. DRAWING NUMBER 111222D, Rev. 2		12. PR. OR REPORT OF NONCONFORMITY N/A					
13. DESCRIPTION OF NONCONFORMITY The visual inspect of welds on the MK-391 plugs are rejectable due to size only. No defects detected by 5I. Drawing requirement is 1/16" fillet. Actual fillet size ranges between 5/32" and 1/8". 3/16" <i>Rec'd</i> 1-28-81									
14. REPORTED BY <i>A.C. [Signature]</i> NAME 1-28-81 DATE				15. VERIFIED BY <i>R.W. [Signature]</i> NAME 1-28-81 DATE		16. CORRECTIVE ACTION REQUIRED ☒ YES ☐ NO			
17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 33 CFR 50.55 (e) ☐ YES ☒ NO <i>W. H. [Signature]</i> FIELD PROJECT ENGINEER 1-29-81 DATE									
18. RECOMMENDED DISPOSITION: ☐ N/A ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☒ ACCEPT AS IS									
19. TECHNICAL JUSTIFICATION FOR RECOMMENDED DISPOSITION INSTRUCTIONS All fillet welds are oversize. The oversize welds do not interfere with any equipment. Recommend accept as is. <i>W. H. [Signature]</i> FIELD PROJECT ENGINEER 1-29-81 DATE									
20. ACTUAL DISPOSITION: ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☒ ACCEPT AS IS									
21. DISPOSITION INSTRUCTIONS FIELD PROJECT ENGINEER DATE									
22. APPROVALS B&W FOC SIGNATURE DATE OWNER/AGENT SIGNATURE DATE OTHER SIGNATURE DATE OTHER SIGNATURE DATE						23. ANI REVIEW SIGNATURE DATE			
24. DISPOSITION COMPLETED NAME DATE		25. DISPOSITION VERIFICATION ☐ ACCEPTABLE ☐ UNACCEPTABLE NAME DATE REPORT OF NONCONFORMITY #							
26. CORRECTIVE ACTION FIELD PROJECT MANAGER DATE									
27. NONCONFORMITY CLOSED FIELD QUALITY CONTROL S. P. V. DATE									

B+WCC

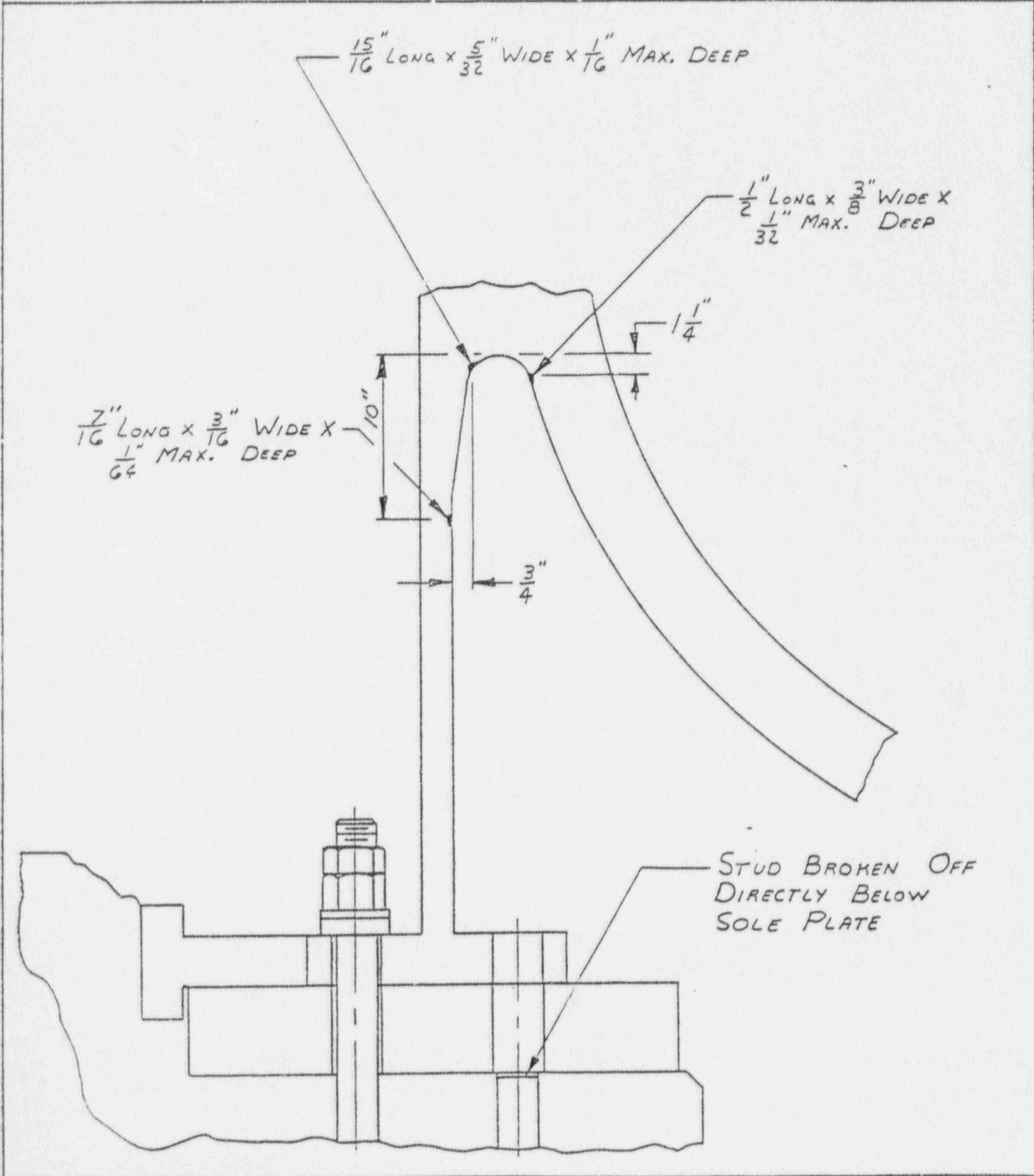
NCR's — closed

REPORT OF NONCONFORMITY

1. JOB NUMBER CL-238	2. UNIT NUMBER 1	3. DATE 9-14-79	4. ITEM NAME Reactor Vessel Anchor Stud	5. ITEM NUMBER N/A
6. VENDOR MANUFACTURER Bechtel	7. DISCOVERED DURING ☐ RECEIVING ☐ TEST ☒ CONST.		8. REJECT TAG NUMBER 531	9. PROCEDURE NUMBER FCP #10 FCP #10 11-1-80
10. SPECIFICATION NUMBER N/A	11. DRAWING NUMBER C-376 Rev. 9		12. PRIOR REPORT OF NONCONFORMITY N/A	
13. DESCRIPTION OF NONCONFORMITY Stud No. 35 (Third stud clockwise from "X" Axis, (north) on the inside) broke off even with the bottom of the sole plate (8 3/16" down from the top of flange skirt). Damage was incurred to the Reactor Vessel when the stud broke. See chart of damage on page 2 of 2.				
14. REPORTED BY <u>A.C. Schmitt</u> <u>9-14-79</u> NAME DATE		15. VERIFIED BY <u>RW Shope</u> <u>9-14-79</u> NAME DATE		16. CORRECTIVE ACTION REQUIRED ☐ YES ☒ NO
17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 55.55 ☒ YES ☐ NO <u>D.G. Hurst</u> <u>9-14-79</u> FIELD PROJECT ENGINEER DATE				
18. RECOMMENDED DISPOSITION: ☐ N/A ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS				
19. TECHNICAL JUSTIFICATION OR RECOMMENDED DISPOSITION INSTRUCTIONS Vendor to supply disposition <u>H.H. Linn</u> <u>9-15-79</u> FIELD PROJECT ENGINEER DATE				
20. ACTUAL DISPOSITION: ☒ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS				
21. DISPOSITION INSTRUCTIONS This repair is to be done in accordance with CPCo Section XI Program. See SPR - 119 & Attachment Rework of damage areas. Approval sign off this page. <u>5-15-80</u> Rework of stud approval <u>H.H. Linn</u> Sign off on Attachment. <u>12-11-79</u> FIELD PROJECT ENGINEER DATE				
22. APPROVALS B&W FQC <u>RW Shope</u> <u>12-14-79</u> SIGNATURE DATE OWNER AGENT <u>R.W. Whitaker</u> <u>4/29/80</u> SIGNATURE DATE <u>R.W. Whitaker</u> <u>6/9/80</u> SIGNATURE DATE			23. FINAL REVIEW <u>Fish</u> <u>6-10-80</u> SIGNATURE DATE	
24. DISPOSITION COMPLETED <u>RW Shope</u> <u>1-29-81</u> NAME DATE		25. DISPOSITION VERIFICATION <u>RW Shope</u> <u>1-29-81</u> NAME DATE REPORT OF NONCONFORMITY		
25. CORRECTIVE ACTION				
FIELD PROJECT MANAGER _____ DATE _____				
27. NONCONFORMITY CLOSED <u>RW Shope</u> <u>1-29-81</u> FIELD QUALITY CONTROL SUPERVISOR DATE				

REPORT OF NONCONFORMITY

JOB NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL-238	1	9-14-79	1656



HA Guetling

PDS-21071-6 (8-79)

PROBLEM IDENTIFICATION	SITE PROBLEM REPORT		PRIORITY 1 ☐ 2 ☐ 3 ☒ 4 ☐ NONE ☐		BABCOCK & WILCOX	
	CUSTOMER CHANDLER POWER CO.		ORIGINATOR H.A. GUETLING	DATE 10-10-79	DOC ID NSS NO. SPR NO. REV. NO. 13 620-0012 119 0	
	SUPPLIER B & W		PR. NO. 620-0012-51		PART NO./TASK-GROUP-SEQ. NO. 51 10 001	
	TITLE (MAXIMUM 50 CHARACTERS) REACTOR VESSEL				LEAD MANAGER R.N. TORNOW	
	DESCRIPTION OF PROBLEM: STUD NO. 35 BROKE AND CAUSED DAMAGE TO RV LOWER HEAD AND SUPPORT SKIRT. SEE ATTACHED NCR CHART. B&W NCR # 1656					
PROBLEM IDENTIFICATION	STATUS-ACTION TO DATE, INCLUDING PERSONS CONTACTED: JOHN FROST - LYNCHBURG					
	FURTHER ACTION RECOMMENDED BY SITE PERSONNEL: VENDOR TO SUPPLY DISPOSITION.					
RESOLUTION	RESOLUTION Remove the three damaged areas by blending out with a 3:1 taper and a 0.025" minimum root radius in all directions. MT inspect the lined surfaces. Re-inspect and record the final configurations. Report to B&W - NPGD any depth that exceeds the reported depths in this SPR. It is assumed that the broken stud will be replaced.					
	☐ INFORMATION ONLY		PREPARED BY: <i>[Signature]</i> DATE: 11-20-79			
	PIA REQUIRED YES ☐ NO ☒		POTENTIAL SAFETY CONCERN YES ☐ NO ☒		RESOLUTION DOC. NO. N/A	
RESOLUTION	REVIEWED BY: <i>[Signature]</i> DATE: 11/30/79		REVIEWED BY: <i>[Signature]</i> DATE: 12/2/79			
	SPR CLOSEDOUT REPORT:		CLOSED OUT BY: <i>[Signature]</i> DATE:			
USEOUT			SHEET <i>1</i> of <i>1</i>			

REPORT OF NONCONFORMITY

JOB NUMBER CL-238	UNIT NUMBER 1	DATE 12-11-79	REPORT OF NONCONFORMITY # 1656
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Rework of damaged areas on reactor vessel.

1. Blend grind damaged areas to a 3:1 taper with a .625" minimum root radius. Do not grind deeper than original depth.

1-13-81 *R. Linn*

- ~~**~~ 2. NDE examine in accordance with 9-MT-105. ANI HOLD POINT
MT OK #6983 1/13/81 *R. Linn* ANI *W. Vulliam* 1-13-81

3. Map & record the final configurations.

SEE ATTACHED SHEET FOR FINAL CONFIGURATION *R.D. Brown* 1-13-81

4. Transmit information obtained to NPGD only if original depths reported were exceeded.

DEPTHS NOT EXCEEDED. *H.H. Linn* 1-13-81

Disposition of Stud

1. Stud problem is still in process of evaluation.
Disposition of stud problem to be supplied later.
2. Bechtel Power has issued MCAR-37 to track and disposition this problem. B&WCC's involvement is now complete since the stud and foundation is Bechtel Power's responsibility. *H.H. Linn* 1-19-81

Approvals for Stud

Field Project Engr. *H.H. Linn* 1-19-81

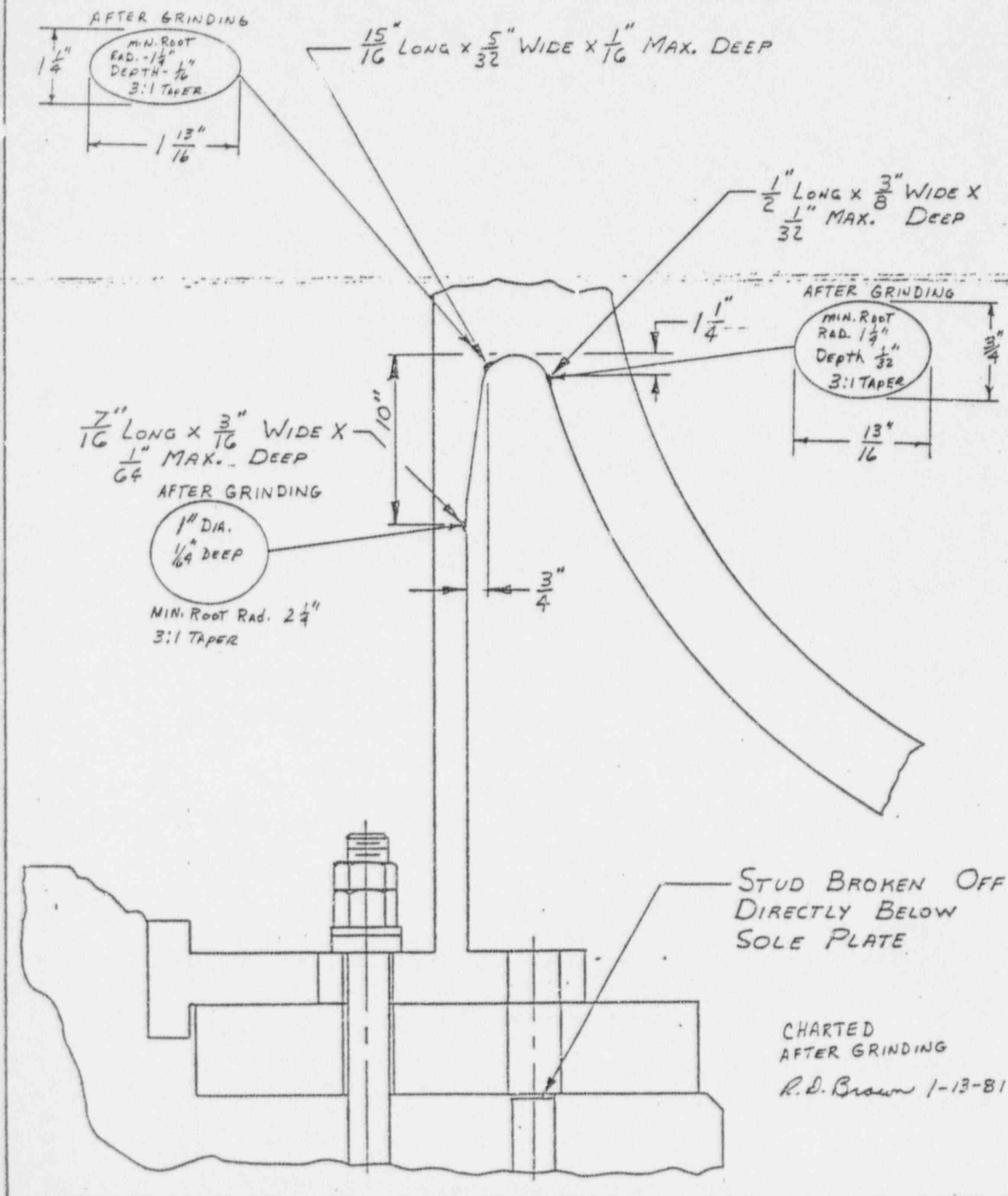
QC Supervisor *RW Moore* 1-19-81

Owner/Agent *RE Whitaker* 1/23/81

ANI *H.H. Linn* 1/29/81

REPORT OF NONCONFORMITY

JOB NUMBER	UNIT NUMBER	DATE	REPORT OF NONCONFORMITY #
CL-238	1	9-14-79	1656



BABCOCK & WILCOX
B&W CONSTRUCTION COMPANY
MAGNETIC PARTICLE & LIQUID PENETRANT
INSPECTION REPORT

MAGNETIC PARTICLE REPORT

JOB NUMBER <u>CL-238 Unit 1</u>		WELD NUMBER <u>NA</u>		DATE <u>1/13/81</u>	
SYSTEM NUMBER <u>Reactor Vessel Anchor Stud</u>		M.T. PROCEDURE NUMBER <u>9MT105</u>			
WELD REPAIR NUMBER <u>Grind Repair</u>		SEQ. NUMBER <u>#2</u>		F.C.P. NUMBER <u>NCR-1656</u>	
INSPECTION LEVEL		MATERIAL INSPECTED		SURFACE CONDITION	
☐ ROOT ☐ FINAL ☐ PARTIAL ☐ REPAIR ☒ CAVITY		☐ WELD ☒ BASE METAL		☐ AS WELDED ☒ GROUND ☐ MACHINED	
				☐ ASME I ☒ ASME III ☐ ASME VIII ☐ B 31.1 ☐ OTHER	
CURRENT		EXAMINATION METHOD		EQUIPMENT	
☒ A.C. ☐ D.C. ☐ D.C. RECTIFIED AMPERES _____		☐ PROD ☐ WET ☒ Y-5 YOKE ☒ DRY		MAKE <u>MAGAB/UX</u> MODEL <u>Y-5</u> SERIAL NUMBER <u>Y-100</u>	
				☐ FLOURESCENT ☒ RED ☐ GRAY	
☒ ACCEPT ☐ REJECT COMMENTS: Lighting OK					
INSPECTOR <u>L. J. Smith</u> CERTIFIED LEVEL <u>II</u>					

LIQUID PENETRANT REPORT

JOB NUMBER _____		WELD NUMBER _____		DATE _____	
SYSTEM NUMBER _____		L.P. PROCEDURE NUMBER _____			
WELD REPAIR NUMBER _____		SEQ. NUMBER _____		F.C.P. NUMBER _____	
INSPECTION LEVEL		MATERIAL INSPECTED		SURFACE CONDITION	
☐ ROOT ☐ FINAL ☐ PARTIAL ☐ REPAIR		☐ WELD ☐ BASE METAL TYPE _____		☐ AS WELDED ☐ GROUND ☐ MACHINED	
				☐ ASME I ☐ ASME III ☐ ASME VIII ☐ B 31.1 ☐ OTHER	
PRE EXAM. CLEANING		PENETRANT APPLICATION		PRE DEVELOP CLEAN	
☐ SPRAY ☐ WIPE BATCH NO. _____ DRY TIME _____		☐ SPRAY ☐ BRUSH BATCH NO. _____ DWELL TIME _____		☐ CLOTH WIPE ☐ TOWEL WIPE ☐ SOLVENT WIPE BATCH NO. _____ DRY TIME _____	
				☐ DUST ☐ SPRAY BATCH NO. _____ DEV. TIME _____	
				☐ FLUSH ☐ SOLVENT WIPE BATCH NO. _____	
☐ ACCEPT ☐ REJECT COMMENTS:		TEMPERATURE _____		GAGE NUMBER _____	
INSPECTOR _____ CERTIFIED LEVEL _____					

N/A = NOT APPLICABLE

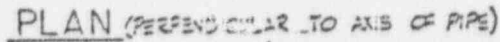
SEQUENTIAL NUMBER

No 6983

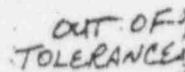
REPORT OF NONCONFORMITY

1. JOB NUMBER CL-238	2. UNIT NUMBER 1 & 2	3. DATE 3-17-80	4. ITEM NAME Restraints	5. ITEM NUMBER PR-10, PR-16, PR-3 PR-11, PR-20, PR-13
6. VENDOR/MANUFACTURER NPS Industries	7. DISCOVERED DURING ☐ RECEIVING ☐ TEST ☒ CONST.	8. REJECT TAG NUMBER 431, 433, 435 432, 434, 436	9. PROCEDURE NUMBER FCP 74A, FCP 99A FCP 71A, FCP 98A	
10. SPECIFICATION NUMBER N/A	11. DRAWING NUMBER C-487, C-488, C-489	12. PRIOR REPORT OF NONCONFORMITY: N/A		
13. DESCRIPTION OF NONCONFORMITY The following Unit #1 and Unit #2 Core Flood Restraints are welded off the center line of the Embed more than the $\frac{1}{2}$ " allowable tolerance. See the attached sketches #1, 2, 3 & 4.				
14. REPORTED BY <u>James L. Jones</u> <u>3-17-80</u> NAME DATE		15. VERIFIED BY <u>RW Shope</u> <u>3-17-80</u> NAME DATE		16. CORRECTIVE ACTION REQUIRED ☐ YES ☒ NO
17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e) ☐ YES ☒ NO <u>H. H. Lin</u> <u>3-17-80</u> FIELD PROJECT ENGINEER DATE				
18. RECOMMENDED DISPOSITION: ☐ N/A ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☒ ACCEPT AS IS				
19. TECHNICAL JUSTIFICATION FOR RECOMMENDED DISPOSITION INSTRUCTIONS Accept As Is. <u>H. H. Lin</u> <u>3-17-80</u> FIELD PROJECT ENGINEER DATE				
20. ACTUAL DISPOSITION: ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☒ ACCEPT AS IS				
21. DISPOSITION INSTRUCTIONS See RFI 378. Accept location as is. Restraint 2-611-1-10 will be revised in accordance with FCP 74A when Drawing C-487 is revised for additional stiffeners. <u>H. H. Lin</u> <u>6-9-80</u> FIELD PROJECT ENGINEER DATE				
22. APPROVALS B&W FQC <u>RW Shope</u> <u>6-4-80</u> OTHER _____ SIGNATURE DATE SIGNATURE DATE OWNER/AGENT <u>R. Whitaker</u> <u>6/9/80</u> OTHER _____ SIGNATURE DATE SIGNATURE DATE			23. ANI REVIEW <u>pin</u> <u>6-19-80</u> SIGNATURE DATE	
24. DISPOSITION COMPLETED <u>H. H. Lin</u> <u>1-23-81</u> NAME DATE		25. DISPOSITION VERIFICATION <u>G. H. Lin</u> <u>1-23-81</u> NAME DATE ☒ ACCEPTABLE ☐ UNACCEPTABLE REPORT OF NONCONFORMITY #		
25. CORRECTIVE ACTION				
27. NONCONFORMITY CLOSED <u>RW Shope</u> <u>1-23-81</u> FIELD QUALITY CONTROL SUPV. DATE				

NCE 1719

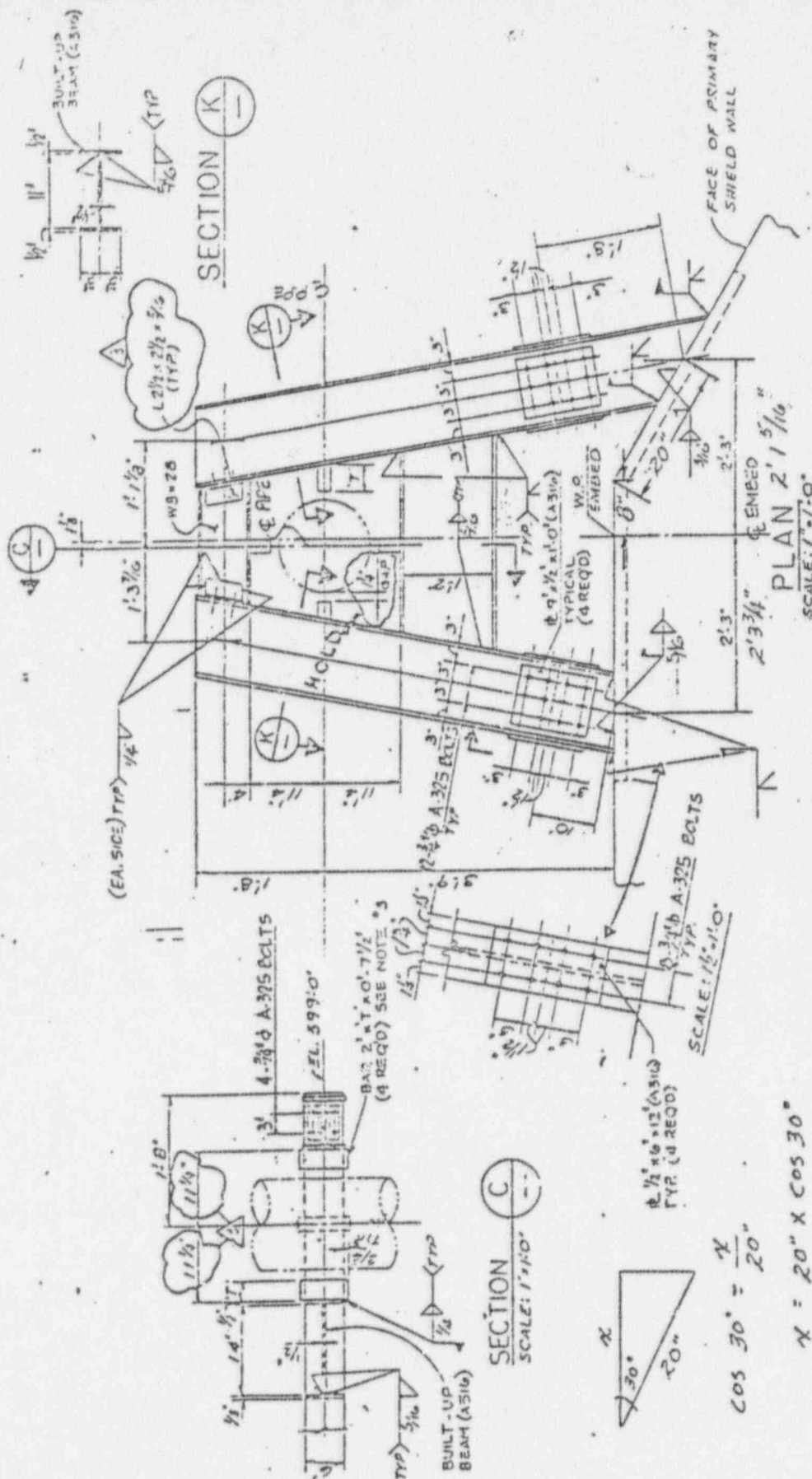


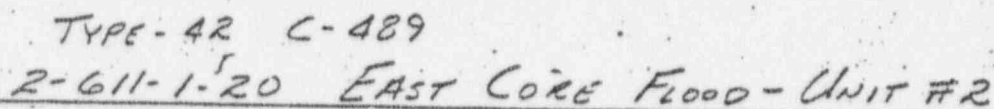
2-611-1-10 WEST CORE FLOOD - UNIT #2



2-611-1-11 WEST CORE FLOOD-UNIT #2

10FB





PIPE, F

F. DWG. OR SPEC.	SHEET	REV.	TITLE	
487, C-488, C-489	N/A	5,3,5	Whip Restraints	RFI #378

PREPARED BY: W. G. Linn *W. G. Linn* RESPONSE REQUESTED BY DATE

EXISTING CONDITION:

See NCR-1719

Six Restraints have been installed exceeding 3" to centerline of Embed Requirements

REQUESTED INFORMATION:

Bechtel to advise if disposition as stated on NCR-1719 is acceptable.

RESPONSE

Project Engineering has reviewed FER CC-117 which requests a review of B&W NCR 1719. We have determined that all restraints except 2-611-1-10 (Type 35) may be accepted as installed. Restraint 2-611-1-10 requires the addition of stiffener plates to both horizontal members of the restraint as shown by the detail on the attachment. Project Engineering will revise Dwg. C-487 to show this detail.

Reviewed by: Date Response Prepared by: *Steve Howe*

Civil	<i>Paul Dugan</i>	<i>5/27/80</i>	Bechtel Approval:
Elect.	<i>NA</i>	<i>5-28-80</i>	
Mech.	<i>NA</i>		Project Field Engineer or Designer D

1. JOB NUMBER CL-238	2. UNIT NUMBER 1	3. DATE 6-24-80 <u>6-25-80</u>	4. ITEM NAME Vent Valve Sleeve	5. ITEM NUMBER MK #32
6. VENDOR/MANUFACTURER Babcock & Wilcox	7. DISCOVERED DURING ☐ RECEIVING ☐ TEST ☒ CONST.	8. REJECT TAG NUMBER #429	9. PROCEDURE NUMBER FCP #192	
10. SPECIFICATION NUMBER N/A	11. DRAWING NUMBER 20762-H, Rev. 12		12. PP OR REPORT OF NONCONFORMITY N/A	
13. DESCRIPTION OF NONCONFORMITY After machining, the right-hand sleeve for valve (S/N 82) measures .9678" I.D. The right-hand jackscrew shoulder measures .9679" O.D. The interference fit is .0001" and the FCP calls for .0005" to .001".				
14. REPORTED BY <u>R. L. Brown</u> <u>6-25-80</u> NAME DATE		15. VERIFIED BY <u>R. W. Shore</u> <u>6-25-80</u> NAME DATE		16. CORRECTIVE ACTION REQUIRED ☐ YES ☒ NO
17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e) ☐ YES ☒ NO <u>J. H. Lim</u> <u>6-25-80</u> FIELD PROJECT ENGINEER DATE				
18. RECOMMENDED DISPOSITION: ☐ N/A ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☒ ACCEPT AS IS				
19. TECHNICAL JUSTIFICATION OR RECOMMENDED DISPOSITION INSTRUCTIONS Accept as is. Vendor to advise. <u>J. H. Lim</u> <u>7-2-90</u> FIELD PROJECT ENGINEER DATE				
20. ACTUAL DISPOSITION: ☐ REWORK ☒ REPAIR ☒ REPLACE ☐ RETURN ☐ ACCEPT AS IS				
21. DISPOSITION INSTRUCTIONS See SPR-162 Obtain new sleeve. When received, QC to receipt inspect in accordance with 9-QPP-108. <u>R. L. Jones</u> <u>11-26-80</u> <u>J. Jones</u> <u>7-25-90</u> <u>Ent 1-7-81</u> FIELD PROJECT ENGINEER DATE				
22. APPROVALS B&W FOC <u>R. W. Shore</u> <u>7-25-80</u> OTHER _____ SIGNATURE DATE SIGNATURE DATE OWNER/AGENT <u>R. W. Shore</u> <u>7-25-80</u> OTHER _____ SIGNATURE DATE SIGNATURE DATE			23. ANALYSIS/REVIEW <u>J. H. Lim</u> <u>7-9-80</u> SIGNATURE DATE	
24. DISPOSITION COMPLETED <u>Ent 1-7-81</u> <u>J. Jones</u> <u>11-26-80</u> NAME DATE		25. DISPOSITION VERIFICATION ☒ ACCEPTABLE ☐ UNACCEPTABLE <u>R. W. Shore</u> <u>1-7-81</u> NAME DATE REPORT OF NONCONFORMITY #		
25. CORRECTIVE ACTION				
27. NONCONFORMITY CLOSED <u>R. W. Shore</u> <u>1-7-81</u> FIELD QUALITY CONTROL SUPV. DATE				

QUEST 80-75 (2)

13 12 100

CLINIC 12

MR. BRYAN

VENDOR CLAIM NO. 1

PART NO. 125-10

620-0015-00

01-001

APPROX. 12 1960

Att: H. A. Gvetling

SEE ITEM #13 OF NCR.

3 AM NCR # 1739

DATE 7/1/60

THIS ACTION TO DATE, INCLUDING PERSONS CONTACTED:

L.D. CLINE - NPGD, LYNNBURG

OTHER ACTION RECOMMENDED BY SITE PERSONNEL:

VENDOR TO SUPPLY DISPOSITION.

COMMENTS:

The .0001 interference fit of sleeve MK-32 is not acceptable and must be replaced. Site to provide or request replacement. Return unacceptable sleeve to MED BARRACKS, ATTENDING OFFICERS.

