

NONCONFORMANCE - REPORT LOG & STATUS BOOK

12.

REPORT DATE	5-2-76
PAGE COMPL.	6-2-76
Q.C. ENG. SIGN	<i>[Signature]</i>

1. PROJECT NO. 7220

2. NCR NO.	3. ORIG. DATE	4. PREPARED BY	5. NONCONFORMANCE DESCRIPTION/REMARKS	6. STATUS				
				6. ROUTE	7. DATE XMTD	8. DATE RETD	9. DATE CLOSED	10. CLOSED BY
376	2-4-76	D. L. Osborn	C-208. Flyash Test Frequency, more than 100 tons received w/o user test 1.105, 1.205	Field	2-19-76	5/7/76	5/28/76	E. R. Albert
377	2-5-76	E. Dutton	C-208. Concrete test frequency exceeded, Pour A(633.25)a' 1.205	Field	2-19-76	4-9-76	4-13-76	D. L. Osborn
378	2-5-76	R. A. Moray	C-233A, F-3043 Release #32, Nelson Studs on Back-Up Plates have defective welds 1.202	Field	No	2-5-76	3-31-76	R. A. Moray
379	2-6-76	D. Martin	M-1. Purification Demineralizer opened, ice found inside ASME 4.038	B&W	No	3-25-76	4-27-76	P. M. Pitts
380	2-6-76	E. Dutton	C-231. Concrete curing temperature, pours A(633.25)a' & TT(606)a 1.205	Field	2-12-76	2-25-76	2-25-76	L. R. Albert
381	2-9-76	G. Depew	C-50A. Liner Plate heat number discrepancy 1.109	Field	No	2-17-76	3-9-76	R. G. Lussier
382	2-11-76	D. L. Osborn	C-111. Liner Plate tolerance, Unit #1, Elev 650'6" to 651'6" 1.109	Field	No	2-17-76	2-27-76	D. L. Osborn
383	2-11-76	D. L. Osborn	C-230. Half yard of high slump concrete, pour A(630.75)a' 1.205	Field	2-19-76	4-16-76	4-21-76	D. L. Osborn
384	2-11-76	H. Boleen	M-104A. Pipe spools with shipping damage and improper painting ASME 4.164, 4.174	Field	4-5-76	6-1-76	6-2-76	R. A. Moray
385	2-13-76	R. A. Moray	WFMC-1. Weld rod heat treatment temperature F-3029. ASME	Field	2-17-76	3-29-76	3-31-76	R. A. Moray
386	2-19-76	R. A. Moray	M-106. Hangers received without C/S plates welded on. ASME 4.131	Field	No	3-2-76	3-26-76	R. A. Moray
387	2-26-76	D. L. Osborn	C-111. Penetration tolerance, Unit #2, Elev 635'6". 1.109	Field	3-4-76	5-10-76	5-10-76	L. R. Albert

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12. REPORT DATE 2-26 4-26 5-3
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1. PROJECT NO. 7220

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388	2-26-76	G. Depew	C-50A. Liner Plate heat number discrepancy S8-1-U1 1.109	Field 2-26-76	No	3-4-76	3-31-76	R. G. Lussier
389	2-26-76	H. Boleen	M-1. CRDM Service Structure Cylinder damaged @ off-loading N/A	B&W 2-27-76	No	3-26-76		
390	2-27-76	H. Boleen	M-104A. Pipe spools with painting and weld end prep discrepancies ASME 4.164, 4.174	Field 2-27-76	4-5-76	6-1-76	6-9-76	R. A. Moray
391	3-2-76	P. M. Pitts	M-104A. Code Data Form and other documents for one spool ASME 4.164	Field 3-3-76	No	3-12-76	6-21-76	P. M. Pitts
392	3-8-76	T. LIEB	C-230. Ninety day concrete strenghts. A(599)m', A(612.5)d' 1.205	Field 3-8-76	3-16-76	3-19-76	3-22-76	L.R. Albert
393	3-8-76	P. Neiswander	C-304. Embed C-6 not located per DCN #2 to C-287. 1.201	Field 3-8-76	3-8-76	Dis 4-1-76 4-6-76	4-6-76	R. G. Lussier
394	3-15-76	E. Dutton	C-230. Flyash content, ticket 075072, Pour A(630.75)b' 1.205	Field 3-15-76	3-19-76	4-28-76	4-28-76	L. R. Albert
395	3-22-76	R.A. Moray	M-104A. Pipe spools with loose end closures ASME 4.164, 4.174	Field 3-22-76	No	3-22-76	6-2-76	R. A. Moray
396	3-22-76	W. Faulkner	C-231. Rebars omitted, Aux Bldg 'A' line wall pour. 1.203	Field 3-22-76	3-23-76	3-25-76	4-21-76	D. L. Osborn
397	3-22-76	E. Dutton	C-231. Curing temperture, Pour C(624)a' 1.205	Field 3-23-76	4-2-76	4-16-76	4-16-76	D. L. Osborn
398	3-23-76	R. Revereza	C-231. Rebar omitted, Aux Bldg 'J' & 'K' line walls 1.203	Field 3-23-76	3-23-76	3-25-76		
399	3-23-76	L. R. Albert	C-231. Preplacement FIP signed-off for pour A(630.75)c', rescoped down to A(624)a' 1.203	Field 3-24-76	No	3-25-76	3-26-76	L.R. Albert

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				6. ROUTE	7. DATE XMTD	8. DATE RETD	9. DATE CLOSED	10. CLOSED BY
400	3-31-76	H. Boleen	C-233A. Fabrications with improper welding 1.201	Field 3-31-76	No	3-31-76	4-8-76	A. L. Boulden
401	4-1-76	H. Boleen	M-117. Listing of Valves with rust, noted on receipt inspection ASME Varies	Field 4-1-76	No	4-5-76	4-27-76	P. M. Pitts
402	4-2-76	R. Lussier	C-38. Structural Beam 233B9, crack @ angle clip. 1.201	Field 4-2-76	No	4-5-76	4-5-76	R. G. Lussier
403	4-1-76	T. Lieb	C-230. Quality Verification Documents Submitted without G321D. Varies	Field 4-2-76	5-11-76	5-1-76 6-3-76	6-4-76	L. R. Albert
404	4-5-76	J. P. Betts	C-52. Cadweld sleeve appears to have been cut off. 1.104	Field 4-6-76	No	4-8-76	4-16-76	D. L. Osborn
405	4-8-76	R. Hendricks	M-92. Welding lack of fusion, Girder G-1. Unit #1 1.001	Field 4-12-76				
406	4-13-76	L. P. Wehner	C-304. Column at 5.31 & Fx mislocated at 617-0. 1.201	Field 4-13-76	5-7-76	6-14-76		
407	4-19-76	H. Boleen	M-106. Hanger Fab sheets approved level 4. 4.112	Field 4-19-76	6-1-76			
408	4-21-76	W. Pardee	C-50A Dome Liner Plate Heat Number Discrepancy 1.109	Field 4-21-76	No	5-6-76		
409	4-21-76	R. Bennett	C-110 Deep gouge in Liner Plate Cont. #1 1.109	4-22-76 Field	No	4-29-76	4-30-76	P. DiCarlo
410	4-23-76	N. Shawl	C-233. Anchor bolts without ASTM A-325 nuts 1.202	Field 4-26-76	5-3-76			
411	4-26-76	P. Pitts	M-177 & M-178 Improper Pipe Spools Coverings ASME 4.018 & 4.028	Field 4-26-76	No	6-11-76		

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412	4-26-76	T. R. Lieb	C-230. Flyash fineness. User Test 1.105, 1.205	Field 4-27-76	4-29-76				
413	4-26	T.R. Lieb	C-230. Batch Plant Cement Scales broke during calibration 1.105, 1.205	Field 4-27-76	4-29-76	DEX 4-30-76	4-30-76		L. R. Albert
414	4-29-76	R. A. Moray	M-104A. Documentation and Code Data Plate 2ea pipe spools. ASME 4.1353	Field & 4-29-76	6-11-76	7-6-76			
415	4-29-76	H. Boleen	M-106. Hangers fabricated and shipped w/o sketches being approved ASME 4.102, 4.12	Field 4-29-76	5-28-76				
416	4-30-76	A. L. Boulden	ASME Section III. Field Weld, Unit #2 Sump. X-ray requirements violated ASME 4.134	Field 4-30-76	6-1-76				
417	5-4-76	A. L. Boulden	C-III. Unit #1 Sump. weld in need of repair after pressure test 4.128	Field 3-4-76	No	6-11-76			
418	5-4-76	R. A. Moray	M-104A. Documentation and Code Data Plate on pipe spools ASME 4.164, 4.174, 4.192	Field & MS 5-5-76	5-20-76	6-3-76			
419	5-4-76	H. Boleen	C-233A. Anchor Bolts dimensioned short 1.102	MS 5-5-76	No	5-24-76			
420	5-5-76	H. Boleen	M-120. Valve tagging varies from document marking on MO Valves ASME Varies	MS 76 Field 5-11-76	No	6-11-76	6-15-76		H. Boleen
421	5-5-76	C.H. Nelson	C-210. Ramp north of Aux Bldg, moisture content high. 1.004	Field 5-12-76	5-21-76	6-22-76	6-23-76		L. R. Alberts
422	5-10-76	P. W. Ratter	M-106. Linear Indications on Hanger Welds 4.102	Field 5-19-76	No	6-11-76			
423	5-20-76	P. M. Pitts	M-104. Pipe Spools Air Quenched, not Water Quenched. 4.144 ASME	Field 5-20-76	5-28-76	6-16-76	6-17-76		P. M. Pitts

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12. 7-7-76

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1. PROJECT NO. 7220

NCR NO.	3. ORIG. DATE	4. PREPARED BY	5. NONCONFORMANCE DESCRIPTION/REMARKS	STATUS					
				6. ROUTE	7. DATE XMTD	8. DATE RETD	9. DATE CLOSED	10. CLOSED BY	
424	5-19-76	P. M. Pitts	M-104; Pipe Spools Air Quenched, not Water Quenched 4.104, 4.114, 4.134	Field 5-19-76	5-28-76				
425	5-20-76	R. A. Moray	FPC-16, Decay Heat Removal Heat Exchange purge pressure out of req'ments ASME 4.101, 4.111	B&W 5-28-76 Field 5-21-76	No				
426	5-24-76	P. W. Ratter	10-1FCB-35-H3, Incorrect Fillet Weld 4.102	Field 5-24-76	6-10-76	6-22-76	6-23-76	P. W. Ratter	
427	5-25-76	L. R. Alberts	C-275, Rebar Hooks, Elev. 629'± Aux. Bldg. 1.203	Field 5-25-76	5-27-76	6-10-76	6-10-76	L. R. Alberts	
428	6-2-76	P. M. Pitts	M-106AC; Hanger Material Certifications ASME Various	Field 6-4-76	& 6-18-76				
429	6-3-76	W. Faulkner	C-231, Reinforcing Steel Slab Dowels 624'0" Broken 1.203	Field 6-3-76	No	6-11-76			
430	6-8-76	R. Hendricks	M-104A; Pipe Spool tagging, spool misidentified ASME 1.114	Field 6-8-76	6-10-76				
431	6-10-76	P. M. Pitts	M-104A; Pipe spool Documentation without shop traveler ASME 4.164	MS 6-10-76					
432	6-10-76	L. R. Alberts	C-231 Cadweld Splice Testing 1.104 and 1.204	Field 6-11-76	6-23-76				
433	6-11-76	M. E. Foote	C-231 Dowels exceeding accepted tolerances 5.6 & 7.4 @ 624'0" 1.203	Field 6-11-76	6-30-76				
434	6-11-76	M. E. Foote	C-231. Incorrect spacing of dowels, Aux. Bldg. 5.6 line wall @ 624'0" 1.203	Field 6-11-76	6-23-76				
435	6-11-76	M. E. Foote	C-231. Incorrect spacing of dowels, Aux. Bldg. 'B' Line wall @ 634'0" 1.203	Field 6-11-76	No	6-23-76			

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436	6-11-76	M. E. Foote	C-231, Dowels do not match to slab, Aux. Bldg. 'G' Line wall @ 632'6" 1.203	Field 6-11-76	No	7-6-76			
437	6-11-76	H. Boleen	M-104. G-321-D not received with 90° ELL's ASME 4.185	MS 6-14-76	No	6-29-76	7-6-76	H. Boleen	
438	6-14-76	R. S. Morrow	M-104A. Incorrect info on code dataplate for pipe spool IHBC-124-S616-6-4 ASME 4.164	Field 6-15-76	No	7-6-76			
439	6-14-76	R. S. Morrow	M-104A. Pipe spool delivered w/o venturi assembly IHBC-123-S616-8-2 ASME 4.164	Field 6-15-76					
440	6-15-76	W. M. Pardee	C-50A. Heat Number discrepancies on Slab #8 HT# 81989 1.109	Field 6-15-76	No	6-23-76			
441	6-15-76	H. Boleen	M-120. Incorrect PO Item # on Valves SN 5206-01-1-17 and 5206-01-1-13 ASME	Field 6-16-76	No	7-1-76	7-2-76	H. Boleen	
442	6-15-76	H. Boleen	M-129. G-321-D not traceable to 83 valves ASME	MS 6-17-76					
443	6-15-6	L. R. Albert	C-231. Missing Dowels, Aux. Bldg. at Wall 53 & Kc Line. El. 623'3" & 624'3" 1.203	Field 6-15-76	No	7-6-76			
444	6-15-76	L. R. Albert	C-231 Lack of Reinforcing Diag. Bars on Wall 53, 'H' Line wall, El. 630.75' 1.203	Field 6-15-76					
445	6-16-76	R. S. Morrow	M-106. Hangers fabricated to not-approved Drawings. ASME 4.112, 4.102	Field 6-17-76					
446	6-17-76	H. Boleen	M-104A. No documentation for 26" wrapped & coated piping 20' lngths ASME 4.192	MS 6-17-76	No	6-29-76			
447	6-17-76	H. Boleen	M-104A. No documentation, capping, flanges and coating for 24" & 26" Fittings ASME 4.192	Field 6-18-76					

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2. NCR NO.	3. ORIG. DATE	4. PREPARED BY	5. NONCONFORMANCE DESCRIPTION/REMARKS	6. STATUS					
				6. DATE XMIT	7. DATE REFI	8. DATE REUSE	9. DATE REUSE	10. REUSE BY	
448	6-21-76	P. M. Pitts	M-104A. Documentation for 1HBC-133-S616-7-6 misidentified ASME 4.164	Field 6-22-76					
449	6-22-76	R. S. Morrow	M-106. Incorrect ^{Dwg.} Rev. sent with Hanger 12-1GCB-25-H14 ASME 4.102	Field 6-23-76					
450	6-22-76	R. S. Morrow	M-106. Incorrect ^{Dwg.} Rev. and Bechtel Approval level 4 sent w/ Hangers ASME 4.102, 4.112, 4.162	Field 6-23-76					
451	6-23-76	H. Boleen	M-104A. Venturi lacking from spool 2HBC-123-S617-8-4 ASME 4.174	Field 6-24-76					
452	6-23-76	R. S. Morrow	M-106AC. PipeHanger 18-1HBC-133-H6 fabricated to a Bechtel level 4 sketch ASME 4.162	Field 6-28-76					
453	6-23-76	R. S. Morrow	M-106AC. Incorrect Dwg. Rev. sent with pipe hanger assemblies ASME 4.172; 4.181; 4.341	Field 6-28-76					
454	6-24-76	J. R. Behres	M-204. Incorrect stamping of 26" yard piping. ASME 4.192	Field 6-24-76	No	7-2-76	7-7-76	J. R. Behres	
455	6-24-76	W.M.Pardee	C-111. Heat Number discrepancy on Dome Liner Plate assemblies 1.109	Field 6-24-76					
456	6-28-76	W. M. Pardee	C-111. Shop Assembly Untraceable to Documentation Fit#21302 Slab#10 1.109	Field 6-28-76					
457	6-28-76	W.M.Pardee	M-120. Linear indications found on 16" Valve S/N 3N-641 ASME 4.164	Field 6-28-76					
458	7-1-76	R. S. Morrow	M-106AC. Wrong Dwg. Revs. on Hangers fab. to level 4 dwgs. ASME 4.102, 4.112, 4.172, 4.191	Field 7-1-76					
459	7-6-76	H. Boleen	M-104A. G-321-D not submitted. Sweepolet not capped. ASME 4.192	Field 7-6-76					

RECEIVED

NONCONFORMANCE REPORT

2. DRAWING/PART NO. 7220-M-201		REV. 6	7. PROJECT NO. 7220		12. REPORTED BY <i>[Signature]</i>	DATE 7/11/76	1. PAGE 1 OF 2	14. NCR NO. 381		
3. ITEM DESCRIPTION Shop Fabricated Pipe Spools		8. ITEM LOCATION QC Hold Area		13. VALIDATED BY <i>[Signature]</i>	DATE 7/11/76	25. DISPOSITION CONCURRENCE				
4. SERIAL NUMBER See Block No. 19		9. STARTUP SYSTEM NO. N/A		15. REPLACEMENT PART NO. N/A	REV.	REWORK	REJECT	REPAIR	USE AS IS	DOC
5. PURCHASE ORDER NO. 7220-M-104A-AC Rev. 2		10. QC FIELD INSPECTION PLAN NO. M-104A-R-19 Rev. 0		16. REPLACEMENT SERIAL NO. N/A	PROJECT FIELD ENGINEER <i>[Signature]</i>			DATE 5-28-76		
6. CONTRACTOR/LOCATION ITT Grinnell/Kernersville, S.C.		11. ASME CODE ITEM <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		17. SOURCE Supplier	PROJECT ENGINEER <i>[Signature]</i>			DATE 5-20-76		
18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING <input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR				PROJECT FIELD QC ENGINEER <i>[Signature]</i>			DATE 6-11-76			
19. NONCONFORMING CONDITION:				AUTHORIZE INSPECTOR <i>[Signature]</i>			DATE			

19. NONCONFORMING CONDITION: FIM C-5 Rev. 0 Para. 3.3.4/a/3 - States in part: "Preliminary Inspection: This inspection shall be to ascertain freedom from the following: 3) Environmental damage water or oil marks, damp conditions, dirty areas, or salt film (indicating expose to sea water or winter road salt chemicals). 4) Tie down failure - Shifted, broken, loose or twisted shipping ties, and worn material under ties, indicating improper blocking and tie down during shipment."

Continued on Page No. 2

20. <input type="checkbox"/> FIELD DISPOSITION	<input checked="" type="checkbox"/> FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING	21. FIELD DISPOSITION RESULTS:
Field recommends "Use As Is". Contamination of pipe by weather and winter road conditions was on the pipe coating and has been washed off by recent heavy rains. Loose tie downs rubbed the shop coating and did not penetrate the mill coating. Pipes with loose caps and flange covers have been opened, inspected, secured and sealed. The spools identified as "Not Painted" were painted over 95% of their surface area. (page 3)		

22. ENGINEERING DISPOSITION	23. ENGINEERING DISPOSITION RESULTS:
Bechtel Shop Inspection verifies each load has been properly tied down for shipment prior to release. Loose tie downs, flange covers, and end caps resulting from shipment do not affect acceptability of this material. Engineering concurs with field disposition of all items.	All spools inspected and found conforming. All caps & covers were securely attached. Grinnell Spec P.S. 1236-5 reviewed against requirements.

Syc Tool

24. IS DESIGN CHANGE REQUIRED <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES, SEE ATTACHED:	26. REJECTED MATERIAL DISPOSITION <input type="checkbox"/> RETURN TO SUPPLIER <input type="checkbox"/> SCRAP	27. QC ACCEPTANCE DATE 6-2-76
DRAWING _____ REV. _____ DCN _____	REMARKS	QC ENGINEER <i>[Signature]</i>
SPEC _____ REV. _____ ADD. _____		AUTHORIZED INSPECTOR <i>[Signature]</i>

10098-1

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

QC-G3-2

137111

NONCONFORMANCE REPORT (CONT'D)

Block No. 19 Continued.

7220-M-201)Q) Rev. 6 Para. 6.6.1 Sub. Sec. b - States in part: "A metal cap shall be placed over back opening and sealed to the pipe with at least 3 passes of sealing tape." Para. 6.6.3 - States in part: "Carbon steel flanges shall be sealed with metal or non-metallic disk bolted to the flange." Para. 6.6.6 - States in part: "All external surfaces of carbon steel piping assemblies except machined surfaces, shall be given one shop coat of primer after the ends have been sealed.

Grinnell Spec. PS-1236-4 III/5 - States in part: "The surface shall be grit blasted to near white metal, producing a surface free of all oil, grease, dirt, visible mill scale, rusty corrosion products, oxides, paint or any foreign matter."

Contrary to the above the following was found:

	FILM G 5/0 3.3.4/a/3	FIM G-5/0 3.3.4/a/4	FIM G-5/0 3.3.4/a/4	M-201/2 6.6.1/a	M-201/2 6.6.3/a	M-201/2 6.6.6	Grinnell Spec. PS-1236-4/III/5
	Contamination	Loose Tie Downs	Worn Mat. Under Ties	Loose Caps	Loose Flg. Covers	Not Painted	Not Blasted
2-HBC-131-S617-9-2	X	X	X				X
2-HBC-135-S617-6-1	X	X	X	X			X
2-HBC-135-S617-6-2	X	X	X		X		X
2-HBC-123-S617-6-4	X	X	X		X	X	X
2-HBC-135-S617-8-3	X	X	X				X
0-HBC-50-S617-7-2	X	X	X	X	X		X
0-HBC-50-S617-7-3	X	X	X				X
2-HBC-131-S617-7-3	X	X	X	X		X	X
2-HBC-131-S617-7-4	X	X	X				X
1-HBC-131-S616-9-1	X	X	X		X		X
1-HBC-131-S616-7-2	X	X	X			X	X
1-HBC-123-S616-6-6	X	X	X		X		X
1-HBC-135-S616-6-4	X	X	X			X	X

Noted during receiving inspection, Unit #1, 2 & Common. 13 QC Hold Tags applied. "Q" No. 4.164, 4.174

10098-2

13 hold tags removed
Smith 6-2-76

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

QC-G13

NONCONFORMANCE REPORT (CONT'D)

Block 20 continued: The area not painted is where the pipe was in contact with the support bucks. The areas not shop painted are protected by mill coating and there is no evidence of corrosion. Supplier has been alerted to insure spools are completely painted in the future. Spools are shop coated with ferralox 1500 which does not require surface preparation. Crinnell has revised spec. P-S-1236 to eliminate the grit blast requirement. Revision approved code #1 by engineering on 3-5-76.