INFORMATION ONLY

POTENTIAL SAFETY CONCERN: ☐ YES ☒ NO

SEE CLOSURE REPORT

PREPARED BY: DATE 7/1/60

REVIEWED BY: DATE 7/2/60

APPROVED BY: DATE 7/2/60

CLOSED OUT BY: DATE

SELF

1 JOB NUMBER <u>CL-238</u> DATE <u>11-26-80</u>	
PART NAME <u>VENT VALVE SLEEVE</u>	
PART NUMBER <u>03-32-0013-45-51</u>	
PART S.N. <u>51</u> NUMBER OF PIECES <u>1</u>	
VENDOR <u>BABCOCK & WILCOX</u>	
2 REFERENCE DOCUMENTS	3 ASSIGNED STORAGE LEVEL
CODE <u>ASME III</u> DRAWING <u>20762-H REV.12</u> PURCHASE ORDER <u>M 1.2</u> EQUIPMENT SPEC. <u>N/A</u> BAW FIELD SPEC. <u>N/A</u>	☒ LEVEL I ☒ LEVEL II <u>N/A</u> ☒ LEVEL III ☒ LEVEL IV IN ACCORDANCE WITH Q.C. PROCEDURE <u>N/A</u>
4 STORAGE LOCATION	
<u>RECEIVED FOR INSTALLATION</u>	
5 INSPECTION CHECKLIST	N/A
MANUFACTURING DOCUMENTATION	ACC. <u>X</u>
PROTECTIVE COVERS AND SEALS	ACC. <u>X</u>
COATINGS AND PRESERVATIVES	ACC. <u>X</u>
CLEANLINESS	ACC. <u>X</u>
PHYSICAL DAMAGE	ACC. <u>X</u>
DESICCANT & MOISTURE INDICATORS	ACC. <u>X</u>
IDENTIFICATION OR MARKING	ACC. <u>X</u>
DIMENSIONAL INSPECTION	ACC. <u>X</u>
REMARKS	
<u>DOCUMENTATION REVIEWED</u>	
<u>WILL BE DONE IN FEB 1982</u>	
<u>HT# 161805</u>	

REPORT OF NONCONFORMITY NUMBER N/A
RELEASE FOR CONSTRUCTION TAG NUMBER N/A
REJECT TAG NUMBER N/A
REPORT OF INSPECTION NUMBER N/A

Nº 741

O.C. INSPECTOR

NUMBER

REPORT OF NONCONFORMITY

1. JOB NUMBER CL-238	2. UNIT NUMBER 2	3. DATE 1-16-81	4. ITEM NAME R.V. Internals 14" Vent Valves	5. ITEM NUMBER N/A
6. VENDOR MANUFACTURER Babcock & Wilcox	7. DISCOVERED DURING ☐ RECEIVING ☐ TEST ☒ CONST.	8. REJECT TAG NUMBER 556	9. PROCEDURE NUMBER FCP #298	
10. SPECIFICATION NUMBER 9-CP-101, Rev. 1	11. DRAWING NUMBER N/A	12. PRIOR REPORT OF NONCONFORMITY# N/A		
13. DESCRIPTION OF NONCONFORMITY An unidentified piece of wire and a file was found in Unit #2 R.V. Internals clean room. The wire was being used in a cleaning process but was not logged in the Equipment Log per 9-CP-101, Rev. 1.				
14. REPORTED BY <u>A.C. Schmitt</u> 1-16-81 NAME DATE		15. VERIFIED BY <u>Rw Shone</u> 1-16-81 NAME DATE		16. CORRECTIVE ACTION REQUIRED ☒ YES ☐ NO
17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e) ☐ YES ☒ NO <u>J.H. Linn</u> 1-16-81 FIELD PROJECT ENGINEER DATE				
18. RECOMMENDED DISPOSITION: ☒ N A ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS				
19. TECHNICAL JUSTIFICATION FOR RECOMMENDED DISPOSITION INSTRUCTIONS N/A <u>J.H. Linn</u> 1-19-81 FIELD PROJECT ENGINEER DATE				
20. ACTUAL DISPOSITION: ☐ REWORK ☐ REPAIR ☒ REPLACE ☐ RETURN ☐ ACCEPT AS IS				
21. DISPOSITION INSTRUCTIONS Remove all loose parts, tools, and equipment from Unit #1 & 2 internals clean rooms (excluding scaffolding and welding machines). Upgrade all existing equipment and personnel logs for clean rooms. Instigate new logs in accordance with 9-CP-101 (including scaffolding). Q.C. to inspect & verify compliance. <u>J.H. Linn</u> 1-19-81 FIELD PROJECT ENGINEER DATE				
22. APPROVALS B&W FQC <u>Rw Shone</u> 1-19-81 OTHER SIGNATURE DATE SIGNATURE DATE OWNER/AGENT <u>R.C. Whitaker</u> 1-20-81 OTHER SIGNATURE DATE SIGNATURE DATE			23. I AM REVIEW <u>Shone</u> 1-20-81 SIGNATURE DATE	
24. DISPOSITION COMPLETED <u>A.C. Schmitt</u> 1-21-81 NAME DATE		25. DISPOSITION VERIFICATION <u>Rw Shone</u> 1-21-81 NAME DATE ☒ ACCEPTABLE ☐ UNACCEPTABLE REPORT OF NONCONFORMITY #		
25. CORRECTIVE ACTION A meeting will be held to instruct and refamiliarize QC, supervision, and craft personnel of the requirements and necessity of access control in accordance with 9-CP-101. <u>Walter J. Linn</u> 1-19-81 FIELD PROJECT MANAGER DATE				
27. NONCONFORMITY CLOSED <u>Rw Shone</u> 1-21-81 FIELD QUALITY CONTROL SUPV. DATE				

Following is a list of attendees for meeting held this date 1-20-81
to discuss requirements of Access Control Procedure 9-CP-101 as the
corrective action for B&WCC nonconformance report #1767.

Personnel in attendance:

T. St. John	B+WB	R. Cain	1016
C. Meldrum	BM 500	S. Brown	1082
L. Q. Kovich	OM 526	H. Landes	Sept
D. J. Monty	BM 1406	C. Cutler	1036
Fred E. Rivas	LB. 118	C. Bowler	1040
Mark Swenson	LB 108	H. W. Braun	1019
Jim Dodge	B.M. 533	R. Lane	QC
Bethel Siegel	B.M. 506	L. D. Treadwell	
Kurt Wellnitz	Bm 535	L. E. Norman	1080
George M. Hinkel	B.M. 501	R. L. Scott	1025
R. J. Kuznicki	BM 524	Richard R. Schwelbman	
Bill Yates	502	C. Vatt	
Ron Witt	381	Brent Eastman	1014
Randy Drey	531	C. A. Woodcock	76
Mark Wilkins	519	A. C. Ashworth	10
John Wright	516	Walt Lee	
Jim Saper	628	Ray Brown	QC Supv.
Burton Bushong	1401	Jim Turner	FE
Jeff Schaper	1407	Arnold Kleinrath	
Ed Callenough	21	V. E. Bonker	1094
E. D. Thieb.	1400	R. W. Shope	

REPORT OF NONCONFORMITY

1. JOB NUMBER CL-238	2. UNIT NUMBER 1	3. DATE 1-20-81	4. ITEM NAME R.C. Pump	5. ITEM NUMBER 1P51B
6. VENDOR MANUFACTURER Byron Jackson	7. DISCOVERED DURING ☐ RECEIVING ☐ TEST ☒ CONST.	8. REJECT TAG NUMBER 557	9. PROCEDURE NUMBER 121	
10. SPECIFICATION NUMBER None	11. DRAWING NUMBER N/A	12. PRIOR REPORT OF NONCONFORMITY None		
13. DESCRIPTION OF NONCONFORMITY ANI hold point by passed, statement in the body of the FCP required contacting the ANI prior to pressurizing the system to 2500 PSIG and holding for 15 minutes, effecting a hydrostatic test of the motor mount to pump casing gasket.				
14. REPORTED BY <u>[Signature]</u> 1-20-81 NAME DATE		15. VERIFIED BY <u>[Signature]</u> 1-20-81 NAME DATE		16. CORRECTIVE ACTION REQUIRED ☒ YES ☐ NO
17. REPORTABLE DEFICIENCY IN ACCORDANCE WITH 10 CFR 50.55 (e) ☐ YES ☒ NO <u>[Signature]</u> 1-20-81 FIELD PROJECT ENGINEER DATE				
18. RECOMMENDED DISPOSITION: ☒ N/A ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☐ ACCEPT AS IS				
19. TECHNICAL JUSTIFICATION/OR RECOMMENDED DISPOSITION INSTRUCTIONS N/A <u>[Signature]</u> 1-20-81 FIELD PROJECT ENGINEER DATE				
20. ACTUAL DISPOSITION: ☐ REWORK ☐ REPAIR ☐ REPLACE ☐ RETURN ☒ ACCEPT AS IS				
21. DISPOSITION INSTRUCTIONS The process was witnessed by B&WCC QC personnel and deemed to be performed acceptable, and it is not a code requirement for this type of hydrostatic test to be witnessed by the ANI. <u>[Signature]</u> 1-20-81 FIELD PROJECT ENGINEER DATE				
22. APPROVALS B&W FQC <u>[Signature]</u> 1-20-81 SIGNATURE DATE OWNER AGENT <u>[Signature]</u> 1/21/81 SIGNATURE DATE			23. ANI REVIEW <u>[Signature]</u> 1-27-81 SIGNATURE DATE	
24. DISPOSITION COMPLETED <u>[Signature]</u> 1-29-81 NAME DATE		25. DISPOSITION VERIFICATION <u>[Signature]</u> 1-29-81 NAME DATE ☒ ACCEPTABLE ☐ UNACCEPTABLE REPORT OF NONCONFORMITY #		
26. CORRECTIVE ACTION Inform all supervisory personnel to be more acutely aware of the presence of ANI hold points and to stamp all future ANI hold points in the body of the FCP in red ink. <u>[Signature]</u> 1-20-81 FIELD PROJECT MANAGER DATE				
27. NONCONFORMITY CLOSED <u>[Signature]</u> 1-29-81 FIELD QUALITY CONTROL SUPV. DATE				

Babcock & Wilcox

a McDermott company

B&W Construction Company

3333 Copley Road
Copley, Ohio 44321
(216) 666-8841

January 29, 1981

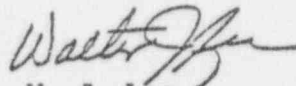
TO: ALL SUPERINTENDENTS

FROM: W. J. Lee, Project Manager

SUBJECT: Field Construction Procedures,
A.N.I. Hold for Inspection

Per our recent discussion, this is to reconfirm the importance of the Field Construction Procedure (FCP) and Weld Instruction Procedures:

1. At no time, should a "FCP Hold, Inspection Point or A.N.I Hold be by-passed.
2. At no time, should the "tolerance allowed" be exceeded.
3. If for some reason, #1 and #2 cannot be achieved, Engineering must be notified for a resolution.


W. J. Lee

WJL/dbc

cc: V. N. Asgaonkar
R. W. Shope
File

B & W ISI

NCR's

THE BABCOCK & WILCOX COMPANY
NUCLEAR POWER GENERATION DIVISION
NONCONFORMANCE REPORT (ISI)

Customer: Consumers Power Co. Nonconformance Report No: 81-1
Contract No: 192-064-004 Inspection Report No.: N/A
Component: N/A Location: Midland, MI

Description of nonconforming condition:

Administrative Procedure for Evaluation of Ultrasonic Transducer Performance Characteristics (ISI-82, Rev 2) Section 3.6 requires "This evaluation shall be performed on all transducers prior to use at the pt. site, and a minimum of six month intervals thereafter." Contrary to this, evaluations on the transducers listed in attachment 1 were evaluated on 23 June 1980 with the next evaluation on 29 December 1980. All transducers appear to be accepted in accordance with Paragraph 3.6.3 of same procedure.

Originator Dore Nessatt Date Jan. 7, 1981 2:11 PM 1/7/81

ISI Corrective Action

Beam spread measurements were performed beyond the requirements (3 months) of the procedure. The results of the measurements indicate that all the transducers listed on attachment 1 are still within the requirements of the procedure (ISI 82-R2). Acceptance of all data that was performed by these transducers during this period is recommended.

ISI Manager J. D. Drunney Date 1/19/81

Other affected Components:

NONE

Nonconformance Disposition: Accept ☒ Reject ☐

Comments:

QC Surveillance Manager J. D. Drunney Date 1/19/81
Implementation Confirmed by _____ Date _____

Distribution:

ISI Manager Group Leader QAE File

Open

Attachment 1

NCR # 81-1

32749
32744
32716
32746
32730
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32737
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32741
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32742
32735
32727
32712
32010
32190
32272
32267
32388
32271
32263
32262
32265
32266
32014
32745
32019
32268
32016

THE BABCOCK & WILCOX COMPANY
NUCLEAR POWER GENERATION DIVISION
NONCONFORMANCE REPORT (ISI)

Customer: Consumers Power Co. Nonconformance Report No: 80-6
Contract No: 599-0641-04-01 Inspection Report No.: N/A
Component: N/A Location: Midland, MI.

Description of nonconforming condition:

Item 6.2.4 of procedure ISI-133. Rev. 0 requires "Measurements of beam spread in the vertical plane shall be made before each period of extended use at a site or every three months which ever is less". Contrary to this, the three month period was exceeded as indicated

Transducer	First Measurement	Next Measurement
32744	14 July 1980	9 Dec. 1980
32712	14 July 1980	9 Dec. 1980
32745	14 July 1980	9 Dec. 1980
32746	14 July 1980	9 Dec. 1980

Originator Dene Nawat Date 9 December 1980

ISI Corrective Action

The beam spread measurements were performed beyond the required cycle of the 3 month interval and the results of the measurements indicated that the transducers (DB# 32744, 32712, 32745, 32746) were still within the requirements of ISI 133.20. acceptance of all data that was performed by these transducers during this period is recommended.

ISI Manager D. Whinnery Date 12/19/80

Other affected Components:

NONE

Nonconformance Disposition: Accept ☒ Reject ☐

Comments:

QC Surveillance Manager C. V. Taylor for P.G. Perry Date 12/19/80

Implementation Confirmed by R. O. Roberts Date 9 JAN 81

Accepted by ANII Fisher HSB 1-201 Date 1/5/81

Distribution:

ISI Manager Group Leader QAE File

closed

0

THE BABCOCK & WILCOX COMPANY
NUCLEAR POWER GENERATION DIVISION
NONCONFORMANCE REPORT (ISI)

Customer: Consumers Power Co

Nonconformance Report No: 80-5

Contract No: 599-0641-04-01

Inspection Report No.: N/A

Component: N/A

Location: Midland, MI

Description of nonconforming condition:

U.T. scope #12059 shows no CRT display.

Originator

Dene Navarath

Date

Dec 8, 1980

ISI Corrective Action

repair & recalibrate

ISI Manager

[Signature]

Date

12/10/80

Other affected Components:

none

Nonconformance Disposition:

Accept ☒

Reject ☐

Comments:

QC Surveillance Manager

[Signature]

Date

12/10/80

Implementation Confirmed by

K. O. Roberts

Date

12 4 AN 81

Distribution:

ISI Manager

Group Leader

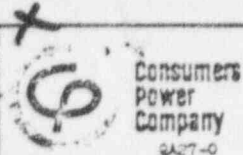
QAE

File

closed

CPCo

NCR-Open



NONCONFORMANCE REPORT

Trend Code: N-2

AI S-601

PAGE 1 OF 3

PRCTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

6. PROJECT NAME: Midland	7. NONCONFORMING PART NO: N/A	8. NONCONFORMING PART NAME: Flex Connectors	1. NCR SERIAL NO: M-01-9-1-009
9. SERIAL NUMBER: N/A	10. ORG. COMMITTING NO: Zack Co	11. AREA/LOC. OF NO: Poseyville Laydown	2. DATE: 1/21/81
12. AS IS NONCONFORMING CONDITION VERSUS AS REQUIRED CONDITION WITH REFS: M-151A, Para 4.3, stated, "Subcontractor-furnished equipment, ductwork, and duct components such as dampers, registers, grilles, diffusers, etc, shall be stored by subcontractor in accordance with manufacturer's recommendations." Zack has, to date, stored Flex-Connectors (manufactured by Vent Fabrics Co) in outside areas allowing the connectors to be exposed to the elements. Zack indicates that Vent Fabrics has not provided any storage instructions. 1. An inspection of isolated duct sections in outside storage indicates the fabric material to be substantially damaged (see attached photographs). (Continued on Page 3)			3. DATE OF REV: 1/26/81
			4. FILE NO: 16.3.6
13. QA RECOMMENDATION FOR PART CA: See Block 12.			5. DISTRIBUTION: ACTION COPY: LEDavis INFO COPY: WRBird JWCook TCCooke(2) MADietrich JFFirlit GSKeeley HPLeonard BWMarguglio DBMiller JARutgers DMTurnbull DRKeating
DESIGN/PROJECT ENG. DISPOSITION REQUIRED ☐ NOT REQUIRED ☒			
14. HOLD TAGS APPLIED: NUMBER, LOCATION & TYPE OF HOLD TAG APPLIED: YES ☐ NO ☒			
15. IS PROCESS CA REQUIRED: YES ☒ NO ☐ IF NO, ENTER JUSTIFICATION BELOW:			
16. DOES NC AFFECT Q-LIST ITEM: YES ☒ NO ☐		17. IS NC REPORTABLE PER 50.55(e): YES ☐ NO ☒	
18. IS NC REPORTABLE PER PART 21: YES ☐ NO ☒		19. IF YES, DATE & TIME OF REPORT TO NRC: N/A	
20. IF YES, WHO MADE REPORT TO NRC: N/A		21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A	
22. NCR ORIGINATED BY: <i>Mark J. DeWitt</i>		23. WRITTEN REPLY REQUIRED BY: 2/12/81 TO ESTABLISH CA COMPLETION DATE	24. SUPERVISOR'S SIGNATURE/DATE: <i>DRKeating</i> 1-26-81
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE: (See Block 12) Part Corrective Action to be completed in compliance with Zack Co NCR Procedure MB-FQCP-8.			
26. DESIGN/PROJECT SIG. AUTH. DISP.:	27. PMO SIG. AUTH. DISP.:	28. PROCUREMENT SIG. AUTH. DISP.:	29. SIG. OF ORG. RESP. FOR C/A:
30. FAB/CONST. SIG. AUTH. IMP. DISP.:	31. SIG. OF TEST GROUP ACKNOW. CONDITION:	32. FOR MAJOR MCD - PLT. SUPT. SIG. AUTH. DISP.:	33. QA AUTH. SIG. TO IMPLEMENT DISP.:
34. METHOD OF PART CA VERIFICATION:			
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION:	36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE:	37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)	

NCR SERIAL NO: M-01-9-1-009
 DATE: 1/21/81
 DATE OF REV: 1/26/81
 FILE NO: 16.3.6
 AI: S-601

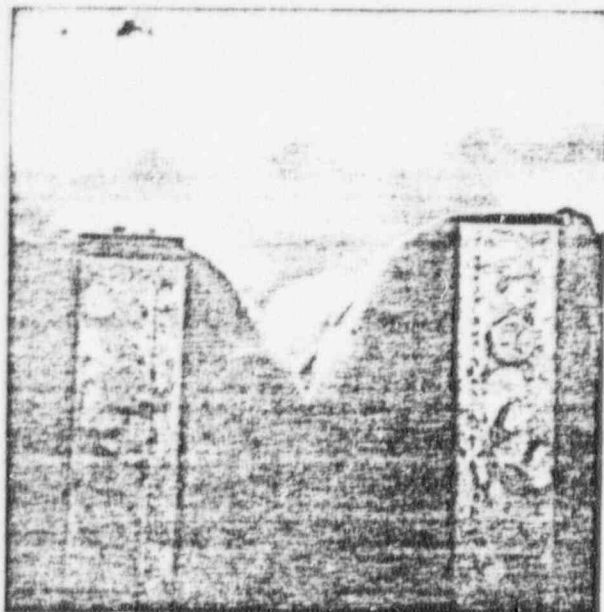
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:

(Continued from page 1)

The following Zack NCR's document the damage:

527	541	565	588	603	1237
531	542	569	590	644	1269
534	552	570	591	649	1270
535	553	571	594	781	1271
536	557	572	599	1051	1275
539	561	577	600	1054	

Part Corrective Action is considered to be addressed by the Zack NCR's.



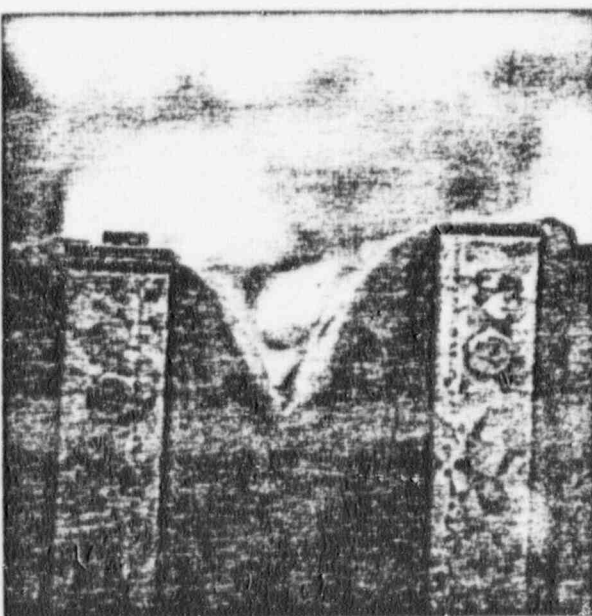
V43 RI IAF 8903



NCR TAG 565



NCR TAG 565



V43 RI IAF 8903



Consumers
Power
Company
QA27-0

NONCONFORMANCE REPORT

Start Up System: Indeterminate

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

Trend Code: B-3 AI S-586 PAGE 1 OF 2

6. PROJECT NAME: Midland 1 & 2		7. NONCONFORMING PART NO: N/A		8. NONCONFORMING PART NAME: Electrical Cables		1. NCR SERIAL NO: M-01-9-1-006	
9. SERIAL NUMBER: N/A		10. ORG. COMMITTING NC: Bechtel Construction and Bechtel OC		11. AREA/LOC. OF NC: Elev 614' & 634' of Auxiliary Building		2. DATE: 1/14/81	
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: Paragraphs B, D, E, & H, Section X, Sheet 60A of Drawing E-42A, detail criteria for installing cable ties. A) Contrary to the requirements of Para B, individual cables are tied in bundles that have a diameter greater than 4 times the diameter of the smallest cable in trays 2AJB01, 1AJA01, 1AJB09, 1BJG01, 1BJC01, 2BJE01. B) Contrary to the requirements of Para D, cable bundles are not in contact with the tray rung in trays 1AJB01, 2AJB01, and 1BJC01. C) Contrary to the requirements of Para E, cables in the Aux Bldg are not tied to vertical trays at a maximum of 4'0" in trays 2AJB01, 1AJB01, 2BJA04, 1AJB07, 2ADJ01, 1AJD08 and 1AJA01. D) Contrary to the requirements of Para H, cables are not tied to one of the last two rungs of the horizontal tray before the slope and one of the last two rungs on the inclined tray in trays 2ATA01, 2AJF06, 1AJB01, 2BJA04, 2AJB07, 2AJH07, and 2AJK07.						3. DATE OF REV: N/A	
						4. FILE NO: 16.3.4, 16.3.6	
13. QA RECOMMENDATION FOR PART CA: Complete cable tie-down in inclined trays to meet specifications.						5. DISTRIBUTION ACTION COPY: LEDavis ESmith INFO COPY: WRBird JWCook TCCooke(2) MADietrich JFFirrit DRKeating GSKeeley HPLeonard BWMarguglio DBMiller JARutgers DMTurnbull	
DESIGN/PROJECT ENG. DISPOSITION REQUIRED ☐ NOT REQUIRED ☒							
14. HOLD TAGS APPLIED: YES ☐ NO ☒ NUMBER, LOCATION & TYPE OF HOLD TAG APPLIED:							
15. IS PROCESS CA REQUIRED: YES ☒ NO ☐ IF NO, ENTER JUSTIFICATION BELOW:							
16. DOES NC AFFECT Q-LIST ITEM: YES ☒ NO ☐				17. IS NC REPORTABLE PER 50.55(e): YES ☐ NO ☒			
18. IS NC REPORTABLE PER PART 21: YES ☐ NO ☒				19. IF YES, DATE & TIME OF REPORT TO NRC: N/A			
20. IF YES, WHO MADE REPORT TO NRC: N/A				21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A			
22. NCR ORIGINATED BY: <i>Larry D Seaman</i>		23. WRITTEN REPLY REQUIRED BY: 2/10/81 TO ESTABLISH CA COMPLETION DATE		24. SUPERVISOR'S SIGNATURE/DATE: <i>1-15-81</i> <i>Richard Lee D. Kester</i>			
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:							
26. DESIGN/PROJECT SIG. AUTH. DISP.: N/A		27. PMO SIG. AUTH. DISP.: N/A		28. PROCUREMENT SIG. CONC. DISP.: N/A		29. SIG. OF ORG. RESP. FOR C/A:	
30. FAB/CONST. SIG. AUTH. IMP. DISP.:		31. SIG. OF TEST GROUP ACKNOW. CONDITION: N/A		32. FOR MAJOR MOD - PLT. SUPT. SIG. AUTH. DISP.: N/A		33. QA AUTH. SIG. TO IMPLEMENT DISP.:	
34. METHOD OF PART CA VERIFICATION:							
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION:		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE:		37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)			

Consumers
Power
Company
QA27-0

NONCONFORMANCE REPORT

Trend Code: N-3

AI S-585 PAGE 1 OF 3

6. PROJECT NAME: Midland	7. NONCONFORMING PART NO: V20 #11 Rev 6	8. NONCONFORMING PART NAME: Duct Hanger	1. NCR SERIAL NO: M-01-4-1-005
9. SERIAL NUMBER: N/A	10. ORG. COMMITTING NC: Zack Co	11. AREA/LOC. OF NC: Aux Bldg 584'	2. DATE: 1/14/81
12. AS IS' NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: As Required: Section 7.2.4.2 of Zack Installation Procedure MB-FQCP-5, Rev 2, states, "The hanger configuration is correct and the hanger was built in accordance with the sketch on the traveler. The hanger is in the correct location in accordance with the referenced drawings (blank 13 of ZQF-30)." Section 7.2.5 of the same procedure states, "The QCI documents inspection results on ZQF-30, checklist section, blanks 12 through 17, by entering an "X" in the appropriate column." (Continued on Page 3)			3. DATE OF REV: N/A
13. QA RECOMMENDATION FOR PART CA: 1. Correct nonconforming condition to meet design requirement. 2. Correct all Zack documentation, as required, to reflect conformance to design requirements. (Continued on Page 3)			4. FILE NO: 16.3.6
DESIGN/PROJECT ENG. DISPOSITION REQUIRED ☒ NOT REQUIRED ☐			5. DISTRIBUTION ACTION COPY: LEDavis INFO COPY: WRBird JWCook TCCooke(2) MADietrich JFFirlit DRKeating GSKeeley HPLeonard BWMarguglio DBMiller JARutgers DMTurnbull
14. HOLD TAGS APPLIED: YES ☒ NO ☐ NUMBER, LOCATION & TYPE OF HOLD TAG APPLIED: Aux Bldg - Elevation 584', Hanger #11, Zack Dwg V20 - 1 tag			
15. IS PROCESS CA REQUIRED: YES ☒ NO ☐ IF NO, ENTER JUSTIFICATION BELOW:			
16. DOES NC AFFECT Q-LIST ITEM: YES ☒ NO ☐		17. IS NC REPORTABLE PER 50.55(e): YES ☐ NO ☒	
18. IS NC REPORTABLE PER PART 21: YES ☐ NO ☒		19. IF YES, DATE & TIME OF REPORT TO NRC: N/A	
20. IF YES, WHO MADE REPORT TO NRC: N/A		21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A	
22. NCR ORIGINATED BY: <i>Ronald W. Miller</i>		23. WRITTEN REPLY REQUIRED BY: 2/6/81 TO ESTABLISH CA COMPLETION DATE	
24. SUPERVISOR'S SIGNATURE/DATE: <i>[Signature]</i> 1-15-81			
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:			
26. DESIGN/PROJECT SIG. AUTH. DISP.:		27. PMO SIG. AUTH. DISP.:	
28. PROCUREMENT SIG. CONC. DISP.:		29. SIG. OF ORG. RESP. FOR C/A:	
30. FAB/CONST. SIG. AUTH. EMP. DISP.:		31. SIG. OF TEST GROUP AGENOW. CONDITION:	
32. FOR MAJOR MOD - FLT. SUPT. SIG. AUTH. DISP.:		33. QA AUTH. SIG. TO IMPLEMENT DISP.:	
34. METHOD OF PART CA VERIFICATION:			
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION:		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE:	
37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)			

NCR SERIAL NO: M-01-4-1-005
DATE: 1/14/81
DATE OF REV: N/A
FILE NO: 16.3.6
AI: S-585

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:
(Continued from Page 1)

As Is:

V20 Hanger #11 is detailed on Drawing C-855 Rev 11 for detail 5/C898 Rev 6. Zack traveler #F3362 reflects the same detail. Hanger in fact is built to detail #6 - #7 of C-898. Zack QCI signed off Inspection Report as accepting this hanger on 4/8/80. On 12/8/80, another Zack QCI signed off Inspection Report as accepting this hanger again.

13. QA RECOMMENDATION FOR PART CA:
(Continued from Page 1)

3. Reinspect hanger and correct all QC documentation to meet compliance with the Zack QC procedure.
4. Zack to review other inspection records to assure this is an isolated incident.



Consumers
Power
Company
QA27-0

NONCONFORMANCE REPORT

Trend Code: N3

Start Up System: N/A

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

AI S-581

PAGE 1 OF 2

6. PROJECT NAME: Midland	7. NONCONFORMING PART NO: N/A	8. NONCONFORMING PART NAME: Weld Rod Control	1. NCR SERIAL NO: M-01-9-1-004
9. SERIAL NUMBER: N/A	10. ORG. COMMITTING NO: Zack Co	11. AREA/LOC. OF NC: N/A	2. DATE: January 12, 1981
12. AS IS NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: See Attachments A and B.			3. DATE OF REV: N/A
			4. FILE NO: 16.3.6
			5. DISTRIBUTION ACTION COPY: LEDavis
13. QA RECOMMENDATION FOR PART CA: Items A and B: As stated on Zack Co NCR D-51 to correct and update Inventory Log Items C and D: Items corrected 1/12/81 DESIGN/PROJECT ENG. DISPOSITION REQUIRED ☐ NOT REQUIRED ☒			INFO COPY: WRBird JWCook TCCooke(2) MADietrich JFFirlit GSKeeley HPLeonard BWMarguglio DBMiller JARutgers DMTurnbull DRKeating
14. HOLD TAG APPLIED: YES ☐ NO ☒ NUMBER, LOCATION & TYPE OF HOLD TAG APPLIED: N/A			
15. IS PROCESS CA REQUIRED: YES ☒ NO ☐ IF NO, ENTER JUSTIFICATION BELOW:			
16. DOES NC AFFECT Q-LIST ITEM: YES ☒ NO ☐		17. IS NC REPORTABLE PER 50.55(e): YES ☐ NO ☒	
18. IS NC REPORTABLE PER PART 21: YES ☐ NO ☒		19. IF YES, DATE & TIME OF REPORT TO NRC: N/A	
20. IF YES, WHO MADE REPORT TO NRC: N/A		21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A	
22. NCR ORIGINATED BY: <i>Sp. L. SP. 8/11</i>		23. WRITTEN REPLY REQUIRED BY: February 2, 1981 TO ESTABLISH CA COMPLETION DATE	24. SUPERVISOR'S SIGNATURE/DATE: <i>[Signature]</i> 1-13-81
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE: Items A and B: (Later - awaiting closure of Zack Co NCR D-51) Items C and D: Visually verified 1/9/81. Zack Co has only one rod oven. All filler material in the rod room has the shelves marked with the appropriate ID's.			
26. DESIGN/PROJECT SIG. AUTH. DISP.:	27. PMO SIG. AUTH. DISP.:	28. PROCUREMENT SIG. CONC. DISP.:	29. SIG. OF ORG. RESP. FOR C/A:
30. FAB/CONST. SIG. AUTH. IMP. DISP.:	31. SIG. OF TEST GROUP ACKNOW. CONDITION:	32. FOR MAJOR MOD - PLT. SUPT. SIG. AUTH. DISP.:	33. QA AUTH. SIG. TO IMPLEMENT DISP.:
34. METHOD OF PART CA VERIFICATION:			
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)	

ATTACHMENT A

- A) Section 7.4.13 of MB-FQCP-1, "Receiving Inspection" requires received items to be identified on a traveler. Part 7.1.5.4 of MB-FQCP-2, "Storage and Maintenance," requires the traveler number of items received to be entered on the Fabrication Shop Inventory Log, ZQF-58.

For Hobart .035" E70S weld wire, Heat #L-83330, no traveler can be produced. For Chemtron 1/8", E7018 Electrode, Heat #421H5281, no traveler can be produced. Neither of these items have the traveler annotated on Form ZQF-58.

- B) Section 7.1.5.9 of MB-FQCP-2, "Storage and Maintenance" require items released for use to be logged out of storage. There were nine cases in which the Inventory Log for electrode storage was found not to be maintained as required (See Attachment B).

The above items, A and B, are being corrected by Zack Co. These are covered by the issuance of Zack NCR D-51, per the request of MPQAD.

- C) Weld rod (E7018) oven was out of calibration. Oven was tested and certified on January 9, 1981. Checklist item is closed. (Part Corrective Action Complete)
- D) Procedure MB-FQCP-6, Weld Rod Control, requires storage shelves be marked with the type of filler metal being stored on the shelf. E-6011 Lincoln Fleetweld 3/32" and 1/8" E-6011 Lincoln Fleetweld filler material was stored on unmarked shelves. Item was corrected on January 9, 1981. This checklist item is closed. (Part Corrective Action Complete)

Type Filler material	Manufacturer	Purchase order	Zack Traveler	Material Number	Verification BY MPBAD	Quantity Received	Quantity in Log	Quantity Actual	
045 E 70 ϕ	Airco	P/O 4044	F-11448	421A6821	Certs ok	12	10	12	
035 E 70 ϕ	Hobart	P/O 13265	F-11477	L-83330	Certs ok	5	5	—	
035 E 70 ϕ	Airco	P/O 4044	F-11656	411J6431	Certs ok	24	8	6 *	
035 E 70 ϕ	Linde	P/O 4087	F-11840	Q 82809	Certs ok	8	8	8	
035 E 70 ϕ	Hobart	—	—	L 83330	Certs ok	—	1	1	
1/8"	E 7018	Chemtron	P/O 4163	F-11910	401K7251	Certs ok	500 # $\frac{1}{2}$	400 # $\frac{1}{2}$	500 # $\frac{1}{2}$
1/8"	E 7018	Chemtron	P/O 4020	—	421H5281	Certs ok	—	—	250 # $\frac{1}{2}$
1/8"	E 7018	HOBART	P/O 12313	F 3852	90013A179	Certs ok	250 # $\frac{1}{2}$	—	50 # $\frac{1}{2}$
1/8"	E 7018	HOBART	P/O 12365	F 3769	9038420-76	Certs ok	500 # $\frac{1}{2}$	—	150 # $\frac{1}{2}$

ZACK NCR D-51 Issued 10-Jan-81 against Storage Log.
 12-Jan-81 Zack QC/Construction has began
 Correcting Log. NCR, initial
 action verified by MPBAD

* 1 reel was found on Airco wire welding machine in Fab Shop, Traceable to this
 Certification Package



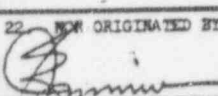
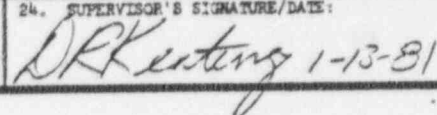
Consumers
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NONCONFORMANCE REPORT

Trend Code 03

AI S-579

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6. PROJECT NAME: Midland 1 & 2		7. NONCONFORMING PART NO: N/A		8. NONCONFORMING PART NAME: Weld Filler Material		1. NCR SERIAL NO. M-01-4-1-003	
						2. DATE: January 12, 1981	
9. SERIAL NUMBER: N/A		10. ORG. COMMITTING NO: B&W Construction Co		11. AREA/LOC. OF NC: Cont #1 - North Steam Generator		3. DATE OF REV: N/A	
12. AS IS' NONCONFORMING CONDITION VERSUS 'AS REQUIRED' CONDITION WITH REFS: Approximately 10 lbs of E-7018A1 filler material was found in the area of the North Steam Generator (Lower Level) of Containment #1. This rod was not stored in a heated container, and is not in conformance to paragraph 3.3 of B&W CC Procedure 9-WG-107 Rev 3.						4. FILE NO: 16.4.4	
						5. DISTRIBUTION ACTION COPY: RWShope INFO COPY: WRBird JWCook TCCooke(2) MADietrich JFFirlit GSKeeley BWMarguglio DBMiller JARutgers DMTurnbull HPLeonard DRKeating	
13. QA RECOMMENDATION FOR PART CA: 1. Scrap subject weld filler metal. 2. Review all other applicable areas for similar uncontrolled situation and correct problem. DESIGN/PROJECT ENG. DISPOSITION REQUIRED ☐ NOT REQUIRED ☒							
14. HOLD TAGS APPLIED: YES ☐ NO ☒ NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: N/A							
15. IS PROCESS CA REQUIRED: YES ☒ NO ☐ IF NO, ENTER JUSTIFICATION BELOW: N/A							
16. DOES NC AFFECT Q-LIST ITEM: YES ☒ NO ☐				17. IS NC REPORTABLE PER 50.55(e): YES ☐ NO ☒			
18. IS NC REPORTABLE PER PART 21: YES ☐ NO ☒				19. IF YES, DATE & TIME OF REPORT TO NRC: N/A			
20. IF YES, WHO MADE REPORT TO NRC: N/A				21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A			
22. HOW ORIGINATED BY: 		23. WRITTEN REPLY REQUIRED BY: January 26, 1981 TO ESTABLISH CA COMPLETION DATE		24. SUPERVISOR'S SIGNATURE/DATE:  1-13-81			
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:							
26. DESIGN/PROJECT SIG. AUTH. DISP.:		27. PMD SIG. AUTH. DISP.:		28. PROCUREMENT SIG. CONC. DISP.:		29. SIG. OF ORG. RESP. FOR C/A:	
30. FAB/CONST. SIG. AUTH. IMP. DISP.:		31. SIG. OF TEST GROUP ACKNOW. CONDITION:		32. FOR MAJOR MOD - PLT. SUPT. SIG. AUTH. DISP.:		33. QA AUTH. SIG. TO IMPLEMENT DISP.:	
34. METHOD OF PART CA VERIFICATION:							
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 COMPL.)			



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PROJECTS, ENGINEERING AND CONSTRUCTION -
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NCR SERIAL NUMBER: M03-4-1-00

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38. QA ASSESSMENT OF ROOT CAUSE(S):

Unknown; to be determined.

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

40. PROCESS CA REQUIRED FROM:

DESIGN ☐

FABRICATION ☐

CONSTRUCTION ☒

PROCUREMENT ☐

INSPECTION ☐

OTHER ☐

41. QA RECOMMENDATION FOR PROCESS CA:

Reinstruct crafts people and supervisors of the requirements of Procedure 9-WG-107 Rev 3 and provide MPQAD of documented evidence.

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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PROJECTS, ENGINEERING AND CONSTRUCTION -
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Trend Codes: C-2, I-3

AI S-562

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6. PROJECT NAME: Midland		7. NONCONFORMING PART NO: 6" OHBC-30-H1		8. NONCONFORMING PART NAME: Sway Strut		1. NCR SERIAL NO: M-01-4-1-002	
9. SERIAL NUMBER: N/A		10. ORG. COMMITTING NC: Bechtel Power Corp		11. AREA/LOC. OF NC: Service Water Building		2. DATE: 1/13/81	
						3. DATE OF REV: N/A	
						4. FILE NO: 16.3.4, 16.3.6	
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: The pipe support for line 6" OHBC-30-618-1-1 (Hanger No 6" OHBC-30-H1, Sketch 0-618-1-7) is installed with both swivels in the horizontal position. Sketch 0-618-1-7 shows the swivel attachment at the base plate to be vertical. The above condition does not meet the requirement of Spec M-326, Para 5.1.1, which states in part, "To the greatest extent possible, pipe supports shall be installed in strict compliance with the pipe support design drawings." Additionally, the sway strut angle and pin-to-pin measurement does not meet drawing requirements. Also, the strut has been ground in the area of the manufacturer's identification markings. The minimum wall of the strut should be examined by non-destructive means to determine acceptability. (NOTE: This installation has been accepted by Quality Control on QC IR P-2.10-618-1-14A, Log 69568)						5. DISTRIBUTION ACTION COPY: LEDavis ESmith INFO COPY: WRBird JWCook TCCooke(2) MADietrich JFFirlit GSKeeley HPLeonard BWMarguglio DBMiller JARutgers DMTurnbull	
13. QA RECOMMENDATION FOR PART CA: 1) Conduct a reinspection of the installation of this strut and document all discrepancies found. (Smith) 2) Perform and document a non-destructive examination on the ground area of the strut. (Smith) DESIGN/PROJECT ENG. DISPOSITION REQUIRED ☒ NOT REQUIRED ☐ (Continued on Page 3)							
14. HOLD TAGS APPLIED: YES ☒ NO ☐ NUMBER, LOCATION & TYPE OF HOLD TAG APPLIED: One tag on strut							
15. IS PROCESS CA REQUIRED: YES ☒ NO ☐ IF NO, ENTER JUSTIFICATION BELOW:							
16. DOES NC AFFECT Q-LIST ITEM: YES ☒ NO ☐							
17. IS NC REPORTABLE PER 50.55(*): YES ☐ NO ☒							
18. IS NC REPORTABLE PER PART 21: YES ☐ NO ☒							
19. IF YES, DATE & TIME OF REPORT TO NRC: N/A							
20. IF YES, WHO MADE REPORT TO NRC: N/A							
22. NCR ORIGINATED BY: <i>Donald K. Martin</i>				23. WRITTEN REPLY REQUIRED BY: January 23, 1981 TO ESTABLISH CA COMPLETION DATE		24. SUPERVISOR'S SIGNATURE/DATE: <i>DRK eating 1-13-81</i>	
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:							
26. DESIGN/PROJECT SIG. AUTH. DISP.:		27. PMD SIG. AUTH. DISP.:		28. PROCUREMENT SIG. CONC. DISP.:		29. SIG. OF ORG. RESP. FOR C/A:	
30. FAB/CONST. SIG. AUTH. IMP. DISP.:		31. SIG. OF TEST GROUP ACKNOW. CONDITION:		32. FOR MAJOR MOD - FLT. SUPT. SIG. AUTH. DISP.:		33. QA AUTH. SIG. TO IMPLEMENT DISP.:	
34. METHOD OF PART CA VERIFICATION:							
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION:				36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE:		37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)	

38. determined by results of part corrective action activities.



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NONCONFORMANCE REPORT

PROCESS CORRECTIVE ACTION

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QUALITY ASSURANCE DEPARTMENT

NCR SERIAL NUMBER: M01-4-1-

PAGE 2 OF 3

37. QA ASSESSMENT OF ROOT CAUSE(S):

- 1) Failure of Field Engineering to adequately assure completed construction activities are acceptable and ready for Quality Control Inspection.
- 2) Failure of the Quality Control Inspection to assure compliance to design drawings and specifications or that the drawings reflect as-built conditions (Sketch 0-618-1-7).

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

40. PROCESS CA REQUIRED FROM:

DESIGN

☐

FABRICATION

☐

CONSTRUCTION

☒

PROCUREMENT

☐

INSPECTION

☒

OTHER

41. QA RECOMMENDATION FOR PROCESS CA:

- 1) Take action to emphasize to Field Engineering the need to verify components are correctly installed prior to turning over for QC Inspection and document this action. (Davis)
- 2) Conduct refresher training as necessary for QC Engineers to preclude recurrences and document the training. (Smith)
- 3) Based on results of the reinspections completed in part corrective action, additional process corrective action may be required. (Davis & Smith)
- 4) Determine if other factors are involved in the root cause and document these factors. (Smith & Davis)

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-01-4-1-002
DATE: 1/13/81
DATE OF REV: N/A
FILE NO: 16.3.4, 16.3.6
AI: S-562

13. QA RECOMMENDATION FOR PART CA: (Contd from Page 1)

- 3) Determine if removal and reinstallation of the sway strut is required. If it is determined the strut is usable as is, provide Engineering justification and revise sketch O-618-1-7 to reflect the as-built condition. (Davis)
- 4) Conduct reinspection of similar installations to ensure these conditions are not generic in nature and document these reinspections. (Smith)



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NONCONFORMANCE REPORT

Start Up System: 2EGA

PROC TS, ENGINEERING AND CONSTRUCTION -
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AI: S-553 PAGE 1 OF 2

6. PROJECT NAME: Midland 1 & 2		7. NONCONFORMING PART NO: 2P-073A		8. NONCONFORMING PART NAME: Component Cooling Water Pump Motor		1. NCR SERIAL NO: M-01-9-0-086	
9. SERIAL NUMBER: N/A		10. ORG. COMPETING NO: Bechtel Construction		11. AREA/LOC. OF NC: 599' Elevation		2. DATE: 12/29/80	
						3. DATE OF REV: 1/8/81	
						4. FILE NO: 16.3.4	
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: (1) Bechtel Drawing C-196(Q) requires each anchor rod on this equipment to have a washer and a double nut installed (Zone F-5 and Detail 8). There are also two type A-325 machine bolts required in this foundation with the same washer/nut configuration as the anchor rods. Contrary to the above, only one anchor rod and one machine bolt have washers installed and none have double nut installation. In addition, machine bolts could not be identified as type A-325. Contrary to Drawing C-196(Q), Mfg Instruction M53-31-4 in Section II outlines a different method of foundation bolt installation. There are a total of ten anchor rods in this foundation.						5. DISTRIBUTION ACTION COPY: LEDavis LHCurtis INFO COPY: WRBird JWCook TCCooke(2) MADietrich JFFirlit GSKeeley HPLeonard BWMarguglio DBMiller JARutgers DMTurnbull	
13. QA RECOMMENDATION FOR PART CA: (1) Rework - Complete the installation to drawing requirements, or (2) Use As Is - Provide justification for acceptance. (3) Provide verification that installed machine bolts are type A-325. (4) Engineering to evaluate and determine which method of installation is correct. DESIGN/PROJECT ENG. DISPOSITION REQUIRED ☒ NOT REQUIRED ☐							
14. HOLD TAGS APPLIED: YES ☐ NO ☒ NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED:							
15. IS PROCESS CA REQUIRED: YES ☒ NO ☐ IF NO, ENTER JUSTIFICATION BELOW:							
16. DOES NC AFFECT Q-LIST ITEM: YES ☒ NO ☐				17. IS NC REPORTABLE PER 50.55(e): YES ☐ NO ☒			
18. IS NC REPORTABLE PER PART 21: YES ☐ NO ☒				19. IF YES, DATE & TIME OF REPORT TO NRC: N/A			
20. IF YES, WHO MADE REPORT TO NRC: N/A				21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A			
22. NCR ORIGINATED BY: 		23. WRITTEN REPLY REQUIRED BY: 1/15/81 TO ESTABLISH CA COMPLETION DATE		24. SUPERVISOR'S SIGNATURE/DATE: 12-29-80			
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:							
26. DESIGN/PROJECT SIG. AUTH. DISP.:		27. PMO SIG. AUTH. DISP.:		28. PROCUREMENT SIG. CONC. DISP.:		29. SIG. OF ORG. RESP. FOR C/A:	
		N/A		N/A			
30. FAB/CONST. SIG. AUTH. INF. DISP.:		31. SIG. OF TEST GROUP ACKNOW. CONDITION:		32. FOR MAJOR MOD - FLI. SUPT. SIG. AUTH. DISP.:		33. QA AUTH. SIG. TO IMPLEMENT DISP.:	
		N/A		N/A			
34. METHOD OF PART CA VERIFICATION:							
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION:		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE:		37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)			



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38. QA ASSESSMENT OF ROOT CAUSE(S)

Installation of support foundation not completed to Drawing requirements, dwg C-196(Q).

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

40. PROCESS CA REQUESTED FROM:

DESIGN ☐

FABRICATION ☐

CONSTRUCTION ☒

PROCUREMENT ☐

INSPECTION ☐

OTHER _____

41. QA RECOMMENDATION FOR PROCESS CA:

Determine if similar conditions exist on remainder of Component Cooling Water Pump Motor foundations.

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

43. METHOD OF PROCESS CA VERIFICATION:

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

45. PROCESS CA COMPLETION VERIFIED BY/DATE:



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6. PROJECT NAME: Midland		7. NONCONFORMING PART NO: As detailed in MCAR-45A		8. NONCONFORMING PART NAME: Reactor Coolant Pump Snubber Bracket Bolts		1. NCR SERIAL NO: M-01-9-0-081	
9. SERIAL NUMBER: N/A		10. ORG. COMPLETING NO: Bechtel Project Eng'g. and Procurement		11. AREA/LOC. OF NC: Units 1 & 2 Containment		2. DATE: 1/19/81	
						3. DATE OF REV: N/A	
						4. FILE NO: 16.3.1 and 16.3.2	
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: Specification 7220 C-233 for the purchase of the primary coolant pump snubber bracket bolts states the bolts shall meet the requirements of ASTM 354 BD or A540 Brade B23 Class 3. Contrary to the above, as stated in MCAR-45A, these bolts have been hardness tested and 207 of the 384 tested have hardness reading outside the range specified. This NCR is written for the purpose of tagging the bolts identified by MCAR-45A and is therefore directed to the Site Manager for recognition of the hold on tensioning.						5. DISTRIBUTION ACTION COPY: LEDavis	
						INFO COPY: WRBird JWCook TCCooke(2) MADietrich JFFirlit GSKeeley HPLeonard BWMargulis DBMiller JARutgers DMTurnbull	
13. QA RECOMMENDATION FOR PART CA: The part corrective action shall be as determined in accordance with MCAR-45A. DESIGN/PROJECT ENG. DISPOSITION REQUIRED ☒ NOT REQUIRED ☐							
14. HOLD TAGS APPLIED: YES ☒ NO ☐ NUMBER, LOCATION & TYPE OF HOLD TAG APPLIED: 60 tags on the brackets							
15. IS PROCESS CA REQUIRED: YES ☒ NO ☐ IF NO, ENTER JUSTIFICATION BELOW:							
16. DOES NC AFFECT Q-LIST ITEM: YES ☒ NO ☐				17. IS NC REPORTABLE PER 50.55(e): YES ☒ NO ☐			
18. IS NC REPORTABLE PER PART 21: YES ☐ NO ☒				19. IF YES, DATE & TIME OF REPORT TO NRC: 11/26/80 @ 3:30 PM			
20. IF YES, WHO MADE REPORT TO NRC: JLWood				21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: RCKnop			
22. NCR ORIGINATED BY: RE Whitaker 1/19/81		23. WRITTEN REPLY REQUIRED BY: MCAR-45 response will constitute this TO ESTABLISH CA COMPLETION DATE reply.		24. SUPERVISOR'S SIGNATURE/DATE: <i>[Signature]</i> 1/19/81			
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE:							
26. DESIGN/PROJECT SIG. AUTH. DISP.:		27. PMO SIG. AUTH. DISP.:		28. PROCUREMENT SIG. CONC. DISP.:		29. SIG. OF ORG. RESP. FOR C/A:	
30. FAB/CONST. SIG. AUTH. IMP. DISP.:		31. SIG. OF TEST GROUP ACKNOW. CONDITION:		32. FOR MAJOR MOD - FLT. SUPT. SIG. AUTH. DISP.:		33. QA AUTH. SIG. TO IMPLEMENT DISP.:	
34. METHOD OF PART CA VERIFICATION:							
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION:		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE:		37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)			



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NCR SERIAL NUMBER: M01-9-0-0

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38. QA ASSESSMENT OF ROOT CAUSE(S):

Unknown, to be determined.

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

40. PROCESS CA REQUIRED FROM:

DESIGN



FABRICATION



CONSTRUCTION



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:

43. METHOD OF PROCESS CA VERIFICATION:

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

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

C P Co

NCR's - Closed

73*10*03)

PF CTS. ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

NONCONFORMANCE REPORT

AI: S-501 PAGE 1 OF 2

6. PROJECT NAME: Midland	7. NONCONFORMING PART NO: 2BSA002	8. NONCONFORMING PART NAME: Conduit Run	1. NCR SERIAL NO: M-01-9-0-079
9. SERIAL NUMBER: N/A	10. ORG. COMMITTING NC: Bechtel Const Bechtel QC	11. AREA/LOC. OF NC: 625'5" Elevation	2. DATE: 12/5/80
12. AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: Closed Inspection Record for conduit 2BSA002, Log #21539, Paragraph 3.12, states in part, "Verify the completeness and correctness of numbering and the identification, markings (ie, channel color code) on the conduit(s) and boxes as required by the drawings. Markings are to be correctly located, legible, accurate, and of the proper type." Contrary to the above, conduit identified on Dwg E-599 as 2BSA002 is channel marked with two different numbers -- 2BSA002 and 2BSA003.			3. DATE OF REV: Closed 1/6/81
13. QA RECOMMENDATION FOR PART CA: Determine which number is correct and rework accordingly.			4. FILE NO: 16.3.4 & 16.3.6
DESIGN/PROJECT ENG. DISPOSITION REQUIRED ☐ NOT REQUIRED ☒			5. DISTRIBUTION ACTION COPY: LEDavis INFO COPY: WRBird JWCook TCCooke(2) MADietrich JFFirlit GSKeeley HPLeonard BWMarguglio DBMiller JARutgers ESmith DMTurnbull
14. HOLD TAGS APPLIED: YES ☐ NO ☒ NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED:			
15. IS PROCESS CA REQUIRED: YES ☐ NO ☒ IF NO, ENTER JUSTIFICATION BELOW: This Nonconformance is considered to be an isolated case.			
16. DOES NC AFFECT Q-LIST ITEM: YES ☒ NO ☐		17. IS NC REPORTABLE PER 50.55(*): YES ☐ NO ☒	
18. IS NC REPORTABLE PER PART 21: YES ☐ NO ☒		19. IF YES, DATE & TIME OF REPORT TO NRC: N/A	
20. IF YES, WHO MADE REPORT TO NRC: N/A		21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A	
22. NCR ORIGINATED BY: 		23. WRITTEN REPLY REQUIRED BY: 12/18/80 TO ESTABLISH CA COMPLETION DATE	24. SUPERVISOR'S SIGNATURE/DATE: 12-5-80
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE: See attached sheets for response.			
26. DESIGN/PROJECT SIG. AUTH. DISP.: N/A	27. PMC SIG. AUTH. DISP.: N/A	28. PROCUREMENT SIG. CONC. DISP.: N/A	29. SIG. OF ORG. RESP. FOR C/A:
30. FAB/CONST. SIG. AUTH. DGP. DISP.:	31. SIG. OF TEST GROUP ACKNOW. CONDITION: N/A	32. FOR MAJOR MOD - FLT. SUPT. SIG. AUTH. DISP.: N/A	33. QA AUTH. SIG. TO IMPLEMENT DISP.:
34. METHOD OF PART CA VERIFICATION: Visually verified conduit has correct markings.			
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION:		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE: 1-6-81	37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE) 1-6-81



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NCR SERIAL NUMBER: M01-9-0-

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38. QA ASSESSMENT OF ROOT CAUSE(S):

N/A

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

N/A

40. PROCESS CA REQUIRED FROM:

DESIGN ☐

FABRICATION ☐

CONSTRUCTION ☐

PROCUREMENT ☐

INSPECTION ☐

OTHER N/A

41. QA RECOMMENDATION FOR PROCESS CA:

N/A

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

N/A

43. METHOD OF PROCESS CA VERIFICATION:

N/A

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

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

Nº 20802
PLEASE RECEIPT AND RETURN
BLUE COPY IMMEDIATELY

DATE 12-30-80

CODE

B
V
MR
S
BR
Q
PO
CN
BS
SC
X
Y

[illegible]

COMMENTS: _____

TO QA Superintendent MPQAD
Midland Jobsite

FROM L. E. Davis
Midland Jobsite

☒ OTHER

BY

ORIGINAL

NONCONFORMANCE REPORT

AI: S-501 PAGE 1 OF 2

6. PROJECT NAME: Midland	7. NONCONFORMING PART NO: 2BSA002	8. NONCONFORMING PART NAME: Conduit Run	1. NRC SERIAL NO: M-01-9-0-070
9. SERIAL NUMBER: N/A	10. ORG. COMMITTING NO: Bechtel Const Bechtel QC	11. AREA/LOC. OF NO: 625'5" Elevation	2. DATE: 12/5/80
			3. DATE OF REV: N/A
			4. FILE NO: 16.3.4 & 16.3.6

12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS:
Closed Inspection Record for conduit 2BSA002, Log #21539, Paragraph 3.12, states in part, "Verify the completeness and correctness of numbering and the identification, markings (ie, channel color code) on the conduit(s) and boxes as required by the drawings. Markings are to be correctly located, legible, accurate, and of the proper type."

Contrary to the above, conduit identified on Dwg E-599 as 2BSA002 is channel marked with two different numbers -- 2BSA002 and 2BSA003.

5. DISTRIBUTION
ACTION COPY:

INFO COPY:
WRBird
JWCook
TCCooke(2)
MADietrich
JFFirlit
GSKeeley
HPLeonard
BWMarguglio
DBMiller
JARutgers
ESmith
DMTurnbull

13. QA RECOMMENDATION FOR PART CA:
Determine which number is correct and rework accordingly.

DESIGN/PROJECT ENG. DISPOSITION REQUIRED ☐ NOT REQUIRED ☒

14. HOLD TAGS APPLIED: ☐ YES ☒ NO
NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED:

15. IS PROCESS CA REQUIRED: ☐ YES ☒ NO IF NO, ENTER JUSTIFICATION BELOW:

This Nonconformance is considered to be an isolated case.

16. DOES NC AFFECT Q-LIST ITEM: ☒ YES ☐ NO

17. IS NC REPORTABLE PER 50.55(e): ☐ YES ☒ NO

18. IS NC REPORTABLE PER PART 21: ☐ YES ☒ NO

19. IF YES, DATE & TIME OF REPORT TO NRC: **N/A**

20. IF YES, WHO MADE REPORT TO NRC: **N/A**

21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: **N/A**

22. NCR ORIGINATED BY: *[Signature]*

23. WRITTEN REPLY REQUIRED BY: **12/18/80**

24. SUPERVISOR'S SIGNATURE/DATE: *[Signature]* **12-5-80**

25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE: **see attached sheet for response DEC 8 1980**

ACTIVITY	ROUTING	Site Mgr.	Proj. Supt.	Serv. Supt.	P.F. Engr.	APP. Eng. 1	APP. Eng. 2	S.U. Turnover	Const. Supt.	Inst. Engr.	Civ. Supt.	Civ. Engr.	Mech. Supt.	Mech. Engr.	Elect. Supt.	Elect. Engr.	World Eng.	Off. Engr.	F&A	QC	Purch.	Sub-Con.	Doc Con.	J. Stubb

BECHTEL POWER CORP.
JOB 7220
PER 35990-0576

26. DESIGN/PROJECT SIG. AUTH. DISP.: N/A	27. PMO SIG. AUTH. DISP.: N/A	28. PROCUREMENT SIG. CONC. DISP.: N/A	29. SIG. OF ORG. RESP. FOR C/A:
30. FAB/CONST. SIG. AUTH. DISP.: N/A	31. SIG. OF TEST GROUP ACKNO. CONDITION: N/A	32. FOR MAJOR MOD - FLT. SUPT. SIG. AUTH. DISP.: N/A	33. QA AUTH. SIG. TO IMPLEMENT DISP.

34. METHOD OF PART CA VERIFICATION:

35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION:	36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE:	37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)
--	--	--



Consumers
Power
Company

NONCONFORMANCE REPORT

PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -

QUALITY ASSURANCE DEPARTMENT

NCR SERIAL NUMBER: M01-9-0-

PAGE 2 OF 2

38. QA ASSESSMENT OF ROOT CAUSE(S):

N/A

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

N/A

40. PROCESS CA REQUIRED FROM:

DESIGN ☐

FABRICATION ☐

CONSTRUCTION ☐

PROCUREMENT ☐

INSPECTION ☐

OTHER

N/A

41. QA RECOMMENDATION FOR PROCESS CA:

N/A

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

N/A

43. METHOD OF PROCESS CA VERIFICATION:

N/A

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

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

CPCo NCR M-01-9-0-079

AI S-501

The nonconforming condition as stated by NCR M-01-9-0-079 has been corrected. The conduit has been properly identified.



Consumers
Power
Company
QA27-0

NONCONFORMANCE REPORT

PFCTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

483 N25

AI S-453 PAGE 1 OF 2

6. PROJECT NAME: Midland 1 & 2	7. NONCONFORMING PART NO: FPW-6.000	8. NONCONFORMING PART NAME: In-process Measurement of Welding Amp/Volt	1. NCR SERIAL NO: M-01-9-0-074
9. SERIAL NUMBER: N/A	10. ORG. COMMITTING NC: Bechtel Construction	11. AREA/LOC. OF NC: All Q-listed Areas	2. DATE: 11/20/80
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: Paragraph 7.1 of FPW-6.000 requires the Field Welding Engineer to make at least one volt/amp check of in process welding each month in each building where Q-listed work is performed. Contrary to the above, required inspections have not been performed by FWE because test equipment is currently being calibrated and has been out of service since September.			3. DATE OF REV: Closed 1/6/81
			4. FILE NO: 16.3.4
13. QA RECOMMENDATION FOR PART CA: 1. Check out tong tester from calibration lab and perform necessary inspections as allowed in FPW-6.000. 2. Purchase additional equipment if necessary to assure compliance with procedure. 3. Alternate required calibration dates upon return of equipment so that all equipment is not due for calibration at the same time.			5. DISTRIBUTION ACTION COPY: LEDavis INFO COPY: WRBird RCHerba JFFirlit JWCook TCCooke(2) MADietrich GSKeeley HPLeonard BWMarguglio DBMiller JARutgers DMTurnbull
14. HOLD TAGS APPLIED: YES ☐ NO ☒ NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: N/A			
15. IS PROCESS CA REQUIRED: YES ☒ NO ☐ IF NO, ENTER JUSTIFICATION BELOW:			
16. DOES NC AFFECT Q-LIST ITEM: YES ☒ NO ☐		17. IS NC REPORTABLE PER 50.55(e): YES ☐ NO ☒	
18. IS NC REPORTABLE PER PART 21: YES ☐ NO ☒		19. IF YES, DATE & TIME OF REPORT TO NRC: N/A	
20. IF YES, WHO MADE REPORT TO NRC: N/A		21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A	
22. NCR ORIGINATED BY: 		23. WRITTEN REPLY REQUIRED BY: DEC 4, 1980 TO ESTABLISH CA COMPLETION DATE	24. SUPERVISOR'S SIGNATURE/DATE: 11-20-80
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE: See BPCo Transmittal Form No 20800, dated 12/30/80 with complete response to Items 1, 2 and 3.			
26. DESIGN/PROJECT SIG. AUTH. DISP.: N/A	27. PMO SIG. AUTH. DISP.:	28. PROCUREMENT SIG. CONC. DISP.: N/A	29. SIG. OF ORG. RESP. FOR C/A: See Transmittal No 20800 of 12/30/80
30. FAB/CONST. SIG. AUTH. IMP. DISP.: See Transmittal No 20800 of 12/30/80	31. SIG. OF TEST GROUP ACKNOW. CONDITION: N/A	32. FOR MAJOR MOD - FLT. SUPT. SIG. AUTH. DISP.: N/A	33. QA AUTH. SIG. TO IMPLEMENT DISP.: 1/5/81
34. METHOD OF PART CA VERIFICATION: Performed overinspections with BPCo Field Welding Engineer to verify compliance of FPW-6.000.			
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION: See Transmittal No 20800	36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE: 	37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE) 1-6-81	



Consumers
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Company

NONCONFORMANCE REPORT

PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -

QUALITY ASSURANCE DEPARTMENT

NCR SERIAL NUMBER: M01-9-0-07

PAGE 2 OF 2

35. QA ASSESSMENT OF ROOT CAUSE(S):

All equipment used was due for calibration at same time, and therefore, that test equipment was not available for field use. However, tong testers are available as a support piece of equipment and should be used.

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

See Block 38.

40. PROCESS CA REQUIRED FROM:

DESIGN ☐

FABRICATION ☐

CONSTRUCTION ☐

PROCUREMENT ☐

INSPECTION ☐

OTHER ☐

41. QA RECOMMENDATION FOR PROCESS CA:

Stagger recalibration time period so that equipment used can be repaired, recalibrated and still be available for use as required.

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

See BPCo Transmittal letter No 20800 dated 12/30/80 - completion date 11/20/80.

43. METHOD OF PROCESS CA VERIFICATION:

Reviewed in-process welding reports in accordance with FPW-6.000 for accuracy with field welding engineers - Verified test results with Asst LFWE for monitoring welding range to see if crafts capable of performing welding within parameters as given.

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

See letter Transmittal No 20800

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

Grime

1-6-81

Nº 20800
PLEASE RECEIPT AND RETURN
BLUE COPY IMMEDIATELY

DATE 12-30-80

CODE

ACTION FOR OTHERS

1. ☐ APPROVED - MFG. MAY PROCEED
2. ☐ APPROVED
SUBMIT FINAL DWG. MFG. MAY
PROCEED
3. ☐ APPROVED EXCEPT AS NOTED, MAKE
CHANGES AND SUBMIT FINAL DWG.
MFG MAY PROCEED AS APPROVED
4. ☐ NOT APPROVED. CORRECT AND RESUBMIT
5. ☐ REVIEW NOT REQUIRED
MFG. MAY PROCEED.

6. ☐ FOR APPROVAL
7. ☐ CONSTRUCTION
8. ☐ PRELIMINARY USE
9. ☐ REFERENCE
0. ☒ complete response

- | | |
|---|----|
| ☐ BECHTEL DRAWINGS | B |
| ☐ VENDOR DRAWINGS | V |
| ☐ MATERIAL REQUISITION | MR |
| ☐ SPECIFICATIONS | S |
| ☐ BID REQUEST | BR |
| ☐ QUOTATIONS | Q |
| ☐ PURCHASE ORDER | PO |
| ☐ CONFERENCE NOTES | CN |
| ☐ BID SUMMARY | BS |
| ☐ SUBCONTRACTS | SC |
| ☐ _____ | X |
| ☐ _____ | Y |

[illegible]

COMMENTS: _____

TO QA Superintendent MPQAD
Midland job site

FROM
L. E. Davis
Midland jobsite

☐ VENDOR PRINT
☒ OTHER

BY

ORIGINAL

NONCONFORMANCE REPORT

483
AI S-453 PAGE 1 OF 2

6. PROJECT NAME: Midland 1 & 2	7. NONCONFORMING PART NO: FPW-6.000	8. NONCONFORMING PART NAME: In-process Measurement of Welding Amp/Volt	1. N/A SERIAL NO: M-01-9-0-074																																																
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13. QA RECOMMENDATION FOR PART CA: 1. Check out tong tester from calibration lab and perform necessary inspections as allowed in FPW-6.000. 2. Purchase additional equipment if necessary to assure compliance with procedure. 3. Alternate required calibration dates upon return of equipment so that all equipment is not due for calibration at the same time.			4. FILE NO: 16.3.4																																																
14. HOLD TAGS APPLIED: YES ☐ NO ☒ NUMBER, LOCATION & TYPE OF HOLD TAG APPLIED: N/A			5. DISTRIBUTION ACTION COPY: <u>JEDavis</u>																																																
15. IS PROCESS CA REQUIRED: YES ☒ NO ☐ IF NO, ENTER JUSTIFICATION BELOW:			INFO COPY: WRBird RBCherba JWCook TCCooke(2) MADietrich GSKeeley HFLeonard BWMarguglio DBMiller JARutgers DMTurnbull																																																
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18. IS NC REPORTABLE PER PART 21: YES ☐ NO ☒		19. IF YES, DATE & TIME OF REPORT TO NRC: N/A																																																	
20. IF YES, WHO MADE REPORT TO NRC: N/A		21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A																																																	
22. NCR ORIGINATED BY: <i>Ginni</i>		23. WRITTEN REPLY REQUIRED BY: DEC 4, 1980 TO ESTABLISH CA COMPLETION DATE																																																	
24. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE: see attached sheet for response		25. SUPERVISOR'S SIGNATURE/DATE: <i>DRKating</i> 11-20-80																																																	
<table border="1"> <tr> <th>ROUTING</th> <th>Site Mgr.</th> <th>Proj. Supt.</th> <th>Serv. Supt.</th> <th>P.F. Engr.</th> <th>APF. Eng. 1</th> <th>APF. Eng. 2</th> <th>S.U. Turnover</th> <th>Cost Sct.</th> <th>Inst. Engr.</th> <th>Civ. Sup.</th> <th>Env. Eng.</th> <th>Mech. Sup.</th> <th>Mech. Eng.</th> <th>Elect. Sup.</th> <th>Elect. Eng.</th> <th>Field Eng.</th> <th>Int. Eng.</th> <th>QA</th> <th>QC</th> <th>Purch.</th> <th>Sub-Con.</th> <th>Doc Con.</th> <th>Sign off</th> </tr> <tr> <td>JOB 7220</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		ROUTING	Site Mgr.	Proj. Supt.	Serv. Supt.	P.F. Engr.	APF. Eng. 1	APF. Eng. 2	S.U. Turnover	Cost Sct.	Inst. Engr.	Civ. Sup.	Env. Eng.	Mech. Sup.	Mech. Eng.	Elect. Sup.	Elect. Eng.	Field Eng.	Int. Eng.	QA	QC	Purch.	Sub-Con.	Doc Con.	Sign off	JOB 7220																								NOV 24 1980 BECHTEL POWER CORP. JOB 7220 PER. 35904 (#0576)	
ROUTING	Site Mgr.	Proj. Supt.	Serv. Supt.	P.F. Engr.	APF. Eng. 1	APF. Eng. 2	S.U. Turnover	Cost Sct.	Inst. Engr.	Civ. Sup.	Env. Eng.	Mech. Sup.	Mech. Eng.	Elect. Sup.	Elect. Eng.	Field Eng.	Int. Eng.	QA	QC	Purch.	Sub-Con.	Doc Con.	Sign off																												
JOB 7220																																																			
26. DESIGN/PROJECT SIG. AUTH. DISP.:		27. PROCUREMENT SIG. CONC. DISP.:																																																	
28. FAB/CONST. SIG. AUTH. DISP.:		29. SIG. OF ORG. RESP. FOR C/A:																																																	
30. METHOD OF PART CA VERIFICATION:		31. SIG. OF TEST GROUP ACKNW. CONDITION:																																																	
32. FOR MAJOR MOD - FLT. SUPT. SIG. AUTH. DISP.:		33. QA AUTH. SIG. TO IMPLEMENT DISP.:																																																	
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36. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE)																																																			



NONCONFORMANCE REPORT

PROCESS CORRECTIVE ACTION

38. QA ASSESSMENT OF ROOT CAUSE(S):

All equipment used was due for calibration at same time, and therefore, that test equipment was not available for field use. However, tong testers are available as a support piece of equipment and should be used.