Lee Hendrich 9-5-76
M. P. White 4-5-76

BECHTEL

NONCONFORMANCE REPORT

2. DRAWING / PART NO. 7220-M201	REV. 6	7. PROJECT NO. 7220	12. REPORTED BY <i>H. Balce</i>	DATE 2/26/76
3. ITEM DESCRIPTION Shop Fabricated Pipe Spools	8. ITEM LOCATION QC Hold Area	13. VALIDATED BY <i>Manually</i>	DATE 2-27-76	
4. SERIAL NUMBER See Block No. 19	9. STARTUP SYSTEM NO. N/A	15. REPLACEMENT PART NO. N/A	REV.	
5. PURCHASE ORDER NO. 7220-M-104A-AC Rev. 2	10. QC FIELD INSPECTION PLAN NO. M-104A-R-21 Rev. 0	16. REPLACEMENT SERIAL NO. N/A		
6. CONTRACTOR/LOCATION ITT Grinnell, Kernersville, North Carolina	11. ASME CODE ITEM <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	17. SOURCE Supplier		

1. PAGE 1 OF 3	14. NCR NO. 390			
25. DISPOSITION CONCURRENCE				
REWORK	REJECT	REPAIR	USE AS IS	DDI
			<input checked="" type="checkbox"/>	
<i>J. W. Latham</i>	5-28	DATE		
<i>J. W. Latham</i>	5-20-76	DATE		
<i>J. W. Latham</i>	6-1-76	DATE		
<i>J. W. Latham</i>	6-1-76	DATE		

18. ROUTING INSTRUCTIONS: ROUTE TO FIELD ENGINEERING ROUTE TO MATERIAL SUPERVISOR

19. NONCONFORMING CONDITION:
 PIM G-5 Rev. 0 Para 3.3.4 /a/3 - States in part: "Preliminary inspection: This inspection shall be to ascertain freedom from the following: 4) Tie Down Failure - Shifted, broken, loose or twisted shipping ties, and worn material under ties, indicating improper blocking and tie down during shipment." 7220-M-201-Q Rev. 6 Para 6.6.3 - States in part: "Carbon steel flanges shall be with metal or non-metallic disc bolted to the flange." Para 6.6.6 - States in part: "All external surfaces of carbon steel piping assemblies except machined surfaces shall be given one shop coat of primer after ends have been sealed." Continued on Page No. 2

20. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

Field recommends "Use as is". Loose tie downs rubbed the shop coating and did not penetrate the mill coating. The flange cover has been opened, inspected and found satisfactory, secured and sealed. Paint on end prep is assumed to be deoxaluminat. Engineering is requested to evaluate Grinnell's end prep coating and, if acceptable, revise specifications to include coating. If coating is not acceptable notify Grinnell to discontinue its use and conform (continued pg. 3)

22. ENGINEERING DISPOSITION
 Bechtel Shop Inspection verifies each load has been properly tied down for shipment prior to release. Worn coatings and loose flange covers resulting from shipment do not affect acceptability of this material. Engineering concurs with field disposition for end prep deviations. Surface preparation requirements for application of Ferralox 1500 has been resolved as noted. Engineering concurs with use of deoxaluminat application to end preps and will revise M-201 accordingly.

21. FIELD DISPOSITION RESULTS:

23. ENGINEERING DISPOSITION RESULTS:
 Engineering concurs with field disposition for end prep deviations. Surface preparation requirements for application of Ferralox 1500 has been resolved as noted. Engineering concurs with use of deoxaluminat application to end preps and will revise M-201 accordingly.

27. QC ACCEPTANCE
J. W. Latham 6-8-76
 DATE
J. W. Latham 6-1-76
 DATE
 AUTHORIZED INSPECTOR

24. IS DESIGN CHANGE REQUIRED NO YES, SEE ATTACHED:

DRAWING REV. DCN
 SPEC. M-201 REV. 6 DCN SCW #8

26. REJECTED MATERIAL DISPOSITION RETURN TO SUPPLIER SCRAP

REMARKS

NONCONFORMANCE REPORT (CONT'D)

1. PAGE 2 OF 3

14. NCR NO. 390

-Block No. 19 Continued.

-Spec. 7220-M-473 Rev. 4 The chart on page 8 of 9 shows that standard wall thickness will use Type 2 37 $\frac{1}{2}$ ⁰ bevel end preparation. End preparations do not have the required 1/16" land.

Grinnell Spec. PS-1236-4 III 15 - States in part: "The surface shall be grit blasted to near white metal, producing a surface free of all oil, grease, dirt, visible mill scale, rusty corrosion products, oxides, paint or any foreign matter." Contrary to the above the following conditions were found:

	FIM G-5/0 3.3.4 /a/4 (Coatings) Worm Matl Under Ties	M-201/6 6.6.3/a Loose Flg Cover	Grinnell Spec. PS-1236-4/III/5 Not Blasted	M473/4 Pg. 8 of 9 Weld End Prep.	M201/6 6.6.6 Paint on End Prep.
1-HBC-131-S616-7-3	X		X	X	
1-HBC-131-S616-7-4	X		X		X
1-HBC-141-S616-8-3	X		X		X
1-HBC-123-S616-8-1	X		X	X	X
1-HBC-124-S616-6-1	X		X		X
1-HBC-124-S616-6-2	X		X		X
1-HBC-126-S616-6-1			X		X
2-HBC-136-S617-6-1		X	X		
2-HBC-123-S617-6-1A				X	X
2-HBC-124-S617-6-1	X		X		X
2-HBC-141-S617-8-5	X		X	X	X
0-HBC-50-S617-7-4	X		X	X	X

Noted during receipt inspection, Unit 1, 2, and common. 12 QC Hold Tags Applied. "Q" No. 4.164, 4.174

NONCONFORMANCE REPORT (CONT'D)

1. PAGE 3 OF 3

14. NCR NO. 390

Block 20 continued: to M-201 Rev. 6 para 6.6.6. Minor deviation of end preps will be inspected and, if necessary, corrected at the time of fit-up and welding. Pipe is shop coated with Ferralox 1500 which does not require surface preparation. Grinnell spec. P-S-1236 has been revised to eliminate grit blast requirement. Revision approved code #1 by engineering on 3-5-76.

Rev. P. Pulit 4-5-76
M. Pulit 4-5-76

BECHTEL

NONCONFORMANCE REPORT

2. DRAWING/PART NO. M. R. 7220-M-104A	REV. 5	7. PROJECT NO. 7220	12. REPORTED BY P.M. Pitts	DATE 3-2-76
3. ITEM DESCRIPTION Fabricated Spool		8. ITEM LOCATION QC Hold Area AUX BLDG	13. VALIDATED BY [Signature]	DATE 3-2-76
4. SERIAL NUMBER 1-HBC-135-S616-6-4		9. STARTUP SYSTEM NO. N/A	15. REPLACEMENT PART NO. N/A	REV.
5. PURCHASE ORDER NO. 7220-M-104A-AC		10. QC FIELD INSPECTION PLAN NO. N/A	16. REPLACEMENT SERIAL NO. N/A	
6. CONTRACTOR/LOCATION ITT Grinnell Industrial Piping Inc., Kernersville, North Carolina		11. ASME CODE ITEM <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	17. SOURCE Supplier	
18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING <input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR				

1. PAGE 1 OF 2	14. NCR NO. 391			
25. DISPOSITION CONCURRENCE				
REWORK	REJECT	REPAIR	USE AS IS	DOC.
				<input checked="" type="checkbox"/>
[Signature] PROJECT FIELD ENGINEER		DATE 3-12-76		
[Signature] PROJECT ENGINEER		DATE 3-12-76		
[Signature] PROJECT FIELD QC ENGINEER		DATE 4/27/76		
[Signature] AUTHORIZED INSPECTOR		DATE		

19. NONCONFORMING CONDITION:
Form G-321-D Block 24 (Ref. P. O. 7220-M-104A-AC) states - "This form and the Quality Verification Documents referenced hereon have been received and their relationship to the hardware items verified." Contrary to the above the following Quality Verification Documents were not furnished by ITT Grinnell Industrial Piping Inc. for pipe spool No. 1-HBC-135-S616-6-4:

20. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

Route to Field Procurement Supervisor. Field Procurement Supervisor to obtain documentation from ITT Grinnell referred to in Block 19 above.
[Signature] [Signature] 3-9-76

Continued on page 2

21. FIELD DISPOSITION RESULTS:
DOCUMENTS RECEIVED
REVIEWED AND FOUND
ACCEPTABLE
P.M. Pitts 6-23-76

22. ENGINEERING DISPOSITION

Block 21 was not completed as an over sight at the time the documents were recy reviewed and accepted. It was completed 2 day after as indicated by the date.

23. ENGINEERING DISPOSITION RESULTS:

[Signature] 6-24-76

24. IS DESIGN CHANGE REQUIRED
 NO
 YES, SEE ATTACHED:

DRAWING _____ REV. _____ DCN _____
SPEC. _____ REV. _____ ADD. _____

26. REJECTED MATERIAL DISPOSITION
 RETURN TO SUPPLIER
 SCRAP

REMARKS

27. QC ACCEPTANCE
[Signature]
ENGINEER
[Signature]
AUTHORIZED INSPECTOR

6-24-76
6/27/76

ORIGINATOR

Flock No. 19 Continued.

Documentation G-321-D Document Category

- a) Code Data Report (ASME Form NPP-I) 18.1
- b) Certified Material Test Reports 17.1
- c) Weld Rod Control Verification Reports 13.0

Noted During Documentation Review. 1 Hold Tag Applied. "Q" No. 4-17 4.1.6.4
PPH/HR 3-2-74

BR-112

NONCONFORMANCE REPORT

1. PAGE 1 OF 2		14. NCR NO. 395	
25. DISPOSITION CONCURRENCE			
REWORK	REJECT	REPAIR	USE AS IS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROJECT FIELD ENGINEER <i>R. K. Kallengren</i>			DATE 4-23-76
PROJECT ENGINEER <i>Wm. L. Fester</i>			DATE 4-23-76
PROJECT FIELD QC ENGINEER <i>Wm. L. Fester</i>			DATE 4-23-76
AUTHORIZE INSPECTOR <i>Wm. L. Fester</i>			DATE 4-26-76

2. DRAWING/PART NO. Spec. 7220-M-201	REV. 6	7. PROJECT NO. 7220	12. REPORTED BY <i>Wm. L. Fester</i>	DATE 3-11-76
3. ITEM DESCRIPTION Pipe Spools	8. ITEM LOCATION QC Hold Area	13. VALIDATED BY <i>Wm. L. Fester</i>	DATE 3-23-76	
4. SERIAL NUMBER See Block 19	9. STARTUP SYSTEM NO. N/A	15. REPLACEMENT PART NO. N/A	REV.	
5. PURCHASE ORDER NO. 7220-M-104A-AG Rev. 3	10. QC FIELD INSPECTION PLAN NO. M-104A-R-23 Rev. 0	16. REPLACEMENT SERIAL NO. N/A		
6. CONTRACTOR/LOCATION ITT Grinnell, Kernersville, North Carolina	11. ASME CODE ITEM <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	17. SOURCE Supplier		
18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING <input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR				

19. NONCONFORMING CONDITION:
Specification 7220-M-201 Rev. 6 Paragraph 6.6.1 States in part: "A metal cap shall be placed over each opening and sealed to the pipe with at least 3 passes of sealing tape." Paragraph 6.6.3 States in part: "Carbon steel flanges shall be sealed with metal or non-metallic disks bolted to the flange." Contrary to the above, the following pipe spools had loose caps or loose flange covers:

Continued on Page 2

20. <input checked="" type="checkbox"/> FIELD DISPOSITION <input type="checkbox"/> FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING	21. FIELD DISPOSITION RESULTS:
Subject spool end caps and flange covers will be inspected. If the seal is damaged to the extent to allow foreign material to enter the interior of the pipe, the caps or covers will be removed, the spool will be inspected and cleaned, ^{as required} and the caps or covers replaced in accordance with specification 7220-M-201 Rev. 6 paragraphs 6.6.1 and 6.6.3. If the covers are loose but the seal has not been violated, the caps or covers shall be secured as required by the above specification.	All loose caps & covers were inspected & replaced 4-27-76 per P-2-2284. Pipe spools inspected 4-27-76 and all were conforming. Refer to file # 6-2-5
22. ENGINEERING DISPOSITION <i>Don Dredzick 4-23-76</i> <i>Wm. Pulito 4-23-76</i>	23. ENGINEERING DISPOSITION RESULTS:

24. IS DESIGN CHANGE REQUIRED <input type="checkbox"/> NO <input type="checkbox"/> YES, SEE ATTACHED:	26. REJECTED MATERIAL DISPOSITION <input type="checkbox"/> RETURN TO SUPPLIER <input type="checkbox"/> SCRAP	27. QC ACCEPTANCE <i>Wm. L. Fester</i> DATE 4-2-76
DRAWING _____ REV. _____ DCN _____	REMARKS	<i>Wm. L. Fester</i> DATE 6/2/76
SPEC. _____ REV. _____ ADD. _____		AUTHORIZED INSPECTOR

RECEIVED

NONCONFORMANCE REPORT (CONT'D)

1. PAGE 2 OF 2

14. NCR NO 395

Page 1 Continued (Block 19)

- 2-HBC-124-S617-6-4 Loose Caps
- 2-HBC-135-S617-8-2 Loose Caps
- 2-HBC-151-S617-8-1 Loose Flange Covers
- 2-HBC-124-S617-6-3 Loose Flange Covers
- 2-HBC-151-S617-8-2 Loose Flange Covers
- 0-HBC-50-S617-7-1 Loose Flange Covers
- 2-HBC-131-S617-7-7 Loose Flange Covers
- 1-HBC-141-S616-8-1 Loose Flange Covers
- 1-HBC-141-S616-8-5 Loose Flange Covers

Units #1, #2, and Common. Q Nos. 4.164 and 4.174.

9

Hold tags attached.

Nonconformance noted during receipt inspection.

Hold Tags - Nonconform 6-2-76 - JMD

ORIGINAL

BECHTEL

KYDCN

NONCONFORMANCE REPORT

2. DRAWING/PART NO. Spec. 7220-C-230		REV. 6	7. PROJECT NO. 7220		12. REPORTED BY James Sub		DATE 3-31-76	1. PAGE 1 OF 2		14. NCR NO. 403	
3. ITEM DESCRIPTION Quality Verification Documents			8. ITEM LOCATION N/A			13. VALIDATED BY [Signature]		DATE 4-1-76	25. DISPOSITION CONCURRENCE		
4. SERIAL NUMBER N/A			9. STARTUP SYSTEM NO. N/A			15. REPLACEMENT PART NO. N/A		REV.	REWORK		REPAIR
5. PURCHASE ORDER NO. N/A			10. QC FIELD INSPECTION PLAN NO. N/A			16. REPLACEMENT SERIAL NO. N/A			DATE AS IS		DATE
6. CONTRACTOR/LOCATION Champion Inc. Midland, MI			11. ASME CODE ITEM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		17. SOURCE Subcontractor			PROJECT FIELD ENGINEER [Signature]		DATE 6/4/76	
18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING <input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR									PROJECT ENGINEER [Signature]		DATE 5/25/76
									PROJECT FIELD QC ENGINEER [Signature]		DATE 6-7-76
									AUTHORIZE INSPECTOR		DATE

19. NONCONFORMING CONDITION: Specification 7220-C-230 Appendix D states in part, "G-321-D is a multi-purpose form to be used by Buyer/Contractor to specifically identify documents required of the supplier to satisfy specification requirements and is to be used by the Supplier as a cover sheet for Quality Verification Documents when submitting them to the Buyer/Contractor." Contrary to the above, prior to March 31, 1976, Champion Inc. has not used this form as a cover sheet when submitting applicable documents to Bechtel. It should be noted that all Quality Verification Documents required by Specification 7220-C-230 have been submitted by Champion

20. <input type="checkbox"/> FIELD DISPOSITION <input checked="" type="checkbox"/> FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING		21. FIELD DISPOSITION RESULTS:	
Field recommends "use as is" to date and recommends deleting form G-321-D from 2 specification 7220-C-230. Form G-321-D is more applicable for vendors supplying material with extensive quality verification documents. Only form G-321-D should be deleted, the requirement to submit mill certifications and test results shall remain in specification 7220-C-230.		[Signature] 5/5/76	
22. ENGINEERING DISPOSITION See p 2 of 2 for Engineering Disposition		23. ENGINEERING DISPOSITION RESULTS:	
		[Signature] 5-4-76 [Signature] 7/5/76	

24. IS DESIGN CHANGE REQUIRED <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES, SEE ATTACHED:		26. REJECTED MATERIAL DISPOSITION <input type="checkbox"/> RETURN TO SUPPLIER <input type="checkbox"/> SCRAP		27. QC ACCEPTANCE	
DRAWING _____	REV. _____ DCN _____	REMARKS _____		QC ENGINEER [Signature] 6/9/76	
SPEC. _____	REV. _____ ADD _____			DATE _____	
				AUTHORIZE INSPECTOR _____	
				DATE _____	

10088-1

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

QC-G-2

Block 19) and reviewed, signed, dated and properly filed by Bechtel. No Hold Tags Applied. Nonconformance was noted during a review of Specification 7220-C-230, Rev. 6. "Q" No. varies

Block 20-Revised) Field recommends compliance with specification 7220-C-230, Revision 6 requirements pending disposition of QF-93 (Same subject) by Project Engineering.

Block 22: Engineering concurs with field recommendation of compliance with Specification 7220-C-230, Revision 6 with modification per SCN C-230-6002. Reference is made to memo dated 5/27/76 from R. L. Castleberry to J. Connolly, for the disposition of QF-93 by Project Engineering. This item has no safety implication.

Doug W. Knell 5-5-76

JC [unclear] 5-11-76

A. L. Desai 5-28-76

G. A. [unclear] 5-28-76

[unclear]

BECHTEL

NONCONFORMANCE REPORT

1. PAGE 1 OF 2	18. NCR NO. 420
25. DISPOSITION CONCURRENCE	
REWORK	REJECT
REPAIR	USE AS IS
QC	
<i>[Signature]</i>	DATE: 5-28-76
<i>[Signature]</i>	DATE: 6-1-76
<i>[Signature]</i>	DATE: 6-1-76
<i>[Signature]</i>	DATE: 6-1-76

2. DRAWING PART NO. 7220-M-120	Spec.	REV. 3	7. PROJECT NO. 7220	12. REPORTED BY <i>[Signature]</i>	DATE 5-5-76
3. ITEM DESCRIPTION 12" Gate Valves			8. ITEM LOCATION QC Hold Area	13. VALIDATED BY <i>[Signature]</i>	DATE 5-5-76
4. SERIAL NUMBER 2N-620 & 2N-622			9. STARTUP SYSTEM NO. N/A	15. REPLACEMENT PART NO. N/A	REV.
5. PURCHASE ORDER NO. M-120AC Rev. 5			10. ASME HOLDING INSPECTION PLATE NO. QCIR No. R-1.00-60	16. REPLACEMENT SERIAL NO. N/A	
6. CONTRACTOR/LOCATION Anchor/Darling Valve Co., Hayward, CA			11. ASME CODE ITEM <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	17. SOURCE Supplier	
18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING			<input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR		

19. NONCONFORMING CONDITION: Spec. No. 7220-M-120 Para 13.1 states in part, "The following information shall be shown on each tag: (a) Purchase Order Number and Item Number. (b) Valve Identification Number as indicated in the Valve Purchase Orders. (The same number shall appear on any loose or accessory package shipped with the valve.)" Contrary to the above, two 12" Gate Valves (SN# 2N-620 & 2N-622) identity tags from Anchor/Darling's order number 5206-10 did not match the valves documentation package.

Continued on page 2

20. ~~XX~~ FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

Route this NCR to Procurement, Field Procurement Supervisor to obtain correct G-321D and documentation from valve manufacturer. Tags attached to valves are correct.

[Signature] 5-27-76
[Signature] 5-27-76

Turn to page 2 for Revised Block 20.

21. FIELD DISPOSITION RESULTS:

Work completed as stated in block 20 on page 2

[Signature] 5-15-76

22. ENGINEERING DISPOSITION

23. ENGINEERING DISPOSITION RESULTS

24. IS DESIGN CHANGE REQUIRED NO YES, SEE ATTACHED:

DRAWING _____ REV. _____ DCN _____

SPEC. _____ REV. _____ ADD _____

26. REJECTED MATERIAL DISPOSITION RETURN TO SUPPLIER SCRAP

REMARKS

27. QC ACCEPTANCE

[Signature] 6-15-76

QC ENGINEER

[Signature] 6/15/76

AUTHORIZED INSPECTOR

10095-1

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

QC-G3-2

SECRET

NONCONFORMANCE REPORT (CONT'D)

Continuing Block 19

Valve Documentation
Package Tag No.

Valve Tag No.

12" HBB-GT-2MD-1761A-PR	12" HBB-GT-2MD-1761B-PR
12" HBB-GT-1MD-1661A-PR	12" HBB-GT-1MD-1661B-PR

Discrepancy noted during receipt inspection. "Q" number indeterminate. 2 Hold Tags Applied

BLOCK 20 - Revised

The following is to supersede field disposition dated 5/27/76: Attach revised identity tags received from Vendor. Documentation is correct. Refer to purchase memorandum dated 3/12/74 to 7249-M-120, Rev. 5.

Lizy H. P. ... 6-8-76
M. Pulito 6-9-76

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

BECHTEL

RYDEN

NONCONFORMANCE REPORT

1 PAGE 1 OF 4 14. NCR NO. 421

25. DISPOSITION CONCURRENCE N/A

REWORK REJECT REPAIR USE AS IS DCS

AP Boos for T.C. Valenzano 6/22/76

J.H. Hurler for RLC 6/18/76

AUTHORIZED INSPECTOR DATE

2. DRAWING PART NO. Spec. 7220-C-210 REV. 4 7. PROJECT NO. 7220

3. ITEM DESCRIPTION Plant Area Backfill 8. ITEM LOCATION Ramp North of Aux. Bldg

4. SERIAL NUMBER N/A 9. STARTUP SYSTEM NO. N/A

5. PURCHASE ORDER NO. N/A 10. QC FIELD INSPECTION PLAN NO. N/A

6. CONTRACTOR/LOCATION Canonic Construction Co., South Haven, MI 11. ASME CODE ITEM YES NO

12. REPORTED BY C.H. Nelson DATE 5/5/76

13. VACATED BY J. Hurler DATE 5-10-76

15. REPLACEMENT PART NO. N/A REV. N/A

16. REPLACEMENT SERIAL NO. N/A 17. SOURCE Subcontractor

18. ROUTING INSTRUCTIONS: [X] ROUTE TO FIELD ENGINEERING [] ROUTE TO MATERIAL SUPERVISOR

19. NONCONFORMING CONDITION: Specification 7220-C-210, Rev. 4, Para. 12.6.1 states in part, "The water content during compaction . . . shall not be more than 2 percentage points above optimum moisture content . . ." Contrary to the above, during the fall of 1975 a construction access ramp was constructed from material which exceeded the moisture content requirements of Specification C-210. The field forces, including Bechtel Quality Control, were aware that the material exceeded moisture when placed. When the material was placed it was

20. [] FIELD DISPOSITION [X] FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

Recommend "accept as is," subject to Project Engineering review and evaluation. Backfill material has been compacted to not less than 95% of maximum density in accordance with Specification C-210. C.H. Nelson 5/14/76 J. Hurler

21. FIELD DISPOSITION RESULTS:

22. ENGINEERING DISPOSITION Discussion of the background to this condition with Field personnel indicated (1) that the ramp was installed as a temporary means for access into adjacent work areas and not as permanent backfill; and (2) that the Field now wishes to use the ramp as part of the permanent backfill. We understand that should the ramp not be suitable as

23. ENGINEERING DISPOSITION RESULTS:

24. IS DESIGN CHANGE REQUIRED [X] NO [] YES, SEE ATTACHED: DRAWING REV. DCH SPEC REV. ADD.

26. REJECTED MATERIAL DISPOSITION [] RETURN TO SUPPLIER [] SCRAP REMARKS

27. QC ACCEPTANCE [Signature] 6/23/76 QC ENGINEER DATE AUTHORIZED INSPECTOR DATE

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

REBITE

NONCONFORMANCE REPORT (CONT'D)

PAGE 2 OF 4

14-N-R NO. 421

Block 19 Continued -

considered temporary fill for construction access. The field now wishes to leave this material in place.

With the exception of the moisture content requirement, the material meets all requirements of Specification C-210. The testing frequency was maintained and the compaction test results are as shown on the following list:

Block 22 Continued:

permanent backfill it can readily be removed. Hence Engineering submits that a non-conforming condition does not exist since the ramp is still a temporary facility.

Engineering suggests that if the Field wishes to use the ramp as part of permanent backfill, they request Engineering approval via an FCR.

6-18-76
GA P. J. J. J.

REWORK

NONCONFORMANCE REPORT (CONT'D)

Block 19 Continued -

Test No	Date	Location	Elev.	Moisture Content (%)	Optimum Moisture	% Above Optimum	Percent Compaction
MD-490*	10-31-75	356° Cont #1, 76' off wall	631'	14.8	10	4.2	95
MD-492*	10-31-75	356° Cont #1, 79' off wall	631'	12.9	10.6	2.3	96
MD-512	11-13-75	45° Cont #2, 95' off wall	610'	14.2	9.8	4.4	98
MD-513	11-13-75	28° Cont #2, 100' off wall	615'	13.5	9.8	3.7	98
MD-514**	11-13-75	356° Cont #1, 76' off wall	631'	12.6	10.6	2.0	100
MD-524	11-17-75	25' E. 4.55 line, 90' N. "A" line	630'	14.4	9.8	4.6	97
MD-525	11-17-75	75' N. "A" line @ 6.5 line	627'	15.2	9.8	5.4	98
MD-526***	11-17-75	85' N. "A" line @ 8.7 line	624'	16.4	9.8	6.6	93
MD-527	11-17-75	28° Cont #2, 110' off wall	619'	14.7	9.8	4.9	97
MD-530	11-18-75	365° Cont #1, 115' off wall	633'	13.9	9.8	4.1	96
MD-531	11-18-75	31' E. 4.55 line, 88' N. "A" line	632'	14.3	9.8	4.5	98
MD-532	11-18-75	108' N. "A" line @ 7.8 line	628'	16.6	13.7	2.9	96
MD-533	11-18-75	87' N. "A" line @ 8.7 line	624'	14.5	9.8	4.7	96
MD-534	11-18-75	68' N. "A" line @ 8.7 line	624'	16.9	13.7	3.2	99
MD-535**	11-18-75	25° Cont #2, 90' off wall	620'	14.8	9.8	5.0	98
MD-536**	11-18-75	45° Cont #2, 95' off wall	615'	15.1	9.8	5.3	94
MD-537	11-18-75	90° Cont #2, 85' off wall	610'	14.9	9.8	5.1	95
MD-539	11-19-75	45° Cont #2, 97' off wall	615'	11.9	9.8	2.1	97

Notes:

* This area reworked and retested: See test No. MD-514

** Moisture and Compaction pass: clears MD-490 and MD-492

*** This area reworked and retested: See test No. MD-533 for passing compaction

** This area reworked and retested: See test No. MD-539 for passing compaction

See page 3 for location sketch.

11/11/54

DATE 11/11/54

DESIGN BY C. H. [unclear] DATE

CHECKED BY

SHEET NO 1 of 4

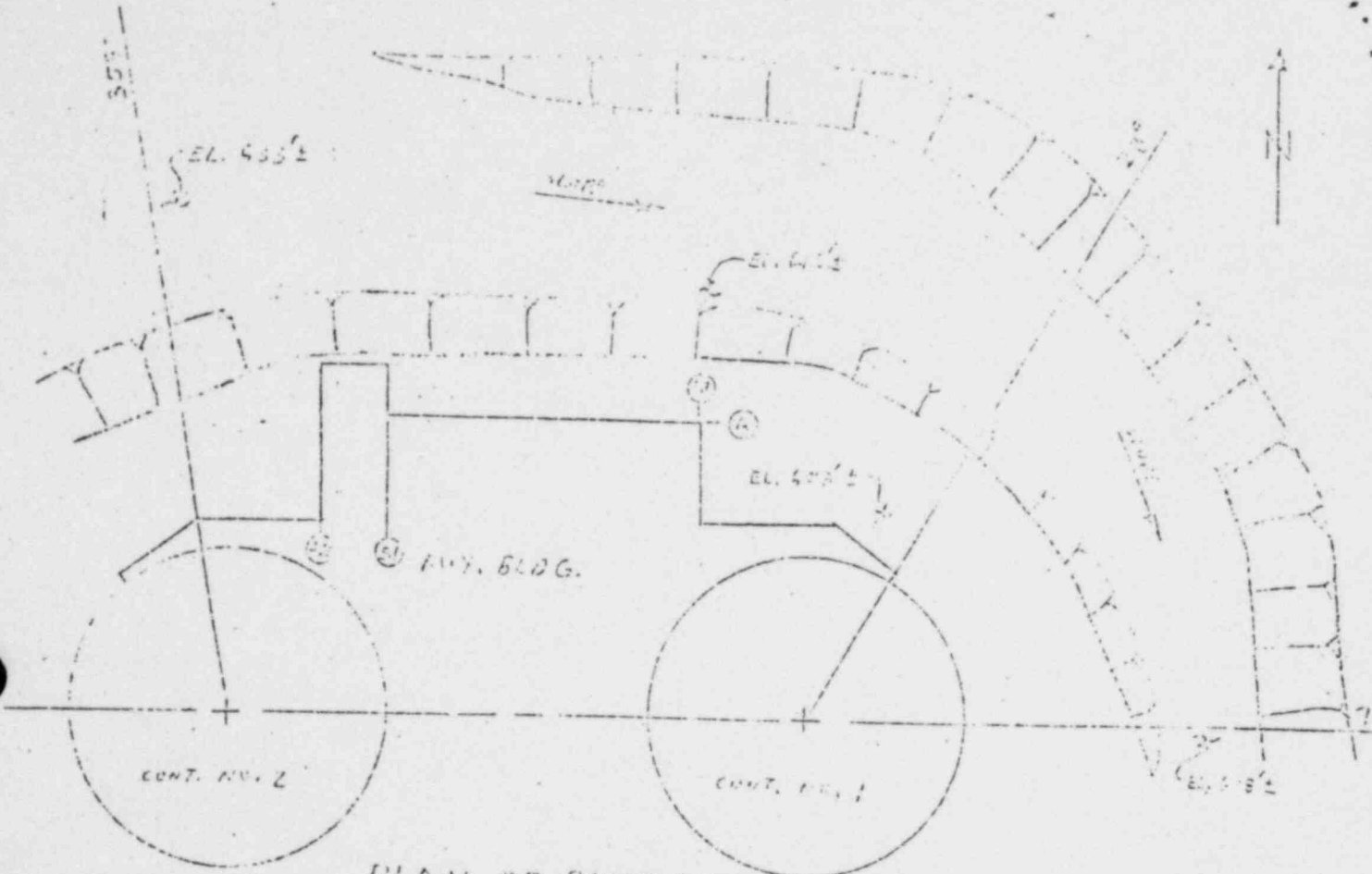
PROJECT [unclear]

NCR # 421 Page 3 of 4

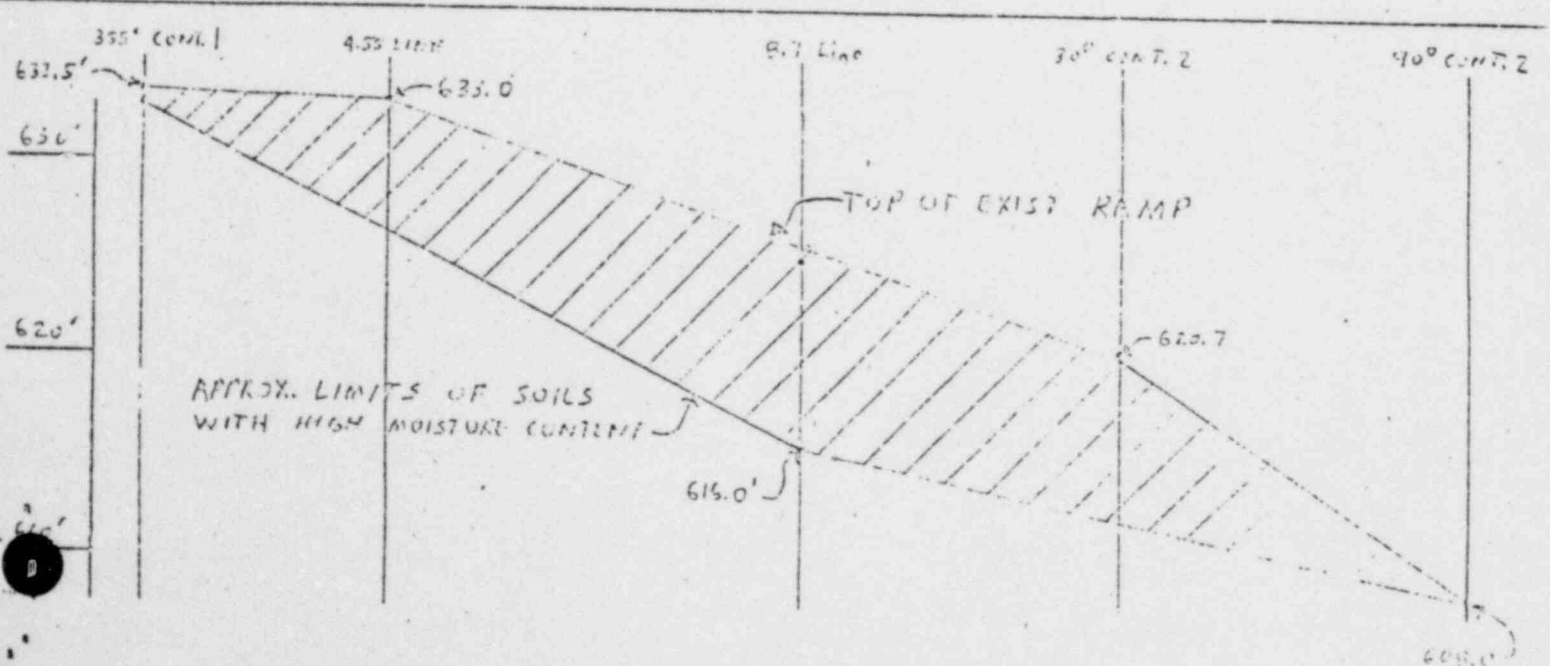
JOI NO 1226

SUBJECT [unclear]

FILE NO



PLAN OF RAMP AREA
N.T.S.



PROFILE OF RAMP AREA
N.T.S.

BECHTEL

NONCONFORMANCE REPORT

2. DRAWING/PART NO. 7220-M-614 Sht. 7		REV. 3/F1	7. PROJECT NO. 7220		12. REPORTED BY P.M. Pitts	DATE 5-15-76	1. PAGE 1 OF 3	14. NCR NO. 423
3. ITEM DESCRIPTION Component Cooling System		8. ITEM LOCATION Embedded		13. VALIDATED BY A. Conolly		DATE 5-11-76	25. DISPOSITION CONCURRENCE	
4. SERIAL NUMBER See Block 19		9. STARTUP SYSTEM NO. N/A		15. REPLACEMENT PART NO. N/A		REV.	REWORK	REJECT
5. PURCHASE ORDER NO. 7220-M-104-AC		10. QC FIELD INSPECTION PLAN NO. M-204-2-614-7C Rev. 0		16. REPLACEMENT SERIAL NO. N/A			REPAIR	USE AS IS
6. CONTRACTOR/LOCATION ITT Grinnell, Kernersville, NC		11. ASME CODE ITEM <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		17. SOURCE Engineering			DOE	
18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING <input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR								

19. NONCONFORMING CONDITION:
 SCN #7 to Spec. M-201 Rev. 6 Para 6.2.1.d states in part . . . "All austenitic stainless steel material shall be in the solution heat treated water quenched condition . . ." The following pipe spools were fabricated utilizing an air quenching process prior to the incorporation in the procurement Spec. (M-201) of the water quench requirement (SCN #7 to M-201). Reference to IOM BEBC-1001 attached.

Continued on Page 2

20. <input type="checkbox"/> FIELD DISPOSITION <input checked="" type="checkbox"/> FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING		21. FIELD DISPOSITION RESULTS:	
Route to Project Engineering for disposition. Contrary to Block 19 note 1, spools OHCC-15-S614-7-4 and OHCC-12-S614-7-3 are installed but not embedded.			
22. ENGINEERING DISPOSITION Material as installed is acceptable based on the following: 1. This piping is embedded in Q-listed concrete so a failure by cracking would not prevent the functioning of the system. 2. Even if a failure is assumed to result in complete loss of function of the Fuel Pool Cooling System there would be no adverse effect on the safe operation of the plant. The spent fuel pool is serviced by redundant connections to the Q-listed, seismically qualified Service Water System. These connections will assure proper cooling of any spent fuel stored in the pool.		23. ENGINEERING DISPOSITION RESULTS:	

24. IS DESIGN CHANGE REQUIRED <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES, SEE ATTACHED:		26. REJECTED MATERIAL DISPOSITION <input type="checkbox"/> RETURN TO SUPPLIER <input type="checkbox"/> SCRAP		27. QC ACCEPTANCE	
DRAWING _____ REV. _____ DCN _____	SPEC. _____ REV. _____ ADD. _____	REMARKS		P.M. Pitts	6-17-76
				A. Conolly	6-11-76

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

QC-G3-2

SECRET

NONCONFORMANCE REPORT (CONT'D)

Block 19 Continued

OHCC-15-S614-7-1

OHCC-15-S614-7-2

OHCC-15-S614-7-3

OHCC-15-S614-7-4

OHCC-12-S614-7-1

OHCC-12-S614-7-2

OHCC-12-S614-7-3

Notes: 1. These pipe spools were installed, tested, insulated and embedded in concrete (See Field Inspection Plan M-204-2-614-7C, Rev. 0)

2. Q. Number is 4, 1/4

3. Two QC Hold Tags Applied

4. This condition was discovered and reported by Project Engineering during a generic investigation of the use of air quenched stainless steel materials.

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

Bechtel Associates Professional Corporation
Inter-office Memorandum

To J. F. Newgen Date May 13, 1976
 Subject Midland Plant - Units 1 & 2 From R. L. Castleberry
 Job 7220
 Air-Quenched Stainless Steel Piping Of Engineering
 File: 0274, 0545 w/a
 Copies to J. Connolly w/a At Ann Arbor
 L. Sokol
 T. VanVick w/a

Bechtel 1001

It has come to our attention that 23 ASME stainless steel pipe spools which have been shipped to the site were fabricated using methods contrary to current revised specification requirements. The spools are listed on the attached draft NCR's. Should you or the PFQCE feel an NCR(s) is appropriate to document the situation and assure control of the spools, Engineering requests that the attached drafts be used.

We are actively pursuing this matter with Grinnell, although we do not as yet have a schedule for resolution. Should there be any questions, please contact Mike Rothwell.

R. L. Castleberry
R. L. Castleberry

JLH/ld
attachment

ROUTE	QC 07220	INIT.
	PFQCE	
	A. PFOCE	
	CIVIL	
	ELECT.	
	PIPING	
	MECH.	
	WELDING	
	DOC.	
	RECEIVING	
OPEN LOOP		
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
DATE _____		

RECEIVED

MAY 17 1976

QUALITY CONTROL
BECHTEL JOB 7220

SIGNATURE *[Signature]*

Pages 3 of 3
NCR #423

NONCONFORMANCE REPORT

1. PAGE 1 OF 2	14. NCR NO. 426
2. DRAWING/PART NO. Grinnell 1-610-6-3	12. REPORTED BY Paul W. Latta
3. ITEM DESCRIPTION	13. VALIDATED BY
4. SERIAL NUMBER	14. DATE 5/24/76
5. PURCHASE ORDER NO. 10-1FCB-35-H3	15. REPLACEMENT PART NO. N/A
6. CONTRACTOR/LOCATION 7220-M-106-AC	16. REPLACEMENT SERIAL NO. N/A
7. PROJECT NO. 7220	17. SOURCE Construction
8. ITEM LOCATION 580' 16" el. Aux.	18. ROUTE TO MATERIAL SUPERVISOR
9. STARTUP SYSTEM NO. N/A	19. NONCONFORMING CONDITION: Visual inspection by QC of the weld which connects item #1 to item #2 (Grinnell drawing 1-610-6-3) revealed a complete fillet weld all around item #1. The Project Engineering approved drawing calls for a fillet weld only on two (2) sides of item #1. Reference attached drawing. Q Number is 4.102
10. QC FIELD INSPECTION PLAN NO. QCIR-M-326-11V	20. FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING
11. ASME CODE ITEM NO. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	21. FIELD DISPOSITION RESULTS: Use as is.
12. PROJECT FIELD ENGINEER	22. ENGINEERING DISPOSITION
13. PROJECT ENGINEER	23. ENGINEERING DISPOSITION RESULTS: Eng. agrees with the field disposition to "USE AS IS." The extra fillet weld only adds additional load carrying capacity & gives a higher safety factor at this junct'n.
14. PROJECT FIELD QC ENGINEER	24. IS DESIGN CHANGE REQUIRED <input checked="" type="checkbox"/> YES, SEE ATTACHED: <input type="checkbox"/> NO
15. AUTHORIZED INSPECTOR	25. DISPOSITION CONCURRENCE
16. DATE	26. RETURN TO SUPPLIER <input type="checkbox"/> RETURN TO SUPPLIER <input type="checkbox"/> SCRAP
17. DATE	27. ACCEPTANCE DATE 6/23/76
18. DATE	28. REJECTED MATERIAL DISPOSITION
19. DATE	29. AUTHORIZED INSPECTOR

Visual inspection by QC of the weld which connects item #1 to item #2 (Grinnell drawing 1-610-6-3) revealed a complete fillet weld all around item #1. The Project Engineering approved drawing calls for a fillet weld only on two (2) sides of item #1. Reference attached drawing. Q Number is 4.102

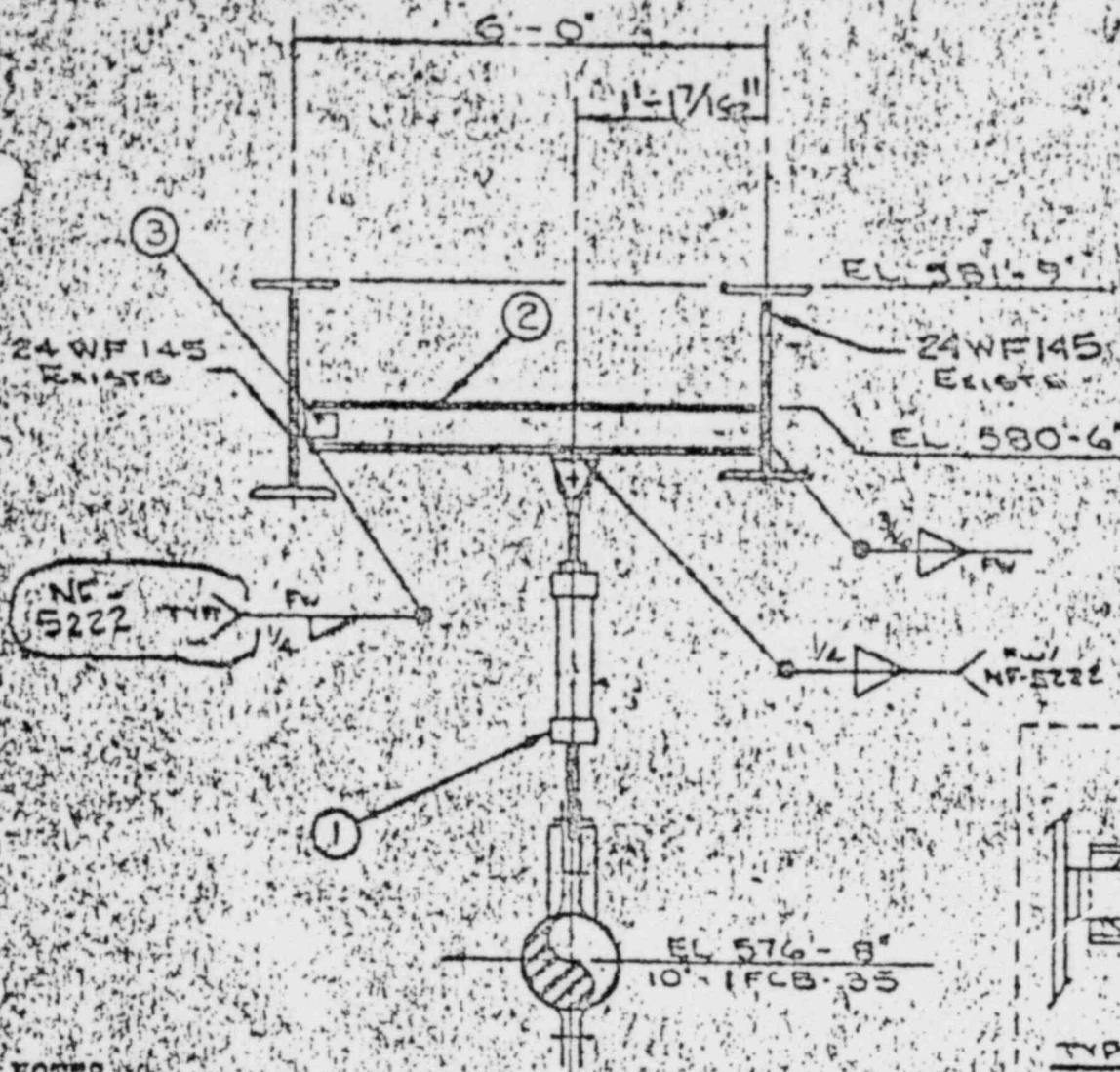
1 Hold Tag Applied

Use as is.

ENG. AGREES WITH THE FIELD DISPOSITION TO "USE AS IS." THE EXTRA FILLET WELD ONLY ADDS ADDITIONAL LOAD CARRYING CAPACITY & GIVES A HIGHER SAFETY FACTOR AT THIS JUNCT'N.