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

40. PROCESS CA REQUIRED FROM:

DESIGN ☐	FABRICATION ☐	CONSTRUCTION ☐	PROCUREMENT ☐	INSPECTION ☐
OTHER _____				

41. QA RECOMMENDATION FOR PROCESS CA:

Stagger recalibration time period so that equipment used can be repaired, recalibrated and still be available for use as required.

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:

SHIPPING NOTICE

JOB NO.

7220

SN NO.

7220-12539

DATE

9/30 19 80

DESIGNED TO

Consumers Power Corp. Testing & Research Lab

ADDRESS

135 W. Trail Street, Jackson, MI 49201

ROUTING

CPco Truck

COLLECT PREPAID

SHIP
VIA

AIR EXPRESS

EXPRESS

RAIL FREIGHT

MOTOR FREIGHT

PARCEL POST

BEARER

CPco

N/A

PURCHASE ORDER NO.

N/A

MATERIAL ORIGINALLY
PURCHASED ON P.O. NO.

N/A

O S & D NO.

N/A

VENDOR

N/A

REASON FOR SHIPMENT:

Calibrate & Return

SHIPMENT AUTHORIZED FOR BECHTEL BY:

Lloyd Conklin

Lloyd Conklin

(Non-Q)

ORIGINAL MRR NO.

N/A

BILL OF LADING ATTACHED

N/A

ITEM
NO.

QUANTITY

UNIT

COMPLETE DESCRIPTION

1

1

Ea.

BPC 2304 Tong Tester Tag #31983

2

1

Ea.

BPC 602 Current & Voltage Monitor Tag #31984

1

Ea.

BPC 557 U.T. Thickness GA. Tag #31985

4

1

Ea.

F12 Simpson 260 VOM Tag #31986

RETURN
AUTHORIZED BY:*E.M. Evans*AUTHORIZATION
NUMBER:

CREDIT TERMS:

COMPANY

*CPCo*SHIPPER
Bechtel

3500 E. Miller Road

Midland, MI 48640

ACCEPTED FOR SHIPMENT

DATE

19

CARRIER

CPco Truck

PER

E.E. Lawrence/vle
E.E. Lawrence/vle

SN NO. 7220-12539

Bechtel Power Corp., agents for Consumers Power Co.

DATE 9/16 19 80

CONSIGNEE TO Consumers Power Testing & Research Lab

135 W. Trail Street, Jackson, MI 49201

ROUTING _____ CPco Truck
COLLECT PREPAID

SHIP VIA	AIR EXPRESS			PURCHASE ORDER NO.	O S & D NO.	ORIGINAL MRR NO.
	EXPRESS			N/A	N/A	N/A
	RAIL FREIGHT			MATERIAL ORIGINALLY PURCHASED ON P.O. NO.	VENDOR	
	MOTOR FREIGHT			N/A	N/A	
	PARCEL POST			REASON FOR SHIPMENT:		
	BEARER	CPco	N/A	Calibrate & Return SHIPMENT AUTHORIZED FOR BECHTEL BY: <i>Lloyd Conklin</i> Lloyd Conklin (Non-Q)		
			BILL OF LADING ATTACHED			
			N/A			

[illegible]

RETURN
AUTHORIZED BY: SM Evans 9/16/80

COMPANY CPC

AUTHORIZATION
NUMBER:
CREDIT TERMS:

SHIPPER
Bechtel

ADDRESS _____ 3500 E. Miller Road
Midland, MI 48640

ACCEPTED FOR SHIPMENT

DATE _____ 19____

CARRIER CPco Truck

PER _____

E.E. Lawrence/vle

SN NO. 7220-12397

Bechtel Power Corp., agents for Consumers Power Co.

CPCo Nonconformance Report
M-01-9-0-074 - AI S-483

Item #1

On 11-20-80 a calibrated tong tester (BPC-2070) and voltmeter (BPC-2120) were checked out of the calibration lab to perform monitoring of in-process welding.

Since 11-20-80, 26 monitoring activities were performed and found within the specified welding procedure range. Form FPW 6.000 Exhibit A was used to record these activities.

Item #2

Four (4) voltmeters and two ranges of each, 0-100 amps and 0-150 amps for tong tester have been purchased and are presently being calibrated for field use.

Item #3

Alternate calibration time has been our practice in the past and we will continue to do it in the future.

A delay of two months by the calibration lab in Jackson, MI has caused the remaining of our instruments to expire.



COMMONWEALTH
POWER
CORPORATION
0427-0

NONCONFORMANCE REPORT

Start Up System: Indeterminate

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

PAGE 1 OF 3

6. PROJECT NAME: Midland 1 & 2	7. NONCONFORMING PART NO: NA	8. NONCONFORMING PART NAME: NA	1. NCR SERIAL NO: M-01-9-0-043
9. SERIAL NUMBER: NA	10. ORG. COMMITTING NC: Bechtel Project Engineering	11. AREA/LOC. OF NC: Midland Nuclear Plant	2. DATE: 5-27-80
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: FSAR Section 3.8.1.6.1.2.1, fifth paragraph states, "All exterior concrete that will be permanently exposed and which will be subject to freezing temperatures while wet is required to contain entrained air of 3-6%". Contrary to this requirement, Specification C-230 Revision 16, Section 9.1.5 states in part, "Where air entrainment is required it shall be the subcontractor's responsibility that the total air content of the concrete as measured at the point of placement shall not be less than 3% or more than 6% of the concrete by volume with the following exceptions...b. All concrete except that used for the (Contd on Page 3)			3. DATE OF REV: Closed 1/5/81
13. QA RECOMMENDATION FOR PART CA: 1. Determine which of the above is the correct requirement. 2. Based on 1, correct the FSAR Section or the Specification Section accordingly. (Contd on Page 3)			4. FILE NO: 16.3.1
DESIGN/PROJECT ENG. DISPOSITION REQUIRED ☒ NOT REQUIRED ☐			5. DISTRIBUTION ACTION COPY: LADreisbach MADietrich INFO COPY: WLB Barclay JMilandin WRBird DBMiller RBGherba RLRixford JWCook JARutgers TCCooke(2) DATaggart JLGorley ESmith LEDavis JFFirlit PKHansen HPLEonard SHHowell DMTurnbull GSKeeley BWMarguglio
14. HOLD TAGS APPLIED: YES ☐ NO ☒ NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: NA			
15. IS PROCESS CA REQUIRED: YES ☒ NO ☐ IF NO, ENTER JUSTIFICATION BELOW:			
16. DOES NC AFFECT Q-LIST ITEM: YES ☒ NO ☐			
17. IS NC REPORTABLE PER 50.55(e): YES ☐ NO ☒			
18. IS NC REPORTABLE PER PART 21: YES ☐ NO ☒			
19. IF YES, DATE & TIME OF REPORT TO NRC: NA			
20. IF YES, WHO MADE REPORT TO NRC: NA			
21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA			
22. NCR ORIGINATED BY: Donald E. Horn		23. WRITTEN REPLY REQUIRED BY: 6-10-80 TO ESTABLISH CA COMPLETION DATE	24. ENGINEER'S SIGNATURE/DATE: <i>Chen</i> 5/27/80
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE: The following numbered items correspond to the numbered items in block 13: 1. The subject NCR has been reviewed by Project Engineering. The correct requirement for entrained air in concrete is 3% to 6% with an inadvertency margin of 1%. In no case shall the entrained air fall below 2%. 2. FSAR Change Notice has been generated to correct section 3.8.1.6.1.2.1. SCN #230-10006 has been written to clarify specification C-230(Q). 3. Not applicable. 4. Not applicable.			
26. DESIGN/PROJECT SIG. AUTH. DISP.: Letter LAD-1630	27. PMO SIG. AUTH. DISP.: NA	28. PROCUREMENT SIG. CONC. DISP.: NA	29. SIG. OF ORG. RESP. FOR C/A: Letter LAD-1630
30. FAB/CONST. SIG. AUTH. IMP. DISP.: Letter LAD-1630	31. SIG. OF TEST GROUP ACKNOW. CONDITION: NA	32. FOR MAJOR MOD - PLT. SUPT. SIG. AUTH. DISP.: NA	33. QA AUTH. SIG. TO IMPLEMENT DISP.: Letter LAD-1630
34. METHOD OF PART CA VERIFICATION: See Page 3.			
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION: Letter LAD-1630		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE: Donald E. Horn 1/5/81	37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE) Donald E. Horn 1/5/81



Consumers
Power
Company

NONCONFORMANCE REPORT

PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

NCR SERIAL NUMBER: M-01-9-0-0-

PAGE 2 OF 3

38. QA ASSESSMENT OF ROOT CAUSE(S):

Unknown, to be determined.

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

The discrepancy between specification C-230 and the FSAR involved the limits on air content of concrete. This occurred when SCN C-230-7007 dated October 26, 1977 was not incorporated into revision 12 of the specification. The design Requirements Verification Checklist for revision 12 of the specification indicates "Review Not Required". If a detailed review had been made, this discrepancy would have been avoided.

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:

To preclude any future inconsistencies between the FSAR and specifications, Engineering Department Project Instruction 4.1.1 Revision 2 requires that all specification changes, rather than just "major changes," will be reviewed for consistency with the FSAR.

43. METHOD OF PROCESS CA VERIFICATION:

Reviewed letter LAD-1721 and response to Question 23, Part (1) [50.54(f)] Revision 4 page 23-11.

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

Letter LAD-1721

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

Donald E. Horn 1/5/81

NCR SERIAL NO: M-01-9-0-043
 DATE: 5-27-80
 DATE OF FEV: Closed 1/5/81
 FILE NO: 16.3.1

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

(Contd from Page 1)

containment exterior shall meet the requirements of 9.1.5 with an inadvertency margin of 1% above or below specified limits for occasional batches provided prompt corrective action is taken to bring the air content within limits. However, in no case shall the air content fall below 2%".

13. QA RECOMMENDATION FOR PART CA:

(Contd from Page 1)

3. If the C-230 Specification is revised to incorporate the requirements in the FSAR Section, review all documentation for exterior concrete that will be permanently exposed and which will be subject to freezing temperatures while wet for air content below or above the 3-6% requirement and document this review.

4. Receive Project Engineering dispositions of the deficiencies found in 3 above.

34. METHOD OF PART CA VERIFICATION:

(Contd from Page 1)

Reviewed letter LAD-1630, SCN C-230-10004 and FSAR Change Notice #2029. Contacted Thiru Thiruvengadam on 9/18/80 on SCN C-230-10004 and FSAR Change Notice #2029 and determined these were not adequate.

Contacted the Bechtel Concrete Engineer on 10/23/80 to make sure no exterior concrete was poured since 5/27/80 with air content outside the 3%-6% requirements.

Reviewed SCN C-230-10006 and FSAR Change Notice #2127 which replaced SCN C-230-10004 and FSAR Change Notice #2029, respectively.



NONCONFORMANCE REPORT

System: Indeterminate
PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

AI S-258 PAGE 1 OF 3

6. PROJECT NAME: Midland 1 & 2	7. NONCONFORMING PART NO: QCP-1 (P1-CS) Rev 1	8. NONCONFORMING PART NAME: Welding Procedure	1. NCR SERIAL NO: M-0-11-0-032
9. SERIAL NUMBER: NA	10. ORG. COMPETING NO: Zack HVAC Co Bechtel Proj Engr	11. AREA/LOC. OF NC: NA	2. DATE: 4-3-80
12. AS IS NONCONFORMING CONDITION VERSUS AS REQUIRED CONDITION WITH REFS: Zack Welding Procedure M-B-QCP-1 (P1-CS) has Bechtel Level I approval. However, the Procedure Qualification Record (PQR) does not support the Welding Procedure Specification (WPS). The WPS indicates a method of back gouging was "grinding". The PQR indicates the technique used was "single" pass. Further, the PQR indicates guided bend tests were performed and accepted for 3G and 4G root position. On 4/2/80 a discussion with Delta Welding Center personnel and CPCo QA/IE&TV personnel resulted in the following conclusions: a) Back gouging by grinding was accomplished. (Contd on Page 3)			3. DATE OF REV: Closed 1/27/81
			4. FILE NO: 16.3.1. 16.8
13. QA RECOMMENDATION FOR PART C/A: 1. Revise and requalify new procedure. 2. Provide assurance that welds made and accepted in accordance with this procedure are satisfactory. (Contd on Page 3)			5. DISTRIBUTION ACTION COPY: LADreisbach MADietrich INFO COPY: DRKeating BWMarguglio JMilandin DBMiller RLRixford JARutgers RASimanc DATaggart JWLillywhite JFFirlit HPLeonard DMTurnbull
DESIGN/PROJECT ENG. DISPOSITION REQUIRED ☒ NOT REQUIRED ☐			
14. HOLD TAGS APPLIED: YES ☐ NO ☒ NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: NA			
15. IS PROCESS CA REQUIRED: YES ☒ NO ☐ IF NO, ENTER JUSTIFICATION BELOW:			
16. DOES NC AFFECT Q-LIST ITEM: YES ☒ NO ☐			
17. IS NC REPORTABLE PER 50.55(*): YES ☐ NO ☒			
18. IS NC REPORTABLE PER PART 21: YES ☐ NO ☒			
19. IF YES, DATE & TIME OF REPORT TO NRC: NA			
20. IF YES, WHO MADE REPORT TO NRC: NA			
21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA			
22. ORIGINATED BY: 		23. WRITTEN REPLY REQUIRED BY: 4-22-80 TO ESTABLISH CA COMPLETION DATE	24. SUPERVISOR'S SIGNATURE/DATE: 4-3-80
25. CA DISPOSITION, JUSTIFICATION & COMPLETION DATE: June 19, 1980 - New QCP-1 (P1-CS) requalified to ASME Section IX, 1977 Edition by Photon Testing Inc. This qualification was witnessed by M&QS Engineer and reported on letter File No DJP-070-05, dtd 7/8/80 (Log #3851-73). M&QS Field Trip report accepts all previous welds in accordance with procedures at that time by Project Engineering, M&QS, AAO, and provides assurance that the welds made and accepted meet the code requirements. Zack welders have been requalified to all new procedures (WPS-1 and WPS-2) and old procedures (QCP's) have been voided out.			
26. DESIGN/PROJECT SIG. AUTH. DISP.: Ltr File #DJP-070-05 BPCo ltr BCCC-5305, dtd 1/16/81	27. FMO SIG. AUTH. DISP.: N/A	28. PROCUREMENT SIG. CONC. DISP.: N/A	29. SIG. OF ORG. RESP. FOR C/A: Ltr File #DJP-070-05 BPCo ltr BCCC-5305, dtd 1/16/81
30. FAB/CONST. SIG. AUTH. DISP.: Zack Co ltr dtd 12/29/80 #7220-M-151-Zs-266	31. SIG. OF TEST GROUP ACKNW. CONDITION: N/A	32. FOR MAJOR MOD - FLE. SUPT. SIG. AUTH. DISP.: N/A	33. QA AUTH. SIG. TO IMPLEMENT DISP.:
34. METHOD OF PART CA VERIFICATION: Reviewed M&QS Trip Report #DJP-070-05 (Log #3851-73). Reviewed all requalification procedures, witnessed procedure qualification test coupons being checked by Photon Testing, Inc.			
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION: Ltr File #DJP-070-05, BPCo ltr BCCC-5305 dtd 1/16/81	36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE: 1/27/81	37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE) 1/28/81	



Consumers
Power
Company

NONCONFORMANCE REPORT

PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

NCP SERIAL NUMBER: M-01-4-0-031

PAGE 2 OF 3

38. QA ASSESSMENT OF ROOT CAUSE(S):

Unknown, to be determined.

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

Letter #7220-M-151-Zs-266 clarifies and makes corrections to the ASME WPS used to weld samples for Bechtel SDDR #1782.

QCP-1 (P1-CS) required requalification as stated: (1) PQR was not certified and (2) It would not support the welding procedure specification as originally issued.

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:

December 29, 1980 - ASME Weld Procedure Specification MB-QCP-1 (P1-CS) was requalified June 19, 1980 with clarification required and submitted December 29, 1980 by the Zack Co. M&QS, Project Engineering, AAO accepted requalification procedures.

43. METHOD OF PROCESS CA VERIFICATION:

Reviewed requalified procedure accepted by Project Engineering. Reviewed welder's qualifications to new procedures. Zack's corrected letter #7220-M-151-Zs-266 verifies necessary information to support procedure qualifications.

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

Letter File #DJP-070-05, Zack ltr #7220-M-151-Zs-266, BPCo ltr BCC-5305

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

[Signature] 1/27/81

NCR SERIAL NO: M-01-4-0-032
DATE: 4-3-80
DATE OF REV: Closed 1/27/81
FILE NO: 16.3.1, 16.8

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

(Contd from Page 1)

- b) Multipass technique was accomplished instead of single pass.
- c) Backside of coupon was welded and, therefore, root bends were not performed as stated.

Further, (1) Filler metal F No is listed in the PQR as "3/32-1/8" and is, therefore, incorrect. (2) Paragraph 11 of the weld procedure should specify actual material thickness and not "1/16" and 2T".

13. QA RECOMMENDATION FOR PART CA:

(Contd from Page 1)

- 3. Qualify personnel as required.
- 4. Take corrective action as required to alleviate referenced deviations.

CONSUMERS POWER
RECEIVED

JAN 19 1981

Site Mgr.
Midland Project

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

Attention: D. B. Miller
Site Manager

1/19/81
Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640

January 16, 1981



DMT	
DRK	
HPL	
cc SKT	
cc JLE 8	
FILE	16.3.1

Job 7220 Midland Project
Subcontract 7220-M-151
CPCo NCR No. M-01-4-0-032
BCCC-5305

Dear Mr. Miller:

- References: 1) Consumers letter Serial Number 10946, D. M. Turnbull to L. E. Davis dated January 5, 1981.
- 2) Zack letter Number Zs-266, R. B. McCarley to L. E. Davis dated December 29, 1980.

In response to your reference 1 letter, we are attaching The Zack Company reference 2 letter with its attachments. We trust this will be sufficient for closure of the subject NCR.

Very truly yours,

L. E. Davis
for L. E. Davis
Site Manager

LED/JWL/RL/ear

Attachment: Zack Letter &
Attachments

CONSUMERS POWER COMPANY
RECEIVED
JAN 20 1981

FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

LED 3M	mm
GBS	
JMB	
VMB	
cc JSC / RBQ / BHP	
TWE	
DDJ	
RFK	
REM	
NJS	
cc J. D. Turnbull	

M-151-the Cof
0460.3-routing
C

the **ZACK** co.

CUSTOM METAL FABRICATION

December 29, 1980

#7220-M-151-Zs-266

RECEIVED

DEC 31 1980

Mr. L. E. Davis
Bechtel Power Corporation
Midland Nuclear Jobsite

BECHTEL POWER CORP.
JOB 7220
PER 1106-17M-151

REFERENCE: Consumers Power NCR M-01-4-0-032

Dear Mr. Davis:

Please find attached a corrected copy of the ASME Welding Procedure Specification used to weld samples for Bechtel SDDR No. 1782.

The following corrections were made:

1. Technique (QW-410) Section: Method of Back Gouging was changed from "grinding" to "N/A" as no back gouging was performed.
2. The sketch attached to the Welding Procedure Specification was revised to reflect the actual bevel used as specified in the Joints (QW-402) Section.
3. The Project Managers signature has been added as required.

This additional information and revision should close this NCR.

Yours very truly,

Russel B. McCarley

Russel B. McCarley
Project Manager

Enclosure

cc: J. W. Lillywhite
C. Z. DeZutel
M. E. D'Haem
C. L. Eichstaedt, Jr.
R. L. Akers
R. W. Usinger
Files - Chicago
Files - Midland

SUBCONTRACTS DEPARTMENT	
DISTRIBUTION	
FILE COPY	
Supt. Serv	
FCA	
L. Mech	
L. Civil	
Other	
ATTACHED	
ACTION	
FILE	

Company Name Zack Compa
 Welding Procedure Specification No. DCP1 P1-CS Date June 19, 1980 Supporting PQR No. QCP1 (P1-CS)
 Revisions 0
 Welding Process(es) Shielded Metal Arc Welding Type(s) Manual

JOINTS (QW-402) Groove Design <u>VEE</u> Backing: Yes <u> </u> No <u>NO</u> Backing Material (Type) <u>NA</u> Other <u>37 1/2 Bevel</u>	POSTWELD HEAT TREATMENT (QW-407) Temperature <u>NA</u> Time Range <u>NA</u> Other <u> </u>
BASE METALS (QW-403) P No. <u>1</u> to P. No. <u>1</u> Thickness Range <u>.0525 to .750</u> Pipe Dia. Range <u>NA</u> Other <u> </u>	GAS (QW-408) Shielding Gases <u>NA</u> Percent Composition (mixtures) <u>NA</u> Flow Rate <u>NA</u> Gas Backing <u>NA</u> Trailing Shielding Gas Composition <u>NA</u> Other <u> </u>
FILLER METALS (QW-404) F No. <u>4</u> Other <u> </u> A No. <u>1</u> Other <u> </u> Spec No. (SFA) <u>5.1</u> AWS No. (Class) <u>E7018</u> Size of Electrode <u>3/32 and 1/8"</u> Size of Filler <u>3/32 and 1/8"</u> Electrode-Flux (Class) <u>Iron Powder Low Hydrogen</u> Consumable Insert <u>None</u> Other <u> </u>	ELECTRICAL CHARACTERISTICS (QW-409) Current AC or DC <u>DC</u> Polarity <u>REVERSE</u> Amps (Range) <u>100-140</u> Volts (Range) <u>20-25</u> Other <u> </u>
POSITION (QW-405) Position of Groove <u>1G</u> Welding Progression <u>Uphill</u> Other <u> </u>	TECHNIQUE (QW-410) String or Weave Bead <u>Weave</u> Orifice or Gas Cup Size <u>NA</u> Initial & Interpass Cleaning (Brushing, Grinding, etc) <u>Yes</u>
PREHEAT (QW-406) Preheat Temp. <u>None</u> Interpass Temp. <u>NA</u> Preheat Maintenance <u>NA</u> Other <u> </u>	Method of Back Gouging <u>Grinding</u> <i>N/A 1/8 1/4 1/2</i> Oscillation <u> </u> Contact Tube to Work Distance <u>NA</u> Multiple or Single Pass (per side) <u>Multiple</u> Multiple or Single Electrodes <u>Single</u> Travel Speed (Range) <u>NA</u> Other <u> </u>

Company Name Zack Company
Procedure Qualification Record No. P1 (P1-CS) Date June 19, 1980
WPS No. QCPI (P1-CS)
Welding Processes Shielded Metal Arc Welding
Types (Manual, Automatic, Semi-Auto.) Manual

JOINTS (QW-402)

SEE SKETCH

Groove Design Used

BASE METALS (QW-403)

Material Spec. Carbon Steel A-36
Type or Grade Grade A
P No. 1 to P No. 1
Thickness .375
Diameter NA
Other

POSTWELD HEAT TREATMENT (QW-407)

Temperature Not required
Time NA
Other

GAS (QW-408)

Type of Gas or Gases NA
Composition of Gas Mixture NA
Other

FILLER METALS (QW-404)

Weld Metal Analysis A No. 1
Size of Electrode 3/32 and 1/8"
Filler Metal F No. 4
SFA Specification 5.1
AWS Classification E7018
Other

ELECTRICAL CHARACTERISTICS (QW-409)

Current Direct
Polarity REVERSE
Amps 130 Volts 24
Other

POSITION (QW-405)

Position of Groove 1G
Weld Progression (Uphill, Downhill) Uphill
Other

TECHNIQUE (QW-410)

Travel Speed NA
String or Weave Bead WEAVE
Oscillation NA
Multipass or Single Pass (per side) Multipass
Single or Multiple Electrodes Single
Other

PREHEAT (QW-406)

Preheat Temp. NA
Interpass Temp. NA
Other

Tensile Test (QW-150)

Specimen No.	Width	Thickness	Area	Ultimate Total Load lb.	Ultimate Unit Stress psi	Character of Failure & Location
1	1.037	.355	.368	24,900	67,663	FM
2	.969	.365	.353	24,100	68,271	FM

Guided Bend Tests (QW-160)

Type and Figure No.	Result
3 Root	Satisfactory
4 Face	Satisfactory
5 Root	Satisfactory
6 Face	Satisfactory

Toughness Tests (QW-170)

Specimen No.	Notch Location	Notch Type	Test Temp.	Impact Values	Lateral Exp.		Drop Weight	
					% Shear	Mils	Break	No Break

Fillet Weld Test (QW-180)

Result — Satisfactory: Yes _____ No _____ Penetration into Parent Metal: Yes _____ No _____
 Macro—Results _____

Other Tests

Type of Test _____
 Deposit Analysis _____
 Other _____

Welder's Name Jack Hetherington Clock No. _____ Stamp No. _____
 Tests conducted by: Photon Testing Inc. Laboratory Test No. Zack, QCP1

We certify that the statements in this record are correct and that the test welds were prepared, welded and tested in accordance with the requirements of Section IX of the ASME Code.

Date June 19, 1980

Manufacturer The Jack Co.
 By Russell B. McCarty 17-29-80

(Detail of record of tests are illustrative only and may be modified to conform to the type and number of tests required by the Code.)

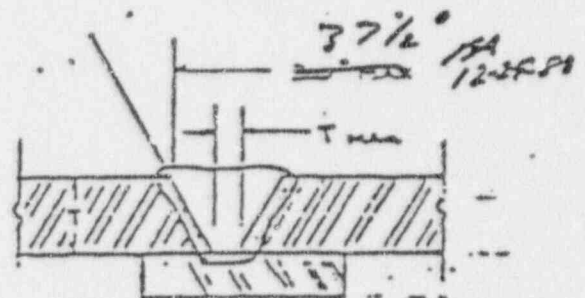
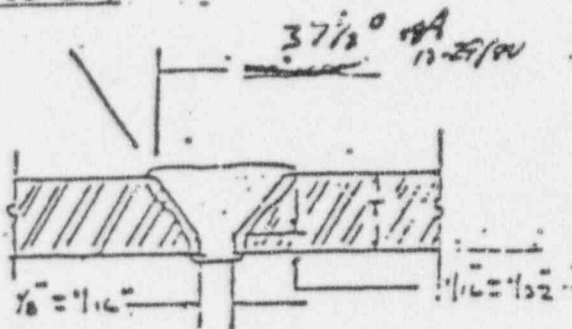
SINGLE VEE GROVE

$T = .375$

Position- All

Material Thickness Qualification

1/16 to 2 T



Number of Passes	Electrodes		Volts	Amperes
	Type	Size		
A/R	E-7018	1/8	21-26	90-150
		5/32	22-32	110-230
		3/16	23-28	150-300
		1/4	26-35	300-400



Consumers
Power
Company

Midland Project: P.O. Box 1963, Midland, Michigan 48640 - Area Code 517 631-0951

January 5, 1981

Mr L E Davis
Bechtel Power Corp
PO Box 2167
Midland, MI 48640

MIDLAND PROJECT - CPCO NCR M-01-4-0-032
File 16.3.1, 16.8 UFI 73*10*03 Serial 10946 AI S-258

Midland Project Quality Assurance Department (MPQAD) has reviewed the complete response for CPCo NCR M-01-4-0-032 (AI-S258) and find it to be inadequate to close the subject NCR.

Rechtel's response, LAD-1661 and SDDR-1782, indicates the procedure, Zack Co MB QCP-1 (Pl-CS), was requalified June 19, 1980 to ASME Section IX, 1977 Edition, and weld specimens simulated to production welding with the variables as stated in CPCo's NCR were made, tested and found acceptable.

Block QW-410 (Technique) of Form QW-482, Welding Procedure Specification (WPS) indicates method of back gouging to be "grinding." This will not produce root bends as indicated in Block QW-160 (Guided Bend Tests) of Form QW-483. Further, Form QW-483, Procedure Qualification Record (PQR) is not certified and signed by the Zack Co.

It is therefore requested that the following be made available to MPQAD for review:

- 1) Documented evidence to clarify if the weld specimens were actually back gouged or not.
- 2) The PQR for Procedure MB QCP-1 (Pl-CS) signed by the appropriate representative for The Zack Co.

for DRKeating
D M Turnbull
Site QA Superintendent

DMT/JLZ

CC RCBauman
WRBird
JWCook
DRKeating
JWLillywhite
BWMarguglio
DERMiller(3)
JLWood
MADietrich

n. 618-019
J. Rutgers
P. Hansen
L. Davis
E. Newman
L. Curtis

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640



July 28, 1980

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

Attention: J. L. Corley

Job 7220 Midland Project
CPCo Letter 162FQA80
Interim Response..
~~LAD-1661~~ Action Item S-354

032

Dear Mr. Corley:

The subject letter listed Zack open items that require Project Engineering disposition to close.

The status of all items is shown below. For items 1, 7, 8, 9 and 10 the information provided is considered a partial or complete response as indicated. Note: Only item 7 required completion prior to resumption of "Q" work by Zack Co.

1. Ruskin Fire Damper: 10CFR Part 21 (Letter to USNRC, Jan. 21, 1980)
NIBD23 Fire Damper
Require BPCo Engineering for:
A. Fire damper access ways design
B. Review and approval of Ruskin repair proposal

Partial Response: 1.a. SDDR-1781 has been submitted for approval to Bechtel Project Engineering. Expected Completion date is July 31, 1980.

Partial Response: 1.b. Approval of Ruskin repair proposal expected July 31, 1980.

2. CPCo NCR M-01-4-9-074 Anchor bolts testing requirements.

Status: Awaiting Bechtel Engineering input.

J. L. Corley
July 28, 1980
LAD-1661
Page 2.

3. CPCo NCR M-01-4-9-083 Evaluation of 3/4" and above base metal, welded with E-6011.

Status: See L. A. Dreisbach letter to J. L. Corley, LAD-1209. Awaiting Zack action relative to having inspections performed on affected welds.

4. CPCo NCR M-01-4-9-086

Status: See L. A. Dreisbach letter to J. L. Corley, LAD-1208. Awaiting Zack action relative to having inspections performed on affected welds.

5. CPCo NCR M-01-4-9-087

Status: See L. A. Dreisbach letter to J. L. Corley, LAD-1205. Awaiting Zack action relative to having inspections performed on affected welds.

6. CPCo NCR M-01-4-9-125

Status: See L. A. Dreisbach letter to J. L. Corley, LAD-1609. Zack to furnish material certification on neoprene rubber used in manufacture of flexible connections.

7. CPCo NCR M-01-4-0-027 Awaiting BPCo Engineering definition of equipment vs. accessories (Fire Dampers).

Complete

Response: Bechtel Technical Specification 7220-M-151-A(Q) has been revised to clarify what items are classed as ductwork, components and accessories.

8. CPCo NCR M-01-4-0-030 Weld procedure rewrite - Project Engineering needs to indicate if the change in the weld procedures affect past welding performed by Zack. If so, what is the required "fix"?

Complete

Response: Weld specimens duplicating variables described in NCR M-01-4-0-030 were qualified to AWS D1.3. Based on test results, the welds questioned in this report are acceptable.

9. CPCo NCR M-01-4-0-031

Partial

Response: Project Engineering has evaluated NCR M-01-4-0-031 and considers the primary discrepancies with the procedure to be editorial and considers the welds made and accepted as stated in this NCR to be acceptable.

This Zack welding procedure is in the process of being rewritten and will be qualified upon approval. Expected completion date is 8/4/80.

J. L. Corley
July 28, 1980
LAD-1661
Page 3.

10. CPCo NCR M-01-4-0-032

Complete

Response: Weld specimens duplicating variables described in NCR M-01-4-0-032 were qualified to ASME Section IX. Based on test results, the welds questioned in this report are acceptable.

If you need additional information, please contact M. A. Dietrich of this office.

Very truly yours,

LA Dreisbach

L. A. Dreisbach
Project Quality Assurance
Engineer

LAD/MAD/sjc

cc: W. Bird
B. Marguglio
D. Miller

INCHTEL NATIONAL, INC.
RESEARCH AND ENGINEERING
MATERIALS AND QUALITY SERVICES

Letter File No. DJP-070-05
Date: 7-8-80
Project Name: Midland
Project No. 7220-001
M&QS Log No. 3851-73

☒ TRIP REPORT ☐ FAILURE ANALYSIS ☐ PROBLEMS ☐ OTHER: _____

TO: L. E. Curtis FROM: D. J. Puchy

COPIES TO: D. D. Hackney/R. A. Manley

S. S. Patel

R. A. Keidel

W. B. Keyser

PROJECT SPEC. NO. 7220-M-151A(Q) DATE OF TRIP: 6-17-80 and 6-20-80

DESTINATION OF TRIP: Midland Units 1 & 2 Jobsite, Midland, Michigan

COMPONENTS INVOLVED (INCLUDING MATERIALS): Heating and ventilating ductwork and supports. Materials include A36, A572, A526 and A527.

PURPOSE OF TRIP (DESCRIPTION OF PROBLEM): To review Zack welding procedures and witness qualification tests related to NCR's M-01-4-0-030 and M-01-4-0-032.