White Copy - Originator
 Green Copy - Field Engineer
 Pink Copy - PQAE
 Goldendred Copy - QC

NCR 1-5
PAGE 2 of 2



NOTES

- 1) All tolerances in accordance with QCP #24001 U.N.O.
- 2) Fab. Procedure is FH-101-10
- 3) All products designed in accordance with EPL File No. 1 Rev. 1

HANGER CODE	
DISTRIBUTION	
24 WF 145	QCP
VERDON	R-1
CEBY	R-1
FELI	R-1
ACC	
STR	
CIVIL	
RECORD	DA
BECHTEL	

PIPE ISO. H10
DATA POINT 1
PIPE MAT'L. SA
INSUL 2"



THIRD PARTY INSPECTION
CODE CLASS: ANY

BECHTEL

NONCONFORMANCE REPORT

2. DRAWING/PART NO. 7220-C-275		REV. 3	7. PROJECT NO. 7220		12. REPORTED BY <i>E.R. Cooper</i>	DATE 5-25-76	14. NCR NO. 427
3. ITEM DESCRIPTION Reinforcing Bars			8. ITEM LOCATION Aux. Bldg. Elev. 632'6"		13. VALIDATED BY <i>M. Kennedy</i>	DATE 5-25-76	25. DISPOSITION CONCURRENCE
4. SERIAL NUMBER N/A			9. STARTUP SYSTEM NO. N/A		15. REPLACEMENT PART NO. N/A		REWORK
5. PURCHASE ORDER NO. N/A			10. QC FIELD INSPECTION PLAN NO. N/A		16. REPLACEMENT SERIAL NO. N/A		REJECT
6. CONTRACTOR/LOCATION N/A			11. ASME CODE ITEM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		17. SOURCE Construction		REPAIR
18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING							USE AS IS
							DOC

PROJECT FIELD ENGINEER
[Signature] 6-9-76
DATE

PROJECT ENGINEER
[Signature] 6-8-76
DATE

PROJECT FIELD QC ENGINEER
[Signature] 6-10-76
DATE

AUTHORIZED INSPECTOR
DATE

19. NONCONFORMING CONDITION: Drawing 7220-C-275 Rev. 3 in Sections D, E, and L shows certain #11 and #8 reinforcing bars standard hooks oriented down into the wall below the construction joint at Elev. 629' ±. Field Construction elected to install these bars with standard hooks extending up into the slab above. CCo QA has identified this condition as nonconforming in their NCR 0F-100. The identification of this condition as nonconforming was reiterated by CCo's reply to Bechtel's initial response to 0F-100. All reference correspondence is attached. Four Hold Tags applied. "Q" List No. 1.203.

20. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

By note #5 on Drawing #C-140, Project Engineering has established that detailing & fabrication of reinforcing steel shall be according to the current ACI Manual of Standard Practice. The ACI 315 Manual for Detailing clearly provides that a 90° bend hook indicated without dimensions on the design drawing is a standard hook per ACI 318 sect 7.1. The purpose of these hooks is understood by field civil? (contd)

21. FIELD DISPOSITION RESULTS:

22. ENGINEERING DISPOSITION
For the # 11 and # 8 rebars described in this NCR, the hook orientation to either extend upwards or down into the wall satisfies the design requirements of Section D, E and L of Drawing C-275, Revision 3. This disposition is consistent with the design intent shown in Standard Concrete Detail 2, Drawing C-140 (which is similar to ACI 315-74, figure 2-9) wherein alternate hook end orientations are shown (contd)

23. ENGINEERING DISPOSITION RESULTS:

24. IS DESIGN CHANGE REQUIRED NO
 YES, SEE ATTACHED:

DRAWING _____ REV. _____ DCN _____

SPEC _____ REV. _____ ADD. _____

26. REJECTED MATERIAL DISPOSITION RETURN TO SUPPLIER
 SCRAP

REMARKS

27. QC ACCEPTANCE
[Signature] 6/10/76
QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

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

Block 20:

engineers to develop the strength of each reinforcing bar which requires them. For some configurations, the design engineer may require specific orientation or special lengths for hooks; however, ACI 315 requires that these special conditions be shown on the design drawings. To assure that design is complying with ACI 315 and to confirm the field engineering interpretation, a telephone call from Field to Project Engineering was made 4/29/76. (See attached memo). Project Engineering stated that special cases have been indicated by dimensions or notes on the design drawings.

The Field Engineering interpretation of the design drawings and decision to orient the hooks to facilitate construction did not violate existing design requirements, and was not an extension of Field Engineering responsibility beyond established guidelines.

Therefore, this is not a nonconforming condition.

Frank G. Jorgensen 5/26/76

Block 22: Engineering Disposition (Contd.)

as acceptable. To resolve any doubts as to this design intent, DCN 9 to Drawing C-140, Revision 8 was recently issued adding notes 17 and 18 to Drawing C-140. Engineering holds that the described installation is not non-conforming and hence has no deleterious impact on plant safety. *gch*

A. A. P. 6-8-76

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640



May 10, 1976

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

Attention: J. L. Corley

Ref: CPGO NCR No. QF-100
Dated: 5/4/76
FQCL-070

Dear Mr. Corley:

The Midland Construction Quality Control program for controlling nonconforming items in accordance with criteria XV of 10CFR50, Appendix B is described in FIM Procedure G-3. This procedure defines a nonconformance as:

"A deficiency in characteristic, documentation or procedure which renders the quality of an item unacceptable or indeterminate".

The condition noted in Block 12 of the activity/task 2.60 on FIP C-231-2-858 is not nonconforming in accordance with the above definition. It is an explanatory note pointing out the option was exercised of installing the bars in the subsequent slab pour rather than in the wall placements below. In other words, it was decided the dowels would be installed with the tails up rather than down. This was a conscious decision made with knowledge beforehand by the responsible field engineer and concurred with by the responsible QC engineer as permitted by paragraph 3.3(a) of FIM Procedure G-1 which states in part:

"Field engineers . . . have the following responsibilities:

- a. Interpretation and clarification of drawings and project specifications through liaison with discipline design engineers."

The Project response to Regulatory Guide 1.55 and associated NRC question 130.5 clearly indicates the propriety of the manner in which Field Engineering handled the rebar in question. At my request Project Engineering has reviewed this situation and agrees that the field made a proper interpretation of the design drawing. Further, to prevent future controversy, Project Engineering has revised Drawing C-140 to note that standard hooks may be oriented at the Field's discretion unless otherwise noted.

Mr. J. L. Corley
May 10, 1976
Page No. 2

In view of the above, the conditions described in QF-100 do not constitute a nonconforming condition and therefore the recommended corrective action of issuing a NCR is not applicable. We will continue to schedule periodic training sessions covering the implementation of FIM Procedure G-3 as appropriate, just as we have in the past.

Sincerely,



J. P. Connolly
PFQCE

JPC/jmw

cc: T. C. Cooke
bcc: J. Newgen
G. Richardson *DR 5/13/76*
R. Hermeston
P. Martinez
R. Castleberry
W. Holub
D. Johnson

Route To	This Copy For
FMSouthworth	SHHowell
CQHills	GSKeeley
HWSlager	TCCooke
	JMilandin
	WFHolub
	GLRichardson
	ZGTucker



Consumers Power
 Nonconformance
 Report No QF-100

File 16.3.6
 Issue Date May 4, 1976
 Project Midland 1 & 2
 File Title NCR's on Bechtel
Quality Control

This Nonconformance Report is Issued To:

J. P. Connolly ✓
 Bechtel PFQCE

Prepared By J.H. Bechtel Date 5-4-76

Approved By J.E. [unclear] Date 5/4/76

Written Reply Requested By Date 5/17/76

Corrective Action Requested By Date 6/4/76

who is responsible for corrective action.

Nonconformance Description and Supporting Details:

See Attachment A.

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MAY 04 1976

QUALITY CONTROL
 BECHTEL JOB 7220

SIGNATURE [Signature]

AEC Reportable Yes No See Procedure 9 (For Nuclear Projects Only)

Stop Work Necessary Yes No See Procedure 16 - Stop Work No _____

Recommended Corrective Action:

See Attachment A.

1 Corrective Action Taken:

1 Verification of Corrective Action Required Yes No

1 Method of Verification:

1 Nonconformance Closure Confirmed By _____
 Date _____

ROUTE	QC 07220	INIT.
	PFQCE	
	A. PFQCE	
	CIVIL	
	ELECT.	
	PIPING	
	MECH.	
	WELDING	
	DOC.	
	RECEIVING	
OPEN LOOP		
<input type="checkbox"/> YES <input type="checkbox"/> NO		
DATE _____		

To be completed at time of closure by Consumers Power QA Services.

File 16.3.6
Issue Date May 4, 1976
Project Midland 1 & 2
File Title NCR's on Bechtel
Quality Control

7 aq. 507 6 1/2
NCR # 427

Attachment A to Report No QF-100

Nonconformance Description and Supporting Details:

Criterion XV of 10CFR50(B) states: "Measures shall be established to control materials, parts, or components which do not conform to requirements in order to prevent their inadvertent use or installation. These measures shall include, as appropriate, procedures for identification documentation, segregation, disposition, and notification to affected organizations. Nonconforming items shall be reviewed and accepted, rejected, repaired, or reworked in accordance with documented procedures".

Contrary to these requirements, a nonconforming condition was noted in Block 12 of Activity/Task 2.60 on Field Inspection Plan C-231-2-858 with no nonconformance report written. Furthermore, this condition was not "reviewed and accepted in accordance with documented procedures".

Recommended Corrective Action:

1. Write a nonconformance report to cover the nonconforming condition in the referenced inspection plan.
2. Receive disposition from Project Engineering including engineering rationale for use as is if that is the disposition received.
3. Review all completed Field Inspection Plans for exceptions which have not resulted in NCR's and, if any are found, proceed as in items #1 and #2 above.
4. Instruct all QCE's in the requirements of Criterion XV and the necessity of following it.



Consumers
Power
Company

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

May 17, 1976

Mr. J. P. Connolly
Bechtel Power Corp.
P.O. Box 2167
Midland, MI 48640

MIDLAND PROJECT - NCR QF-100
File: 16.3.6 Serial: 52FQA76

Contrary to your letter FQCL-070 dated May 10, 1976, the condition noted in block 12 of Activity/Task 2.60 in Field Inspection Plan C-231-2-858 does represent a nonconforming condition in that the drawings were not followed. Also while the Field Engineer does have the authority to interpret or clarify drawings, he does not have the authority to change them. It should be noted that Webster's New Collegiate Dictionary, copyright 1973, defines interpret as "to explain or determine the meaning of" and defines clarify as "to make clear; to free of confusion; to make understandable". What was done by the Field Engineer in this case did not meet the definition of either clarify or interpret. It should be noted, however, that with the change you reference which was made by Project Engineering to drawing C-140, he would now be allowed to make such a decision within the framework of FIM Procedure G-1.

While we are not saying that the hook bars in question could not have been turned, we are saying that the manner in which you proceeded with respect to them did violate Criterion XV of 10CFR50, Appendix B. Therefore, our position on corrective action remains unchanged.

We have now officially stated your position on this NCR and we have, by this letter, rejected it. We feel it is now time to get on with the corrective action outlined in our NCR. It appears that you still have sufficient time to implement this recommended corrective action. However, if you do not, please let us know so that we may grant you a time extension if warranted.

QC 07220
PFOCE
A. PFOCE
CIVIL
ELECT.
PIPING
MECH.
WELDING
DOC.
RECEIVING
WALSH
OPEN LOOP
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
DATE 5-26-76
CC:

L. Corley
 L. Corley
 Quality Assurance Superintendent

CC: TCCooke
 GSKeeley
 HWSlager
 FMSouthworth
 GLRichardson
 ZGTucker

RECEIVED

MAY 17 1976

QUALITY CONTROL
BECHTEL JOB 7220
SIGNATURE *[Signature]*

ATTN: G. TUVESON

cc G. Tuveson - A

J.P. Connelly



Page 3
NCR 427

Telephone call

BY T. Valenzano OF _____ ROUTE O'Holman
 TO Gordon Tuveson OF A A Boos
 DATE 4.29 76 TIME am J. Damm
 SUBJECT Rebar tail orientation (hook bars) JOB NO. 7220 0
H. Mailby

Called Gordon to verify field approach to rebar dowel tail orientation. That is, unless otherwise noted, standard hooks on rebars could be oriented to facilitate construction efforts.

Gordon agreed on this approach.

We then discussed other than std. hooks or orientation reqs, and agreed to evaluate further any need for added notes or dimensions.

11/11/73

Page 1 of 14
PM Peter 7-9-76

NONCONFORMANCE REPORT

2. DRAWING/PART NO. See Block 19		REV.	7. PROJECT NO. 07220	12. REPORTED BY T.M. Pitta	DATE 5-28-76	1. PAGE 1 OF 14	14. NCR NO. 428
3. ITEM DESCRIPTION Fasteners for Pipe Hangers, Supports, & Restraints		8. ITEM LOCATION Various Storage & Installation Locations		13. VALIDATED BY H. J. [Signature]	DATE 5-28-76	25. DISPOSITION CONCURRENCE	
4. SERIAL NUMBER See Block 19		9. STARTUP SYSTEM NO. N/A		15. REPLACEMENT PART NO. N/A		REWORK	
5. PURCHASE ORDER NO. 7220-M-106AC		10. QC FIELD INSPECTION PLAN NO. See Block 19		16. REPLACEMENT SERIAL NO. N/A		REJECT	
6. CONTRACTOR/LOCATION ITT Grinnell Corp., Warren, Ohio		11. ASME CODE ITEM <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		17. SOURCE Supplier		AIR	
18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING						USE AS IS	
						DOC	

Project Field Engineer: [Signature] DATE: 7-8-76

Project Engineer: [Signature] DATE: 7-8-76

Project Field QC Engineer: [Signature] DATE: 7-8-76

Authorize Inspector: [Signature] DATE: 7/9/76

19. NONCONFORMING CONDITION: ASME Section III 1974, Para. NA 3767.4 (referenced through Specification 7220-M-209 and ASME Section III, Para. NF 2130 and NF 4121.1) states in part. . . "A Material Manufacturers Certificate of Compliance with the material specification, grade, class, and heat treated condition, as applicable, may be provided in lieu of a Certified Materials Test Report for. . . bolting 1 inch diameter and less. Material identification including any marking code shall be described in the Certified Materials Test Report or Certificates of Compliance as applicable."

(Continued on Page 2)

20. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

Item 1. Field Disposition: This item is not a nonconformance. Code case 1651 and article NF 4121 applies which covers certificates of compliance furnished by component support manufacturer. ITT Grinnell has furnished certificates of compliance in accordance with code case 1651 & NF 4121.

21. FIELD DISPOSITION RESULTS:

22. ENGINEERING DISPOSITION

Item 2. This item is not a nonconformance. The fact that the nuts are unmarked does not constitute a nonconformance. ITT Grinnell's QA-program assures that the nuts conform to those specified by ITT Grinnell engineering department's design. In the case in question, ITT Grinnell's engineering elected to use an SA-307 grade A or B carbon steel nut with an SA-193 B7 (Alloy Steel) stud because of the principal shear loading conditions. (Continued on attached sheet) 3A/B

23. ENGINEERING DISPOSITION RESULTS:

Accepted per
Project Engineering
Disposition is
PM Peter 7-9-76

24. IS DESIGN CHANGE REQUIRED <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES, SEE ATTACHED:	26. REJECTED MATERIAL DISPOSITION <input type="checkbox"/> RETURN TO SUPPLIER <input type="checkbox"/> SCRAP	27. QC ACCEPTANCE T.M. Pitta 7-9-76 [Signature] 7/9/76
DRAWING _____ REV. _____ DCN _____	REMARKS _____	AUTHORIZED INSPECTOR _____ DATE _____
SPEC. _____ REV. _____ ADD. _____		

NONCONFORMANCE REPORT (CONT'D)

1 PAGE 2 OF 7 14. NCR NO. 428

1-22-87-14
RM 7-7-76
3-7-76
6-7-76
7-16-76
11-7-76

Block 19 Continued.

6. The following conditions contrary to the above exist on all assemblies furnished to date under Purchase Order 7220-M-106AG:

- a) Material Certificates of Compliance do not specify material specifications, grades, classes or types used in fabrication.
 - b) Material Certificates of Compliance do not specify the means of material identification including the marking code utilized.
2. Hex nuts furnished with stud-bolts marked 'B-7' (ASME SA-193) are not identified as required by ASME SA-193 para. 13.1 and ASME SA-194 para. 13a and 13b.
3. No material identification marking or description is provided for the following additional types of fastener materials:
- a) ~~Retainer clips, 'C' type~~ *NOT APPLICABLE H.D. Notes 6-7-76*
 - b) Hex head bolts and nuts for pipe clamps
 - c) Miscellaneous hex nuts

Page 1, Blocks 2, 4, and 10

Hanger	Field Inspection Plan	Location
10-1FCB-35-H3	M-204-2-GH-610-6	Final Location
10-1FCB-35-H5		
18-1GCB-33-H6	M-204-2-GH-610-3	
12-2GCB-25-H11	M-204-2-GH-611-5	Final Location
18-2GCB-33-H3		
18-2GCB-33-H4		
18-2GCB-33-H6		

Continued on Page 3

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

Page 3 of 4
M.P. 7976
M.P. 6176

NONCONFORMANCE REPORT (CONT'D)

1 PAGE 3 OF 4

12 NCR NO. 428

Block 19 Continued, Page 1, Blocks 2, 4, and 10

6-1FCB-20-H1	M-204-2-GH-610-4	Final Location
10-1FCB-43-H3		
10-1FCB-43-H2		
10-1FCB-43-H1		

Note: Other nonconforming hanger assemblies located in storage warehouse AND AUXILIARY BUILDING
SEE ATTACHED LIST AT HANGER ASSEMBLIES

Nonconformance noted during installation inspection. Q list number - Various. *100 AND 7, 6-16-76*
24 Hold Tags Applied.
107 M.P. 6176 6-16-76

BLOCK 20 continued from page 1

Item #2 & 3 - Route to Project Engineering. ~~ASME III Para. NA-3766.6 states that bolts and nuts 1" nom. diameter~~
~~a smaller where the space available for marking is less than 1" in any direction need not be marked, except as~~
~~required by the material specification.~~

Material specification ASME II Part A. SA-193 requires that the manufacturer's identification marking be stamped on the head of bolts and screws and on one end of studs and stud bolts.
Material Specification ASME II Part A. SA-194 states (a) "all nuts shall bear the manufacturer's identification marking". (b) nuts shall be legibly stamped to indicate grade and process of manufacturer per table V.
Field Recommendation - Project Engineering to notify Itt Grinnell to ship replacement nuts and bolts for all hangers requiring nuts and bolts which have been shipped to date and that all future shipments contain properly marked nuts and bolts. Field requests that replacement nuts and bolts be packaged in a kit form with each kit identified with the appropriate hanger mark number. Field requests a conditional release for installation of nonconforming hangers, based on replacement of the bolting material after receipt at the jobsite. (FIH G-3 paragraph 5.7)

APPROVAL FOR CONDITIONAL
RELEASE FOR INSTALLATION
OF ASSEMBLIES ON LIST A

W. J. Valenzuela PFE
H. D. Foster PFOEE

Ray Dougherty 6-14-76
M. Pulido 6-14-76

PFQAE

(A.I.)

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

QC-G1-3

Aug 4 14 1111 7976

NONCONFORMANCE REPORT (CONT'D)

PAGE 34 OF 8

14. NCR NO. 428

2. Engineering Disposition - Cont'd

While SA-193 studs require marking, SA-307 nuts do not require marking by Code or specification.

Item 3: There is no evidence that this item is a nonconformance. The fact that the items are unmarked does not constitute a nonconformance. No nonconformance with the Code or the hanger specification exists.

ITT Grinnell's QA-program assures that the items conform to those specified by ITT Grinnell's engineering department's design. A more detailed clarification is set forth in ITT Grinnell's response to NCR 428 of 6/18/76 which is attached.

(Signature) 7/9/76

The identification marking requirement acc. to NF-4122 applies only until the component support is fabricated or installed.

*Ben Lohr A.I.
7/9/76*

MEMORANDUM

TO: HD FOSTER

FROM: PM Pitts

DATE: 6-6-76

SUBJECT: NCR 478

TA4 APPLICATION RECORD

- | | | |
|-------------------|--------------------|--------------------|
| 1) 10-2FCB-19-H10 | 24) 10-2FCB-34-H11 | 47) 17-2GCB-25-H17 |
| 2) 10-2FCB-43-H1 | 25) 24-2HCB-2-H5 | 48) 24-2HCB-2-H7 |
| 3) 6-2FCB-20-H1 | 26) 18-2HCB-1-H14 | 49) 18-1GCB-33-H2 |
| 4) 6-1FCB-20-H1 | 27) 24-2HCB-2-H3 | 50) 12-2GCB-25-H16 |
| 5) 10-1FCB-43-H2 | 28) 3-2FCB-20-H4 | 51) 18-1GCB-33-H3 |
| 6) 10-1FCB-43-H3 | 29) 10-1FCB-100-H2 | 52) 18-2HCB-1-H13 |
| 7) 12-2GCB-25-H11 | 30) 3-2FCB-20-H4 | 53) 18-1GCB-33-H4 |
| 8) 18-2GCB-33-H3 | 31) 12-2GCB-25-H6 | 54) 12-2GCB-25-H15 |
| 9) 18-2GCB-33-H4 | 32) 12-2GCB-25-H8 | |
| 10) 10-HCB-35-H5 | 33) 5-2FCB-34-H2 | |
| 11) 10-1FCB-35-H3 | 34) 18-1HCB-1-H13 | |
| 12) 18-1GCB-33-H6 | 35) 12-2GCB-25-H3 | |
| 13) 24-2FCB-1-H2 | 36) 12-2GCB-25-H9 | |
| 14) 3-1FCB-28-H6 | 37) 18-2HCB-7-H1 | |
| 15) 18-2GCB-32-H6 | 38) 18-2GCB-33-H3 | |
| 16) 24-2HCB-1-H7 | 39) 18-2HCB-2-H11 | |
| 17) 24-2HCB-1-H6 | 40) 24-2HCB-2-H6 | |
| 18) 24-2HCB-1-H5 | 41) 24-2HCB-1-H3 | |
| 19) 18-2HCB-8-H1 | 42) 24-2HCB-2-H4 | |
| 20) 18-2HCB-1-H11 | 43) 24-2HCB-2-H4 | |
| 21) 18-2HCB-1-H10 | 44) 10-2FCB-7-H3 | |
| 22) 1-HCB-100-H4 | 45) 10-2FCB-34-H2 | |
| | 46) 10-2FCB-34-H1 | |

NCR 478 Page 5 of 14 PM Pitts 7976

MEMORANDUM

TO: HD Foster, J Miller
 FROM: PM Pitts

LOCATION: _____

DATE: _____

10

SUBJECT: NCR 478, Revision of
 6-16-76

JOB NO: _____

FILE: _____

QC Hold Tags Applied in Class A Warehouse

Tag No	Tagger Number	Description
55	10-2FCB-35-H5 ²⁻⁶¹¹⁻⁶⁻⁵	CLAMP
56	SAME	SWAY STRUT
57	24-1HCB-1-H-7 ¹⁻⁶¹⁰⁻⁵⁻¹⁵	CLAMP
58	SAME	SWAY STRUT
59	24-1HCB-1-H-6 ¹⁻⁶¹⁰⁻⁵⁻¹¹	CLAMP
60	SAME	SWAY STRUT
61	18-16CB-32-H-3 ¹⁻⁶¹⁰⁻³⁻¹⁸	CLAMP
62	SAME	SWAY STRUT
63	10-2FCB-22-H-13 ²⁻⁶¹¹⁻⁶⁻¹⁶	CLAMP
64	10-2FCB-35-H-10 ²⁻⁶¹¹⁻⁶⁻¹⁰	CLAMP
65	10-2FCB-22-H-13 ²⁻⁶¹¹⁻⁶⁻¹⁶	SWAY STRUT
66	10-2FCB-22-H-13 ²⁻⁶¹¹⁻⁶⁻¹⁰	SWAY STRUT
67	6-2FCB-12-H-1 ²⁻⁶¹¹⁻⁷⁻²⁸	CLAMP
68	10-2FCB-22-H-6 ²⁻⁶¹¹⁻⁷⁻²³	SWAY STRUT
69	10-2FCB-22-H-6 ¹⁻⁶¹⁰⁻³⁻¹⁷	SWAY STRUT
70	18-16CB-32-H-2 ¹⁻⁶¹⁰⁻⁵⁻¹⁷	CLAMP
71	18-16CB-32-H-2 ²⁻⁶¹¹⁻⁷⁻²⁸	SWAY STRUT
72	10-2FCB-22-H-6 ¹⁻⁶¹⁰⁻⁵⁻²⁴	CLAMP
73	18-1HCB-8-H-1 ¹⁻⁶¹⁰⁻⁵⁻²⁴	CLAMP
74	18-1HCB-8-H-1 ¹⁻⁶¹⁰⁻⁵⁻²⁴	SWAY STRUT

NCR 478
 6-16-76
 PM Pitts

BLANKET

MEMORANDUM

TO: _____ LOCATION: _____
FROM: _____ DATE: _____

NO.	DESCRIPTION	CLAMP	FILE
75	¹⁻⁶¹⁰⁻⁵⁻¹⁹ 18-1-HCB-1-H11	CLAMP	
76	SAME	SWAY STRUT	
77	²⁻⁶¹¹⁻⁶⁻³⁶ 2 1/2-2-CCB-28-H1	CLAMP	
78	²⁻⁶¹¹⁻³⁻³ 10-2-FCB-35-H3	SWAY STRUT	
79	SAME	CLAMP	
80	¹⁻⁶¹⁰⁻⁵⁻⁵ 24-1-HCB-2-H5	CLAMP	
81	¹⁻⁶¹⁰⁻⁵⁻²² 18-1-HCB-1-H14	CLAMP	
82	²⁻⁶¹¹⁻⁶⁻⁸ 10-2-FCB-35-H-8	CLAMP	
83	SAME	SWAY STRUT	
84	¹⁻⁶¹⁰⁻⁵⁻⁷ 12-1-6CB-25-H-16	CLAMP	
85	¹⁻⁶¹⁰⁻³⁻²⁰ 12-1-6CB-25-H-9	CLAMP	
86	SAME	SWAY STRUT	
87	²⁻⁶¹¹⁻⁶⁻³⁸ 2 1/2-2-CCB-28-H3	CLAMP	
88	²⁻⁶¹¹⁻⁶⁻²⁶ 10-2-FCB-42-H1	CLAMP	
89	18-1-FCB-7-H1	SWAY STRUT	
90	SAME	CLAMP	
91	¹⁻⁶¹⁰⁻³⁻¹⁵ 18-1-6CB-32-H-4	CLAMP	
92	SAME	CANNISTER CONNECTOR	
93	SAME	EYE BOLT ASSEMBLY	
94*	¹⁻⁶¹⁰⁻³⁻³ 24-1-HCB-2-H3	CLAMP	
95	¹⁻⁶¹⁰⁻⁵⁻⁷⁰ 18-1-HCB-1-H12	SWAY STRUT	
96	SAME	CLAMP	
97	²⁻⁶¹¹⁻⁶⁻³⁰ 10-2-FCB-22-H-17	CLAMP	
98	¹⁻⁶¹⁰⁻⁵⁻¹² 21-1-11-11-11	CLAMP	

NCL 428 Page 7 of 14 Page 2 of 28

1-7-76

EX-111

MEMORANDUM

TO _____ LOCATION _____
 FROM _____ DATE _____ 19__
 SUBJECT _____ JOB NO. _____ FILE _____

- 99 1-610-5-13 24-1-HCB-1-H5 CLAMP
- 100 SAME SWAY STRUT
- 101 12-16CB-25-H18 SWAY STRUT
- 102 12-16CB-25-H18 CLAMP
- 103 10-1FCB-19-H2 SWAY STRUT
- 104 10-1FCB-19-H2 CLAMP
- 105 18-16CB-33-H2 SWAY STRUT
- 106 18-16CB-33-H2 CLAMP
- 107 12-16CB-25-H19 CLAMP

NCR 428
 Page 5
 14
 1-19-78
 8

NONCONFORMANCE REPORT (CONT'D)

1. PAGE 8 OF 8

100 20 (CONT.) LIST "A"

THE FOLLOWING ARE HIGHLIGHTS RECORDED TO BE RECORDED FOR
 JUSTIFICATION:

MARKING	MARKING	MARKING	MARKING
10-2FCR-19-H10	2-611-4-18	24-2HRC-2-H7	2-611-3-7
6-2FCR-20-H1	2-611-4-23	10-1HRC-100-H31	1-619-6-10
1-2FCR-28-H4	2-611-4-22	18-2HRC-2-H1	2-611-3-11
10-2FCR-43-H1	2-611-4-26		
2 1/2-2FCR-1-H2	2-611-4-35		
12-26CR-25-H11	2-611-5-2	INSTALLATION WILL BE TO FINISH THE	
18-26CR-33-H4	2-611-5-28	ROUHS & HITS TO A SURE FIT ONLY.	
18-16CR-33-H6	1-610-5-30		
18-16CR-35-H4	1-610-5-28		
18-16CR-33-H3	1-610-5-27		
3-1FCR-28-H6	1-610-4-34		
24-2HRC-2-H6	2-611-3-6		
18-26CR-32-H3	2-611-3-18	Approval for conditional release	
12-26CR-25-H3	2-611-3-24	for installation of assemblies listed	
12-26CR-25-H9	2-611-3-30	above	
12-26CR-25-H12	2-611-5-8		
12-26CR-35-H3	2-611-5-27		
18-26CR-33-H6	2-611-5-30		
18-16CR-32-H3	1-610-3-17		
18-16CR-32-H3	1-610-3-18		
18-16CR-33-H4	1-610-3-19		
12-16CR-25-19	1-610-3-30		
18-1HRC-1-H12	1-610-5-20		
10-1HRC-100-H4	1-619-6-18		

D. J. Bachman for W. Holub 6/18/76
 D. J. Bachman PFECE 6/15/76
 J. C. Valenzano PFE 6/18/76
 Ryan Labot AI 6/18/76

LETTER FOR

312-777

ITT Grinnell Corporation

Dana & Paige Avenue, N.E.
Warren, Ohio 44481
Telephone (216) 399-7566

June 18, 1976

Bechtel Associates Professional Corporation
P.O. Box #1000
21 South State Road
Building "F"
Ann Arbor, Michigan 48106

Attention: Mr. R. L. Castleberry
Project Engineer

Subject: Consumers Power Company
Midland Plant - Job 7220
P.O. #7220-M-106-AC
CLM-169

Re: Gentlemen:

On Wednesday, June 16, 1976, the resident Bechtel Inspector, D. McMillin, forwarded a copy of Non-Conformance Report #428 to ITT Grinnell personnel. A copy of this Non-Conformance Report is attached. Mr. McMillin stated that until this problem was resolved, there could be no further shipments of material for the subject project.

The following is ITT Grinnell's response to the three (3) Non-Conformances listed on Page "2" of the Non-Conformance Report:

Bechtel Non-Conformance:

The following conditions contrary to the above exist on all assemblies furnished to date under Purchase Order 7220-M-106AC;

- a) Material Certificates of Compliance do not specify material specifications, grades, classes or types used in fabrication.
- b) Material Certificates of Compliance do not specify the means of material identification including the marking code utilized.

NCF 428 Page 10 of 14
M.P.H. 7-9-76

TO: Mr. R. L. Castleberry - Bechtel

SUBJECT: Consumers Power Company - Midland Plant - Job 7220

PAGE 2

1) ITT Grinnell's Response:

Approximately one year ago, ITT Grinnell detected a conflict in the requirements of NA 3700 versus the requirements of Subsection NF. As it applies to shipments to ITT Grinnell's customers, our interpretation of the certification requirements, is that the rules defined in Sub Article NF 4121 should apply for all materials except those used in Class "1" non-standard supports and those supports requiring impact testing. It is also our opinion that the requirements of NA 3700 and Article NF 2000 apply both within Grinnell's manufacturing facility and on material supplied by ITT Grinnell's vendors. This had been verbally discussed with Bechtel-Arm Arbor personnel early in 1976 and agreed upon.

The Certificates of Compliance submitted in the sample data package, given a Code "1" approval by Bechtel-Arm Arbor on January 26, 1976, reflect ITT Grinnell's position. The actual Certificates of Compliance provided with the material shipped are virtually identical with the sample Certificate of Compliance included in the Bechtel approved data package.

In order to resolve this matter on a formal basis, ITT Grinnell requested that a Code Case be generated to eliminate any potential questions that might arise. This Code Case, #1728, was approved by ASME in November, 1975. It has received formal approval of the U.S. Nuclear Regulatory Commission, and is included in Regulatory Guide 1.85, Revision "6", dated May, 1976.

On December 17, 1975, ITT Grinnell requested Bechtel approval of this Code Case for use on the Midland project. Although ITT Grinnell has followed up on this matter, we have had no response from Bechtel as of this date.

The Bechtel resident inspector has continually verified that ITT Grinnell Pipe Hanger Division is following the requirements of NA 3700, NA 4000, and Subsection NF during the manufacturing phase at the Warren, Ohio facility. The Coding system utilized by ITT Grinnell is documented in Quality Control Procedure 02A009. A copy of the Code Listing for various Grinnell materials, as defined by this Quality Control Procedure, is attached.

If requested, ITT Grinnell will be pleased to submit a copy of this Quality Control Procedure to Bechtel on a formal basis.

NA 428 Page 11 of 14
MWH 7-9-76

O: Mr. R. L. Castleberry - Bechtel
SUBJECT: Consumers Power Company - Midland Plant - Job 7220
PAGE 3

1) ITT Grinnell's Response (Cont'd.):

It may be noted that the materials used in component supports for the subject project, are defined either on ITT Grinnell drawings (for component standard supports) or on Bechtel approved hanger sketches. Verification of material usage for component standard supports must be accomplished at the Warren Plant.

2) Bechtel Non-Conformance:

Hex nuts furnished with stud-bolts marked 'B-7' (ASME SA-193) are not identified as required by ASME SA-193 para. 13.1 and ASME SA-194 para. 13a and 13b.

ITT Grinnell's Response:

The Engineering Departments within ITT Grinnell's Pipe Hanger Division, specify bolting material to satisfy the load requirements of the various designs. In some designs, such as the Figure #200 hydraulic shock and sway suppressor and the Figure #211 sway strut, the loads applied to some bolting material are primarily shear loads. This is particularly true of the bolting materials used as pins in the ball bushings on the aforementioned two (2) products. Accordingly, they have specified alloy studs in accordance with SA 193. Since there are very low tensile loads, the nuts used with these studs are specified as A-307, Grade "A" or A-307, Grade "B". There are no marking requirements for A-307 nuts. The Warren Plant has met the requirements as defined by the Pipe Hanger Division Engineering Departments. This has been verified by the resident Bechtel Inspector.

3) Bechtel Non-Conformance:

No material identification marking or description is provided for the following additional types of fastener materials.

- b) Hex head bolts and nuts for pipe clamp.
- c) Miscellaneous hex nuts.

ITT Grinnell's Response:

Sub Article NF-7150, states, in part, "materials for small items shall be controlled during the manufacture of the component supports so that they are identifiable as acceptable materials at all times".

NCCH28 Page 12 of 14
AM/HR 7-9-76

TO: Mr. R. L. Castleberry - Bechtel
SUBJECT: Consumers Power Company - Midland Plant - Job 7220
PAGE 4

3) ITT Grinnell's Response (Cont'd.):

In implementing this requirement, ITT Grinnell did refer back to NA 3766.6 for a definition. Accordingly, bolts and nuts 1" nominal diameter and smaller are not coded in accordance with the requirements defined in Quality Control Procedure #02A009. ITT Grinnell's position has been reviewed with the local Bechtel Inspector and his concurrence received. If Bechtel feels that ITT Grinnell should mark the shipping containers with a statement stating that some of the fasteners included, comply with the requirements of A-307, etc., this can be accomplished. However, ITT Grinnell Engineering documents such as component standard support drawings and/or customer approved hanger sketches, define the bolting requirements. It is ITT Grinnell's opinion that no action is required.

We feel that this response should enable you to close out Non-Conformance Report #478.

Prompt response will be given to any questions you may have.

Very truly yours,

D M Sewell

D. M. Sewell
Division Quality Assurance Manager

DMS/jb

Enc.

cc: P. Milman - Providence
J. Boyd - Providence
N. DeCristofaro - Providence
D. McMillin - Bechtel
R. Mulcahey - Providence
M. Plunkett - Providence
A. Roman - Warren
P. Stanish - Providence
H. Stron - Warren

UCF428 Page 13 of 14
EM/HTS 7-9-77

MATERIAL

LETTER CODE

SA-36
SA-53 Gr. A
SA-53 Gr. B
SA-106 Gr. A
SA-106 Gr. B
SA-182 F-22
SA-193 Gr. B7
SA-194 Gr. 2R
SA-194 Gr. 7
SA-216 Gr. WCA
SA-216 Gr. WCB
SA-240 Type 304
SA-240 Type 316
SA-266 CL-1
SA-266 CL-2
SA-266 CL-3
SA-306 Gr. 50
SA-306 Gr. 55
SA-306 Gr. 60
SA-306 Gr. 65
SA-306 Gr. 70
SA-307 Gr. A
SA-307 Gr. B
SA-312 Type 304
SA-312 Type 316
SA-376 Type 304
SA-376 Type 316
SA-387 Gr. 22 CL-1
SA-387 Gr. 22 CL-2
SA-479 Type 304
SA-479 Type 316
A500 Gr. B
A500 Gr. C
A501
SA-515 Gr. 65
A-668 Gr. C
A-668 Gr. D
A-668 Gr. F
1018
1020
AISI 4140
AISI 4140
SA306 Gr. 75
A434 Gr Bc
A434 Gr 2D
A114 Gr E
A335 P 22

A
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Handwritten notes:
NCE 4-28 Paper 14 of 14
PM 1/14

BECHTEL

NONCONFORMANCE REPORT

1. PAGE 1 OF 2	14. NCR NO. 429
25. DISPOSITION CONCURRENCE	
REWORK	REJECT
REPAIR	USE AS IS
DOC.	
PROJECT FIELD ENGINEER <i>[Signature]</i> 6-10-76 DATE	
PROJECT ENGINEER <i>[Signature]</i> 6-11-76 DATE	
PROJECT FIELD QC ENGINEER <i>[Signature]</i> DATE	
AUTHORIZE INSPECTOR <i>[Signature]</i> DATE	

2. DRAWING/PART NO. 7220-C-288	REV. 4	7. PROJECT NO. 7220	12. REPORTED BY <i>[Signature]</i>	DATE 6/9/76
3. ITEM DESCRIPTION Reinforcing Steel		8. ITEM LOCATION Aux. Bldg 'C' Line	13. VALIDATED BY <i>[Signature]</i>	DATE 6-3-76
4. SERIAL NUMBER N/A		9. STARTUP SYSTEM NO. N/A	15. REPLACEMENT PART NO. N/A	REV.
5. PURCHASE ORDER NO. N/A		10. QC FIELD INSPECTION PLAN NO. C-231-2-904	16. REPLACEMENT SERIAL NO. N/A	
6. CONTRACTOR/LOCATION N/A		11. ASME CODE ITEM Rev. 0	17. SOURCE Construction	
18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING		<input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR		

19. NONCONFORMING CONDITION: Four #6 slab dowels at the intersection of 'C' line wall and roof slab at Elev. 624'0" were broken off at the face of the 'C' line wall during form removal. Broken dowels at the bottom of the slab are located 21" to 40" east of 7.4 line wall. Top dowel broken off 20" east of 7.4 line wall. Nonconformance noted during QC Surveillance Inspection. Q List #1.203. One tag applied.

20. <input checked="" type="checkbox"/> FIELD DISPOSITION Block 20 Revised on page 2	<input type="checkbox"/> FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING
Rework as follows: Drill 1 1/2" Diam. holes, fill holes with non-shrink grout (Embeco 636) and set the missing dowels. * Grouting of bars shall be in accordance with the manufacturer's instructions. Embedment lengths shall be in conformance with the prescribed table on Dwg. C-211, Rev. 4. Expected implementation date on or about 6/11/76. <i>Reviewed 6-4-76 James Leonard</i>	

21. FIELD DISPOSITION RESULTS:
23. ENGINEERING DISPOSITION RESULTS:
27. QC ACCEPTANCE
QC ENGINEER
DATE
AUTHORIZED INSPECTOR
DATE

24. IS DESIGN CHANGE REQUIRED	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES. SEE ATTACHED:
DRAWING	REV.	DCN
SPEC	REV.	ADD.

25. REJECTED MATERIAL DISPOSITION	<input type="checkbox"/> RETURN TO SUPPLIER
	<input type="checkbox"/> SCRAP
REMARKS	

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

BLOCK 20 Revision

Rework as follows: Drill 1 1/2" diam. holes, fill holes with non-shrink grout (Embeco 636) and set the missing bottom dowels. For the single top bar, drill 2 1/2" diam. hole, set the dowel through the wall and fill the hole with Embeco 636 by funneling through a tube, at the same time providing adequate vent to ensure proper grouting. Grouting of bars shall be in accordance with the manufacturer's instructions. Embedment lengths shall be in conformance with the prescribed table on

Dwg. C-211, Rev. 4. Expected implementation date on or about 6/11/76.

K. Ventris C. 9. 76
James Desmond C-4-R

BECHTEL

NONCONFORMANCE REPORT

2. DRAWING/PART NO. See Block 19		REV.	7. PROJECT NO. 7220	12. REPORTED BY <i>[Signature]</i>	DATE 6/13/76	18. PAGE 1 OF 1	19. NCR NO. 430
3. ITEM DESCRIPTION Pipe Spools		8. ITEM LOCATION Aux. Bldg. E1 584 F & 6.9 line		13. VALIDATED BY <i>[Signature]</i>	DATE 6-8-76	25. DISPOSITION CONCURRENCE	
4. SERIAL NUMBER 2FCB-35-S611-6-7 2FCB-35-S611-6-8		9. STARTUP SYSTEM NO. NA		15. REPLACEMENT PART NO. NA	REV.	REWORK	REJECT
5. PURCHASE ORDER NO. 7220 M-104A-AC Rev. 2		10. QC FIELD INSPECTION PLAN NO. NA		16. REPLACEMENT SERIAL NO. NA		REPAIR	DATE
6. CONTRACTOR/LOCATION ITT Grinnell, Kernersville, North Carolina		11. ASME CODE ITEM <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		17. SOURCE Supplier		DATE	DATE
18. ROUTING INSTRUCTIONS		<input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING		<input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR		PROJECT FIELD ENGINEER	DATE
						PROJECT ENGINEER	DATE
						PROJECT FIELD QC ENGINEER	DATE
						AUTHORIZED INSPECTOR	DATE

NONCONFORMING CONDITION:
 M-411 Rev. 3 and M-480 Rev. 2 show the By-pass line around the decay heat removal heat exchanger 2E-60B to be 2FCB-37. M-611-6 Rev. 5 shows the associated pipe spools to be 2FCB-37-S611-6-7 and 2FCB-37-S611-6-8. Contrary to the above, the code name plates identify the subject spools to be 2FCB-35-S611-6-7 and 2FCB-35-S611-6-8. Nonconformance discovered during drawing/hardware review (Q number 4.114). Two QC hold tags applied.

20. <input type="checkbox"/> FIELD DISPOSITION	<input checked="" type="checkbox"/> FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING	21. FIELD DISPOSITION RESULTS:
Field recommends that project engineering revise M-411 Rev 3, M-480 Rev 2, and M-611-6 Rev 5 to correspond to existing pipe spool code name plates. Spools are in permanent location (not welded) and documentation is on site.		
22. ENGINEERING DISPOSITION		23. ENGINEERING DISPOSITION RESULTS:
<i>[Signature]</i> 6-8-76 <i>[Signature]</i> 6-9-76		
24. IS DESIGN CHANGE REQUIRED <input type="checkbox"/> NO <input type="checkbox"/> YES, SEE ATTACHED:	28. REJECTED MATERIAL DISPOSITION <input type="checkbox"/> RETURN TO SUPPLIER <input type="checkbox"/> SCRAP	27. QC ACCEPTANCE
DRAWING _____ REV. _____ DCN _____	REMARKS	QC ENGINEER _____ DATE _____
SPEC _____ REV. _____ ADD. _____		AUTHORIZED INSPECTOR _____ DATE _____

10098-1

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

QC-G3-2

BECHTEL

NONCONFORMANCE REPORT

2. DRAWING/PART NO. 7220-M-616 (As-Built)		REV. 2	7. PROJECT NO. 7220		12. REPORTED BY. <i>[Signature]</i>	DATE 1/17	1. PAGE 1 OF 2	14. NCR NO. 431
3. ITEM DESCRIPTION Shop Fabricated Carbon Steel Pipe Spool			8. ITEM LOCATION See Block 19		13. VALIDATED BY <i>[Signature]</i>		25. DISPOSITION CONCURRENCE	
4. SERIAL NUMBER IHBC-133-S616-7-7			9. STARTUP SYSTEM NO. N/A		15. REPLACEMENT PART NO. N/A		REWORK	REJECT
5. PURCHASE ORDER NO. 7220-M-104AC			10. QC FIELD INSPECTION PLAN NO. N/A		16. REPLACEMENT SERIAL NO. N/A		REPAIR	USE AS IS
6. CONTRACTOR/LOCATION ITT Grinnell, Kernersville, NC			11. ASME CODE ITEM <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		17. SOURCE Supplier		DDC	
18. ROUTING INSTRUCTIONS: <input type="checkbox"/> ROUTE TO FIELD ENGINEERING			<input checked="" type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR					

19. NONCONFORMING CONDITION: Specification 7220-M-201, referenced by PO 7220-M-104AC, states in part (Paragraph 9.1) "The seller shall establish and maintain a system for the control of quality during fabrication and shipping which will assure that all materials including purchased and subcontracted items, conform to these specifications. This system shall be organized in such a manner that it will be possible to relate every component of the finished spool to its fabrication history."

Contrary to the above, the data furnished with pipe spool IHBC-133-S616-7-7 (PO 7220-M-104AC, MR-69-51,

20. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

21. FIELD DISPOSITION RESULTS:

22. ENGINEERING DISPOSITION

23. ENGINEERING DISPOSITION RESULTS:

24. IS DESIGN CHANGE REQUIRED <input type="checkbox"/> NO <input type="checkbox"/> YES, SEE ATTACHED:	26. REJECTED MATERIAL DISPOSITION <input type="checkbox"/> RETURN TO SUPPLIER <input type="checkbox"/> SCRAP	27. QC ACCEPTANCE
DRAWING _____ REV. _____ DCN _____	REMARKS _____	QC ENGINEER _____ DATE _____
SPEC. _____ REV. _____ ADD. _____		AUTHORIZED INSPECTOR _____ DATE _____

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

BECHTEL

NONCONFORMANCE REPORT (CONT'D)

PAGE 2 OF 2

14. NCR NO. 431

(Block 19 continued)

Load Sheet 11354) Did not include a traceability matrix or index which identifies the end use location of material and filler material heat numbers and lots for which Material Test Reports are also provided.

NOTE: Such a matrix has, with previous shipments, been provided in the form of a Shop Traveler Form N4.1B (Grinnell)

Location: Storage Area #1

C-List #: 4.164

Tags applied: 1

Nonconformance noted during documentation review.