Letter File No. DJP-070-05
Date: 7-8-80
Project Name: Midland
Project No. 7220-001
M&QS Log No. 3851-73

CONTINUED

☒ TRIP REPORT ☐ FAILURE ANALYSIS ☐ PROBLEMS ☐ OTHER: _____

PRESENT AT DISCUSSION:

BECHTEL
REPRESENTATIVES

A. Amin

J. Lillywhite

D. Pierce

OTHERS (INCLUDING
AFFILIATIONS & POSITIONS)

K. O. Rafferty - CPCo, OA

J. L. Zimmerman - CPCo, QA

M. E. D'Haeem - Zack

R. McCarly - Zack

D. Monroe - Zack

C. Garinger - Photon Testing Inc.

CONCLUSIONS AND RECOMMENDATIONS: These tests provide assurance that the welds made
and accepted meet the code requirements.

DETAILS OF INVESTIGATION (DISCUSSION OF OBSERVATIONS ACTION TAKEN AND OTHER PERTINENT DATA):

Test samples were made duplicating the welding techniques used in the field (SRG-050-027).
For NCR-30 (WP-P5-CS-GMAW, E70S3) samples consisted of A527 to A527, A526 to A526, A36 to
A527 and A36 to A526. These were qualified to AWS D1.3. For NCR-32 (WP-P1-CS-SMAW, 7018)
the sample was 3/8" A36 to 3/8" A36. This procedure was qualified to ASME IX.

M&QS REPRESENTATIVE:

August 29, 1980
7220-M-151-Zs-161

JOB 7220	ROUTING	ART CTN TET
Site Map		
Proj. Supp.		
Env. Syst.		
P.F. Engr.		
APP. Engr 1		
APP. Engr 2		
S.U. Foreman		
Cost Scto		
Inst. Engr.		
Dist. Sup.		
Env. Engr.		
Assoc. Sup.		
Assoc. Engr.		
Proj. Mgr.		
Field Engr.		
Lab. Engr.		
Gen. Engr.		
P.E. A.		
O.C.		
Arch.		
Soft. Con.		
Doc. Con.		

(Handwritten notes on a lined notebook page)

✓ TCU
the other

✓ DP studies.

GALT ✓ - fine



CONSULTING
POWER
COMPANY
SA77-0

NONCONFORMANCE REPORT

Start Up System: BNA

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

PAGE 1 OF 2

6. PROJECT NAME: Midland	7. NONCONFORMING PART NO: 1T-60, 2T-60	8. NONCONFORMING PART NAME: Borated Water Storage Tanks	1. NCR SERIAL NO: M-01-9-0-013
9. SERIAL NUMBER: NA	10. ORG. COMMITTEE NO: Graver Tank	11. AREA/LOC. OF NO: NA	2. DATE: 3-3-80
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: Midland FSAR Section 9.2.8.1.3 states, "Codes and Standards applicable to the borated water storage facility are listed in Table 3.2-1". Table 3.2-1 establishes code design criteria as ASME Sec III Class 2. In addition, Table 3.2-3 establishes the required year of the code as 1974 no addenda. Contrary to the above, Graver radiographic procedure RE-12A Rev 2 references selected paragraphs from the Winter 1975 Addenda of Section V (required section for radiographic inspection).			3. DATE OF REV: Closed 1/27/81
13. CA RECOMMENDATION FOR PART CA: Reimplement Graver RT procedure RE-12A Rev 0 as governing radiographic procedure.			4. FILE NO: 15.8
DESIGN/PROJECT ENG. DISPOSITION REQUIRED ☒ YES ☐ NOT REQUIRED ☐			5. DISTRIBUTION ACTION COPY: LADreisbach MADietrich INFO COPY: WRBird ERumbaugh REScherbe DATaggart TCCooke (2) JWCook JLGerley JFFirlit LHCurtis DRKeating SHHowell HPLEonard GSKeeley JARutgers JWLillywhite DMTurnbull BWMarguglio JMilandin DBMiller
14. HOLD TAG APPLIED: YES ☐ NO ☒ NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: NA			
15. IS PROCESS CA REQUIRED: YES ☒ NO ☐ IF NO, ENTER JUSTIFICATION BELOW:			
16. DOES NC AFFECT Q-LIST ITEM: YES ☒ NO ☐		17. IS NC REPORTABLE PER 50.55(e): YES ☐ NO ☒	
18. IS NC REPORTABLE PER PART 21: YES ☐ NO ☒		19. IF YES, DATE & TIME OF REPORT TO NRC: NA	
20. IF YES, WHO MADE REPORT TO NRC: NA		21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA	
22. NCR ORIGINATED BY: <i>ReStum</i>		23. WRITTEN REPLY REQUIRED BY: 3-31-80 TO ESTABLISH CA COMPLETION DATE	24. SUPERVISOR'S SIGNATURE/DATE: <i>J. Gerley</i> 3/3/80
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE: SAR Change Notice 1992 which was incorporated into revision 30 of the FSAR permits Winter 1975 addenda of ASME Section IV. Thus, Graver's radiographic procedure RE-12A, Rev 2, which references selected paragraphs of Winter 1975 addenda is acceptable. SCN-1992 was approved 8/29/80. NOTE: SCN #1754 was superceded by SCN #1992.			
26. DESIGN/PROJECT SIG. AUTH. DISP.: LAD-1744, LAD-1682	27. PMO SIG. AUTH. DISP.: N/A	28. PROCUREMENT SIG. CONC. DISP.: N/A	29. SIG. OF ORG. RESP. FOR C/A: LAD-1744, LAD-1682
30. FAB/CONST. SIG. AUTH. INF. DISP.: LAD-1744, LAD-1682	31. SIG. OF TEST GROUP ACKNOW. CONDITION: N/A	32. FOR MAJOR MCD - PLT. SUPT. SIG. AUTH. DISP.: N/A	33. QA AUTH. SIG. TO IMPLEMENT DISP.: <i>J. Gerley</i>
34. METHOD OF PART CA VERIFICATION: Review approved SAR Change Notice 1992.			
35. SIG. OF ORG. RESP. FOR PART C/A SIGNING COMPLETION: <i>J. Gerley</i>		36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE: <i>J. Gerley</i> 1/27/81	37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE) <i>J. Gerley</i> 1/27/81



Consumers
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NONCONFORMANCE REPORT

PROCESS CORRECTIVE ACTION

PRODUCTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

NCR SERIAL NUMBER M-01-9-0-01

PAGE 2 OF 2

38. QA ASSESSMENT OF ROOT CAUSE(S):

Employment of X-ray unit and associated low KV setting.

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 SAR Change Notice 1992

41. QA RECOMMENDATION FOR PROCESS CA:

Responsible parties in procedure review cycle should be required to check procedural changes against FSAR prior to approval.

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

Review of X-ray film using step wedge comparison method in lieu of densitometer. Film density was satisfactory using step wedge comparison method. Reference LAD-1744 memo.

43. METHOD OF PROCESS CA VERIFICATION:

Review of X-ray film. (See block 42)

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

Submittal

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

Submittal 1/27/81



QUALITY ASSURANCE PROGRAM
SAR CHANGE NOTICE

JOB NO. 7220

2. DISCIPLINE/COMPANY LICENSING

1. PSAR
FSAR
3. No. 1992

4. ORIGINATOR D. DULUK

5. DATE 8-5-80

6. REFERENCED SECTIONS OF SAR

TABLE 3.2-3 (SH. 1 & 5)

7. DESCRIPTION OF CHANGE

ADDITION OF FOOTNOTE FOR TABLE 3.2-3.
(THIS SCN SUPERCEDES SCN # 1754)

*Approved
and put in
REV 30
to FSAR
GSA
1-16-81*

8. REFERENCED SPECIFICATIONS OR DRAWINGS

NONE

9. JUSTIFICATION

CPCo NCR M-01-9-0-013 (QPRR Q/A ACTION ITEM
5-229)
GRAVER ENERGY SYSTEMS SDDR's 80-01, 80-02, 80-03
BECHTEL LOG #: (1649) (1648) (1657)

10. BECHTEL DISCIPLINE INTERFACE REVIEW:

☐ ARCH
☒ CIVIL Page 7, 10/10
☐ CONTROL SYS
☐ ELEC
☒ MECH/NUCLEAR

☒ PLANT DSN
☒ PQAE
☐ STRESS
☐ OTHER
☒ Q/E

INTERFACING STAFF REVIEW:

☐ ARCH
☒ CIVIL
☐ CONTROL SYSTEM
☐ ELEC
☐ GEOTECH
☒ M & QS
☒ MECH
☒ NUCLEAR
☐ PLANT DSN
☐ RELIABILITY
☐ STRESS
☐ OTHER

<u>D. S. Lewis</u>	<u>8-6-80</u>	<u>D. Duluk</u>	<u>8-6-80</u>	<u>W. A. Shiley</u>	<u>8/27/80</u>
1. REVIEWED BY (Group Supervisor)	DATE	12. REVIEWED BY (SAR COORDINATOR)	DATE	13. REVIEWED BY (NUCLEAR ENGINEER)	DATE
<u>D. S. Lewis, for</u> <u>L. H. CURTIS</u>	<u>8-28-80</u>	<u>J. M. Lewis</u>	<u>8/27/80</u>	<u>B. Y. Raul</u>	<u>8/29/80</u>
14. CONCURRENCE BY (PROJECT ENGINEER)	DATE	15. APPROVED BY (CPCo)	DATE	16. CONCURRENCE BY (NSSS SUPPLIER)	DATE

MIDLAND 1&2-FSAR

TABLE 3.2-3

MAJOR COMPONENTS DESIGN CODE

<u>System/Component</u>	<u>FSAR Section</u>	<u>Design Code</u>	<u>Date or Rev.</u>	<u>Addendum</u>	
<u>Reactor Coolant System</u>	5.0				
Reactor vessels		ASME III, Class A	1968	Summer 1968	
Steam generators		ASME III, Class A	1968	Summer 1968	
Feedwater ring headers		ANSI B31.1	1968	Errata, March 1968	19
Pressurizers		ASME III, Class A	1968	Summer 1968	
Reactor coolant pumps		ASME III, Class 1	1971	None	
Reactor coolant piping		ANSI B31.7	1968	Errata, June 1968	19
<u>Decay Heat Removal System</u>	5.6.7				
Decay heat removal (LPI) pumps		ASME III, Class 2	1971	Winter 1971	
Decay heat removal coolers:					
Tube side		ASME III, Class 3-C	1968	Summer 1969	
Shell side		ASME VIII	1968	Summer 1969	
Core flooding tanks		ASME III, Class B	1968	Summer 1968	
<u>Containment Heat Removal System</u>	6.2.2				
Hydrazine pump		ASME III, Class 2	1977	Winter 1978	13
Reactor building spray pump		ASME III, Class 2	1971	Summer 1973	
Hydrazine tank		ASME III, Class 2	1971	Winter 1973	
Recirculating air cooling units:					
Fans		AMCA-210	1967	None	
		AMCA-300	1967	1971	
Cooling coils		ASME III, Class 3	1974	Summer 1975	
<u>Combustible Gas Control in Containment</u>	6.2.5				
Hydrogen recombiners		IEEE/323/344			
<u>Reactor Building Penetration Pressurization System</u>	6.8				
Pressurized water storage tanks		ASME III, Class 2	1971	Winter 1973	
<u>Onsite Power Systems</u>	8.3				
Emergency diesel generators		ASME III, Class 3	1974	Summer 1976	
		IEEE-387	1972	None	
		DEMA	1972	None	15

CMH
9/13Table 3.2-3
(sheet 1)
Revision 19
3/79

MIDLAND 1&2-FSAR

TABLE 3.2-3 (continued)

System/Component	FSAR Section	Design Code	Date or Rev.	Addendum
<u>Radwaste Gas System</u>	11.3			
Redwaste gas surge tank		ASME III, Class 3	1971	Summer 1973
Radwaste gas decay tanks		ASME III, Class 3	1971	Summer 1973

⁽¹⁾For Unit 1

⁽²⁾For Unit 2

⁽³⁾The entire air handling unit is rated in accordance with ARI.

⁽⁴⁾Both addenda apply to both tube and shell side.

(5) The ASME design codes and addendum represent the base design code specified for the major system/component. In some cases other addenda are applicable to subcomponents of the major system/component. This detailed information is available for review in the purchase order documentation package.

CMH
9/13

See ed
copy
for info



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NONCONFORMANCE REPORT

Start Up System: 1-PHE

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

AI S-219 PAGE 1 OF 2

1. PROJECT NAME: Midland 1 & 2	7. DISCREPANCY PART NO: 1AB5531A	4. DISCREPANCY PART NAME: Electrical Cable	1. DISCREPANCY NO: M-01-5-0-007
3. SERIAL NUMBER: NA	10. DES. COMPANY NO: Bechtel Project Engineering	11. AREA/LOC. OF DIS: Elev 614'-0" Auxiliary Building	2. DATE: 1-28-80
12. AS IT APPLIES TO THE FINAL SAFETY ANALYSIS REPORT: Paragraph 8.3.1.4.1.a of the Final Safety Analysis Report states that "Cable splices in raceways are prohibited". Contrary to the above, cable 1AB5531A has been spliced in a raceway inside MCC 1B55 and the following drawings have been revised to permit splicing: Drawing E-17 Sh 1, Sh 3, Sh 8, Sh 9, Sh 10, Sh 11 and E-18 Sh 1, Sh 3, Sh 8, Sh 9, Sh 10, and Sh 11.			3. DATE OF REV: 1/28/80 - Closed
13. AS IT APPLIES TO THE FINAL SAFETY ANALYSIS REPORT: Justify by analyses and submit as part of the Final Safety Analysis Report or replace the cable.			5. DISCREPANCY NO: IADreisbach MADietrich INFO COPY: HBarclay BWMarguglio WRBird JMilandin RBCherba DBMiller TCCooke(2) RLRixford JHCorley JARutgers LEDavis RASinnek PKHansen DATaggart SHHewell DMTurnbull DRJohnson JFFirlit GSKeeley JWCook
14. FIELD DATA APPLIED: YES ☐ NO ☒ NA ☐			
15. IS PROCESS OR METHOD: YES ☒ NO ☐ IF NO, ENTER DESCRIPTION BELOW:			
16. DOES IT AFFECT A-CENT CODE: YES ☒ NO ☐			
17. IS IT REPORTABLE PER 50.55(a): YES ☐ NO ☒			
18. IS IT REPORTABLE PER PART 2.1: YES ☐ NO ☒			
19. IF YES, DATE & TIME OF REPORT TO REC: NA			
20. IF YES, HAS WORK REPORT TO REC: NA			
21. IF YES, NAME OF REC OFFICIAL TO WHOM REPORTED: NA			
22. SEE COMMENTS BY: <i>Edmund A. Lowe</i>		23. WORKING COPY DATED BY: 2-15-80	
24. SUPERVISOR'S SIGNATURE/DATE: <i>Paul R. Luper 1/28/80</i>		25. PART OF DISCREPANCY, JUSTIFICATION & CORRECTION DATE: See Attached Response.	
26. DESIGN/PROJECT NO. AFTER CORP.:	27. NO. NO. AFTER CORP.:	28. DISCREPANCY NO. AFTER CORP.:	29. YES. IF YES, DATE, FOR CORP.:
See Attached	NA	NA	See Attached
30. FAB/CONS. NO. AFTER CORP.:	31. YES. IF YES, DATE, FOR CORP.:	32. YES. IF YES, DATE, FOR CORP.:	33. YES. IF YES, DATE, FOR CORP.:
See Attached	NA	NA	See Attached
34. METHOD OF PART OR VERIFICATION: See Attached.			
35. YES. IF YES, DATE, FOR PART 2.1A REWORKING CORRECTION:		36. YES. IF YES, DATE, FOR PART 2.1A REWORKING CORRECTION:	
See Attached		See Attached	



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NONCONFORMANCE REPORT PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

FOR SERIAL NUMBER: M-01-6-0-00

PAGE 2 OF 2

10. CA ASSIGNMENT OF ROOT CAUSE(S):

Splices in raceways within the motor control centers are being approved as design changes without submitting the analyses as part of the FSAR as called for in Regulatory Guide 1.75 dated September 1978.

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

See Attached.

12. PROCESS CA DERIVED FROM:

DESIGN ☒

MANUFACTURING ☐

OPERATIONS ☐

MAINTENANCE ☐

INSPECTION ☐

OTHER

13. CA RECOMMENDATION FOR PROCESS CA:

Where cable splices are considered necessary, the resulting design should be justified by analyses. The analyses should be submitted as part of the Safety Analysis Report for each splice.

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

See Attached

15. NATURE OF PROCESS CA VIOLATION:

See Attached

16. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA ACCEPTING COMPLAINT:

See Attached

17. PROCESS CA COMPLETION DATE BY ORG:

[Signature] 1-6-81



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REQUEST FOR INFORMATION

PROJECTS, ENGINEERING
AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT
PAGE 1 OF 2

DESCRIPTION OF INFORMATION/EVALUATION/CLARIFICATION REQUESTED:

CPCo QA has written an NCR (M-01-6-0-007 attached) citing Bechtel for allowing splices in raceway which is an apparent violation of the FSAR. Bechtel, in answering this NCR (letter LAD-1554 attached), claimed that no violation occurred since the intent of the FSAR was to address cables spliced in cable "spreading areas," "general plant areas" and "underground cable installation" (and not cable routing in "equipment internals"). Apparently, Bechtel feels that addressing these areas in the FSAR they have complied with Reg Guide 1.75 which states:

"Cable splices in raceways should be prohibited.

Basis: Splices have been identified as the initiating cause of several fires in raceways. Even where the separation distance is adequate to prevent a fire in the raceways of one division from affecting cables in a redundant division, all practicable means should be used to prevent the occurrence of a fire. This position against splices in raceways is, therefore, prudent. Splices are not, by themselves, unacceptable. If they exist, the resulting design should be justified by analysis. The analysis should be submitted as part of the FSAR".

(Contd on Page 2)

FILE NO:

16.3.1

PROJECT:

Midland

PREPARED BY:

RESPONSE REQUESTED BY:

7-11-80

DISTRIBUTION:

ADDRESSED TO:

RCBauman

FOR INFORMATION:

WRBird

JLCorley

GSKeeley

HPLeonard

BWMarguglio

DBMiller

MHRice

FOR FURTHER INFORMATION, CONTACT: MJSchaeffer

TEL NO: 82007

RESPONSE (TO BE PROVIDED BY ADDRESSEE):*

CP Co Engineering has evaluated the position taken by Bechtel Engineering on NCR M-01-06-0-007 regarding splicing within motor control centers and other equipment internals. We concur with the Bechtel position contained in LAD-1554 dated May 19, 1980 on NCR M-01-06-0-007.

USNRC R.G. 1.75 specifically augments section 5.1.1.3 of IEEE Std 384-1974 with respect to cable splicing. Section 5.1.1.3 of IEEE Std 384-1974 specifies minimum separation distances for cable spreading areas and general plant areas (Midland FSAR also includes underground cable installations) and not equipment internals. Where these minimum distances are used to provide adequate physical separation, splices in raceways should be prohibited.

Therefore, the practice of cable splicing within equipment internals at Midland is in accordance with the recommendations outlined in R.G. 1.75 and the commitments made in the Midland FSAR. Justification by analysis and submittal of the analysis as part of the FSAR or cable replacement is not required.

CONSUMERS POWER COMPANY
RECEIVED
DEC 1 1980
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

*RESPONSE MAY BE PROVIDED IN THE ABOVE SPACE OR BY SEPARATE LETTER.

SIGNATURE OF RESPONDENT/DATE:

Mark J. Kempker for RCBauman 12-9-80

SIGNATURE OF REQUEST ORIGINATOR/DATE:

REQUEST FOR INFORMATION

FILE NO: 16.3.1

PROJECT: Midland

PREPARED BY/DATE: HPLeonard/6-20-80

DESCRIPTION OF INFORMATION/EVALUATION/CLARIFICATION REQUIRED:

(Contd from Page 1)

IEEE Standard 384 defines raceway as, "Any channel that is designed and used expressly for supporting or enclosing wires, cable, or bus bars. Raceways consist primarily of, but not limited to, cable trays and conduit".

It is requested that an engineering evaluation be performed by appropriate CPGCo engineering personnel to determine if the position taken by Bechtel Project Engineering is valid.

CONSUMERS POWER COMPANY
RECEIVED
MAY 20 1980

FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640



May 19, 1980

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

Attention: J. L. Corley

Job 7220 Midland Project
CPCo NCR M-01-6-0-007
Complete Response
LAD-1554 Action Item-S-219

Dear Mr. Corley:

The subject NCR identified that contrary to FSAR paragraph 8.3.1.4.1.a, cable LAB5531A has been spliced in a raceway inside MCC 1B55 and recommended that Bechtel provide justification by analysis and submit it as part of FSAR or the cable should be replaced.

Bechtel has evaluated the problem and the following is provided as a complete response.

The splices referred to in the referenced NCR are used for reduction of cable size to allow for termination of cables. Due to cable sizing requirements there are a limited number of cases where the cable size as scheduled cannot be accommodated by the lugs on the device. The reducer is used in the proximity of the device on which the cable terminates and is limited to use within the piece of equipment. The size of the cable after reduction is of sufficient size to carry the ampacity of the load.

The applicable design criteria and the implementation of Regulatory Guide 1.75 for Midland is the FSAR.

In the context of separation of Class 1E circuits the FSAR considers raceway and cable routing and equipment internals independently. Section 8.3.1.4.1.1 considers raceway and cable routing in the following categories:

- (a) Cable Spreading Areas
- (b) General Plant Areas
- (c) Underground Cable Installation

Mr. J. L. Corlay
LAD-1554 - Action Item-S-219
Page 2

Section 8.3.1.4.1.2 specifically considers separation between redundant Class 1E circuits internal to plant equipment.

Section 8.3.1.4.1 outlines the separation criteria. It prohibits cable splices in Class 1E raceway in the context of cable tray systems and specifically references back to Section 8.3.1.4.1.1.

The intent in Section 8.3.1.4.1 of prohibiting splices was to avoid random splicing of Class 1E cables within plant raceways that could cause interruption or fire destruction of safety related circuits.

The MCC wireways are not scheduled in the plant raceway schedule and are not considered part of the plant raceway system.

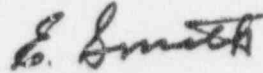
We wish to point out that the leads on most motor terminations are cable pigtails and therefore most motor terminations are in effect splices. Cable reducing splices inside MCC's are analogously splices within equipment.

In conclusion the use of reducers on cables within the equipment in the proximity of the device is in accordance with the Midland FSAR and its implementation of Regulatory Guide 1.75 as written. No analysis is required nor do the cables require replacement.

I believe this letter addresses all the concerns expressed in the subject NCR.

Should you have additional questions, please contact T. K. Subramanian of this office.

Very truly yours,



for.

L. A. Dreisbach
Project Quality Assurance
Engineer

LAD/TKS/bss

cc: W. Bird
D. Miller
B. Marguglio


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NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
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PAGE 1 OF 3

6. PROJECT NAME: Midland Nuclear Plant	7. DISCONTINUED PART NO: N/A	8. DISCONTINUED PART NAME: Flexible Connections	1. FOR SERIAL NO. M-01-9-9-125
9. SERIAL NUMBER: N/A	10. SEC. COMPLETION NO: BPCo Q/C - Zack Co	11. AREA/LOC. OF NO: N/A	2. DATE 30 - Oct - 79
12. AS IS NONCONFORMANCE CONDITION (SEE "AS SHOWN" SECTION WITH REFS: Section 5.19 of Specification M-151-A, Rev 5 states in part: "All materials shall be identified by ASTM or equivalent standard designation and shall meet the corresponding specification..." Any Non-ASTM standard materials shall be furnished to other nationally recognized standard, with certified chemical and physical analysis for contractor approval prior to delivery." (continued on page 3 of 3)			3. DATE OF REV: closed 7/14/81
13. 1) Obtain acceptable Material Certification of Conformance 2) Continue review of all certification to include material previously procured and installed. DESIGN/PROJECT ENG. DISPOSITION REQUIRED ☐ NOT REQUIRED ☒			4. DATE 16.3.6
14. HOLD DATE APPLIED: YES ☐ NO ☒ EDGE, LOCATION & TYPE OF HOLD DATE APPLIED: N/A			5. DISPOSITION ACTION COPY: LADreisbach MADietrich INFO COPY: WLBareley JMilandin WRBird DBMiller TCCooke (2) WGMoring JLCorley JARutgers LEDavis RASimonek RHermeston DATaggart GHHowell JWCook DRJohnson JFFirlit GSKeeley HPLEonard BWMarguglio DMTurnbull
15. IS PROBLEM CA REVERSED: YES ☒ NO ☐ IF NO, OTHER JUSTIFICATION REASON: N/A			
16. DOES NO APPEAL & LIST ITEM: YES ☒ NO ☐		17. IS IT REPORTABLE PER 90.95(a): YES ☐ NO ☒	
18. IS IT REPORTABLE PER PART 21: YES ☐ NO ☒		19. IF YES, DATE & TIME OF REPORT TO ENG: N/A	
20. IF YES, WHO MADE REPORT TO ENG: N/A		21. IF YES, NAME OF ENG OFFICIAL TO WHOM REPORTED: N/A	
22. SEE ORIGINATED BY: <i>M. J. D. P. H.</i>		23. WRITTEN REPLY REQUIRED BY: November 14, 1979 TO ESTABLISH CA COMPLETION DATE	
24. SUPERVISOR'S SIGNATURE/DATE: <i>DR Kesting</i> 10-30-79			
25. PART CA DISPOSITION, INVESTIGATION & COMPLETION DATE: Reviewed and concur with Block 20 of attached BPCo SDDR-1916 of 10/9/80.			
26. DESIGN/PROJECT ENG. ACTION DISP.: See SDDR-1916	27. ENG. ACTION DISP.: N/A	28. PROJECT/ENG. ACTION DISP.: N/A	29. ENG. ACTION DISP. FOR J/A: See SDDR-1916
30. FAB/CONST. ENG. ACTION DISP.: N/A	31. ENG. OF TEST GROUP ACTION: N/A	32. FOR MAJOR NO. - P.L. SUPPL. ENG. ACTION DISP.: N/A	33. IS ACTION ENG. TO COMPLETION DISP.: See SDDR-1916
34. METHOD OF PART CA VERIFICATION: Documents reviewed (SDDR-1916 + back-up data).			
35. ENG. OF SEC. RESP. FOR PART 21A SIGNATURE COMPLETION: See SDDR-1916		36. ENG. VERIFYING PART 21A & SEC ENG REMOVAL DATE: N/A	
37. SEE CHECKED BY DATE: (PART & PROJECT CA COMPLETE) <i>M. J. D. P. H.</i> 21-Jan-81			



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NONCONFORMANCE REPORT PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

FOR SERIAL NUMBER: M-01-9-9-121

PAGE 2 OF 3

18. CA ASSIGNMENT OF ROOT CAUSE(S):

(Awaiting further information)

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

See Zack letter 6/9/80 (7220-M-151-C/B-Zc-100)

20. PROCESS CA DERIVED FROM:

DESIGN ☐

FABRICATION ☐

CONSTRUCTION ☐

PROCUREMENT ☐

OPERATION ☒

OTHER ☐

21. CA RECOMMENDATION FOR PROCESS CA:

Conduct training Session on Certification Requirements to Responsible QCI's

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

See Zack letter 7220-M-151-C/B-Zc-100

23. METHOD OF PROCESS CA VERIFICATION:

Review of Training records (attached to this report)

Review of Zack Certification/Traceability by MPQAD shows Zack Company documents are being processed per the Specification (M-151A, Section 5) and Zack Procedures.

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

See Zack letter 7220-M-151-C/B-Zs-100

25. PROCESS CA COMPLETION VERIFIED BY DATE:

W. J. DeLoach 21-Jan-81 Completed

(Continued from part 12, page 1)

Section 10.4 states in part:

"Flexible connections shall be made of double layers of 30 oz per square yard Fiberglas close weave cloth impregnated and coated with 1/16 inch neoprene conforming to ASTM D2000."

"Design, construction and installation of all flexible connections shall also conform to the requirements of National Fire Protection Association "Installation of Air Conditioning and Ventilation System," NFPA No. 90A"

Existing Material Certification lacks the following:

- 1) Neoprene is not certified to ASTM D2000.
- 2) Existing Certification on 30 oz Fiberglas cloth is not referenced to a nationally recognized standard.
- 3) Neoprene impregnation/coating is not verified thru certification.
- 4) Certificate of Conformance certifies the flexible connection to a catalogue (vendor's), which lacks the requirements of Section 5.19 of Spec M-151A Rev 5.

Note: Zack Co Q/C is presently reviewing certification of material within the scope of their contract.



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NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

PAGE 1 OF 4

6. PROJECT NAME: Midland 1 & 2	7. NONCONFORMING PART NO: See Block 12	8. NONCONFORMING PART NAME: HVAC Hangers/Supports	1. REC. SERIAL NO.: M-01-4-9-057
9. SERIAL NUMBER: NA	10. SUB. CONTRACTOR NO: Subcontractor Zack Co	11. AREA/LOC. OF NO: See Block 12	2. DATE: 5-23-79
12. "AS IS" NONCONFORMING CONDITION VERSUS "AS SPECIFIED" CONDITION WITH REFS: Spec M151A(Q) Rev 5, paragraph 14.8.1 states, "Each weld shall be uniform in width and size throughout its full length. In addition, the cover pass (final weld layer) shall be free of coarse ripples, grooves, overlaps, abrupt ridges and valleys". Paragraph 14.8.4 states, "Each weld layer or pass shall be visually free of slag, inclusions, cracks, porosity and lack of fusion". Paragraph 1.2.3 requires that fabrication procedures and erected assemblies are in accordance with Specifications (M151A(Q)). Paragraph 1.2.1 states, "It shall be the Subcontractors responsibility to furnish and install the ductwork and accessories in accordance with these specifications...." (Contd on Page 3)			3. DATE OF REV: Closed 1/5/81
13. CA RECOMMENDATION FOR PART CA: See Pages 3 and 4.			4. FILE NO: 1634
DESIGN/PROJECT ENG. DISPOSITION REQUIRED ☒ NOT REQUIRED ☐			5. DISTRIBUTION ACTION COPY: LADreisbach MADietrich INFO COPY: WLBarelay JMilandin WRBird DBMiller TCCooke -WGMering- JLCorley -JFNewgen- RHermenten -RASimanek SHHowell DATaggart BRJohnson ESmith GSKeeley DMTurnbull BWMarguglio JWCook PAMartinez JFFirlit HPLeonard JARutgers
14. HOLD TAGS APPLIED: YES ☐ NO ☒ NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: NA			
15. IS PROCESS CA REQUIRED: YES ☒ NO ☐ IF NO, ENTER JUSTIFICATION BELOW:			
16. DOES NO AFFECT Q-LIST ITEM: YES ☒ NO ☐		17. IS NO REPORTABLE PER 90.35(a): YES ☐ NO ☒	
18. IS NO REPORTABLE PER PART 21: YES ☐ NO ☒		19. IF YES, DATE & TIME OF REPORT TO REC: NA	
20. IF YES, WHO MADE REPORT TO REC: NA		21. IF YES, NAME OF REC OFFICIAL TO WHOM REPORTED: NA	
22. REC ORIGINATED BY: 		23. WHENEVER REPLY REQUIRED BY: 6-6-79 TO ESTABLISH CA COMPLETION DATE	24. SUPERVISOR'S SIGNATURE/DATE: 5-23-79
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE: Zack Co has documented nonconforming hangers within their program for rework/repair. Technical Specification M151A has been revised for clarification and compliance to both AWS D1.1 and D1.3 requirements. A complete reinspection program has been ongoing on all currently installed hangers. Workmanship samples for inspection purposes have been approved by BPCo Project Engineering to use for duct welding, hanger installation, and all rework.			
26. DESIGN/PROJECT ENG. ACTION DISP.: See letter LAD-1409	27. ENG. ACTION DISP.: N/A	28. PROCUREMENT ENG. CONC. DISP.: N/A	29. FILE OF ENG. REPLY FOR P/A: See letter LAD-1409
30. FAB/CONST. ENG. ACTION DISP.: See letter LAD-1409	31. FILE OF INST GROUP ACTION: N/A	32. FOR WAREH. MFG. - P.L. SUPP. ENG. ACTION DISP.: N/A	33. CA AFTER ENG. TO COMPLETION DISP.: 1/5/81
34. METHOD OF PART CA VERIFICATION: Verified Zack HVAC NCR's on subject hangers, witnessed numerous reinspections performed by Zack QC inspection personnel. Contract personnel (Conam) have performed various overinspections to ensure compliance of Spec M-151A.			
35. ENG. OF ENG. REPLY FOR PART CA IDENTIFYING COMPLETION: See letter LAD-1409		36. ENG. VERIFYING PART CA & HOLD TAG REMOVAL DATE: 	37. REC CLOSED BY DATE: (PART & PROCESS CA COMPLETE) 1/5/81



Consumers
Power
Company

NONCONFORMANCE REPORT PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT
M-01-4-9-057
SEE SERIAL NUMBER:

PAGE 2 OF 4

18. CA ASSESSMENT OF ROOT CAUSE(S):

Inspection and installation variables between Quality Control Procedures and Specifications.

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

Specification Change Notice #13 to Specification M-151A issued to clarify inspection/installation variables. See letter LAD-1409, AI-784.

20. PROCESS CA DERIVED FROM:

DESIGN ☒

FABRICATION ☐

CONSTRUCTION ☒

PROCUREMENT ☐

INSTALLATION ☒

OTHER

21. CA RECOMMENDATION FOR PROCESS CA:

- Determine acceptance criteria and reconcile Specification and Quality Control Procedures for compatibility.
- Perform fabrication and installation of hangers/supports to meet acceptable standards of Spec M151A(Q).
- Zack Co and Bechtel QC inspectors assure strict compliance with Spec M151A(Q).

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

Zack Co initiated new program because of CPCo/BPCo Stop Work, March 1980. Process CA is as listed:

- Major management reorganization at Chicago and Midland
- Revised Quality Assurance Manual
- Increase in Quality Control Inspectors
- Training program for all QC inspectors
- Reinspection program for all installed hangers and ductwork
- Contract employees (Conam) to perform all overinspection functions; ie, receipt, fabrication, installation and inspection.