10096-2

QC-613

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

RECEIVED

Bole

NONCONFORMANCE REPORT

2. DRAWING/PART NO. Spec. 7220-C-231		REV. 6	7. PROJECT NO. 7220	12. REPORTED BY <i>SP [Signature]</i>	DATE <i>6/10/76</i>	1. PAGE 1 OF 2	14. NCR NO. 432
3. ITEM DESCRIPTION Mechanical Splices		8. ITEM LOCATION Aux Bldg & RB #2		13. VALIDATED BY <i>[Signature]</i>	DATE <i>6-10-76</i>	25. DISPOSITION CONCURRENCE	
4. SERIAL NUMBER N/A		9. STARTUP SYSTEM NO. N/A		15. REPLACEMENT PART NO. N/A		REWORK	
5. PURCHASE ORDER NO. N/A		10. QC FIELD INSPECTION PLAN NO. N/A		16. REPLACEMENT SERIAL NO. N/A		REJECT	
6. CONTRACTOR/LOCATION N/A		11. ASME CODE ITEM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		17. SOURCE Construction		REPAIR	
18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING						USE AS IS	
						DCC	
						PROJECT FIELD ENGINEER	
						PROJECT ENGINEER	
						PROJECT FIELD QC ENGINEER	
						AUTHORIZE INSPECTOR	

19. NONCONFORMING CONDITION: Section 10.13.4 of Specification 7220-C-231 Rev. 6 states in part that "If production and sister splices are tested the sample frequency shall be one production splice of the first ten production splices. . . . Contrary to the above, 42 #11 splices have been made with the use of two sister splices for testing. Review of "As-Built" sketches indicates that all of the above splices were made in areas of extreme congestion or too close to construction joints to obtain a production splice of sufficient length for tensile testing. It is the intent to obtain two production splices within the first 100 splices as required in above referenced section 10.13.4 as

20. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

21. FIELD DISPOSITION RESULTS:

The above situation presented problems similar to those encountered when using curved rebar ^{OR #11} ~~#11~~ series cadwelds (both cases test only sister splices). We have #11 rebar to be cadwelded in the near future where production splices can be taken. It is recommended that two production splices be taken within the first 100 splices (plus one additional sister splice) to insure adequate testing.

22. ENGINEERING DISPOSITION

[Signature] *6/12/76* *[Signature]* *6/12/76*

23. ENGINEERING DISPOSITION RESULTS:

24. IS DESIGN CHANGE REQUIRED <input type="checkbox"/> NO <input type="checkbox"/> YES, SEE ATTACHED:	26. REJECTED MATERIAL DISPOSITION <input type="checkbox"/> RETURN TO SUPPLIER <input type="checkbox"/> SCRAP	27. QC ACCEPTANCE
DRAWING _____ REV. _____ DCN _____	REMARKS _____	QC ENGINEER _____ DATE _____
SPEC _____ REV. _____ ADD. _____		AUTHORIZED INSPECTOR _____ DATE _____

10098-1

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

QC-G3-2

RECEIVED

NONCONFORMANCE REPORT (COR, T'D)

PAGE 2 OF 2

14 MCR NO

432

(Block 19 continued)

soon as additional splices are made.

Nonconformance noted during review of QC Records. Q-List #1,104 and 1,204. No Hold Tags applied.

10098-2

QC-633

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

RECORDS

1-03

NONCONFORMANCE REPORT

2. DRAWING/PART NO Drawing 7220-C-288 (Q)		REV. 4	7. PROJECT NO 7220	12. REPORTED BY <i>M. J. Fox</i>	DATE 6-11-76	1. PAGE 1 OF 2	14. NCR NO. 433
3. ITEM DESCRIPTION Reinforcing Steel		8. ITEM LOCATION Auxiliary Building		13. AUDITED BY <i>M. J. Fox</i>	DATE 6-11-76	25. DISPOSITION CONCURRENCE	
4. SERIAL NUMBER N/A		9. STARTUP SYSTEM NO N/A		15. REPLACEMENT PART NO N/A		REWORK	REJECT
5. PURCHASE ORDER NO N/A		10. QC FIELD INSPECTION PLAN NO N/A		16. REPLACEMENT SERIAL NO N/A		REPAIR	USE AS IS
6. CONTRACTOR/LOCATION N/A		11. ASME CODE ITEM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		17. SOURCE Construction		PROJECT FIELD ENGINEER	DATE
18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING <input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR						PROJECT ENGINEER	DATE
						PROJECT FIELD QC ENGINEER	DATE
						AUTHORIZED INSPECTOR	DATE

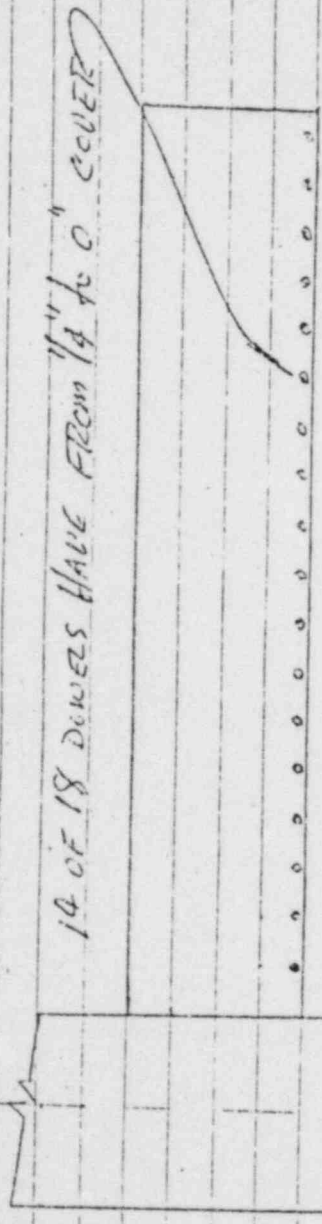
19. NONCONFORMING CONDITION: Drawing 7220-C-140 (Q), Rev. 8 general note 16 states in part, "... in no case shall the tolerance on cover exceed minus one-third of the clear cover stipulated on the design drawings or in the specification." Contrary to the above bottom slab dowels along 5.6 line ^{7-4 line} between C and D line, top of concrete Elev. 624'-0", exceed the allowable tolerance, see Page 2 for existing location. Nonconformance noted during routine QC surveillance. Q-List #1.203. 2 Hold Tags applied.

20. FIELD DISPOSITION: <input checked="" type="checkbox"/> FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING	21. FIELD DISPOSITION RESULTS:
<p>Raise all dowels in question by bending to meet the required clear cover. 2" to 3" of concrete around each dowel shall be chipped out to allow proper bending. Bending shall be in accordance with Sec. 8.10 of Spec. C-231, Rev. 9. Implementation Date -- July 16, 1976.</p> <p><i>M. J. Fox</i> 6/16/76</p>	
22. ENGINEERING DISPOSITION	23. ENGINEERING DISPOSITION RESULTS:

24. IS DESIGN CHANGE REQUIRED <input type="checkbox"/> NO <input type="checkbox"/> YES, SEE ATTACHED:	26. REJECTED MATERIAL DISPOSITION <input type="checkbox"/> RETURN TO SUPPLIER <input type="checkbox"/> SCRAP	27. QC ACCEPTANCE
DRAWING _____ REV. _____ DCN _____	REMARKS _____	QC ENGINEER _____ DATE _____
SPEC _____ REV. _____ ADD. _____		AUTHORIZED INSPECTOR _____ DATE _____

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

(1)



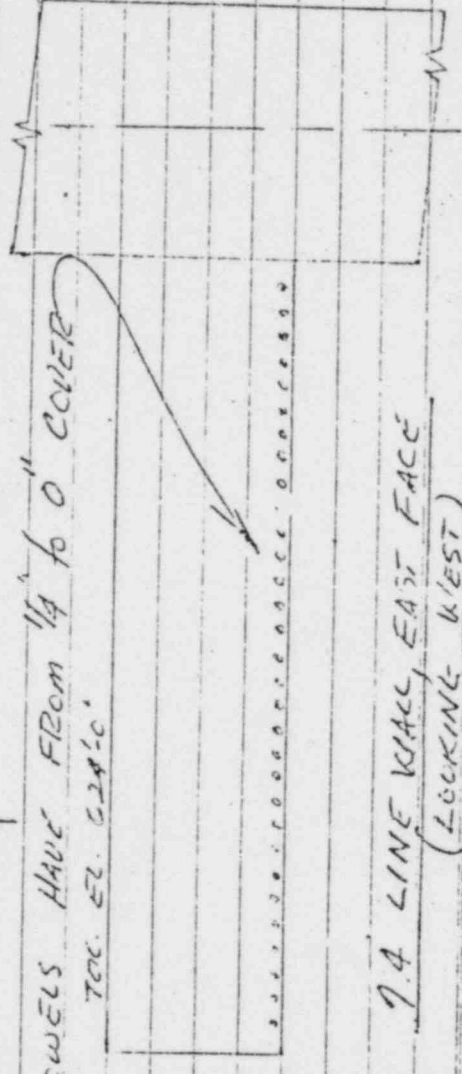
5.6 LINE WALL, WEST FACE
(LOOKING EAST)

(D)

(C)

26 OF 31 DOWELS HAVE FROM 1/4 TO 0\"/>

TOP. ET. 624'0"



7.4 LINE WALL, EAST FACE
(LOOKING WEST)

10038-2

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

QC-G33

REV-112

NONCONFORMANCE REPORT

2. DRAWING/PART NO. Dwg. 7220-C-288 (Q)		REV. 4	7. PROJECT NO. 7220	12. REPORTED BY <i>M. E. Cook</i>	DATE 6-11-76	1. PAGE 1 OF	14. NCR NO 434
3. ITEM DESCRIPTION Reinforcing Steel		8. ITEM LOCATION Auxiliary Building		13. VALIDATED BY <i>S. A. [unclear]</i>	DATE 6-11-76	25. DISPOSITION CONCURRENCE	
4. SERIAL NUMBER N/A		9. STARTUP SYSTEM NO. N/A		15. REPLACEMENT PART NO. N/A	REV.	REWORK	REJECT
5. PURCHASE ORDER NO. N/A		10. QC FIELD INSPECTION PLAN NO. N/A		16. REPLACEMENT SERIAL NO. N/A		REPAIR	USE AS IS
6. CONTRACTOR/LOCATION N/A		11. ASME CODE ITEM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		17. SOURCE Construction		PROJECT FIELD ENGINEER	DATE
12. ROUTING INSTRUCTIONS		<input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING		<input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR		PROJECT ENGINEER	DATE
15. NONCONFORMING CONDITION:		Drawing 7220-C-202, Rev. 5 General Note #5 states "Slab dowels to match slab reinforcing unless otherwise noted." Drawing 7220-C-288 (Q), Rev. 4, indicates 12" spacing for slab reinforcing. Contrary to the above, the first top and bottom dowels are located 34" from the face of the wall. See Page 2 for sketch of existing dowel location. Nonconformance noted during routine QC surveillance. Q-List #1.203. One Hold Tag applied.					

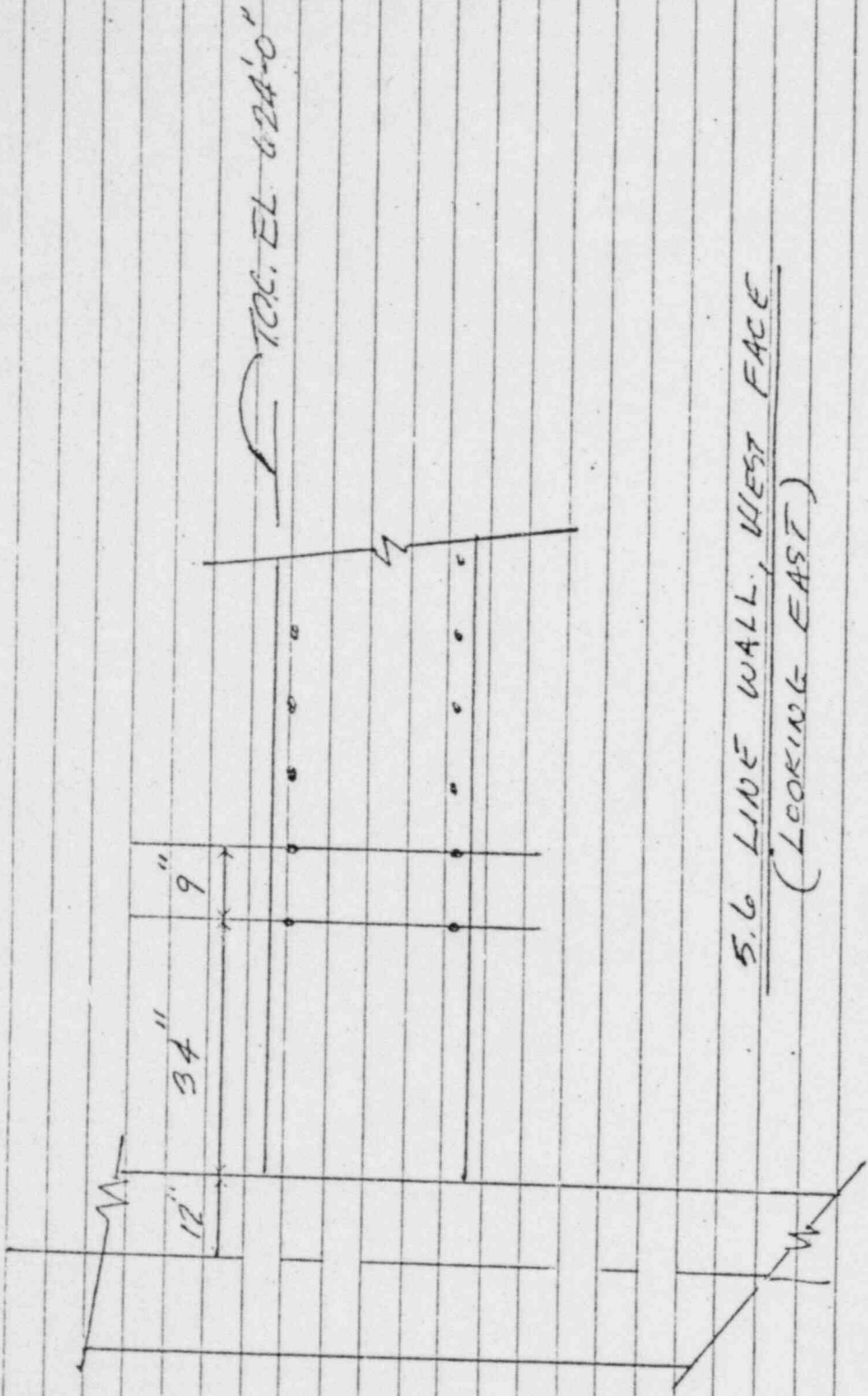
20. FIELD DISPOSITION	<input checked="" type="checkbox"/> FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING	21. FIELD DISPOSITION RESULTS:
<p>Report #23-76 rework as follows: Drill 1 1/2" diam. holes, fill holes with non-shrink grout (Embeco 636) and set the following bars: a) 2-#6 bottom bars and b) 3-#5 top bars at 9" O.C. in lieu of 2-#6 bars at 12" O.C. Embedment lengths and lap splices of bars shall be in accordance with the prescribed table on Dwg. C-211, Rev. 4. Manufacturer's instructions on grouting shall be followed. Expected implementation date-7/16/76.</p>		

22. ENGINEERING DISPOSITION	23. ENGINEERING DISPOSITION RESULTS:
<p><i>K. [unclear] 6/23/76</i> <i>[unclear] 6/14/76</i></p>	

24. IS DESIGN CHANGE REQUIRED <input type="checkbox"/> NO <input type="checkbox"/> YES, SEE ATTACHED:	26. REJECTED MATERIAL DISPOSITION <input type="checkbox"/> RETURN TO SUPPLIER <input type="checkbox"/> SCRAP	27. QC ACCEPTANCE
DRAWING _____ REV. _____ DCN _____	REMARKS _____	QC ENGINEER _____ DATE _____
SPEC _____ REV. _____ ADD. _____		AUTHORIZED INSPECTOR _____ DATE _____

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

(C)



5.6 LINE WALL, WEST FACE
(LOOKING EAST)

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

RECEIVED

NONCONFORMANCE REPORT

1. PAGE 1 OF 3 14. NCR NO. 435

2. DRAWING/PART NO. Drawing 7220-C-288 (Q)	REV. 4	7. PROJECT NO. 7220	12. REPORTED BY <i>T. P. Coote</i>	DATE 6-11-76
3. ITEM DESCRIPTION Reinforcing Steel	8. ITEM LOCATION Auxiliary Bldg	13. VALIDATED BY <i>M. J. ...</i>	DATE 6-11-76	REV.
4. SERIAL NUMBER N/A	9. STARTUP SYSTEM NO. N/A	15. REPLACEMENT PART NO. N/A	16. REPLACEMENT SERIAL NO. N/A	
5. PURCHASE ORDER NO. N/A	10. QC FIELD INSPECTION PLAN NO. N/A	17. SOURCE Construction		
6. CONTRACTOR/LOCATION N/A	11. ASME CODE ITEM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			

25. DISPOSITION CONCURRENCE				
REWORK	REJECT	REPAIR	USE AS IS	DOC.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PROJECT FIELD ENGINEER <i>...</i>			DATE 6-24-76	
PROJECT ENGINEER			DATE	
PROJECT FIELD QC ENGINEER			DATE	
AUTHORIZED INSPECTOR			DATE	

18. ROUTING INSTRUCTIONS: ROUTE TO FIELD ENGINEERING ROUTE TO MATERIAL SUPERVISOR

19. NONCONFORMING CONDITION: Drawing 7220-C-202 (Q) Rev 5, general note states: "Slab dowels to match slab reinforcing unless otherwise noted.", and drawing 7220-C-288 (Q) Rev 4 indicates 12" spacing for slab reinforcing. Contrary to the above, the first slab dowels' top and bottem are located 18" from the face of the support. See page 2 for sketch of existing dowels. Non conformance noted during ~~routine~~ ^{QC} ~~QC~~ ^{INSPECTION} surveillance. Q list number 1.203. One hold tag applied.

20. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

The above situation presented problems similar to those encountered when using curved rebar or "B" series cadwelds (both cases test only sister splices). We have #11 rebar to be cadwelded in the near future where production splices can be taken. It is recommended that two production splices be taken within the first 100 splices (plus one additional sister splice) to insure adequate testing.

21. FIELD DISPOSITION RESULTS:

23. ENGINEERING DISPOSITION RESULTS:

24. IS DESIGN CHANGE REQUIRED NO YES, SEE ATTACHED:

DRAWING _____ REV. _____ DCN _____

SPEC _____ REV. _____ ADD. _____

26. REJECTED MATERIAL DISPOSITION RETURN TO SUPPLIER SCRAP

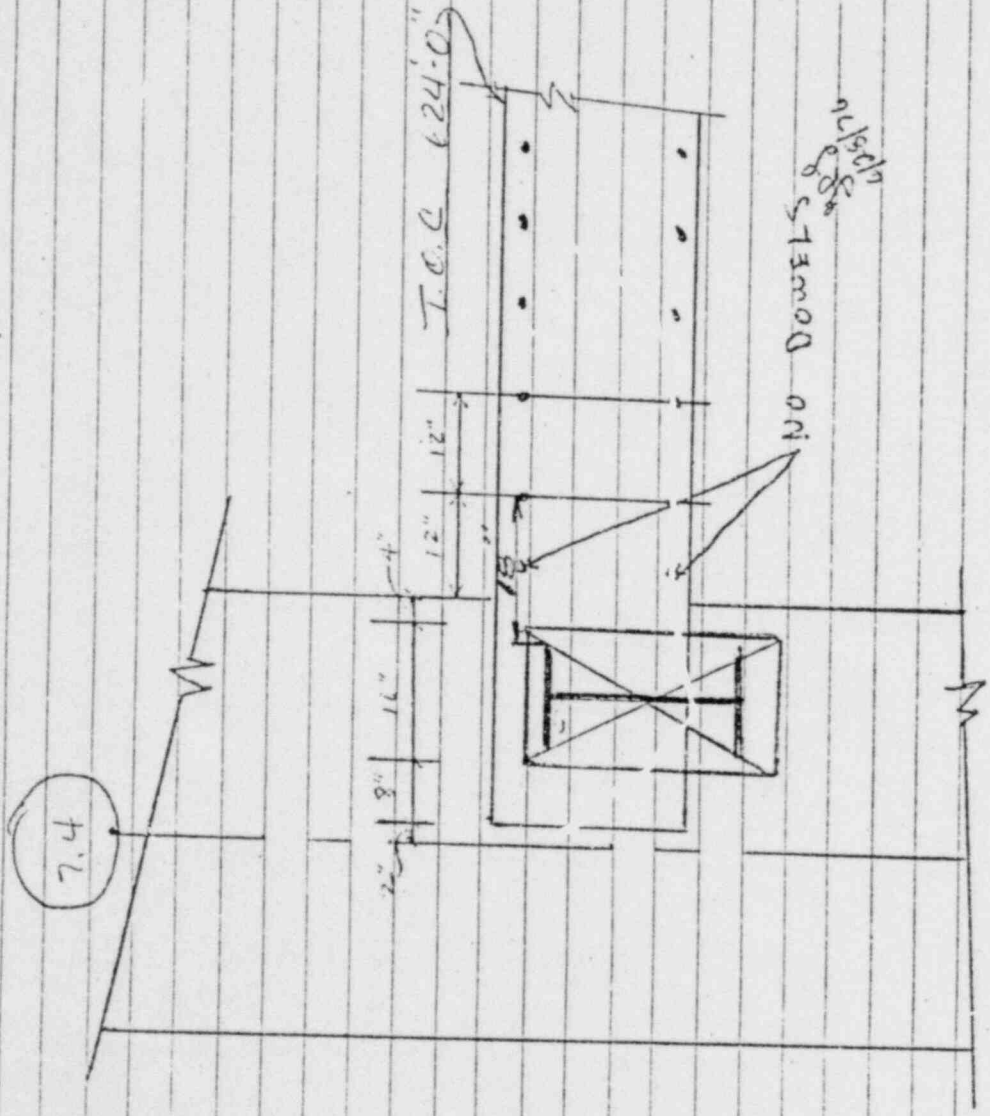
REMARKS

27. QC ACCEPTANCE

QC ENGINEER _____ DATE _____

AUTHORIZED INSPECTOR _____ DATE _____

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



B-LINE WALL @ 7.4 LINE, SOUTH FACE
(LOOKING NORTH)

BECHTEL

NONCONFORMANCE REPORT (CONT'D)

1. PAGE 3 OF 3

14. NCR NO. 435

BLOCK 20 REVISED

Rework as follows: For the single bottom bar, drill 1½" diam. hole, fill hole with non-shrink grout (Embeco 636) and set the missing bar. For the single top bar, drill 2½" diam. hole thru the wall, set the bar thru the wall, and fill the hole with Embeco 636 by funneling thru a tube at the same time providing adequate vent to ensure proper grouting. Grouting of bars shall be in accordance with the manufacturer's instructions.

Embedment lengths and lap splices of bars shall conform to the prescribed table on D.M.G. C-211, Rev. 4.

Expected implementation date - 7/16/76.