23. METHOD OF PROCESS CA VERIFICATION:

Audit M-01-58-0 covered all areas of Stop Work order in Block 42. Numerous overinspections have been performed in all areas of receipt, fabrication, installation and inspection. Specification M-151A.

Process CA concerns listed in Block 42. Personnel in all areas of receipt, fabrication, installation and inspection are in compliance with Specification M-151A.

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

SEE REP LETTER LAD-1409

25. PROCESS CA COMPLETION VERIFIED BY DATE:

[Signature] 5 Jan 1981

NCR SERIAL NO: M-01-4-9-057
DATE: 5-23-79
DATE OF REV: 1/5/81
FILE NO: 16.3.4

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

(Contd from Page 1)

Contrary to the above, the following hangers are nonconforming as listed:

a) Elev 569'

- 1) V19 #11 - Dwg C898 - F942 Tack weld not removed at top. Slag not removed prior to final inspection by subcontracts QC inspector. Arc strikes $1\frac{1}{2}$ " long in near vicinity.
- 2) V1 #3 - C886 - F916 - Porosity (Pin Holes) in face of weld. Lack of fusion on angle iron weld.
- 3) V19 #13 - C898 #7 - F944 - Porosity in end stop and center of weld. Hole in side of weld to base metal of angle. Backside area has lack of fusion to floor beam. Weld not uniform in width and size.

b) Elev 659'

- 1) Sh 3/#129 (7-60-11) - F627 - South side of hanger has undercut greater than $1/32$ ".

c) Elev 674' (8' So of H Line - 3' W of 6.6)

- 1) V26 - Sh 1 #41 - C901 #6 - F3490, F3491, F3496, F3497, F3498 - Tacks and welds have been painted over without QC inspection.
- 2) V26 - Sh 2 #33 (#7 C878) - F3681, F3682, F3683, F3684 - Angle and tube steel welds have porosity on face of weld. Slag not cleaned off prior to inspection. F3682 has undercut. F3683 has undercut and painted over slag. All hangers have one weld underneath that has not been inspected nor painted to protect from rust.

Additionally, many welds are rough, coarse and have large ripples and ridges.

Acceptance criteria of the Quality Control Procedures (QCP's) and Spec M151A(Q) are inconsistent and disagree in welding and inspection. The QCP's are less restrictive than Spec M151A(Q).

13. QA RECOMMENDATION FOR PART CA:

1. Zack Co welding crafts perform rework/repair as necessary on listed hangers/ supports to meet the criteria outlined in Spec M151A(Q).
2. Zack Co welding QC inspectors perform in-process inspections and final inspections to meet criteria of M151A(Q) as above described rework/repair.

(Contd on Page 4)

NCR SERIAL NO: M-01-4-9-057

DATE: 5-23-79

DATE OF REV: 1/5/81

FILE NO: .16.3.4

13. QA RECOMMENDATION FOR PART CA:

(Contd from Page 3)

3. Bechtel QC subcontracts inspector perform inspections (in-process and final) on above described rework/repair to assure strict compliance of Spec M151A(Q) for all hangers presently installed.
4. Re-inspect all accepted HVAC hanger welds to assure compliance with Spec M151A(Q).

CONSUMERS POWER COMPANY
RECEIVED
OCT 19 1979

FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

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

Attention: J. L. Corley

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640



October 18, 1979

Job 7220 Midland Project
CPCo NCRS M-01-4-9-057 and
M-01-2-8-072
Interim Response
LAD-1155, Action Items
784 and 420

Dear Mr. Corley:

Bechtel has received response from the Zack Company on the two subject NCRs. The reply supplied is considered inadequate by the undersigned and Zack has been informed.

A closure date for these two NCRs has not been established. We will keep you informed of future developments.

Should you require any additional information, please contact Phil Falkenberg of my office.

Very truly yours,

L. A. Dreisbach

L. A. Dreisbach
Project Quality Assurance
Engineer

LAD/PEF/lc

cc: W. Bird
B. Marguglio

JLC	
DRK	<i>DRK</i>
RGW	
PRK	
KDB	<i>KDB</i>
<i>XQLE</i>	<i>Q</i>
QE	
FILE	

RECEIVED
MAR 13 1980

FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640



March 10, 1980

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

Attention: J. L. Corley

Job 7220 Midland Project
CPCo NCR M-01-4-9-057
Complete Response
LAD-1409 Action Item-784

Dear Mr. Corley:

The subject NCR addressed Zack Company weldments and the requirements of Bechtel Specification M-151-A (Q) paragraphs 14.8.1 and 14.8.4.

In response specification change notice number thirteen to this specification was approved during February 1980. This change clarified the acceptance criteria of welds and authorized the utilization of workmanship samples.

Zack Company has documented all the deficiencies noted in the NCR and instituted a program to close all outstanding NCR's (reference LAD-1333, MCAR MD-1 response). Zack Company has also instituted a program to assure compliance of installed equipment (reference LAD-1265).

The Bechtel Quality Control Engineer assigned to this subcontract has demonstrated effective proficiency in performing the required surveillance inspections per PQCI SM-1.02 and specification M-151-A.

Should you require any additional information, please contact Phil Falkenberg of this office.

Very truly yours,

E. Smith

L. A. Dreisbach
Project Quality Assurance
Engineer

XJLC	<i>[initials]</i>
XDRK	<i>[initials]</i>
RGW	
PRK	
DDB	
XQIZ	<i>[initials]</i>
QE	
FILE	

LAD/PEF/bss

cc: W. Bird
B. Marguglio
D. Miller



CONSUMERS
Power
Company

NONCONFORMANCE REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

PAGE 1 OF 2

6. PROJECT NAME: Midland	7. NONCONFORMING PART NO: NA	8. NONCONFORMING PART NAME: Film No 21-0 FW 108 R2 M613 Sh 1	1. FOR SPECIAL NO: M-01-4-9-006
9. SERIAL NUMBER: NA	10. SEQ. COMPLETION NO: Bechtel QC	11. AREA/LOC. OF NO: NA	2. DATE: 1-19-79
12. AS IS NONCONFORMING CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFS: Bechtel QC's interpretation of an indication located at approximately 24 3/4 of film No 21-0 FW 108 R2 M613 Sh 1 is a slag inclusion. This indication should have been called incomplete penetration and have been rejected as required by NB 5320 of ASME III.			3. DATE OF REP: Closed 1/7/81
			4. FILE NO: NA-3-3-16.3.6
13. RECOMMENDATION FOR PART CA: 1. Reject film No 21-0 FW 108 R2 M613 Sh 1. 2. Review 100% all radiographic film accepted during the month of December 1978 for other discrepancies. 3. Assure inspector is aware of requirements. DESIGN/PROJECT ENG. DISPOSITION REQUIRED ☐ NOT REQUIRED ☒			5. DISTRIBUTION ACTION COPY: LADreitsbach MADietrich INFO COPY: WLBartclay DBMiller WRBird WMerling- TCCooke JFNewgen JLGorley RASimanek RHerreston DATaggart SHHowell JWCook DRJohnson JFFirlit OSKeeley HPLEonard BWMarguglio JARutgers PAMartinez DMTurnbull JMilandin
			14. FIELD TAGS APPLIED: YES ☐ NO ☒ NUMBER, LOCATION & TYPE OF FIELD TAGS APPLIED: NA
15. IS PROCESS CA REQUIRED: YES ☐ NO ☒ IF NO, ENTER JUSTIFICATION BELOW: This is an isolated occurrence and, as such, no process corrective action is indicated at this time.			
16. DOES NO AFFECT Q-LIST ITEM: YES ☒ NO ☐	17. IS IT REPORTABLE PER 30.55(a): YES ☐ NO ☒		
18. IS IT REPORTABLE PER PART 21: YES ☐ NO ☒	19. IF YES, DATE & TIME OF REPORT TO NRC: NA		
20. IF YES, WHO MADE REPORT TO NRC: NA	21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: NA		
22. NCR ORIGINATED BY: R.O. Rafferty	23. WRITING REPLY REQUIRED BY: 2-2-79 TO ESTABLISH CA COMPLETION DATE	24. SUPERVISOR'S SIGNATURE/DATE: DR Keating 1-19-79	
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE: Position 21-0 FW 108 M613 Sh 1 has been weld repaired and reradiographed. The weld is acceptable. 7 JAN 81			
26. DESIGN/PROJECT SIG. AUTH. DISP.: N/A	27. PNO SIG. AUTH. DISP.: N/A	28. PROCEDUREM SIG. AUTH. DISP.: N/A	29. SIG. OF ENG. REEP. FOR C/A: See Attached letter
30. FAB/CONST. SIG. AUTH. DISP.: N/A	31. SIG. OF TEST GROUP ACKNO. CONSTRUCTION: N/A	32. FOR WATERS MCD - PLE. SUPP. SIG. AUTH. DISP.: N/A	33. SIGNATURE SIG. TO DOCUMENT DISP.: R.O. Rafferty
34. METHOD OF PART CA VERIFICATION: Reviewed Film No 21-0 FW 108 R-4 M613 Sh 1.			
35. SIG. OF NRC. REEP. FOR PART C/A SIGNIFYING COMPLETION: See Attached letters	36. SIG. VERIFYING PART C/A & HOLDING REMOVAL DATE: R.O. Rafferty 7 JAN 81	37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE) R.O. Rafferty 7 JAN 81	



Consumers
Power
Company

NONCONFORMANCE REPORT

PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT
M-01-4-9-006
NCR SERIAL NUMBER: _____
PAGE 2 OF 2

18. CA ASSESSMENT OF ROOT CAUSE(S):

NA

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

NA

20. PROCESS CA DERIVED FROM:

DESIGN ☐

FABRICATION ☐

CONSTRUCTION ☐

PROCUREMENT ☐

INSPECTION ☐

OTHER _____

21. CA RECOMMENDATION FOR PROCESS CA:

NA

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

NA

23. METHOD OF PROCESS CA VERIFICATION:

NA

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

N/A

25. PROCESS CA COMPLETION DATED BY DATE:

N/A

RECEIVED
FEB 2 1979

FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640



February 2, 1979

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

Attention: J. L. Corley

Job 7220 Midland Project
CPCo NCR M01-4-9-006 Interim Response
File: 2610
LAD: 680 Action Item: 564

Dear Mr. Corley:

The subject NCR reported that CPCo disagreed with Bechtel's interpretation of a radiographic indication involving film no. M 613-1 FW ~~108~~ ^{FW N2} R2 location 21-0. ^{XOR} _{CORRECTED}
Bechtel QC is evaluating the reported problem and has forwarded a copy of the radiographic film to Bechtel's San Francisco Home Office, M&QS Level III examiner for an additional evaluation of the indication.

We will keep you informed of the progress of this problem resolution within two weeks. Should you have any questions, please contact my office.

Very truly yours,

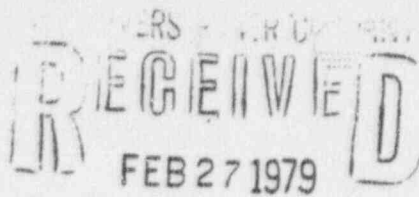
L. A. Dreisbach

for L. A. Dreisbach
Project Quality Assurance Engineer

LAD/ES/re

cc: W. Bird
B. Marguglio
W. Moring
P. Martinez
J. Milandin
W. Barclay
W. Keyser
J. Newgen

X JLC	OK
X DRK	DRK
RGW	
PRK	
X KOR/co	KOR
QS	
FILE	



FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

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
CPCo NCR M-01-4-9-006
Complete Response
LAD: 716 Action Item: 564

Dear Mr. Corley:

This letter is Bechtel's response to the CPCo NCR No. M-01-4-9-006 which pertained to Bechtel's evaluation of radiographs for Field Weld No. 108 on Isometric Drawing M-613, Sheet 1.

Based on the following, the acceptance of the final radiographs for the above referenced field weld is valid:

- 1) The final radiographic interpretation by Bechtel's Level II has been accepted by the Authorized Inspector.
- 2) Bechtel's Level III individual has reviewed all radiographs of the above referenced field weld and concurs with the Bechtel Level II individual's acceptance of the final radiographs. The Bechtel Level III individual's concurrence of acceptance was based on the relevant indication, i.e., root concavity, being within the acceptance parameters of Paragraph NC 4424 of Section III, Div. 1 of the ASME B&PV Code and Paragraph 6.1 of Bechtel Radiographic Examination Specification RT-ASME, Rev. 0. Reference TWX, received February 13, 1979, and Document Review Form Materials and Quality Services, Letter File No. WSC-029-13, dated February 8, 1979.

I believe this addresses all your concerns expressed in the subject NCR. If you have additional questions, please contact my office.

Very truly yours,

L. A. Dreisbach

L. A. Dreisbach
Project Quality Assurance Engineer

LAD/RA/bjc

cc: W. Bird
B. Marguglio
J. Milandin

W. Moring
P. Martinez
J. Newgen

A. Boos
W. Daly
W. Barclay

JLC	<i>[initials]</i>
DRK	<i>DRK</i>
TOW	
PKK	
<i>KUR</i>	<i>KOR</i>
CE	
FILE	



Consumers
Power
Company

Midland Project: P.O. Box 1963, Midland, Michigan 48640 - Area Code 517 631-0951

February 28, 1979

Mr L A Dreisbach
Bechtel Power Corp
PO Box 2167
Midland, MI 48640

MIDLAND PROJECT - RESPONSE TO NCR M-01-4-9-006
File: 16.3.5 Serial: 77FQA79

References: a) Consumers Power Co NCR M-01-4-9-006
b) Bechtel Power Corp letter LAD: 680
c) Bechtel Power Corp letter LAD: 716

The response to Consumers Power Company NCR M-01-4-9-006 in Bechtel Power Corporation letter LAD: 716 is not considered acceptable based on the following:

1. On two prior radiographs (original and R1) the same indication was interpreted as incomplete penetration.
2. The acceptance of the R2 radiograph by the Bechtel Level II was based on the indication being slag not a root indication as interpreted by the Bechtel Level III.
3. Regardless, paragraph NC 4424(e) of the 1974 edition of ASME III Division I states in part, "Internal root weld conditions are acceptable only when the density change as indicated in the radiograph is not abrupt". The indication at 24 3/4 of film 21-0 FW 108 R2 is an abrupt density change indication and is, therefore, rejectable.
4. The same indication on the same film (21-0 FW 108 R2) has been variously called incomplete penetration, slag inclusion, and root concavity. At best, this places FW 108 in an indeterminate condition.

In conclusion, the indication located at 24 3/4 of Film 21-0 FW 108 R2 M 613 Sh 1 is a rejectable indication and, as such, requires that the corrective action specified in block 13 of the subject NCR be complied with.

LC	<i>[Signature]</i>
DRX	<i>DRK</i>
ROW	
PRK	
OE	
FILE	

[Signature]
J L Corley
Section Head - IE&TV, Midland

JLC/KOR

CC WRBird
TCooke
GSKeeley
BWMarguglio
DENMiller

CONSUMERS POWER COMPANY
RECEIVED
MAR 23 1979

FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640

March 21, 1979

BECHTEL	
✓ JLC	✓ DRK
✓ RGW	
✓ PRK	✓
✓ KOR	✓
✓ GE	
FILE	

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

Attention: Mr. J. L. Corley

Job 7220 Midland Project
CPCo NCR M01-4-9-006
Response - AI-564
LAD: 759

References: a) Bechtel letter LAD: 680 dated 2/2/79
b) Bechtel letter LAD: 716 dated 2/26/79
c) CPCo letter 77FQA79 (log I-79-215)

Dear Mr. Corley:

The subject NCR reported that CPCo disagreed with Bechtel's interpretation of a radiographic indication involving film no. M613-1 FW 108-R2 location 21-0.

References a) and b) informed you that we considered the weld to be acceptable in accordance with the ASME B & PV Code.

By Reference c) you rejected the Bechtel response of References a) and b) because:

1. Differences of interpretation between the Bechtel QC Level II and Bechtel M & QS Level III Examiner in naming the indication places FW 108 in an indeterminate condition.
2. Because, in your opinion, the subject indication is an abrupt density change and, therefore, is rejectable per paragraph NC 4424(e) of the 1974 edition of ASME III Div. I.

We have evaluated your concerns expressed in Reference c) with the following results:

Mr. J. L. Corley
March 21, 1979
LAD: 759
Page Two

1. Regardless of previous interpretations by Bechtel Level II personnel, the official and final authority for establishing position relative to the acceptability is the M & QS Level III Examiner. Therefore, the official final Bechtel interpretation is, the subject RT indication is acceptable.
2. The ASME Authorized Inspector considers the subject indication to be acceptable.
3. The judgement that a radiographic indication is an "abrupt density change" relative to paragraph NC 4424(e) of the ASME Code depends to a large degree on the experience and individual opinion of the interpreter. Since a Bechtel Level III Examiner and the Authorized Inspector consider the weld to be acceptable, I must conclude the indication abruptness is insufficient to cause rejection.
4. Therefore, I consider that the process corrective action listed in block 13 of the subject NCR to be unnecessary.

In summary, Bechtel considers the subject weld to be acceptable in accordance with the ASME B & PV Code. Any additional actions, i.e. repairing the weld, reviewing the radiographs for the month of December or reinstructing the Level II QC interpreter, is over and above the applicable technical requirements. If CPCo still considers repair of the subject weld to be required, please confirm by specific written direction.

Very truly yours,

LADreisbach

L. A. Dreisbach
Project Quality Assurance
Engineer

LAD/ES/jrh

cc: W. Bird
B. Margaglio



CONSUMERS
POWER
COMPANY

Midland Project: P.O. Box 1963, Midland, Michigan 48540 - Area Code 517 631-0951

March 27, 1979

Mr L A Dreisbach
Bechtel Power Corp
PO Box 2167
Midland, MI 48640

MIDLAND PROJECT - RESPONSE TO NCR M-01-4-9-006
File: 16.3.6 Serial: 107FQA79

We have reviewed your letter LAD: 759 dated March 21, 1979 in which you indicate that our "concerns" contained in letter 77FQA79 have been evaluated. The four items listed in letter 77FQA79 dated February 28, 1979 (copy attached) are the reasons that the previous responses were unacceptable and the specific written direction that you have requested is contained in the same letter. We are expecting positive, prompt action relative to Field Weld 108. Please provide a date by which the corrective actions will be complete.

J L Corley *RG Wallney*
Section Head - IE&TV, Midland

JLC/DRK

CC WRBird
TCCooke
GSKeeley
BWMarguglio
DBMiller

JLC	X	
DRK	X	<i>DRK</i>
RGW		<i>W</i>
PRK		
KORX		<i>KOR</i>
GE	X	
FILE	X	

CONSUMERS POWER COMPANY

RECEIVED
JUL 30 1979

FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

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

Attention: J. L. Corley

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640

July 26, 1979

Job 7220 Midland Project
CPCo Letter 107FQA79
Complete Response
LAD-1027 Action Item-658



YJC	
X DRK	
RGW	
PRK	
KOR	
GE	
FILE	

Dear Mr. Corley:

- References: (a) CPCo NCR M01-4-9-006/Action Item-564
(b) Bechtel Letter LAD-680
(c) Bechtel Letter LAD-716
(d) CPCo Letter 77FQA79
(e) Bechtel Letter LAD-759

CPCo, By Ref. (a) disagreed with Bechtel's acceptance of the radiographs of Pipe Field weld M 613-1, FW 108-R2. Ref. (a) through (e) resulted in Bechtel's position that the weld and radiographs were acceptable per the ASME Code and requested specific written direction from CPCo if repair was still considered necessary. By the subject letter CPCo directed that the subjected weld be repaired and requested Bechtel to provide a date by which the corrective action will be complete.

Bechtel construction advises that the subject weld is difficult to access. Scaffolding will have to be erected on the polar crane for this operation. In order to limit impact of the repair on other work in the building which requires the crane, we plan to do the job several months from now when the NSSS work as as Bechtel work has diminished.

Since our position is that the radiographs were properly interpreted by QC in accordance with the ASME Code, the process corrective action's No. 2 and 3 in Block 13 of Ref. (a) is not considered to be necessary.

I consider this to address all of your concerns expressed in the subject letter and referenced NCR. Should you have additional concerns please contact Gene Smith of my office.

Very truly yours,

LADreisbach
L. A. Dreisbach
Project Quality Assurance
Engineer

LAD/GS/bsm

cc: W. Bird
B. Marguglio

Document Control (1141 - 73 * 10 * 03)



Consumers
Power
Company

Midland Project: P.O. Box 1963, Midland, Michigan 48640 - Area Code 517 631-0951

July 31, 1979

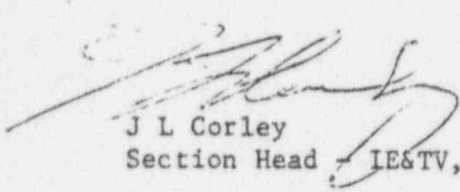
Mr. L A Drieisbach
Bechtel Power Corp.
PO Box 2167
Midland, MI 48640

MIDLAND PROJECT - RESPONSE TO NCR M-01-4-9-006
File: 16.3.5 Serial: 257FQA79

References: a) CPCO NCR M-01-4-9-006
b) Letter LAD: 680
c) Letter LAD: 716
d) Letter 77FQA79
e) Letter LAD: 759
f) Letter 107FQA79
g) Letter LAD: 1027

JLC	<i>JD</i>
DRK	<i>DRK</i>
RGW	<i>W</i>
PRK	<i>PRK</i>
QE	<i>QE</i>
FILE	

The corrective action required in block 13 of NCR M-01-4-9-006 and mentioned in several of the referenced letters is an extract of Consumers Power Company Midland Project Quality Assurance procedure M-3. This corrective action has been the subject of a prior verbal agreement between Bechtel Power Corporation Q.C. and CFCO QA and is considered a reasonable corrective action for the identified discrepancy. If B.P.C. wishes to negate this agreement some other forum must be chosen. If you wish to discuss the subject further please contact us.


J L Corley
Section Head - IE&TV, Midland

JLC/KOR

CC WRBird
TCCooke
GSKeeley
BWMarguglio
DBMiller

RECEIVED
AUG 9 1979

FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640

August 8, 1979



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

Attention: J. L. Corley

Job 7220 Midland Project
CPCo letter 257FQA79
Complete Response
LAD-1045 Action Item-658

Dear Mr. Corley:

References: (a) CPCo NCR M01-4-9-006/Action Item-564
(b) Bechtel letter LAD-680
(c) Bechtel letter LAD-716
(d) CPCo letter 77FQA79
(e) Bechtel letter LAD-759
(f) CPCo letter 107FQA79
(g) Bechtel letter LAD-1027

JLC	
XDRK	DRK
RGW	
PRK	
DDB	
XDRK	DRK
QE	
FILE	NCR M-01-4-9-006

Reference (a) through (g) resulted in CPCo directing Bechtel to repair FQ 108-R2 and Bechtel advising CPCo that items 2 and 3 of Block 13 in the original NCR (Ref. (a)) was considered to be unnecessary, i.e. Re-interpret all of December 1978 radiographs that was involved in the reported problem and re-instruct the individual involved. CPCo disagreed and advised Bechtel, by the subject letter, that items 2 and 3 of Block 13 would be required.

To resolve the differences of opinion, a meeting of CPCo and Bechtel QA was conducted and resulted in the following agreements.

1. All of the radiographs interpreted in December 1978 by the QCE who caused the original disagreement will be re-interpreted by a different QCE, who is a qualified film interpreter.
2. The specific individual involved in the subject problem will be re-instructed to preclude controversial radiographic interpretations in the future.

I believe this addresses the agreements we reached in the 8/7/78 1200 hours meeting. Should you have additional questions please contact Gene Smith of my office.

Very truly yours,

LADreisbach
L. A. Dreisbach
Project Quality Assurance
Engineer

LAD/GS/bsm
cc: W. Bird
B. Marguglio

Document Control (1141 - 73*10*03)



PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

PAGE 1 OF 3

5. PROJECT NAME: Midland		7. NONCONFORMING PART NO: See Block 12		8. NONCONFORMING PART NAME: See Block 12		1. NCR SERIAL NO: 101-2-8-072	
9. SERIAL NUMBER: See Block 12		10. SEQ. COMPLETING NO: Zack QC		11. AREA/LOC. OF NO: Control Room		2. DATE: September 6, 1978	
12. AS IS NONCONFORMING CONDITION (STATUS "AS REQUIRED" CONDITION WITH REFS: Paragraph 4.2.1 of Zack procedure M-B-QCP-13 Rev. 1 states in part: "By signing the shipping ticket he assures the items received were fabricated per the Zack Co. Duct Standards and Construction Details designed for the Midland Project." Visual inspection of the following HVAC fabrications located in a storage area adjacent to the Control Room noted that stiffeners were not welded to the duct work. V25-Sheet 3 #90 F-816 V25-Sheet 3 #118 F-843 #111 F-831 #121 F-846 #117 F-842 (con't page 3 of 3)						3. DATE OF REV: Closed 1/14/81	
						4. FILE NO: 18.8	
13. QA RECOMMENDATION FOR PART CA: A. Document incomplete welding on above fabrication per Zack Company NCR procedure for assurance of proper completion in accordance with Construction Details-Plate CI-S10 Rev. 3. DESIGN/PROJECT ENG. DISPOSITION REQUIRED ☐ NOT REQUIRED ☒						5. DISTRIBUTION ACTION COPY: LADreisbach MADietrich MFranchuk INFO COPY: WRBird JARutgers TCCooke (2) DMTurnbull JL Gorley SH Howell GS Keeley BWMarguglio DBMiller DATaggart JWCook JFFirlit HPLeonard	
14. HOLD TAGS APPLIED: YES ☐ NO ☒ NUMBER, LOCATION & TYPE OF HOLD TAGS APPLIED: N/A							
15. IS PROCESS CA REQUIRED: YES ☒ NO ☐ IF NO, ENTER JUSTIFICATION BELOW:							
16. DOES NC AFFECT 2-LIST ITEM: YES ☒ NO ☐ 17. IS NC REPORTABLE PER 90.55(e): YES ☐ NO ☒							
18. IS NC REPORTABLE PER PART 21: YES ☐ NO ☒ 19. IF YES, DATE & TIME OF REPORT TO NRC: N/A							
20. IF YES, WHO MADE REPORT TO NRC: N/A 21. IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A							
22. NCR ORIGINATED BY: Walter F. Dickson Jr.				23. WRITTEN REPLY REQUIRED BY: 9/20/78 TO ESTABLISH CA COMPLETION DATE		24. SUPERVISOR'S SIGNATURE/DATE: R.L. Southon 10/20 9/6/78 per telephone.	
25. PART CA DISPOSITION, JUSTIFICATION & COMPLETION DATE: A. Zack Co NCR's 196, 197, 198, 199 and 200 were issued to document the status of the fabrications identified by CPCo QA and additional fabrications identified by Zack. These NCR's were dispositioned and the work on the fabrications was completed. B. The fabrications that had been shipped to the site were reinspected and SDDR 1594 was issued and accepted by Bechtel Project Engineering.							
26. DESIGN/PROJECT SIG. AUTH. DISP.: N/A		27. PNO SIG. AUTH. DISP.: N/A		28. PROCUREMENT SIG. CONC. DISP.: N/A		29. SIG. OF ORG. RESP. FOR C/A: See Bechtel letter LAD-1318 dated 1/23/80	
30. FAB/CONST. SIG. AUTH. DISP.: N/A		31. SIG. OF TEST GROUP ACTION, CONDITION: N/A		32. FOR MAJOR MGS - PLE. SUPT. SIG. AUTH. DISP.: N/A		33. QA AUTH. SIG. TO IMPLEMENT DISP.: RE Whitaker	
34. METHOD OF PART CA VERIFICATION: The Zack Co NCR's identified in Block 25 were reviewed for proper issuance, disposition and closure.							
35. SIG. OF ORG. RESP. FOR PART C/A SIGNIFYING COMPLETION: See Bechtel letter LAD-1318 dated				36. SIG. VERIFYING PART C/A & HOLD TAG REMOVAL/DATE: RE Whitaker 1/13/80		37. NCR CLOSED BY/DATE: (PART & PROCESS CA COMPLETE) RE Whitaker 1/13/81	

Document Control (1141-10408-73*20*02)



Consumers
Power
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NONCONFORMANCE REPORT PROCESS CORRECTIVE ACTION

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

NCR SERIAL NUMBER: M01-2-8-072

PAGE 2 OF 3

38. CA ASSESSMENT OF ROOT CAUSE(S):

- A. Unknown for fabrication incompleteness.
- B. Lack of definitive guidelines for receipt inspection.

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

Same as Block 38 above.

40. PROCESS CA DERIVED FROM:

DESIGN ☐

FABRICATION ☒

CONSTRUCTION ☐

PROCUREMENT ☐

INSPECTION ☒

OTHER ☐

41. CA RECOMMENDATION FOR PROCESS CA:

- A. Develop mechanism for communication between fabricator and on-site receiving personnel to determine the extent of completion for fabricated items upon receipt.
- B. Develop appropriate guidelines for receipt inspection in conjunction with 'A' above.

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

Initially, Zack Co revised their QC procedure MS-QCP-19 Rev 2, "Site Procedure for Field Fabrication and Installation of Ductwork and Hangers," and issued Administrative Directive No 1 Rev 0 outlining the use of Zack travelers. Since that time, their program has been revised and currently MB-FQCP-7 Rev 3 Paragraph 7.6.4.2 states that travelers shall indicate "knocked down" if shipped in that condition.

43. METHOD OF PROCESS CA VERIFICATION:

Travelers for the shipment received at the site on 11/14/80 were reviewed and found to meet the requirement for indicating "knocked down" if shipped in that condition.

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

See Zack Co QC Procedure MB-FQCP-7
Rev 3

45. PROCESS CA COMPLETION VERIFIED BY/DATE:

RE Whitaker

1/13/81

Con't from Item #12

Upon review of the receiving records for the above items, it was noted that the shipping ticket had been signed by the Zack QC representative indicating proper fabrication upon receipt. However, the Zack Co. Duct Standards and Construction Details identified as Plate CI-S10 Rev. 3 "Construction Detail for Duct Stiffener" requires an 1/8" jillet weld to the duct, 1-1/2" long ship welded every 4" on alternating sides of the stiffener. In addition, there was no indication on the fabrication travelers for the above items, that the welds were to be completed at the jobsite (Midland).

Con't from Item #13

- B. Inspect all fabricated items received on site for similar conditions of incomplete work and document such cases per Zack Companys NCR procedure.

CPCo

AFR's - Open

ALL-0

Priority - 6

Start Up System: Indeterminate



Consumers
Power
Company

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

Trend Code: B2, I2

AI S-626

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

Drawing E42A, Rev 47, Sheet 10B, Para 17 states in part, for the installation of Class IE conduits, "after installation, exposed male threads shall be coated with zinc-rich paint."

Contrary to the above requirement, the following conduits had exposed male threads which were not coated with zinc-rich paint: 2EA007, 2AE008, 2BA023, 2BLA002, 1BSL938, 1ASL945.

NOTE: The unpainted male threads were at termination points and/or at various fittings.

NOTE: See PQCI E-1.0 Act No 3.6.

APP. SIGN. NO:

M-01-22-1-02

PROJ./DEPT. ACCTED:

Bechtel Construction

DATE OF ORIGINATION:

January 27, 1981

FILE NUMBER:

18.4.3.4 & 18.4.3.6

DISTRIBUTION:

WRBird SKT/KJK

JWCook

TCCooke

LHCurtis

MADietrich

DRKeating

GSKeeley

BWMarguglio

REMcCue

DBMiller

JARutgers

DATaggart

DMTurnbull

JLWood

RECOMMENDED CORRECTIVE ACTION:

1. Inspect each conduit listed for unpainted male threads. Prepare surface and coat with zinc-rich paint as required.
2. Determine if other conduits final inspected by QC for painting of exposed male threads and paint if required.

CORRECTIVE ACTION COMMITMENT:

February 12, 1981

Bechtel Construction and QC agree with above recommended commitment date: 2/12/81.

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A:

QC & Construction

PERSON MAKING C/A COMMITMENT:

A Lobrovich

METHOD OF VERIFICATION:

IS AN REPORTABLE PER 50.55(a)?

YES ☐

NO ☒

IF "YES", DATE OF REPORT TO NRC:

N/A

IF "YES", TIME OF REPORT TO NRC:

N/A

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

N/A

IF "YES", WHO MADE REPORT:

N/A

C/A ORIGINATOR'S SIGNATURE:

R. Yee

SUPERVISOR'S SIGNATURE:

M. J. Schaffer for HPL

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:



Consumers
Power
Company

AUDIT FINDING REPORT

Trend Code: B-2

AI S-627

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

AS IS' CONDITION VERSUS AS REQUIRED' / AS NEEDED' CONDITION WITH NEW ENCS:

E-42 Sh 10B Note 17 states in part for field cut conduit threads, "After installation, exposed male threads shall be coated with zinc-rich paint."

One now needs to determine which zinc-rich paint to use, since it is not specified in Note 17. Technical specification for field priming and/or top coating of steel surfaces 7220-A41 Rev 6 details the repair coating of conduit (galvanized rigid steel). Specification 7220-A-41 Sections 9.1 and 10.1 refer to Schedule I and II of Drawing 7220-A-72. Drawing A-72 Schedule II, surface reference I (repair of galvanized steel), calls out coating system #20 (in-containment) which is Z-50.

Contrary to the above, coating system #43, which is ZX-50, was used on conduit threads in Containment instead of coating system #20.

Deficiency noted with conduits 1DG007a, 1DG008a, 1DG009a, 2BLA002 and 1BLB003.

APP SER NO:

M-01-02-1-03

PRM/DEPT AUDITED:

Bechtel QC/Construct

DATE OF CALIBRATION:

January 27, 1981

FILE NUMBER:

18.4.3.4 & 18.4.3.6

DISTRIBUTION:

WRBird SKT/KJK

JWCook

TCCooke

LHCurtis

MADietrich

DRKeating

GSKeeley

BWMarguglio

REMcCue

DBMiller

JARutgers

DATaggart

DMTurnbull

JLWood

RECOMMENDED CORRECTIVE ACTION:

Bechtel Project Engineering to determine proper coating type to be referenced in Note 17 of E-42, for use in Containment.

Construction to discontinue use of ZX-50 coatings until resolution of Audit Finding.

CORRECTIVE ACTION COMMITMENT:

Audited organization disagreed with finding and would not give a commitment date.