By Riveris 6.23.76
Je Jagne 6/23/76

10098-2

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

QC-33

BECHTEL

NONCONFORMANCE REPORT

2. DRAWING/PART NO. Drawing 7220-C-214 (Q)		REV. 3	7. PROJECT NO. 7220	12. REPORTED BY <i>MLH</i>	DATE 6.11.76	1. PAGE 1 OF 2	14. NCR NO. 436
3. ITEM DESCRIPTION Reinforcing Steel		8. ITEM LOCATION Aux. Bldg.		13. VALIDATED BY <i>MLH</i>	DATE 6.11.76	25. DISPOSITION CONCURRENCE	
4. SERIAL NUMBER N/A		9. STARTUP SYSTEM NO. N/A		15. REPLACEMENT PART NO. N/A		REWORK <input checked="" type="checkbox"/> REJECT <input type="checkbox"/> REPAIR <input type="checkbox"/> USE AS IS <input type="checkbox"/> DOC <input type="checkbox"/>	
5. PURCHASE ORDER NO. N/A		10. QC FIELD INSPECTION PLAN NO. N/A		16. REPLACEMENT SERIAL NO. N/A		PROJECT FIELD ENGINEER <i>W. P. ...</i> 6/24/76	
6. CONTRACTOR/LOCATION N/A		11. ASME CODE ITEM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		17. SOURCE Construction		PROJECT ENGINEER <i>...</i> 7-6-76	
18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING <input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR						PROJECT FIELD QC ENGINEER <i>...</i>	
						AUTHORIZE INSPECTOR <i>...</i>	

19. NONCONFORMING CONDITION: Drawing 7220-C-202 Rev. 5 general note 5 states "Slab dowels to match slab reinforcing unless otherwise noted." And drawing 7220-C-214 (Q) Rev. 3 indicates 12" spacing for slab reinforcing. Contrary to the above, slab dowels do not match slab reinforcing in three (3) areas along G-line between 5.6 line and 7.4 line at El. 632'6". See page 2 for sketch of existing dowel locations. Nonconformance noted during routine QC surveillance. "Q" list number 1.203. Two hold tags applied.

INSPECTED 6/24/76

20. <input checked="" type="checkbox"/> FIELD DISPOSITION Rework as follows: Drill 1 1/2" diam. holes, fill holes with non-shrink grout (Embeco 636) and set the missing 7-#8 horizontal dowels. Grouting of bars shall be in accordance with the grout manufacturer's instructions. Embedment lengths and lap splices of bars shall conform to the prescribed table on Dwg. C-211, Rev. 4. Expected implementation date: 7/16/76.	<input type="checkbox"/> FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING	21. FIELD DISPOSITION RESULTS:
22. ENGINEERING DISPOSITION		23. ENGINEERING DISPOSITION RESULTS:

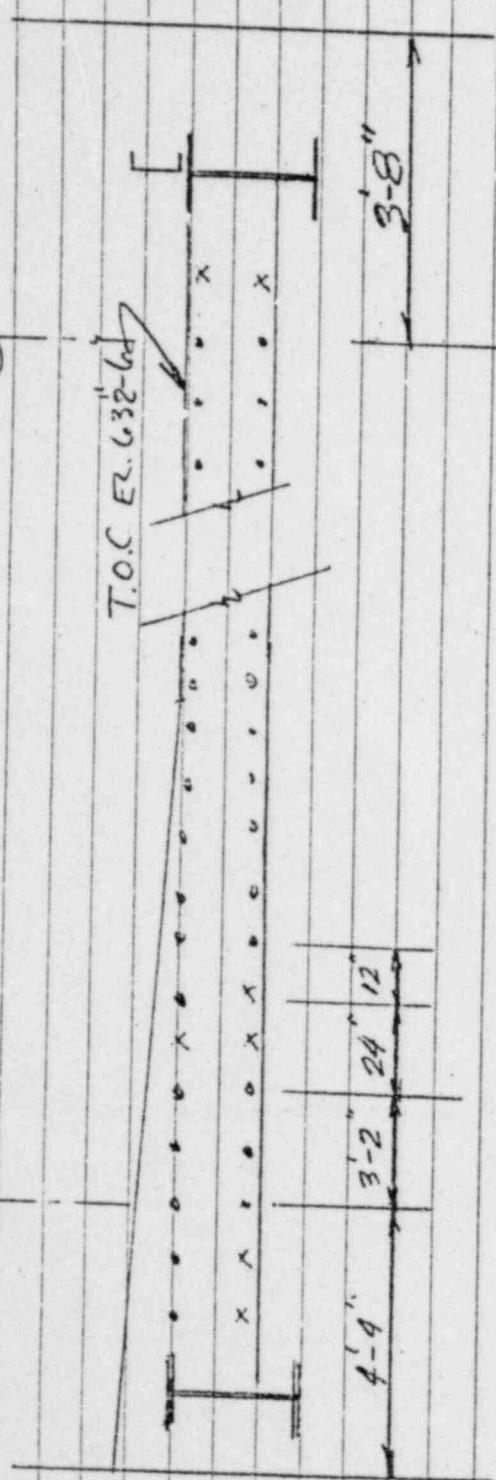
*Re Reworker 6.21.76
JC Jones 9/23/76*

24. IS DESIGN CHANGE REQUIRED <input type="checkbox"/> NO <input type="checkbox"/> YES, SEE ATTACHED:	26. REJECTED MATERIAL DISPOSITION <input type="checkbox"/> RETURN TO SUPPLIER <input type="checkbox"/> SCRAP	27. QC ACCEPTANCE
DRAWING _____ REV. _____ DCN _____	REMARKS _____	QC ENGINEER _____ DATE _____
SPEC _____ REV. _____ ADD. _____		AUTHORIZED INSPECTOR _____ DATE _____

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

5.6

7.4



G-LINE WALL SOUTH FACE
(LOOKING NORTH)

NOTE: "X" DENOTES "NO AXCEL"
PR. Account
6/25/76

RECEIVED

NONCONFORMANCE REPORT

2. DRAWING/PART NO. Spec 7220-M-201		REV. 6	7. PROJECT NO. 7220	12. REPORTED BY <i>Walter Beleg</i>	DATE 6-11-76	1. PAGE 1 OF 1	14. NCR NO. 437
3. ITEM DESCRIPTION 1 1/2-26" 90° LR ELLS		8. ITEM LOCATION CLASS "A" WHSE		13. VALIDATED BY <i>Walter Beleg</i>	DATE 6-11-76	25. DISPOSITION CONCURRENCE	
4. SERIAL NUMBER YN3B		9. STARTUP SYSTEM NO. N/A		15. REPLACEMENT PART NO. N/A		REWORK	REJECT
5. PURCHASE ORDER NO. 7220-M104 AC		10. QC FIELD INSPECTION PLAN NO. IR-R-1.00-109		16. REPLACEMENT SERIAL NO. N/A		REPAIR	USE AS IS
6. CONTRACTOR/LOCATION ITT Grinnell Kernersville, NC.		11. ASME CODE ITEM <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		17. SOURCE Supplier		OK	
18. ROUTING INSTRUCTIONS: <input type="checkbox"/> ROUTE TO FIELD ENGINEERING <input checked="" type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR							

A. Boon for
PROJECT FIELD ENGINEER
DATE 6-22-76

Walter Beleg
PROJECT FIELD QC ENGINEER
DATE 6-23-76

Walter Beleg
AUTHORIZED INSPECTOR
DATE 6/19/76

19. NONCONFORMING CONDITION:
Material Requisition 7220-M-104A Rev. 5, Paragraph Documentation Submittal Sub Paragraph 3 states in part "Form G-321-D shall be used and submitted" Contrary to the above documentation for 1 1/2-26" 90° LR ELL Code #YN3B Heat #W32851 did not contain the G-321-D forms. Noted during receipt inspection. "Q" No 4.185

14 Hold tags applied

20. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

Material Supp. to obtain documentation. M. Jensen 6/28/76

21. FIELD DISPOSITION RESULTS:
*Received requested documentation
Walter Beleg 6-29-76*

22. ENGINEERING DISPOSITION

23. ENGINEERING DISPOSITION RESULTS:

24. IS DESIGN CHANGE REQUIRED <input type="checkbox"/> NO <input type="checkbox"/> YES, SEE ATTACHED:	26. REJECTED MATERIAL DISPOSITION <input type="checkbox"/> RETURN TO SUPPLIER <input type="checkbox"/> SCRAP	27. QC ACCEPTANCE <i>Walter Beleg</i> 7-6-76 ENGINEER <i>Walter Beleg</i> 7/6/76 AUTHORIZED INSPECTOR
DRAWING _____ REV. _____ DCN _____	REMARKS	DATE
SPEC _____ REV. _____ ADD. _____		

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

BECHTEL

NONCONFORMANCE REPORT

2. DRAWING/PART NO. Spec. 7220-M-201		REV. 6	7. PROJECT NO. 7220	12. REPORTED BY <i>Robert S. Morrow</i>	DATE 6/14/76	1. PAGE 1 OF 3	14. NCR NO. 438
3. ITEM DESCRIPTION Pipe Spool		8. ITEM LOCATION QC Hold Area		13. VALIDATED BY <i>A. V. Jester</i>	DATE 6-14-76	25. DISPOSITION CONCURRENCE	
4. SERIAL NUMBER IHBC-124-S616-6-4		9. STARTUP SYSTEM NO. N/A		15. REPLACEMENT PART NO. N/A	REV. N/A	REWORK <input checked="" type="checkbox"/>	REJECT <input type="checkbox"/>
5. PURCHASE ORDER NO. M-104AC		10. QC FIELD INSPECTION PLAN NO. IR/R-1.00-87		16. REPLACEMENT SERIAL NO. N/A		REPAIR <input type="checkbox"/>	USE AS IS <input type="checkbox"/>
6. CONTRACTOR/LOCATION ITT Grinnell, Kernersville, N.C.		11. ASME CODE ITEM <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		17. SOURCE Supplier		QC <input type="checkbox"/>	DATE
18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING <input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR						PROJECT FIELD ENGINEER <i>J. C. Valenzuela</i>	DATE 6-28-76

15. NONCONFORMING CONDITION: Specification 7220-M-201, Rev. 6, Para. 6.2.2 states in part: "All materials shall be marked with the information required by the applicable manufacturing specifications and the Nuclear Power Plant Components Code, Paragraph NB-2150. Certification of materials by the manufacturers in accordance with the Nuclear Power Plant Components Code, Paragraph NB-2130 is required." Contrary to the above pipe spool IHBC-124-S616-6-4 was delivered to the jobsite with the code dataplate marked IHRC-124-S616-6-4. (See attached rubbing).

20. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

Material Supervisor to contact ITT Grinnell and obtain written field instructions for changing spool mark number on code data plate and arrange for ITT Grinnell authorized Inspector to witness re-stamping of code data plate at the jobsite. Field will change code data plate spool mark number from IHRC-124-S616-6-4 to IHBC-124-S616-6-4 after receiving the above instructions. *R. S. Morrow 6-28-76 95P 6-28-76*

22. ENGINEERING DISPOSITION

23. ENGINEERING DISPOSITION RESULTS:

24. IS DESIGN CHANGE REQUIRED <input type="checkbox"/> NO <input type="checkbox"/> YES, SEE ATTACHED:	26. REJECTED MATERIAL DISPOSITION <input type="checkbox"/> RETURN TO SUPPLIER <input type="checkbox"/> SCRAP	27. QC ACCEPTANCE
DRAWING _____ REV. _____ DCN _____	REMARKS _____	QC ENGINEER _____ DATE _____
SPEC _____ REV. _____ ADD _____		AUTHORIZED INSPECTOR _____ DATE _____

10088-1

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

QC-G3-2

Block 19 continued.

Nonconformance noted during receipt inspection. 'Q' number is 4.164. / Hold Tags applied.

10088-2

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

QC-033

RE ATTACHMENT Pg 3 of 3



RECEIVED

NONCONFORMANCE REPORT

1 PAGE 1 OF 2 14 NCR NO. 439

2. DRAWING/PART NO. 7220-M-201
 3. ITEM DESCRIPTION Pipe Spool
 4. SERIAL NUMBER IHBC-123-S616-6-2
 5. PURCHASE ORDER NO. 7220-M-104AC
 6. CONTRACTOR/LOCATION IIT Grinnell, Kernersville, NC
 7. PROJECT NO. 7220
 8. ITEM LOCATION QC Hold Area
 9. STARTUP SYSTEM NO. N/A
 10. QC FIELD INSPECTION PLAN NO. IR/R-1.00-108
 11. ASME CODE ITEM YES NO
 12. REPORTED BY *Matt's M...* DATE *6-15-76*
 13. VALIDATED BY *M. Hill* DATE *6-15-76*
 15. REPLACEMENT PART NO. N/A
 16. REPLACEMENT SERIAL NO. N/A
 17. SOURCE Supplier

25. DISPOSITION CONCURRENCE

REWORK	REJECT	REPAIR	SCRAP AS IS	NOI

PROJECT FIELD ENGINEER _____ DATE _____
 PROJECT ENGINEER _____ DATE _____
 PROJECT FIELD QC ENGINEER _____ DATE _____
 AUTHORIZE INSPECTOR _____ DATE _____

18. ROUTING INSTRUCTIONS. ROUTE TO FIELD ENGINEERING ROUTE TO MATERIAL SUPERVISOR

19. NONCONFORMING CONDITION: Specification 7220-M-201, Rev. 6, Para. 8.7 states in part: "Isometric line drawings will be furnished by the Buyer and will show overall dimensions of each line, branch connections, flanges, valve orientation, bypasses, instrument points, vents, drains, and connections to equipment." Contrary to the above, the pipe spool IHBC-123-S616-6-2 was delivered without the venturi assembly ^{AS IS} noted on the applicable drawing. Nonconformance noted during receipt inspection, 'Q' number is 4.164. 1 Hold tags applied (See Attached Drawing.)

20. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

22. ENGINEERING DISPOSITION

21. FIELD DISPOSITION RESULTS:

23. ENGINEERING DISPOSITION RESULTS:

24. IS DESIGN CHANGE REQUIRED NO YES, SEE ATTACHED:

DRAWING _____ REV. _____ DCN _____
 SPEC _____ REV. _____ ADD. _____

26. REJECTED MATERIAL DISPOSITION RETURN TO SUPPLIER SCRAP

REMARKS

27. QC ACCEPTANCE

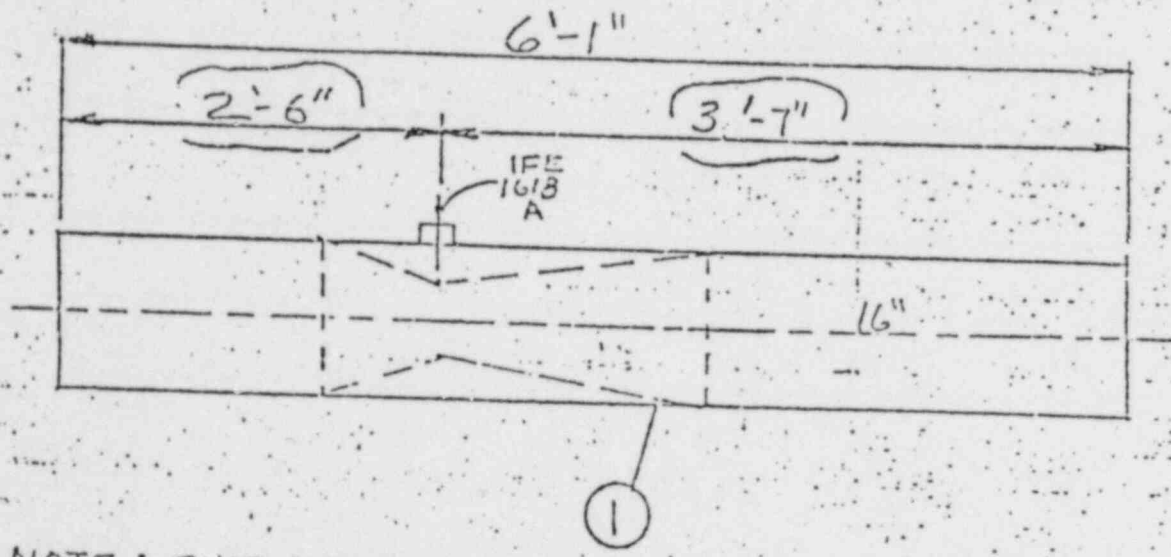
QC ENGINEER _____ DATE _____
 AUTHORIZED INSPECTOR _____ DATE _____

CONT. NO. 7091
 CONSUMERS POWER COMPANY
 MIDLAND, MICHIGAN

PK All

120

DEPT _____
 DRW'N WJ CHK'D DAD
 ① REDRAWN WJ 10/15/75 CHK'D DAD
 ② REV. DAD 12/17/75 CHK'D CWF
 ③ REV. DAD 1/8/76 CHK'D PWW
 ④ REV. NGWELL 2/6/75 CHK'D DAD
 ⑤ REV. DAD 5/8/76 CHK'D CWF
 cl = 1



NCR 439 Pg 2 of 2

NOTE: SHIP DIRECTLY TO
 VENTURI MANUFACTURER

USE 600°F SPEC PAINT

Revised 5-24-76
Boyer (Ritinsky)
Boyer

37 1/2° BEVEL ENDS

PIPE STD. WT, SA-106B

ASME CODE APPROVED

CARBON STEEL

IS <u>Nuc. CL. 2</u>	LINE SPEC. <u>HP-C</u>	APP. CODE <u>ASME</u>	SEC. <u>III</u>	NO. <u>1</u>
DIAGNOSIS (PT)	SPECIAL MARKING	PREHEAT	CERT. OF COMPLIANCE	
TITLE (NT)	SPECIAL CLEANING	HEAT TREAT	MILL TEST REPORTS <input checked="" type="checkbox"/>	
TRANT (PT)	PAINING	CODE STAMP <input checked="" type="checkbox"/>	DATA REPORTS	

STEM COMP. COOLING WTR PAU. SPECS. ES-10IN, ES-KV-19
 DRWG NO. M-616 SHT. 6A PRESS. 120 PSI. TEMP. 185 F. WT. 320 LBS.
MP-609-80 HP-C-100 MP-609-90

RECEIVED

NONCONFORMANCE REPORT

1. PAGE 1 OF 1 14. NC NO 440

2. DRAWING/PART NO. FSK-C-34A (Rollout)	REV. 1	7. PROJECT NO. 7220	12. REPORTED BY William M. Paudie	DATE 6-14-76
3. ITEM DESCRIPTION 1/4" Dome Liner Plate Assembly		8. ITEM LOCATION Unit #1 Dome Erection Jig	13. VALIDATED BY [Signature]	DATE 6-14-76
4. SERIAL NUMBER D-3-6		9. STARTUP SYSTEM NO. N/A	15. REPLACEMENT PART NO. N/A	REV.
5. PURCHASE ORDER NO. 7220-C-50A		10. QC FIELD INSPECTION PLAN NO. IR C-111-15W	16. REPLACEMENT SERIAL NO. N/A	
6. CONTRACTOR/LOCATION Works, Memphis, Tennessee		11. ASME CODE ITEM Southern Boiler & Tank <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	17. SOURCE Vendor	
18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING		<input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR		

25. DISPOSITION CONCURRENCE				
REWORK	REJECT	REPAIR	USE AS IS	ODC
				<input checked="" type="checkbox"/>
PROJECT FIELD ENGINEER				DATE
PROJECT ENGINEER				DATE
[Signature]				6-25-76
PROJECT FIELD QC ENGINEER				DATE
AUTHORIZED INSPECTOR				DATE

19. NONCONFORMING CONDITION: A discrepancy exists between mill slab number documentation and the vendor transferred stamp number. Documentation slab number is HT# 81989 Slab #8, the vendor transferred stamp is HT# 81982 Slab #8. Discrepancy detected during QC field review. Q List #1.109. 2 Hold Tag applied.

20. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

The field will contact vendor and verify correct heat and slab number. Documentation will then be corrected. Work may proceed.

[Signature] 6/24/76

21. FIELD DISPOSITION RESULTS:

22. ENGINEERING DISPOSITION

23. ENGINEERING DISPOSITION RESULTS:

24. IS DESIGN CHANGE REQUIRED NO YES, SEE ATTACHED:

DRAWING _____ REV. _____ DCN _____

SPEC. _____ REV. _____ ADD. _____

26. REJECTED MATERIAL DISPOSITION RETURN TO SUPPLIER SCRAP

REMARKS _____

27. QC ACCEPTANCE

QC ENGINEER _____ DATE _____

AUTHORIZED INSPECTOR _____ DATE _____

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

BECHTEL

NONCONFORMANCE REPORT

1. PAGE 1 OF 3	14. NCR NO. 441			
25. DISPOSITION CONCURRENCE				
REWORK	REJECT	REPAIR	USE AS IS	DDC
				X
APPROVED FOR F.C. Valenzuela 7-1-76 PROJECT FIELD ENGINEER		DATE		
PROJECT ENGINEER G. J. Roberts 6-31-76 DATE				
PROJECT FIELD QC ENGINEER I. Valenzuela 6/21/76 DATE				
AUTHORIZED INSPECTOR Gren Labret 7/1/76 DATE				

2. DRAWING/PART NO. Spec. 7220-M-120	REV. 3	7. PROJECT NO. 7220	12. REPORTED BY H. Boleen	DATE 6-15-76
3. ITEM DESCRIPTION 16" HBC-CK-Z Valves	8. ITEM LOCATION QC HOLD WARE #0616-76	13. VALIDATED BY H. Boleen	DATE 6-15-76	REV.
4. SERIAL NUMBER 5206-01-1-17 15, 16	9. STARTUP SYSTEM NO. N/A	14. REPLACEMENT PART NO. N/A	15. REPLACEMENT SERIAL NO. N/A	17. SOURCE Supplier
5. PURCHASE ORDER NO. 7220-M-120AC	10. QC FIELD INSPECTION PLAN NO. IR/R-1.00-84	11. ASME CODE ITEM YES NO		
6. CONTRACTOR/LOCATION Anchor/Darling Valve Co., Hayward, CA				
18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING <input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR				

19. NONCONFORMING CONDITION: The Purchase Order Item number on the manufacturer's valve identification tag does not agree with the Purchase Order Item number as shown on the Code Data Reports for the following valves: (1) The manufacturer's valve identification tag for the 16" HBC-CK-Z Valve with body serial No. 5206-01-1-17 shows Purchase Order Item 2.2. The Code Data Report for the 16" HBC-CK-Z Valve with serial No. 5206-01-1-17 shows Purchase Order Item 2.1.

20. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

Route this NCR to Procurement, Field Procurement Supervisor to obtain corrected code data reports from valve manufacturer.

Page 2 for Block 20 revised

Ren Handwerker to 21-76
M. Pulito 6-21-76

Continued on Page 2

21. FIELD DISPOSITION RESULTS:

Correct tags applied
HBC-CK-Z 7-2-76

22. ENGINEERING DISPOSITION

23. ENGINEERING DISPOSITION RESULTS:

24. IS DESIGN CHANGE REQUIRED NO YES, SEE ATTACHED:

DRAWING _____ REV. _____ DCN _____

SPEC _____ REV. _____ ADD. _____

26. REJECTED MATERIAL DISPOSITION RETURN TO SUPPLIER SCRAP

REMARKS

27. QC ACCEPTANCE

H. Boleen 7-2-76
Gren Labret 7/1/76

DATE DATE

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

QC-03-2



DATE

NONCONFORMANCE REPORT (CONT'D)

PAGE 2 OF 3

14. NCR NO. 441

Block 19 Cont.

(2) The manufacturer's valve identification tag for the 16" HBC-CK-Z Valve with body serial No. 5206-01-1-12 shows Purchase Order Item 2.1. The Code Data Report for the 16" HBC-CK-Z valve with body serial No. 5206-01-1-12 shows Purchase Order Item 2.2.