Commitment Date Assigned: 2/26/81

DATE OF C/A COMPLETION:

ORG. RESP FOR C/A:

PERSON MAKING C/A COMMITMENT:

DATE OF C/A EFFECTIVENESS:

Proj Engr/Constr

N/A

METHOD OF VERIFICATION:

IS AT REPORTABLE PER 50-55(a):

YES ☐NO ☒

IF "YES", DATE OF REPORT TO NRC:

N/A

IF "YES", TIME OF REPORT TO NRC:

N/A

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

N/A

IF "YES", WHO MADE REPORT:

N/A

C/A ORIGINATOR'S SIGNATURE:

Larry D Seaman

SUPERVISOR'S SIGNATURE:

M. J. Schaeffer for HPL

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:



Consumers
Power
Company

AUDIT FINDING REPORT

Trend Code B2 and I2

AI S-628

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

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

Per E-42A Sh 2, Note 6 (QCI E-1.0 Sect 3.1) welding on conduit supports and uncovered metal shall be painted with zinc-rich paint as protection against corrosion.

Contrary to the above, welding on supports for conduits were not painted with zinc-rich paint.

Deficiency noted with conduits 1DG007a, 1DG008a, 1DG009a, 2BLA002 and 1BLB003.

A/R SER NO:

M-01-02-1-05

PROJ/DEPT AUDITED:

BPCo QC & Construction

DATE OF ORIGINATION:

January 27, 1981

YES NUMBER:

18.4.3.4 & 18.4.3.6

DISTRIBUTION:

WRBird SKT/KJK

JWCook

TCCooke

LHCurtis

MADietrich

DRKeating

GSKeeley

BWMarguglio

REMcCue

DBMiller

JARutgers

DATaggart

DMTurnbull

JLWood

RECOMMENDED CORRECTIVE ACTION:

All closed Inspection Records be reopened for conduits noted above. This deficiency was noted in five out of five Inspection Records that were reviewed for conduits in Containment. Therefore, recommend that all closed Inspection Records for conduit in Containment be reinspected for this attribute.

CORRECTIVE ACTION COMMITMENT:

Bechtel QC will investigate above finding and return complete response/action by February 12, 1981.

DATE OF C/A COMPLETION:

ORG. RESP FOR C/A:

Quality Control

PERSON MAKING C/A COMMITMENT:

N Ainsworth

DATE OF C/A EFFECTIVENESS:

METHOD OF VERIFICATION:

IS AF REPORTABLE PER 50.55(a):

YES ☐NO ☒

IF "YES", DATE OF REPORT TO NRC:

N/A

IF "YES", TIME OF REPORT TO NRC:

N/A

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

N/A

IF "YES", WHO MADE REPORT:

N/A

A/R ORIGINATOR'S SIGNATURE:

Larry D. Seaman

SUPERVISOR'S SIGNATURE:

M. J. Schaeffer for HPL

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:



Consumers
Power
Company

AUDIT FINDING REPORT

Trend Code: B1

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

AI S-629

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

Per 10CFR50 Appendix B Criteria V and VI, activities affecting quality shall be prescribed by documented instructions or procedures. These documents are to be reviewed for adequacy and approved for release by authorized personnel.

Contrary to the above, conduit installed and accepted by QC is being reworked without a documented and approved procedure.

Deficiency noted with conduit 1BLB003.

A/R SER NO:

M-01-02-1-06

FROM/DEPT. ASSIGNED:

BPCo QC & Construction

DATE OF ORIGINATION:

January 27, 1981

FILE NUMBER:

18.4.3.4 & 18.4.3.6

PERSONNEL:

WRBird SKT/KJK

JWCook

TCCooke

LHCurtis

MADietrich

DRKeating

GSKeeley

BWMarguglio

REMcCue

DBMiller

JARutgers

DATaggart

DMTurnbull

JLWood

RECOMMENDED CORRECTIVE ACTION:

A procedure to be documented, reviewed for adequacy, and approved by authorized personnel.

CORRECTIVE ACTION COMMITMENT:

Bechtel Project Engineering to issue a documented and approved procedure by February 12, 1981.

DATE OF C/A COMPLETION:

ORG. RESP FOR C/A:

Project Engineering

PERSON MAKING C/A COMMITMENT:

D Scott

DATE OF C/A EFFECTIVENESS:

METHOD OF VERIFICATION:

IS AF REPORTABLE PER 50.55(a)?

YES ☐NO ☒

IF "YES", DATE OF REPORT TO NRC:

N/A

IF "YES", TIME OF REPORT TO NRC:

N/A

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

N/A

IF "YES", WHO MADE REPORT:

N/A

A/R ORIGINATOR'S SIGNATURE:

Larry D Seamans

SUPERVISOR'S SIGNATURE:

M. J. Schaeffer for HPL

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:

Ai-5630

Start Up System: Indeterminate

Consumers
Power
Company

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

Trend Code: B2, I2

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

Per 7220-1.50 Act No 3.1 (Ref C-305 6.2, 6.3, 8.2, Table 4.2) requires expansion anchors to be torque tested per the values (in Table 4.1) for bolt diameters specified.

Contrary to the above, anchors in hangers for conduits 2DPO51, 2EPO52 (Hangers #273, X204, X201), Conduit 2ADA010 (Hanger #185) and replaced anchors for conduits 1DG007a, 1DG008a, 1DG009a (Hangers #515, 516, 517) failed to pass torque test as outlined in C-305.

AFR ID NO:

M-01-02-1-07

PROJ/LEFT AGENCY:

BPCo Constr/QC

DATE OF ORIGINATION:

January 27, 1981

FILE NUMBER:

18.4.3.4 & 18.4.3.6

DISTRIBUTION:

WRBird SKT/KJK

JWCook ESmith

TCCooke

LHCurtis

MADietrich

DRKeating

GSKeeley

BWMarguglio

REMcCue

DBMiller

JARutgers

DATaggart

DMTurnbull

JLWood

RECOMMENDED CORRECTIVE ACTION:

R retorque bolts to assure setting of wedges as outlined in initial installation in Spec 7220-C-305 or replace failed anchors.

CORRECTIVE ACTION COMMENT:

Bechtel QC and Construction to coordinate or retorque/replace failed anchors.

DATE OF C/A COMPLETION:

ORG. RESP FOR C/A:

PERSON MAKING C/A COMPLETE:

DATE OF C/A EFFECTIVENESS:

QC

A Lobrovich

METHOD OF VERIFICATION:

IS AF REPORTABLE PER 30.55(a)?

YES ☐NO ☒

IF "YES", DATE OF REPORT TO NRC:

N/A

IF "YES", TIME OF REPORT TO NRC:

N/A

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

N/A

IF "YES", WHO MADE REPORT:

N/A

AFR/ORIGINATOR'S SIGNATURE:

SUPERVISOR'S SIGNATURE:

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:

M. J. Schaeffer for HPL

AI-5631

Start Up System: Indeterminate



CONSUMERS
POWER
COMPANY

AUDIT FINDING REPORT

Trend Code: B2, 12

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

AS IS CONDITION VERSUS AS REQUIRED / AS REEDED CONDITION WITH REFERENCES:

Per 7220, C-1.50 Para No 3.1 (PQCI-IRE1.0 Sect 3.13) requires torque paint application after verification of anchor torque prior to sign-off.

Contrary to the above, anchor bolts in hangers associated with Conduits 1DG007, 1DG008, 1DG009 (Hangers #515, 516), 2ADA010 (Hanger #185), 2EPO51, 2EPO52 (Hangers #273, X204, X201) do not have torque paint applied.

APR SER NO:

M-01-02-1-08

PRG/DEPT ACHIEVED:

BPCo Constr/QC

DATE OF ORIGINATION:

January 27, 1981

FILE NUMBER:

18.4.3.4 & 18.4.3.6

DISTRIBUTION:

WRBird SKT/KJK

JWCook ESmith

TCCooke

LHCurtis

MADietrich

DRKeating

GSKeeley

BWMarguglio

REMcCue

DBMiller

JARutgers

DATaggart

DMTurnbull

JLWood

RECOMMENDED CORRECTIVE ACTION:

Retest anchors according to C-305 and apply torque paint.

CORRECTIVE ACTION COMMITMENT:

Bechtel QC to investigate above finding and will respond by February 12, 1980.

DATE OF C/A COMPLETION:

ORG. RESP FOR C/A:

QC

PERSON MAKING C/A COMMITMENT:

A Lobrovich

DATE OF C/A EFFECTIVENESS:

METHOD OF VERIFICATION:

IS AF REPORTABLE PER 50.55(a)?

YES

☐

NO

☒

IF "YES", DATE OF REPORT TO NRC:

N/A

IF "YES", TIME OF REPORT TO NRC:

N/A

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

N/A

IF "YES", WHO MADE REPORT:

N/A

AFR ORIGINATOR'S SIGNATURE:

SUPERVISOR'S SIGNATURE:

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:

CPC.

AFR's Closed



Consumers
Power
Company

AUDIT FINDING REPORT

Trend Code: B2

Start Up System: 2BKA

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

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

Drawing E-36, The Raceway Schedule, shows the "from" and "to" locations of conduit 2AA033 as 2AJ316 and 2AKD031 respectively.

An inspection of the installation shows conduit 2AA033 terminating in Junction Box 2BJ316 rather than 2AJ316.

- NOTE: 1. Drawing E-536 Rev 20 shows this Junction Box to be 2AJ316.
2. See PQCI E-1.0 Act No 3.5.

APP. REV. NO:

M-01-02-1-01

FROM/DEPT. ASSIGNED:

Bechtel Construction

DATE OF ORIGINATION:

January 19, 1981

FILE NUMBER:

18.4.3.4 & 18.4.3.6

DISTRIBUTION:

WRBird SKT/KJK

JWCook

TCCooke

LHCurtis

MADietrich

DRKeating

GSKeeley

BWMarguglio

REMcCue

DBMiller

JARutgers

DATaggart

DMTurnbull

JLWood

RECOMMENDED CORRECTIVE ACTION:

Restencil Pull Box 2BJ316 to 2AJ316 to agree with Drawing E-536. This is considered to be an isolated incident.

CORRECTIVE ACTION COMMITMENT:

Bechtel Construction to restencil pull box to agree with Drawing E-536.

DATE OF C/A COMPLETION: Completed during audit.

ORG. RESP. FOR C/A:

Construction

PERSON MAKING C/A COMMITMENT:

N Ainsworth

METHOD OF VERIFICATION:

Visually verified that pull box 2AJ316 has been correctly restenciled. QC completed inspection of conduit 2AA033 prior to stenciling of the subject pull box.

IS AS REPORTABLE PER 50.55(a)?

YES ☐

NO ☒

IF "YES", DATE OF REPORT TO NRC:

N/A

IF "YES", TIME OF REPORT TO NRC:

N/A

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

N/A

IF "YES", WHO MADE REPORT:

N/A

C/A ORIGINATOR'S SIGNATURE:

R. Yee

SUPERVISOR'S SIGNATURE:

M. J. Schaeffer for HPL

C/A VERIFICATION SIGNATURE:

R. Yee

VERIFICATION DATE:

1-21-81

Consumers
Power
Company

AUDIT FINDING REPORT

Trend Code: B2 and I2

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

Per E-42A, Sh 10B, Note 15 (QCI E-1.0 Section 3.6), insulated conduit bushings shall be used throughout the installation.

Contrary to the above, the conduit bushings at enclosure 1DJ271 were not insulated.

Deficiency noted with conduits 1DG007a, 1DG008a, and 1DG009a.

APP. SER. NO.:

M-01-02-1-04

FACILITY/DEPT. AND PROJECT:

BPCo QC & Construction

DATE OF OBSERVATION:

January 27, 1981

FILE NUMBER:

18.4.3.4 & 18.4.3.6

DISTRIBUTION:

WRBird SKT/KJK

JWCook

TCCooke

LHCurtis

MADietrich

DRKeating

GSKeeley

BWMarguglio

REMcCue

DBMiller

JARutgers

DATaggart

DMTurnbull

JLWood

RECOMMENDED CORRECTIVE ACTION:

Install T & B insuliner sleeve per E-42A Sh 10B, Note 15.

CORRECTIVE ACTION COMMITMENT:

DATE OF C/A COMPLETION: Corrected during audit

ORG. RESP. FOR C/A:

Construction

PERSON MAKING C/A COMMITMENT:

N/A

METHOD OF VERIFICATION:

Visually verified that the insuliner sleeve was installed.

IS AF REPORTABLE PER 90.35(a)?

YES ☐NO ☒

IF "YES", DATE OF REPORT TO NRC:

N/A

IF "YES", TYPE OF REPORT TO NRC:

N/A

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

N/A

IF "YES", WHO MADE REPORT:

N/A

C/A OBSERVER'S SIGNATURE:

Larry D Seaman

SUPERVISOR'S SIGNATURE:

M. J. Schaffer for HPL

C/A VERIFICATION SIGNATURE:

Larry D Seaman

VERIFICATION DATE:

1-26-81



Consumers
Power
Company

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

Trend Code: B2, I2

AI S-632

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

Per E-42(Q) Sheet 302 Para 3b states in part, "Bolts in pipe clamps for rigid steel conduit shall be tightened a minimum of two complete turns past hand tight."

Contrary to the above, pipe clamp for rigid conduit 2EP052 was not tight.

APP. REQ. NO:

M-01-02-1-09

FAC/DEPT. AGENCY:

BPCo Constr/OC

DATE OF ORIGINATION:

January 27, 1981

FILE NUMBER:

18.4.3.4 & 18.4.3.6

DISTRIBUTION:

WRBird SKT/KJK

JWCook

TCCooke

LHCurtis

MADietrich

DRKeating

GSKeeley

BWMarguglio

REMcCue

DBMiller

JARutgers

DATaggart

DMTurnbull

JLWood

RECOMMENDED CORRECTIVE ACTION:

Assure correct type of bolt and nut was used and retightened as specified in E-42.

CORRECTIVE ACTION COMMENT:

Bechtel Construction to repair above discrepancy and respond by February 12, 1981.

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP. FOR C/A:

Construction

PERSON MAKING C/A COMMITMENT:

D E Scott

METHOD OF VERIFICATION:

Visually inspected conduit clamp according to E-42(Q) Sheet 302, Para 3b. The correct type of bolt and nut were present and the conduit appeared to be held tight against its support by the clamp.

IS AT REPORTABLE PER 50.55(a):

YES ☐NO ☒

IF "YES", DATE OF REPORT TO NRC:

N/A

IF "YES", TIME OF REPORT TO NRC:

N/A

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

N/A

IF "YES", WHO MADE REPORT:

N/A

C/A ORIGINATOR'S SIGNATURE:

SUPERVISOR'S SIGNATURE:

M. J. Schaffer for HPL

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:

5 Feb 81



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Company

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

Trend Code: I-3

AI S-587

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

Quality Control Notices Manual Project Special Provision G-6.1 Para 3.3.3b3 states, "Review (R) - Review is an examination by the Bechtel QCCE of any form of documentation for the purpose of establishing its acceptability to specific requirements. Signoff by the QCCE on the IR will be performed upon review and acceptance of said documentation."

Further, PQCI M-2.00 Rev 3 states, "Interfaces: 1. The responsible mechanical QC engineer shall coordinate the prerequisite and inspection activities with other discipline QC engineers. The discipline QCCE shall be responsible for assuring that equipment foundation and grouting is installed correctly and shall document his acceptance by recording the discipline IR No and signing for installation acceptance on this PQCI-IR."

Contrary to the above requirements, QCIR M-2.00 Rev 3 in-process activity 2.4 has not been completed. Final activities 3.1, 3.2, 3.3, 3.5 and 3.7 have been completed. In-process activity 2.4 is the coordination with Civil discipline for review and sign-off of grouting activities to PQCI C-1.10.

APP. NO.:

M-01-01-1-01

PROJ/DEPT. AFFECTED:

Midland 1 & 2 BPCo

DATE OF ORIGINATION:

1/15/81

FILE NUMBER:

18.4.3.4, 18.4.3.6

DISTRIBUTION:

ESmith - Action

WRBird

DMTurnbull

JWCook

JLWood

TCCooke

SKT/KJK

LHCurtis

MADietrich

DRKeating

GSKeeley

BWMarguglio

REMcCue

DBMiller

JARutgers

DATaggart

RECOMMENDED CORRECTIVE ACTION:

1. Complete activity 2.4 in accordance with the existing program requirements.
2. Review QCIR's for all other service water strainers to ensure coordination activities are reviewed and completed in accordance with the existing program and document the review and results thereof.
3. Take action to ensure all QCCE's are aware that in-process activities must be completed progressively as the work proceeds. Document what action was taken.

CORRECTIVE ACTION COMMITMENT:

The recommended corrective action and a commitment date of January 30, 1981 was basically agreed to.

DATE OF C/A COMPLETION: January 26, 1981

DATE OF C/A EFFECTIVENESS: January 26, 1981

ORG. RESP. FOR C/A:

Bechtel QC

PERSON MAKING C/A COMMITMENT:

WJCreel

METHOD OF VERIFICATION:

1. Review, interface and sign-off has been completed and these actions were reviewed by MPQAD.
2. All Service Water Strainers were reinspected and interfacing activities reviewed. The Inspection Reports were reviewed by MPQAD.
3. A training session was conducted on January 23, 1981 by Quality Control and monitored by MPQAD.

IS AT REPORTABLE PER 90.55(a):

YES ☐

NO ☒

IF "YES", DATE OF REPORT TO NRC:

N/A

IF "YES", TIME OF REPORT TO NRC:

N/A

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

N/A

IF "YES", WHO MADE REPORT:

N/A

APP. ORIGINATOR'S SIGNATURE:

Donald K. Martin 1/26/81

SUPERVISOR'S SIGNATURE:

M. H. H. Lee P.H. Keating 1-30-81

C/A VERIFICATION SIGNATURE:

Donald K. Martin 1/30/81

VERIFICATION DATE:

January 30, 1981



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PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

Trend Code: I-3

AI: S-599

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

PQCI M-2.00 Rev 3, Special Instruction 7, states, "Section 2.0, In-Process Inspection Activities, provides instructions for the activities that require in-process inspection. The in-process inspection is performed progressively as the work proceeds to assure the materials and items are being installed or placed in accordance with the project design requirements, and before the item becomes inaccessible to inspection."

Activity 2.3 of PQCI M-2.00 Rev 3 is to "verify that the sole plates are correctly set." The reference criteria lists Bechtel Drawing C-94 Rev 8. C-94 Rev 8, Section H shows a detail of the Service Water Pump Base and Sole Plate.

Contrary to the above, Activity 2.3 is signed off as nonapplicable on QCIR M-2.00-OP75A-D and QCIR M-2.00-OP75-E. The sole plates are not accessible for inspection due to the fact that the grouting activities are completed for all five service water pumps.

APP. REQ. NO:

M-01-01-1-02

PROJ/DEPT. AFFECTED:

Midland 1 & 2 BPCo

DATE OF ORIGINATOR:

1/15/81

FILE NUMBER:

18.4.3.4, 18.4.3.6

DISTRIBUTION:

ESmith - Action

WRBird

JLWood

JWCook

SKT/KJK

TCCooke

LHCurtis

MADietrich

DRKeating

GSKeeley

BWMarguglio

REMcCue

DBMiller

JARutgers

DATaggart

DMTurnbull

RECOMMENDED CORRECTIVE ACTION:

1. Determine acceptability of the nonconforming condition and provide rationale if the condition is acceptable.
2. Review other installations for similar conditions and document the action.
3. Conduct and document refresher training for Quality Control Engineers in the adherence to referenced criteria.

CORRECTIVE ACTION COMMITMENT:

The recommended corrective action and a commitment date of January 30, 1981 was basically agreed to.

DATE OF C/A COMPLETION: January 29, 1981

ORG. ASKED FOR C/A:

Bechtel QC

PERSON MAKING C/A COMMITMENT:

WJCreel

DATE OF C/A EFFECTIVENESS: January 29, 1981

METHOD OF VERIFICATION:

1. The condition is acceptable. Drawing C-94 Rev 8 is in error and FCN C-901 has been issued to correct section H. FCN C-901 was reviewed by MPQAD.
2. All Service Water Pumps were reinspected and the Inspection Reports have been reviewed by MPQAD.
3. A training session was conducted on January 23, 1981 by Quality Control and monitored by MPQAD.

IS AF REPORTABLE PER 50.55(e):

YES ☐

NO ☒

IF "YES", DATE OF REPORT TO RBC:

N/A

IF "YES", TIME OF REPORT TO RBC:

N/A

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

N/A

IF "YES", WHO MADE REPORT:

N/A

APP. ORIGINATOR'S SIGNATURE:

Donald X. Martin 1/29/81

SUPERVISOR'S SIGNATURE:

Donald X. Martin 1/29/81

C/A VERIFICATION SIGNATURE:

Donald X. Martin 1/30/81

VERIFICATION DATE:

January 30, 1981



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AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

AI: S-424

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

Calculation No 431-1-16 (ISO 1EBB-17-2 Rev 0) signed off by checker has the following discrepancies:

1. Seismic Anchor movement calculation sheet and Seismic (OBE) stress calculation sheet as per MED 4.37-1 Rev 2 para 3 (specimen sheets shown as attachment 3 and 4 respectively in MED 4.37-1 Rev 2) are not available.
2. Input source documents identified are incomplete. Eg, Reference to Sec III of ASME code for thermal expansion calculation sheet (allowable stress range) is missing. This is contrary to EDP 4.37 Rev 2 Para 3 which says in part that each calculation "shall list or reference the applicable design assumptions, codes, standards and references".
3. Thermal expansion calculation sheet (page 3 of 5) shows maximum computed stress as 26, 808 psi without additional comment. Review indicates that this figure represents maximum thermal expansion stress plus stress due to maximum RAD.

This is contrary to the requirements of EDP 4.37 Rev 2 Para 3 which says in part that "Each calculation shall list or

(Contd Page 2)

AFR SER NO:

M-01-24-0-08

PROJ/DEPT AUDITED:

Proj Engg Small Pipe

DATE OF ORIGINATION:

10/6/80

FILE NUMBER:

18.4.3.1

DISTRIBUTION:

WRBird DMTurnbull
JWCook
TCCooke
LHCurtis
LADreisbach MADietrich
GSKeeley
RPLEonard
BWMarguglio
JARutgers
DRKeating
REMcCue
DBMiller
DATaggart
JLWood

RECOMMENDED CORRECTIVE ACTION:

1. Comply with the requirements of EDP 4.37 Rev 2 and follow the requirements for piping stress analysis calculations covered by MED 4.37-1 Rev 2 for the identified calculation.
2. Bechtel Project Engineering should indoctrinate the cognizant lead engineers on the requirements of MED 4.37-1 Rev 2 and EDP 4.37 Rev 2.

CORRECTIVE ACTION COMMITMENT:

1. Letter BLC-9987 11/19/80 LHCurtis to CPCo identified that corrective actions for items 1, 2, 3, 4 & 5 have been taken.
2. Project Engineering has reviewed training session plan and is found satisfactory.
- B. Letter BLC-10278, 1/23/81, LHCurtis to CPCo identified the pipe relative to Cal 431-1-16 is to be rerouted and hence Cal No 431-1-16 is withdrawn.

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A:

Bechtel Project Engg

PERSON MAKING C/A COMMITMENT:

PCorcoran/LHCurtis

METHOD OF VERIFICATION:

1. 1EBB-17-2 Rev 0 folder has noting "on hold for major reroute." (Cal 431-1-16)
2. Cal 409-1-14, dtd 11/15/80, has all items 1, 2, 4, & 5 satisfactory.
3. Training session dtd 11/13/80 by MORothwell - Roster copy in AFR file.

IS AF REPORTABLE PER 50.55(e):

YES ☐ NO ☒

IF "YES", DATE OF REPORT TO NRC:

IF "YES", TIME OF REPORT TO NRC:

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

IF "YES", WHO MADE REPORT:

AFR ORIGINATOR'S SIGNATURE:

R. Subramanian

SUPERVISOR'S SIGNATURE:

R. Leonard

C/A VERIFICATION SIGNATURE:

R. Subramanian

VERIFICATION DATE:

1.27.81



Consumers
Power
Company

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT

CONTINUATION SHEET:

Page 2 of 3

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

3. (Contd) reference the applicable criteria, design assumptions,...."
4. Back-up data for hanger load sheet (page 5 of 5) is not available in the calculation contrary to the requirement of EDP 4.37 Rev 2, Para 3.0 which says in part "Where detailed calculations are not warranted, a calculation sheet shall be completed to clearly state the basis of how the design data was otherwise developed."
5. Calculation cover sheet-type of calculation block (signifying whether the calculation is preliminary, final, etc.) is not checked contrary to the general requirements of EDP 4.37 Rev 2.

(Contd page 3)

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

CORRECTIVE ACTION (CONTINUED):

AFR ORIGINATOR'S SIGNATURE:

SUPERVISOR'S SIGNATURE:

AFR Ser No M-01-24-0-08
AI S-424
Date 10/6/80
File No 18.4.3.1
Page 3 of 3

"AS IS" CONDITION VERSUS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCES: (Contd)

- NOTE: A) Items 1 and 2 are generic for two other stress calculations signed off by checker. Eg, Calculation No 410-1-33 and 410-1-29.
- B) Back-up data for hanger load sheets (item 4) appears to be noted on copies of ISO's which do not form part of final or completed calculation folder.
- C) The calculation 431-1-16 also indicates that allowable stress is exceeded (equation 9) but it is not clear whether redesign is required or not.



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AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -

QUALITY ASSURANCE DEPARTMENT

Page 1 of 2

AI: S-390

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

Paragraph 2.3 of WFMP-1 requires copies of certified material test reports stating actual test results and identifying the specific test and testing conditions used be provided the Midland Site.

Contrary to the above, records for E309-16, 1/8" electrode AEO #2490, PO #F-3037 filed in the QC Vault does not have test reports (certification) available.

AFR SER NO:

M-01-13-0-03

PROJ/DEPT AUDITED:

Bechtel Construction

DATE OF ORIGINATION:

8/6/80

FILE NUMBER:

18.4.3.4

DISTRIBUTION:

WRBird	KORafferty
RBGherba	RLRixford
JWCook	JARutgers
TCCooke	ESmith
JLCorley	DATaggart
DLDaniels	JLZimmerman
LEDavis	MADietrich
LADreisbach	JFFirlit
PKHansen	DMTurnbull
SHHowell	
GSKeeley	
BWMarguglio	
JMilandin	
DBMiller	

RECOMMENDED CORRECTIVE ACTION:

1. Withdraw all specific 1/8" E309-16 electrode purchased under this PO number and AEO number from storage and issue area until required and correct documentation can be obtained.
2. If documentation is unavailable, further corrective action will be determined at that time.

(Contd Page 2)

CORRECTIVE ACTION COMMITMENT:

DATE OF C/A COMPLETION: January 5, 1981

DATE OF C/A EFFECTIVENESS: January 5, 1981

ORG. RESP FOR C/A:

Bechtel QC Receiving

PERSON MAKING C/A COMMITMENT:

DDelaney

METHOD OF VERIFICATION:

Reviewed Materials Certificate.

Reviewed Purchase Order and Materials Receiving Report.

IS AF REPORTABLE PER 50.55(*):

YES ☐

NO ☒

IF "YES", DATE OF REPORT TO NRC:

N/A

IF "YES", TIME OF REPORT TO NRC:

N/A

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

N/A

IF "YES", WHO MADE REPORT:

N/A

AFR ORIGINATOR'S SIGNATURE:

A.O. Rafferty

SUPERVISOR'S SIGNATURE:

DDelaney 9/23/80

C/A VERIFICATION SIGNATURE:

A.O. Rafferty

VERIFICATION DATE:

5 JAN 81



Consumers
Power
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AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT

CONTINUATION SHEET:

Page 2 of 2

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

N/A

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

3. For filler metal transferred to Midland Site from other jobsites, provide copies of original PO requirements and material specifications for inclusion in the Midland Site records.

CORRECTIVE ACTION (CONTINUED):

N/A

AFR ORIGINATOR'S SIGNATURE:

SUPERVISOR'S SIGNATURE:



Consumers
Power
Company

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

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

- Paragraph 15.3 of Graver Tank Procedure RE-12A Rev. 0 requires the density of the area of interest to be within minus 15 to plus 30 percent of the penetrameter density. Contrary to this requirement, radiographs for weld Vert #1 Ring #1 Tank 2T-60 areas 2-3, 4-5 exceed the plus 30 percent requirement.

APR SER NO:

M-01-02-0-03

PROJ/DEPT ALCATED:

Graver Tank

DATE OF ORIGINATION:

2-6-80

FILE NUMBER:

18,4,7

DISTRIBUTION:

MADietrich

ACTION: ~~LADriesbach~~

WRBird JARutgers

TCCooke DATaggert

~~JHCorley~~ BKWarren

LEDavis JLWood

~~SHHowell~~ JWCook

GSKeeley LHCurtis

BWMarguglio DRKeating

DKMartin REMcCue

JMilandin DMTurnbull

DBMiller FAPimentel

~~ROstrowski~~

DPattee

~~ROstrowski~~

RECOMMENDED CORRECTIVE ACTION:

- Re-radiograph nonconforming areas for density requirements.
- Re-review all radiographs for density to Graver Procedure RE-12A Rev. 0.

CORRECTIVE ACTION COMMITMENT:

- Nonconforming areas will be re-radiographed as production schedule permits.
- Re-review will be accomplished by February 20, 1980.

NOTE: Verification by sampling radiographs which were re-reviewed, by Graver, revealed no additional deficiencies in density. The sample consisted of 24 films. However, documentation submitted by Graver is unacceptable due to a lack of definitive quantitative information as discussed with Graver.

DATE OF C/A COMPLETION

ORG. RESP FOR C/A:

PERSON MAKING C/A COMMITMENT:

DATE OF C/A EFFECTIVENESS:

Graver Tank

BKWarren

METHOD OF VERIFICATION:

SAR Change Notice 1992, adds Note No 5 to Table 3.2-3 of FSAR, which permits 1975 Winter addenda of Section V, ASME Code. Winter 1975 addenda of Section V permits use of step wedge film comparison method in lieu of densitometer. Subject film were reviewed using step wedge and found acceptable. (Ref LAD-1744)

NOTE: SAR Change 1992 supercedes SAR change 1754.

IS AF REPORTABLE PER 30.55(*):

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

NA

AFR ORIGINATOR'S SIGNATURE:

Ref/stumb

SUPERVISOR'S SIGNATURE:

J. Stanley 2/28/80

C/A VERIFICATION SIGNATURE:

Frank A. Pimentel

VERIFICATION DATE:

1/27/81

NO. 7220

2. DISCIPLINE/COMPANY LIC. ISING1. FSAR
FSAR
3 No. 19924. ORIGINATOR D. DULUK5. DATE 8-5-80

6. REFERENCED SECTIONS OF SAR

TABLE 3.2-3 (SH. 1 & 5)

7. DESCRIPTION OF CHANGE

ADDITION OF FOOTNOTE FOR TABLE 3.2-3.
(THIS SCN SUPERCEDES SCN # 1754)

Approved
and put
in REV 30
to FSAR
GMA
1-16-81

8. REFERENCED SPECIFICATIONS OR DRAWINGS

NONE

9. JUSTIFICATION

CPCo NCR M-01-9-0-013 (QPRR Q/A ACTION ITEM
S-229)
GRAVER ENERGY SYSTEMS SDDR's 80-01, 80-02, 80-03
BECHTEL LOG #: (1649) (1648) (1657)

10. BECHTEL DISCIPLINE INTERFACE REVIEW:

☐ ARCH
☒ CIVIL Parry, J. Int/BD
☐ CONTROL SYS
☐ ELEC
☒ MECH/NUCLEAR

☒ PLANT DSN
☒ POAE
☒ STRESS
☐ OTHER
☒ Q/E

INTERFACING STAFF REVIEW:

☐ ARCH
☒ CIVIL
☐ CONTROL SYSTEM
☐ ELEC
☐ GEOTECH
☒ M & QS

☒ MECH
☒ NUCLEAR
☐ PLANT DSN
☐ RELIABILITY
☐ STRESS
☐ OTHER

<u>D. S. Lewis</u>	<u>8-6-80</u>	<u>D. J. Duluk</u>	<u>8-6-80</u>	<u>W. A. Shilly</u>	<u>8/27/80</u>
1. REVIEWED BY (Group Supervisor)	DATE	12. REVIEWED BY (SAR COORDINATOR)	DATE	13. REVIEWED BY (NUCLEAR ENGINEER)	DATE
<u>D. S. Lewis, for L. H. CURTIS</u>	<u>8-28-80</u>	<u>J. M. Lewis</u>	<u>8/27/80</u>	<u>B. Y. R. R.</u>	<u>8/29/80</u>
14. CONCURRENCE BY (PROJECT ENGINEER)	DATE	15. APPROVED BY (CPCo)	DATE	16. CONCURRENCE BY (NSSS SUPPLIER)	DATE

MIDLAND 162-FSAR

TABLE 3.2-3

MAJOR COMPONENTS DESIGN CODE

(5)

<u>System/Component</u>	<u>FSAR Section</u>	<u>Design Code</u>	<u>Date or Rev.</u>	<u>Addendum</u>
<u>Reactor Coolant System</u>	5.0			
Reactor vessels		ASME III, Class A	1968	Summer 1968
Steam generators		ASME III, Class A	1968	Summer 1968
Feedwater ring headers		ANSI B31.1	1968	Errata, March 1968
Pressurizers		ASME III, Class A	1968	Summer 1968
Reactor coolant pumps		ASME III, Class 1	1971	None
Reactor coolant piping		ANSI B31.7	1968	Errata, June 1968
<u>Decay Heat Removal System</u>	5.4.7			
Decay heat removal (LPI) pumps		ASME III, Class 2	1971	Winter 1971
Decay heat removal coolers:				
Tube side		ASME III, Class 3-C	1968	Summer 1969
Shell side		ASME VIII	1968	Summer 1969
Core flooding tanks		ASME III, Class B	1968	Summer 1968
<u>Containment Heat Removal System</u>	6.2.2			
Hydrazine pump		ASME III, Class 2	1977	Winter 1978
Reactor building spray pump		ASME III, Class 2	1971	Summer 1973
Hydrazine tank		ASME III, Class 2	1971	Winter 1973
Recirculating air cooling units:				
Fans		AMCA-210	1967	None
Cooling coils		AMCA-300	1967	1971
		ASME III, Class 3	1974	Summer 1975
<u>Combustible Gas Control in Containment</u>	6.2.5			
Hydrogen recombiners		IEEE/323/344		
<u>Reactor Building Penetration Pressurization System</u>	6.8			
Pressurized water storage tanks		ASME III, Class 2	1971	Winter 1973
<u>Onsite Power Systems</u>	8.3			
Emergency diesel generators		ASME III, Class 3	1974	Summer 1976
		IEEE-387	1972	None
		DEMA	1972	None

See
copy

CMH
9/13

TABLE 3.2-3 (continued)

<u>System/Component</u>	<u>FSAR Section</u>	<u>Design Code</u>	<u>Date or Rev.</u>	<u>Addendum</u>
<u>Radwaste Gas System</u>	11.3			
Radwaste gas surge tank		ASME III, Class 3	1971	Summer 1973
Radwaste gas decay tanks		ASME III, Class 3	1971	Summer 1973

⁽¹⁾For Unit 1⁽²⁾For Unit 2⁽³⁾The entire air handling unit is rated in accordance with ARI.⁽⁴⁾Both addenda apply to both tube and shell side.

(5) The ASME design codes and addendum represent the base design code specified for the major system/component. In some cases other addenda are applicable to subcomponents of the major system/component. This detailed information is available for review in the purchase order documentation package.

See ed
copy
1/11/75

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640

October 15, 1980

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

Attention: H. P. Leonard



Job 7220 Midland Project
CPCo AFR M-01-02-0-03
Complete Response
LAD-1744 Action Item S-231

Dear Mr. Leonard:

The subject AFR reported radiographs that exceed the plus 30 per cent requirement of the penetrameter density.

In response, the following is offered. ASME Section V has been revised to allow the use of either a densitometer or a step wedge comparison film for the determination of radiographic film density compliance.

Borated water storage tanks fabricated by Graver Tank required that radiographic inspection be performed per the requirements of ASME V Article 2, 1974. Use of the 1974 ASME Code requires that radiographic film density be determined by use of a calibrated densitometer.

ASME Section V 1974 Edition, with the 1975 Winter Addenda, paragraph T-234.2 of Article 2, permits the use of the densitometer or the film step wedge comparison method to determine the density of radiographic film.

Final Safety Analysis Report (FSAR) change notice 1754 has been submitted to Consumers Power Company for approval to use the ASME Section V 1974 Edition, 1975 Winter Addenda.

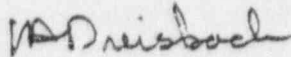
Subsequent to Audit Finding Report AFR M-01-02-0-03, Bechtel QC has reviewed the Graver film for tanks 1T60 and 2T60.

H. P. Leonard
LAD-1744
October 15, 1980
Page 2.

The film density of the reviewed film was satisfactory using the film step wedge comparison method.

If you need additional information, please contact M. A. Dietrich of this office.

Very truly yours,



L. A. Dreisbach
Project Quality Assurance
Engineer

LAD/MAD/sjc

cc: W. Bird
B. Marguglio
D. Miller

CPCo

QAR's-Open

QUALITY ACTION
REQUEST

[illegible]

QAR No: F-021
File No: 16.10.3.2
AI: S-545

ACTION REQUESTED: (Contd from Page 1)

tests were performed in the area between the valve pit of tank 2T60 and electrical stub-ups 2NA284, 2NA285 and 2NA286.

We request that this NCR be reopened and that Project Engineering provide additional information as to where the compaction tests were taken and what the results were or provide a revised disposition deleting statement 2.

QUALITY ACTION
REQUEST

File 16.10.3.2

[illegible]

QAR #P-022
AI S-546
File 16.10.3.2

ACTION REQUESTED: (Contd)

We request additional action by Project Engineering on the following items:

1. Are these bolts low alloy, quenched and tempered?
2. Does letter DJP-050-013 address the mechanical properties of the bolts and their relationship to the Charpy tests that were not performed? We request that a copy of this letter be transmitted to us.
3. We request an additional response from Project Engineering to why the Charpy Test was not performed, even though at the time of the nonconformance specification C-233 Rev 12 required Charpy V-Notch testing for bolts 1" diameter and larger UNO. (Section 5.11.4, Table 2)

QUALITY ACTION
REQUEST

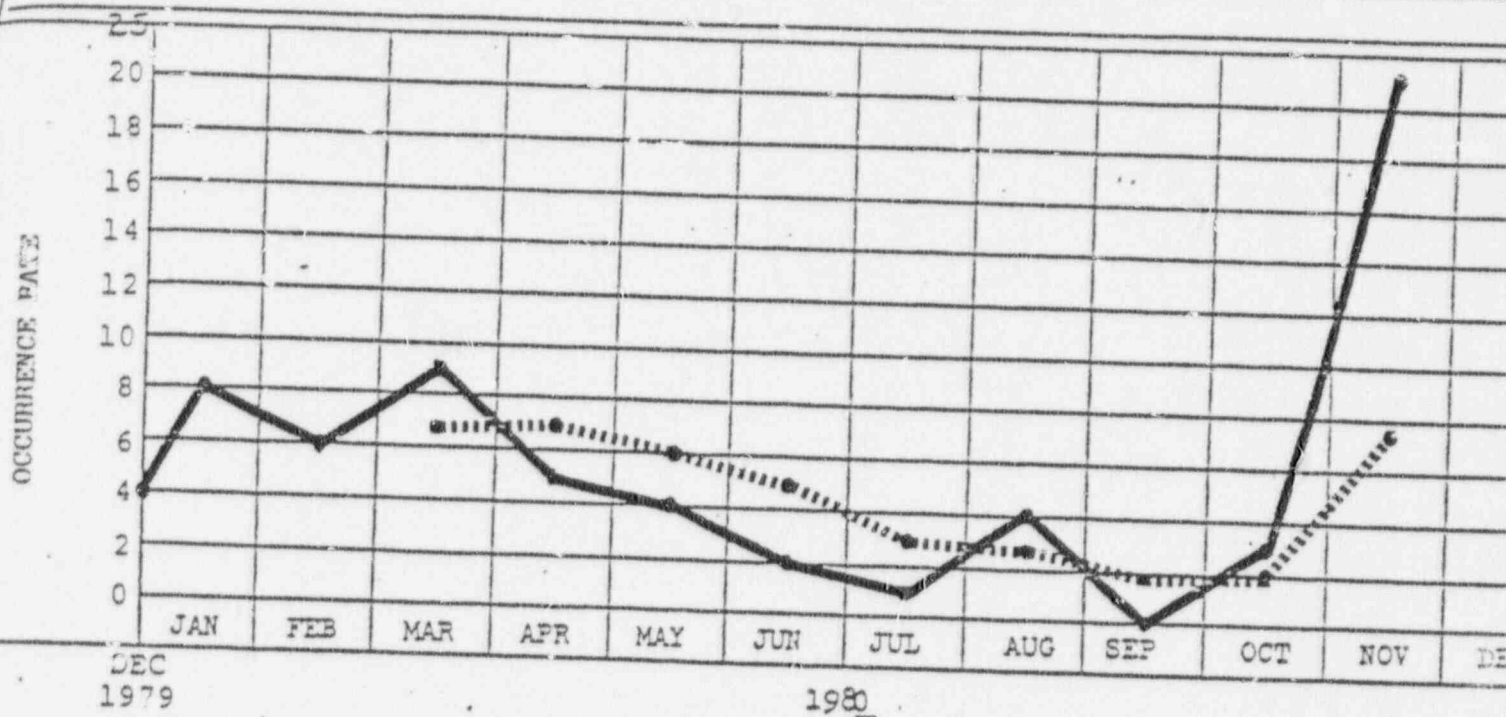
File 16.10.3.2

[illegible]

QUALITY TRACKING GRAPH

TITLE: CHART D3 - PW/NDE

Procedures not followed.



DESCRIPTION OF OCCURRENCES FOR REPORTING PERIOD OF 10-16-80 THROUGH 11-19-80
Total of twenty-three (23) deficiencies - 6 BPC NCRs

1 CPGO AFR

1 QAR

15 BPC DR items

1 DR - Missed identification.

1 DR - Incorrect welding.

1 DR - No inspection due to paint.

1 DR - No symbol

1 DR - Added welds.

2 DRs - Incorrect dimension.

2 DRs - Weld has undercut/undersized.

6 DRs - Incomplete welding

1 QAR - Missed Nuclear Orient. for new employee

1 AFR - Differend class. electrodes in oven.

1 NCR - Missed A.I. inspection.

1 NCR - NDE equip. out of calibration.

1 NCR - Oversize welds.

1 NCR - Improper orient. of welds.

1 NCR - Welds added.

1 NCR - Shrinkage & flattening of pipe.

SUMMARY OF ACTIONS TAKEN OR EVALUATIONS

This rate of occurrence is indicative of a serious problem - if not reduced by next month, corrective action will be needed.

Not reportable. *J. A. [Signature]* 12/15/80

CPCo

QAR's - Closed

Page 1 of 2

QUALITY ACTION
REQUEST

File 16.10.3.2

From: DCHendrix, MPQA					
To:	(2) Control Document ref.: LHCurtis/RCAsh 7220-E-7 Rev 4	(3) QAR Ident. No.: F-007			
Action Requested: Purchase Specification 7220-E-7 Rev 4 requires wire terminations shall be made with ring-tongue compression-type connectors, which firmly grip the conductors. (Burndy "Hylug Type YAU and YAL are preferred.) Contrary to this, screw type compression terminations which do not firmly grip all of the conductors are used on circuit breakers and contactor feed lines.					
Request recommended action with justification for the following: 1. Determination if present condition is acceptable. 2. If not acceptable, recommend changes necessary for compliance to specification					
Signature	(6) Date: 9/24/80	(7) Reply Requested by: 10/10/80			
Reply:	(9) See Attached:				
Signature:	(10) Date:				
Action Verified:	(12) Date: 1-6-81				

B/2/74

114563

PLEASE RECEIPT AND RETURN
BLUE COPY IMMEDIATELY

ANN ARBOR

TRANSMITTAL FORM

DATE 11-21-80

* ACTION

ACTION FOR VENDORS

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

ACTION FOR OTHERS

6. ☐ FOR APPROVAL
7. ☐ CONSTRUCTION
8. ☐ PRELIMINARY USE
9. ☐ REFERENCE
10. ☒ Information

SUBJECT

- ☐ BECHTEL DRAWINGS
- ☐ VENDOR DRAWINGS
- ☐ MATERIAL REQUISITION
- ☐ SPECIFICATIONS
- ☐ BID REQUEST
- ☐ QUOTATIONS
- ☐ PURCHASE ORDER
- ☐ CONFERENCE NOTES
- ☐ BID SUMMARY
- ☐ SUBCONTRACTS
- ☒ Response

CODE

B
V
MR
S
BR
Q
PO
CN
BS
SC
X
Y

ATTENTION VENDORS: ALL FINAL DRAWINGS SUBMITTED TO BECHTEL MUST BE CERTIFIED TRANSPARENCIES.

QTY	F. P. PREFIX []	BECHTEL FOREIGN PR. NO. []	REV. NO. []	TITLE	VENDOR NO.	ACTION	CODE
1				QAR F-007			

CONSUMERS POWER COMPANY

RECEIVED

DEC 1 1980

FIELD QUALITY ASSURANCE

MIDLAND, MICHIGAN

COMMENTS: _____

Job No. _____ 11/24/8			
Log No. _____			
Response Rec'd _____			
Cn. Action Item No. _____			
Route	Info	Act	Comments
PQAS			
Resp. Cn.			
Elect (1)			
Elect (2)			
Cvl/Mch			
Pipe/Weld			
Inst.			
Trn Cvr			
Trend			
Sect.			

TO
DM TURNBULL, MPQA
~~Midland Jobiste~~
Midland Jobiste

FROM
P.L. Gray
AAPD

TRANSMITTAL
TYPE

- ☐ VENDOR PRINT
☐ OTHER

BY P. H. Gray

ORIGINAL

CC: WRBird
JLCorley
LADreisbach
BWMarguglio

Page 1 of 2

QUALITY ACTION REQUEST	SUPPLIER QUALITY DEPT. ARBOR, MICHIGAN RECEIVED OCT 22 1980
DATE _____	

AI: S-391

File 16.10.3.2

From:	DCHendrix, MPQA	(1)
To:	LHCurtis/RCash	(2)
Control Document ref.:	7220-E-7 Rev 4	(3)
QAR Ident. No.:	F-007	(4)
Action Requested:	(5)	
Purchase Specification 7220-E-7 Rev 4 requires wire terminations shall be made with ring-tongue compression-type connectors, which firmly grip the conductors.		
(Burndy "Hylug Type YAU and YAL are preferred.) Contrary to this, screw type compression terminations which do not firmly grip all of the conductors are used on circuit breakers and contactor feed lines.		
Request recommended action with justification for the following:		
1. Determination if present condition is acceptable.		
2. If not acceptable, recommend changes necessary for compliance to specification.		
Signature:	(6)	(7)
Date:	9/24/80	Reply Requested by:
		10/10/80
Reply:	(9)	
Present condition is acceptable. Please reference Supplier Quality Report No. 14, QSDR #2, and SDDR #528. Holingworth terminals were accepted by Engineering and they are equivalent to Burndy Hylug Type Yau and Yal.		
Visual and crimping inspection was conducted at the vendor to Specification 7220-E-7. Also reference Engineer Response dated 10-17-80.		
Signature:	(10)	(11)
Date:	11-18-80	
Action Verified:	(12)	(13)
Date:		

LADreisbach
BWMarguglio

W. KONCZAK
Y. HANTA
P. PRESLEY

QUALITY ACTION REQUEST

DRK

HPL

SKY

Net

File 16.10.3.2

012620 S-391

From: DCHendrix, MPQA

To: LHCurtis/RCash

② Control Document ref.:
7220-E-7 Rev 4

FILE

③ QAR Ident. No.:
F-007

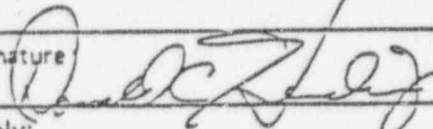
Action Requested:

Purchase Specification 7220-E-7 Rev 4 requires wire terminations shall be made with ring-tongue compression-type connectors, which firmly grip the conductors. (Burdny "Hylug Type YAU and YAL are preferred.) Contrary to this, screw type compression terminations which do not firmly grip all of the conductors are used on circuit breakers and contactor feed lines.

Request recommended action with justification for the following:

1. Determination if present condition is acceptable.
2. If not acceptable, recommend changes necessary for compliance to specification.

Signature



⑤

Date:

9/24/80

⑦

Reply Requested by:

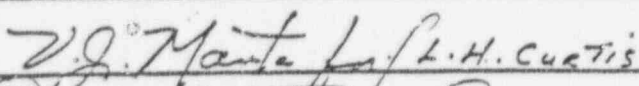
10/10/80

Reply:

Screw type compression terminations are acceptable. Based on the fact that the Gould Box Lugs meet the intent of the specification and will not degrade the ability of the equipment to perform its intended function. (Reference: supplier SDDR No. 015 dated 4/18/78 Bechtel, SDDR No. 700 attached).

There is no conflict between usage of screw type compression termination and Specification 7220-E-7 Rev. 4. Last portion of the paragraph 6.5.5 of Spec. 7220-E-7 Rev. 4 states "seller may propose alternate connectors of their own design and method of installation, subject to buyer's approval".

Signature:

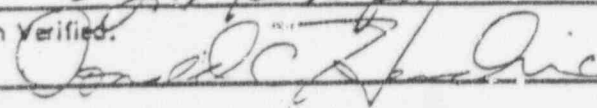


⑩

Date:

10/17/80

Action Verified:



⑫

Date:

12/6/80

8/2/74

Com Use: closed 012620

BECHTEL

Supplier Deviation Disposition Request

FOR SUPPLIER USE		NOTE: The reverse side of this form contains the instructions for its preparation and use. Items marked with an asterisk (*) are for Bechtel entries only.		FOR BECHTEL USE	
Supplier SDDR No.	Date Submitted			* Bechtel SDDR No. 528	* Date Received 1-26-78
1. Supplier Name Gould, Inc.		Address P O Box 306		City & State Westminster, CO Zip 80031	
2. Supplier's Order No. 84-56122	3. Supplier's Part No. N/A	4. Supplier's Part Name Ring Tongue	5. Date Deviation Determined 12/29/77	6. Previous SDDR No. & Date	
7. Buyer's P.O. No. 7220-E-7-AC	8. Buyer's Part No. N/A	9. Buyer's Part Name MCC's 480V	10. Bechtel Inspector Notified 1-17-78	11. Bechtel Eng. Notified 12-29-77	
12. Qty or Serial No.	13. Deviation Description (Attach extra sheets, photographs, sketches, etc. as necessary)				
	Para: 6.5.5 Wire terminations shall be made with solderless ring - tongue connectors. Burndy "HyLug" type XAV for No. 10 and smaller wire. Also stated is that "Seller may propose alternate connectors of their own design and method of installation, subject to Buyer's approval." We (Gould) have proposed Hollingsworth on our MCC layouts (approved), on bid request of 2/24/76 to salesman for cust. approval with complete data, and again on 7/21/76 meeting with Bechtel & CPO.				
14. Supplier's Disposition Classification:		☐ Accept As Is ☐ Repair ☒ Modify Buyer's Requirement			
15. Proposed Disposition and Technical Justification:					
Based on approved layouts from customers Engineering Consultants, Bechtel, we have furnished Hollingsworth ring tongue terminals and our method of installation through entire job on all control wiring. Also, per a telephone conversation between Ken Condon and Jack Fablon in Aug., '76, Jack stated that Consumer Power had approved all I-T-E components, i.e., lights, lugs, nameplates, etc."					
16. Associated Supplier Document Change (s): #2					
SDDR written to resolve deficiency report of 12/29/77					
17. Suppliers Authorized Representative		Approved by: <i>David V. [Signature]</i>			
Signature: <i>George E. Tavaros</i>		Title: Assoc. Engr.		Date: 12/29/77	
Name: George E. Tavaros					
*18. Bechtel Engr. Action:					
☒ Accepted ☐ Rejected ☐ Rejected-Resubmit		Engrg. Follow-up: ☐ Dwg Change ☐ Other ☐ Spec/Req. Change ☐ Discipline or Suppliers Affected			
*19. Bechtel Disposition Statement (Including Justification (Attach extra sheets, sketches, etc. as necessary))					
THIS SDDR IS ACCEPTED. HOLLINGSWORTH TERMINALS HAVE BEEN ACCEPTED BY CPO. HOLLINGSWORTH TERMINALS ARE EQUIVALENT TO BURNBY "HYLUG" TERMINALS.					
*20. Bechtel Engineering Approval		Date	Verification Signatures		Date
<i>OS [Signature]</i> <i>OR [Signature]</i> <i>PL [Signature]</i>		12/29/77 12/29/77 12/29/77	21. Supplier <i>[Signature]</i> 22. Bechtel Insp. <i>[Signature]</i>		12-28-78 12-28-78

SUPPLIER (Name & Location):

ITE GOULD - WESTMINSTER, MO.

2) NAME OF SQ REP.:

JOHN MADIGAN

3) CONTROLLING DOCUMENT(S): (QA Manual, Specification, Procedures, etc.)

SPECIFICATION 7220-E-7 REV. 3

4) REQUIREMENT (Paragraph or other reference from the controlling document...Quote or paraphrase the requirement.)

PART 6.5.5 STATES IN PART - WIRE TERMINATIONS SHALL BE MADE WITH
SOLDERLESS RING-TONGUE CONNECTORS, BURNDY "HYLUG" TYPE
YAW FOR NO. 10 AND SMALLER WIRE.

5) DEFICIENCY (Provide complete description, i.e. What, when, where, how many, item no., etc.)

CONTRARY TO THE ABOVE, FOR ALL WIRE NO. 10 AND SMALLER SUPPLIER IS USING
A HOLLINGSWORTH PRE-INSULATED RING-TONGUE CONNECTOR

a. DISCUSSED WITH

BARRY LINTON - Q.A. ENGINEER

b. BECHTEL PROJECTS AFFECTED:

7220

6) ACTION TAKEN (Steps taken to resolve the deficiency, as applicable):

7) DATE COMPLETED:

12-30-77

Per Bechtel SDDR No. 528 this SDDR is accepted. Hollingsworth
terminals have been accepted by CPCO. Hollingsworth terminals are
equivalent to Burndy "Hylug" terminals.

8) ACTION TAKEN VERIFIED BY: (Signature of SQ Rep)

9) DATE COMPLETED:

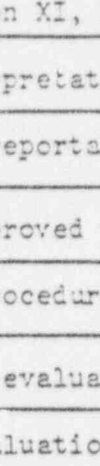
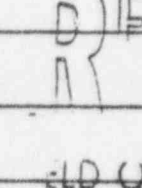
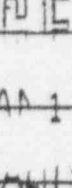
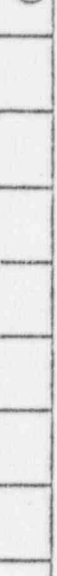
1-30-78

10) DISTRIBUTION:

(Use PSQD Continuation Sheet, as necessary)

- 1 - Asgd SQ Rep (For follow-up & close out.)
- 2 - Supplier (For action to resolve the deficiency.)
- 3 - Affected Projects (Atchd to QSR) (For info & action deemed appropriate.)
- 4 - San Francisco CDCC

AI- S505

From: J L Wood, Midland Project QA.		(1)										
To: H W Slager, Design Product.	(2) Control Document ref.:	(3) QAR Ident. No.: F-019										
Action Requested:		(5)										
There is an ASME Code requirement (Section XI, IV-2300(i)) to have a procedure describing the methods of interpretation of eddy current (ET) test results and the applicable criteria for reportable indications. It is a QA requirement that this procedure be approved prior to start of any work. Please: (1) determine status of B&W's procedure for evaluation of ET indications, (2) determine if any action evaluations have been made prior to procedure approval, (3) when official evaluation will be done. NOTE: The NRC inspector has raised questions about this subject.												
Signature: 	(6) Date: 12/8/80	(7) Reply Requested by: December 10, 1980										
Reply: B&W has responded to the above items in a letter dated January 7, 1981. This attached letter should resolve these comments.												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DMT</td> <td></td> </tr> <tr> <td>DPK</td> <td></td> </tr> <tr> <td>HPL</td> <td></td> </tr> <tr> <td>SKT</td> <td>CC</td> </tr> <tr> <td>FILE</td> <td>16.10.3.2</td> </tr> </table>			DMT		DPK		HPL		SKT	CC	FILE	16.10.3.2
DMT												
DPK												
HPL												
SKT	CC											
FILE	16.10.3.2											
 												
Signature: 	(10) Date: January 13, 1981	(11)										
Action Verified: 	(12) Date: 1/15/81	(13)										

Babcock & Wilcox

a McDermott company

Nuclear Power Generation Division

3315 Old Forest Road
P.O. Box 1260
Lynchburg, Virginia 24505
(804) 384-5111

January 7, 1981

George Eichenberger
Consumers Power Company
1945 West Parnall Road
Jackson, MI 49203

Dear George:

Concern has been expressed by CPCo regarding the evaluation of ET data prior to formal approval of the data evaluation procedure (ISI-460). B&W has evaluated this data to assess the quality of data being recorded, to identify tube flaws, and to determine which tubes may need to be rerun. No technical difference exists between the method this data has been evaluated with, using the draft version of ISI-460, and the way it is to be evaluated using the approved ISI-460. B&W will reevaluate this data after ISI-460 is approved so as to avoid any nonconformance problems.

If you have any questions, please give me a call.

Sincerely,

THE BABCOCK & WILCOX COMPANY

A. P. Peldunas

A. P. Peldunas
Contract Manager
Inservice Inspection

APP/swc

cc HW Slager
JL Wood

RECEIVED

JAN 9 1981

INDIAN PROJECT
MANAGEMENT

CPCo

CAR's - Open

(none closed)

0

CORRECTIVE ACTION REPORT

Page 1 of 1

Unit	S/U System	Discip	Serial
1	5.1.1.1	17	

② Description

FEED SHIB shows value # 499100120 (112491)
which has been changed to value # 4221554
(4221554) or FSK M-422 SHI

(v) Contd on Attachment

③ Recommended Corrective Action and Retest

~~Make M-422 SHI & M-449 SHIB & FSK M-2-HCB-11B-2~~
Make M-422 SHI & M-449 SHIB & FSK M-2-HCB-11B-2

Due Date

1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1

(v) Contd on Attachment

④ Related Documents and References

M-449 SHIB Rev 2
M-422 SHI Rev 3

⑤ ☒ Deficiency

- ☐ Design Chg
☐ Troubleshoot
☐ Maintenance
☐ Retest Only

⑥ Initial

B.P.D.

Subsequent

A
C
T
I
O
N

⑦

Category

0.3

Cause

0.6

Retest Req'd

☐ Yes ☒ No

Q-Listed

☒ Yes ☐ No

⑧ NRC Reportability 10 CFR 50.55(e)

☐ Not Reportable☐ Reportable; QA Notified

Name

Time/Date

⑨ Signature

Orig: [Signature]

FE/TE: [Signature]

PS/PTS: [Signature]

Date

Time

1/16/91 10:55

1/20/91 12:06

1/23/91 3:00

⑩ Corrective Action or Response:

Action Organization Representative

Date

⑪ Retest Complete

Date

TE:

Completion Review Signature

Date

QA:

FE/TE:

PS/PTS:

(v) Contd on Attachment

CORRECTIVE ACTION REPORT

Page 1 of 1

Unit

S/U System

Discip

Serial

①

0

PILIA

M

111

- ② Description PEID M-449 SHIB shows valve # 4491014 (ICKRPP496) which has been changed to valve # 4211555 (ICKRPP555) on PEID M-421SHI

(✓) Contd on Attachment

- ③ Recommended Corrective Action and Retest Delete valve # 4491014 (ICKRPP496)

Due Date

06/01/81

(✓) Contd on Attachment

- ④ Related Documents and References
M-449SHIB Rev 2
M-421SHI Rev 3
PEID M-11HCB 11B-2

- ⑤ Deficiency

- ☐ Design Chg
☐ Troubleshoot
☐ Maintenance
☐ Retest Only

- ⑥

Initial

B.P.D

Subsequent

A
C
T
I
O
N

⑦ Category

0.3

Cause

0.6

Retest Req'd

☐ Yes ☒ No

Q-Listed

☒ Yes ☐ No

- ⑧ NRC Reportability 10 CFR 50.55(e)

☒ Not Reportable☐ Reportable; QA Notified

Name

Time/Date

- ⑨ Signature

Orig:

FE/TE:

PS/PTS:

Date

Time

- ⑩ Corrective Action or Response:

Action Organization Representative

Date

- ⑪ Retest Complete

Date

TE:

Completion Review Signature

Date

QA:

FE/TE:

PS/PTS:

(✓) Contd on Attachment

CORRECTIVE ACTION REPORT

Unit

S/U System

Discip

Serial

①

0

EAB

M

009

② Description

The bolts which connect the OMABA service water sluice gate operator pedestal to their floor plates are loose. The cause of this is not known at this time. This CAR is being issued to investigate this problem.

(v) Contd on Attachment

③ Recommended Corrective Action and Retest

Due Date

02/01/91

By VENDOR RECOMMENDATION TORQUE DOWN the lubricated bolts connecting the pedestal to the floor plate in three (3) stages (200 FT/Lbs) in a cross pattern until the torque is equal to 1000 FT/Lbs.

(v) Contd on Attachment

④ Related Documents and References

- 1) CAR-C-DCA-M-029 3) CAR-101-042 2) Armed Telecom 1/16/91
2) CAR-C-DCA-M-030 4) CAR-101-041

⑤ Deficiency

☐ Design Chg☒ Troubleshoot☐ Maintenance☐ Retest Only

⑥

Initial

C.P.T.

Subsequent

A
C
T
I
O
N

⑦

Category

C.2
Cause

2.10

Retest Req'd

☐ Yes ☒ No

Q-Listed

☒ Yes ☐ No

⑧ NRC Reportability 10 CFR 50.55(e)

☒ Not Reportable H. J. M. C. P. P. 1/19/91☐ Reportable; QA Notified

Name

Time/Date

⑨ Signature

Orig:

FE/TE:

PS/PTS:

Date

Time

⑩ Corrective Action or Response:

Action Organization Representative

Date

⑪ Retest Complete

Date

TE:

Completion Review Signature

Date

QA:

FE/TE:

PS/PTS:

(v) Contd on Attachment

Continuation of Block 3

Operate the GATE 2 or 3 times, checking, and
Retraining, after each run as necessary.

After the 3rd run: check, Run the GATE 2 or
3 times in succession, check: Record findings
After the final Run.

Page 3 of 3

CAR O-EAB-M-009

BECHTEL MIDL

ARMCO MPDPLTDV

TO: K. MCLELLAND
CONSUMERS POWER TESTING

CC: F.P. LYON - DEV
F.J. MATHIEU - DEV

MIDLAND MICH CONSUMERS POWER ARMCO
71-C0706

CONFIRMING OUR TELECON 1/16/31
600 FT-72 TORQUE ON LIMITORQUE PEDESTAL AND MOUNTING PLATE ANCHOR BOLTS
WITH LUBRICATED THREADS AND SHOULDER IS OUR RECOMMENDED TIGHTENING
LOAD.

C. RINGEL 1/16/31 1503 GN
BECHTEL MIDL

BECHTEL SF

6

ON REPORT

Page 1 of 1

Unit

S/U System

Discip

Serial

①

Q

KIEIG

E

0000

Location of LS-26 (XRL) shown in the referenced drawing would allow the Auxiliary Building Fuel Handling Bridge (ABFHB) to violate the LS-16 and 24 limits in the tilt pits. Under certain conditions, the present location would also allow the ABFHB mast to strike the angled portions of the cask pit wall.

(v) Contd on Attachment

③ Recommended Corrective Action and Retest

The LS-26 (XRL) actuation point should be moved to the south such that LS-26 will close as LS-29 (FUL) opens.

Due Date

01/11/81

(v) Contd on Attachment

④ Related Documents and References

Fuel Storage Bridge & Trolley CKT. - Electrical Schematic 7220-m.1.21-24-2 (S-R 22570-112 and 113)

⑤ ☒ Deficiency

- ☐ Design Chg
☐ Troubleshoot
☐ Maintenance
☐ Retest Only

⑥

Initial

C.P.E.

B.P.D.

Subsequent

A
C
T
I
O
N

⑦

Category

0.2

Cause

0.1

Retest Req'd

☐ Yes ☐ No

Q-Listed

☒ Yes ☐ No

⑧ NRC Reportability 10 CFR 50.55(e)

☒ Not Reportable☐ Reportable; QA Notified

Name

Time/Date

⑨ Signature

Orig:

FE/TE:

PS/PTS:

Date

Time

Action Organization Representative

Date

⑪

Retest Complete

Date

TE:

Completion Review Signature

Date

QA:

FE/TE:

PS/PTS:

(v) Contd on Attachment

② Description

1. Limit switches LS-32 thru LS-35 (lines 28, 32, 37 & 42) on the referenced drawing are numbered incorrectly; the limit switch list on the right side of the referenced drawing shows them as LS-31 thru LS-34.
2. Contact on line 21 (connecting wires 45 and 41) is not labeled.
3. Contact on line 23 (connecting wires 45 and 48) is not labeled.

1. Remember the switches in accordance with the latest switch lists
i.e. LS-31 thru LS-34.

0.9	3.0	9.1

2. Label the contact as SZ1-2.
3. Label the contact as OR-3.

(✓) Contd on Attachment

Main Multiple Function Truck - Electrical Schematics 7220 - m1.24-22-2
(S-R 22577-101 ver 2)

⑤ ☒ Deficiency

☐ Design Chg
☐ Troubleshoot
☐ Maintenance
☐ Retest Only

6

Initial

CP

Subsequent

ACTION

7

Category

0.2
Cause

10.7

Retest Req'd
☐ Yes ☐ No

Q-Listed ☒ Yes ☐ No

8 NRC Reportability 10 CFR50.55(e)

☒ Not Reportable LA Kayala 7:37/12-12-11
☐ Reportable; QA Notified _____

☐ Reportable; QA Notified

Name	Time/Date
------	-----------

9 Signature

Orig:	2 + 8-2-2-11 W	12-1-1-1-2720
FE/TE:	Wm O. King	12-19-86-722
PS/PTS:	2/11/86	12-19-86/1300

FE/TE: James A. Kinsale 12-19-86-729

PS/PTS: 27 whole 12-19-92/1300

⑩ Corrective Action or Response:

Action Organization Representative

Date _____

⑪ Retest Complete

Date _____

TE:

Completion Review Signature

Date _____

QA:

FESTE:

PS/PTS:

(✓) Contd on Attachment

0

reset switches LS-32 thru LS-35 (lines 28, 32, 37 & 42) on the referenced drawing are numbered incorrectly, the reset switch list on the right side of the referenced drawing shows them as LS-31 thru LS-34.

(v) Contd on Attachment

3 Recommended Corrective Action and Retest

Remember the switches in accordance with the reset switch list, i.e. LS-31 thru LS-34.

Due Date

01/10/82

(v) Contd on Attachment

4 Related Documents and References

innum Multiple Function Reset - Electrical Schematics 7220 - m.27-27-2 (SR 23575-121 rev 0)

5 Deficiency

- ☐ Design Chg
- ☐ Troubleshoot
- ☐ Maintenance
- ☐ Retest Only

6 Initial

Initial C.F.E.
Subsequent D.P.V.
ACTION

7 Category

Category 0.2
Cause 0.1
Retest Req'd ☐ Yes ☐ No
Q-Listed ☒ Yes ☐ No

8 NRC Reportability 10 CFR 50.55(e)

☒ Not Reportable 214 Kojak 7-41/12-15-81
☐ Reportable; QA Notified 1

Name		Time/Date	
Signature	<u>George F. Kelly</u>	Date	12/17/80
Orig:	<u>George F. Kelly</u>	Time	0730
FE/TE:	<u>Richard A. Kojak</u>	Date	12-18-81
PS/PTS:	<u>214 Kojak</u>	Date	12-19-81

10 Corrective Action or Response:

Action Organization Representative

Date

11 Retest Complete	Date
TE:	
Completion Review Signature	Date
QA:	
FE/TE:	
PS/PTS:	

(v) Contd on Attachment