15 RB
7-1-76
15

Nonconformance noted during Receipt Inspection. Q List No. is indeterminate, 2 Hold Tags applied.

Block 20 revised:

Field to install correct valve identification tags supplied by vendor (see attached letter from Anchor Darling dated 6-25-76). Installation to be witnessed by OCE, AI, and field engineer. Removed tags shall be destroyed.

Chris Zbinden 7-1-76
M. Pulito 7-1-76



ANCHOR/DARLING VALVE COMPANY

24747 CLAWITER ROAD • HAYWARD, CALIFORNIA 94545 • (415) 785-2430
CABLE: ANCORCO • TELEX: 335451

June 25, 1976

BECHTEL POWER CORPORATION
PO Box 2167
Midland, Michigan. 48640

Attention: Quality Control Engineer

Subject: Bechtel PO 7220-M-120-AC
Bechtel Itesm 2.1 and 2.2

Gentlemen:

Enclosed please find new Anchor/Darling nameplates to replace incorrect plates shipped on the two valves.

Sincerely,

ANCHOR/DARLING VALVE COMPANY

M. A. Solyan

M.A. Solyan/se
Project Engineer

encl/ack

cc J.P. Punch
M.L. Acker, Bechtel Expediter
S. Ghose, Bechtel

RECEIVED

JUN 28 1976

QUALITY CONTROL
BECHTEL JOB 7220
SIGNATURE *[Signature]*

ROUTE	QC 07220	INIT.
PFOCE		<i>[Initials]</i>
A. PFOCE		
CIVIL		
ELECT.		
PIPING		
MECH.		
WELDING		
DOC.		
RECEIVING		
OPEN FOR		
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
DATE _____		



NONCONFORMANCE REPORT

1. PAGE 1 OF 4 14. NCR NO 442

2. DRAWING/PART NO. 7220-M-129A	REV. 2	7. PROJECT NO. 7220	12. REPORTED BY <i>[Signature]</i>	DATE <i>[Date]</i>
3. ITEM DESCRIPTION Valves		8. ITEM LOCATION QC Hold Area	13. VALIDATED BY <i>[Signature]</i>	DATE
4. SERIAL NUMBER See pg. 2, 3, & 4 of 4		9. STARTUP SYSTEM NO. N/A	15. REPLACEMENT PART NO. N/A	REV.
5. PURCHASE ORDER NO. 7220-M-129A AC		10. QC FIELD INSPECTION PLAN NO. IR/R-1.00-112	16. REPLACEMENT SERIAL NO. N/A	
6. CONTRACTOR/LOCATION Kerotest Manufacturing Corp.	Pittsburgh, PA	11. ASME CODE ITEM <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	17. SOURCE Supplier	

25. DISPOSITION CONCURRENCE				
REWORK	REJECT	REPAIR	USE AS IS	DDC
PROJECT FIELD ENGINEER				DATE
PROJECT ENGINEER				DATE
PROJECT FIELD QC ENGINEER				DATE
AUTHORIZED INSPECTOR				DATE

18. ROUTING INSTRUCTIONS: ROUTE TO FIELD ENGINEERING ROUTE TO MATERIAL SUPERVISOR

19. NONCONFORMING CONDITION: Specification 7220-M-129A, Rev. 2, Appendix A3, Instructions for preparing G-321-D, Para. 'G', item 20, states: "Enter identification number(s) traceable to the unit(s) being released, e.g. serial no., heat no. of major component, cable reel no., or other unique designator." Contrary to the above, the G-321-D is not traceable to the following 83 valves: See pg. 2, 3, & 4 of 4. Nonconformance noted during receipt inspection. 'Q' number is indeterminate. ^{KEB} 6-17-76 Hold Tags applied.

20. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

21. FIELD DISPOSITION RESULTS:

22. ENGINEERING DISPOSITION

23. ENGINEERING DISPOSITION RESULTS:

24. IS DESIGN CHANGE REQUIRED NO YES, SEE ATTACHED:

DRAWING _____ REV. _____ DCN _____

SPEC. _____ REV. _____ ADD. _____

26. REJECTED MATERIAL DISPOSITION RETURN TO SUPPLIER SCRAP

REMARKS

27. QC ACCEPTANCE

QC ENGINEER _____ DATE _____

AUTHORIZED INSPECTOR _____ DATE _____

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

MATERIAL RECEIVING REPORT

Q. C. DISTRIBUTION

P.O. NO. 7220-M-129A-AC JOB NO. 7220

SPEC. NO.

MRR NO. AEO - 1521 DATE 6/8/76

VENDOR Kerotest Manufacturing Corporation

REF. DWG.

SHIPPED BY Vendor

SHIPPING POINT Pittsburgh, PA

SERVICE

Q. ITEM NO. Q. NO.	QUANTITY RECEIVED	COMPLETE DESCRIPTION
Page 1 of 3		
13.1	3	2" Globe valve ECC-YGB-R 600# S.S. s/n TEC 1-1, 1-3, 1-2
13.4	6	2" Globe valve ECC-YGB-RD 600# S.S. s/n TEB 1-11, 1-4, 1-7 1-6, 1-2, 1-5
13.6	2	2" Globe valve ECC-YGB-R 600# S.S. s/n TEC 1-4, 1-5
13.9	4	2" Globe valve ECC-YGB-RD 600# S.S. s/n TPB-19, TEB 1-17, 1-12, 1-13
17.1	4	2" Globe valve ECC-YGB-RD 600# S.S. s/n TEB 1-25, 1-21, 1-24, 1-23
17.0	13	2" Globe valve ECC-YGB 600# S.S. s/n TEC 1-16, 1-15, 1-7, 1-17, 1-6, 1-11, 1-10, 1-14, 1-8, 1-13, 1-12, 1-9, 1-18
7.1	4	2" Globe valve ECC-YGB-R 600# S.S. s/n TEC 1-21, 1-19, 1-20 1-20
7.1	2	2" Globe valve ECC-YGB-R 600# S.S. s/n TEC 1-23, 1-24

SHOP INSPECTION RELEASE REC'D
YES () N.R. () NO ()

QC RECORDS RECEIVED
YES () N.R. () NO ()

NON CONFORMANCE TAG NO. ()

SECTION PROCESS
D. COMMENT/INSTRUCTION

PREPARED BY Butler MS/FLD ENG	DATE	APPROVED BY	DATE
		PFE/QC	

RECEIVING SLIP NO. **GLX** F.B. NO. **15-224099** CAR NO. _____
 DATE **6/4/76** WEIGHT **5000#** CHARGES **NA** PREPAID () COLLECT ()
 SLIP NO. **56700 (8 pages)** PARTIAL () COMPLETE () OSO NO. _____
 DELIVERED TO/LOCATION **Bechtel Power Corp., agents for Consumers Power Co.**
 CHECKED & COUNTED BY _____ THIS REPORT BY _____

NCR 442
 Pg. 2 of 4

MATERIAL RECEIVING REPORT

Q. C. DISTRIBUTION

P.O. NO. 7220-M-129A-AC JOB NO. 7220

SPEC. NO.

MRR NO. AEO - 1521 DATE 6/8/76

VENDOR Kerotest Manufacturing Corporation

REF. DWG.

SHIPPED BY Vendor

SHIPPING POINT Pittsburgh, PA

SERVICE

Q. ITEM NO. Q. NO.	QUANTITY RECEIVED	COMPLETE DESCRIPTION
Page 2 of 3		
10.1	5	2" Globe valve CCB-YGB-R 1500# S.S. s/n MC-11-6, 11-2, 11-11, 11-5, 11-10
1.2	3	2" Globe valve CCC-YGB-R 1500# S.S. s/n MC-11-14, 11-7, JU 4-25
1.5	1	2" Globe valve CCC-YGB-R 1500# S.S. s/n MC-11-20
1.3	2	2" Globe valve ECB-YGB-R 600# S.S. s/n TEE 1-21, 1-22
0.2	3	2" Globe valve CCB-YGB-R 1500# S.S. s/n MC-11-21, 11-23, 11-24
2.3	2	2" Globe valve ECB-YGB-R 600# S.S. s/n MC 9-18, 6-1
1.1	1	2" Globe valve ECB-YGB-R 600# S.S. s/n TEE 1-9
1.6	3	2' Globe valve ECB-YGB-R 600# S.S. s/n TEE 1-12, 1-11, 1-17
	25	3/4" Globe valve ECB-YGB-PR 600# S.S. s/n SXE 3-22, OW 22-5 22-11, 22-15, 22-23, 22-10, 22-19, 22-12, 22-6, 22-1, 22-3, 22-9

SHOP INSPECTION RELEASE REC'D YES () N.R. () NO ()	QC RECORDS RECEIVED YES () N.R. () NO ()	NON CONFORMANCE TAG NO. ()
--	--	-----------------------------

RECEIVED BY MS/FLD ENG	DATE	APPROVED BY PFE/QC	DATE
---------------------------	------	-----------------------	------

WEIGHT _____ F.B. NO. _____ CAR NO. _____

CHARGES _____ PREPAID () COLLECT ()

PARTIAL () COMPLETE ()

OSD NO. _____

DELIVERED TO/LOCATION
Bechtel Power Corp., agents for Consumers Power Co.

CHKD & COUNTED BY

NCR 442 Pg. 3 of 4

RECHTEL

NONCONFORMANCE REPORT

1. PAGE 1 OF 2	14. NCR NO. 443
25. DISPOSITION CONCURRENCE	
REWORK <input checked="" type="checkbox"/>	REJECT <input type="checkbox"/>
REPAIR <input type="checkbox"/>	USE AS IS <input type="checkbox"/>
QC <input type="checkbox"/>	
PROJECT FIELD ENGINEER: <i>Albert H. Thompson</i> DATE: <i>6/14/76</i> PROJECT ENGINEER: _____ DATE: _____ PROJECT FIELD QC ENGINEER: _____ DATE: <i>7-2-76</i> AUTHORIZED INSPECTOR: _____ DATE: _____	

2. DRAWING/PART NO. C-204/4, C-282/6, C-284/3	7. PROJECT NO. 7220	12. REPORTED BY <i>J.P. C... ..</i>	DATE <i>6/15/76</i>
3. ITEM DESCRIPTION Reinforcing Steel	8. ITEM LOCATION Auxiliary Building	13. VALIDATED BY <i>Ed. Foster</i>	DATE
4. SERIAL NUMBER N/A	9. STARTUP SYSTEM NO. N/A	15. REPLACEMENT PART NO. N/A	REV.
5. PURCHASE ORDER NO. N/A	10. QC FIELD INSPECTION PLAN NO. N/A	16. REPLACEMENT SERIAL NO. N/A	
6. CONTRACTOR/LOCATION <i>N/A</i>	11. ASME CODE ITEM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	17. SOURCE Construction	
18. ROUTING INSTRUCTIONS <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING <input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR			

19. NONCONFORMING CONDITION: Drawing 7220-C-282, Revision 6 requires that Wall 53 be reinforced with horizontal #6 bars at 12" spacing. Contrary to the above two #6 dowels are missing at Elev. 623'-3" & 624'-3" at intersection of Wall 53 with K_C Line. See Sections & Plan on attached Drilling Permit for exact location. "Q"-List No. 1.203. One Hold Tag applied.

20. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

Rework as follows: Drill 1 1/2" diam. holes, fill holes with non-shrink grout (Embeco 636) and set the missing 2-#6 horizontal bars. Grouting of bars shall be in accordance with the grout manufacturer's instructions. Embedment lengths and lap splices of dowels shall conform to the prescribed table of Dwg. C-211, Rev. 4. Expected implementation date: 7/16/76. *R. K... .. 6/23/76*

21. FIELD DISPOSITION RESULTS:

23. ENGINEERING DISPOSITION RESULTS:

22. ENGINEERING DISPOSITION

24. IS DESIGN CHANGE REQUIRED NO YES, SEE ATTACHED:

DRAWING _____ REV. _____ DCN _____

SPEC _____ REV. _____ ADD. _____

26. REJECTED MATERIAL DISPOSITION RETURN TO SUPPLIER SCRAP

REMARKS

27. QC ACCEPTANCE

QC ENGINEER _____ DATE _____

AUTHORIZED INSPECTOR _____ DATE _____

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

CONCRETE DRILLING PERMIT

NCR ATTACHMENT

Project 7220

Permit No. 3

Prepared By: G. CLARK

Discipline: CIVIL

Date: APRIL 22, 1976

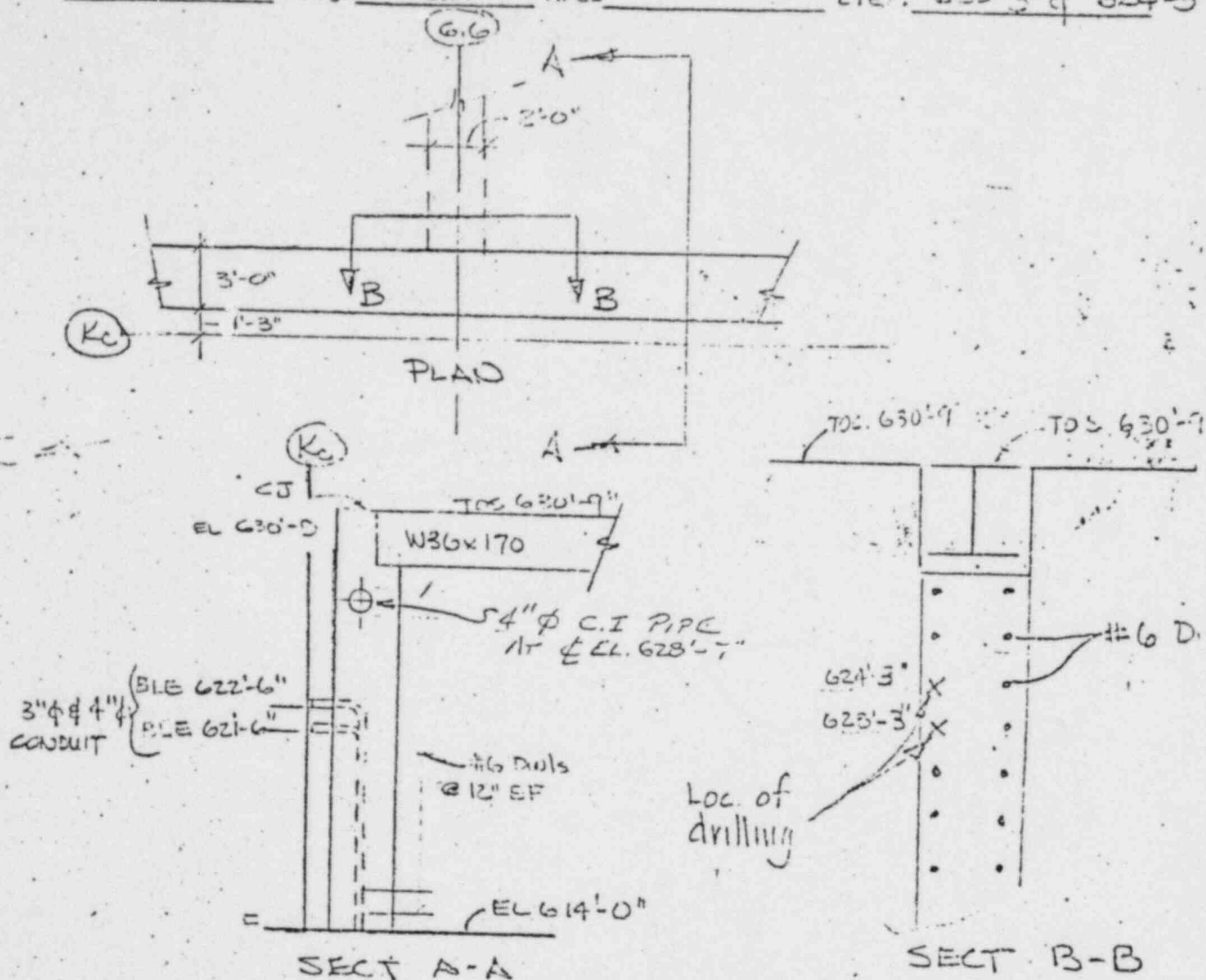
Unit

Bldg.

Aux.

Area

Elev. 623'-3" & 624'-3"



Specific Instructions: Drill 2-1 1/4" φ (or larger) holes 2'-2" Deep 1/4" W. of E. Face of Wall 53 for #6 Dowels at Location shown on Sect BB

Reference Drawings C-204/4; C-282/6; C-284/3; M-218/2 SH1

Approved By:

Civil	<u>R.R. Kuvira</u>	Date	_____
Elect	<u>A.K. Kuvira</u>	Date	<u>4-22-76</u>
Mech.	<u>G. Butler</u>	Date	<u>4-26-76</u>
Piping	<u>G. Butler</u>	Date	<u>4-26-76</u>
Instru	<u>NA</u>	Date	_____

UNCONTROLLED



NONCONFORMANCE REPORT (CONT'D)

1. PAGE 2 OF 2

14. NCR NO 444

7220-G-140, Revision 8, contrary to the above "H" Line Wall and the north one foot of Wall 53 have been placed to Elev. 630.75' without providing diagonal bars above the north side of the opening. Nonconformance noted during Q.C. Inspection. "Q"-List No. 1.203. Three Hold Tags Attached.

Lined area for additional notes or signatures.

10088-2

White Copy - Originator
Canary Copy - Field Engineer
Pink Copy - PL, AF
Goldenrod Copy - OC

QC-033

BECHTEL

NONCONFORMANCE REPORT

2. DRAWING/PART NO. <u>Spec 7220-M-209</u>		REV. <u>3</u>	7. PROJECT NO. <u>7220</u>	12. REPORTED BY <u>[Signature]</u>	DATE <u>11/17</u>	1. PAGE 1 OF <u>2</u>	14. NCR NO. <u>445</u>			
3. ITEM DESCRIPTION <u>Pipe Support</u>		8. ITEM LOCATION <u>QC Hold</u>	9. STARTUP SYSTEM NO. <u>N/A</u>	13. V. DATED BY <u>[Signature]</u>	DATE <u>11-17</u>	25. DISPOSITION CONCURRENCE				
4. SERIAL NUMBER <u>See Block 19</u>		10. QC FIELD INSPECTION PLAN NO. <u>R-1.00-58</u>	11. ASME CODE ITEM <input type="checkbox"/> YES <input type="checkbox"/> NO	15. REPLACEMENT PART NO. <u>N/A</u>	REV.	REWORK	REJECT	REPAIR	USE AS IS	DOC.
5. PURCHASE ORDER NO. <u>7220-M-106AC Rev. 2</u>		18. ROUTING INSTRUCTIONS: <input type="checkbox"/> ROUTE TO FIELD ENGINEERING <input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR		16. REPLACEMENT SERIAL NO. <u>N/A</u>	17. SOURCE <u>Supplier</u>	PROJECT FIELD ENGINEER		DATE		
6. CONTRACTOR/LOCATION <u>TERR Crinnell, Warren, Ohio</u>						PROJECT ENGINEER		DATE		
						PROJECT FIELD QC ENGINEER		DATE		
						AUTHORIZED INSPECTOR		DATE		

19. NONCONFORMING CONDITION:
(1) Purchase order 7220-M-106AC, Rev. 2, Documentation Submittal, Para. 2 states in part: "All engineering documents marked in column 5 of Form G-321-D must be submitted for Buyer approved. Those engineering documents marked Yes in column 5 require approval prior to commencement of fabrication." Contrary to the above, the Quality Documentation for the hangers show that they were fabricated to sketches that had a Bechtel approved level 4 "Not approved-Correct and resubmit."

20. <input type="checkbox"/> FIELD DISPOSITION <input type="checkbox"/> FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING	21. FIELD DISPOSITION RESULTS:
22. ENGINEERING DISPOSITION	23. ENGINEERING DISPOSITION RESULTS:

24. IS DESIGN CHANGE REQUIRED <input type="checkbox"/> NO <input type="checkbox"/> YES, SEE ATTACHED: DRAWING _____ REV. _____ DCN _____ SPEC. _____ REV. _____ ADD. _____	26. REJECTED MATERIAL DISPOSITION <input type="checkbox"/> RETURN TO SUPPLIER <input type="checkbox"/> SCRAP REMARKS _____	27. QC ACCEPTANCE QC ENGINEER _____ DATE _____ AUTHORIZED INSPECTOR _____ DATE _____
--	---	--

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

BECHTEL

NONCONFORMANCE REPORT (CONT'D)

1. PAGE 2 OF 2

14. NCR NO. 445

Cont. Block 19

Hanger MK#	Drawing	Shop Order
10-1FCB-22-H18	1-610-6-21	E-ME-057

(2) Purchase order 7220-M-106AC Rev. 2 Item A states in part: "Parts lists required shall contain the name and number of every part for the equipment and its auxiliaries including drawings in sufficient detail to locate and identify each part." Contrary to the above, the G-321-D for this shipment references the packing list as the traceable document. The packing list does not agree with the drawings sent with the shipment on the following listed hanger pipe support assemblies.

Packings List Dwg's Referenced	Dwg's Sent With Shipment	Hanger No.	Hanger Shipping Order
2-611-6-10 Rev. 1	Rev. 2	10-2FCB-35-H10	E-ME-004
2-611-6-20 Rev. 1	Rev. 2	10-2FCB-22-H17	"
2-611-6-26 Rev. 1	Rev. 2	10-2FCB-42-H1	"
2-611-6-38 Rev. 1	Rev. 2	2 1/2-2CCB-28-H3	"
1-610-3-3 Rev. 0	Rev. 1	24-1HCB-2-H3	E-ME-024
1-610-3-5 Rev. 0	Rev. 1	24-1HCB-2-H5	"
1-610-3-6 Rev. 0	(Did not send dwg or hanger assembly)		"
1-610-3-18 Rev. 1	Rev. 2	18-1GCB-32-H3	"
1-610-3-19 Rev. 0	Rev. 1	18-1GCB-32-H4	"
1-610-5-11 Rev. 0	Rev. 1	24-1HCB-1-H3	E-ME-047
1-610-5-22 Rev. 0	Rev. 2	18-1HCB-1-H14	"

Nonconformance noted during receipt inspection. 'Q' Number is 4.102 and 4.112

11 ^{4.102} _{4.112} Hold Tags applied

BECHTEL

NONCONFORMANCE REPORT

1. PAGE 1 OF 2	14. NCR NO. 446
25. DISPOSITION CONCURRENCE	
REWORK	REJECT
REPAIR	USE AS IS
	DISC
PROJECT FIELD ENGINEER: <i>F. C. Valicogian</i> 6-29-76 PROJECT ENGINEER: <i>[Signature]</i> 6-29-76 PROJECT FIELD QC ENGINEER: <i>[Signature]</i> AUTHORIZED INSPECTOR: <i>[Signature]</i> 6/29/76	

2. DRAWING/PART NO. Spec. 7220-M-201	REV. 6	7. PROJECT NO. 7220	12. REPORTED BY <i>[Signature]</i>	DATE 6-16-76
3. ITEM DESCRIPTION 26" Coated & Wrapped Pipe	8. ITEM LOCATION Sasse Road	13. VALIDATED BY <i>[Signature]</i>	DATE 6-17-76	
4. SERIAL NUMBER TF106706-60-1 thru 25	9. STARTUP SYSTEM NO. N/A	15. REPLACEMENT PART NO. N/A	REV.	
5. PURCHASE ORDER NO. 7220-M104A-AC	10. QC FIELD INSPECTION PLAN NO. IR-R-1.00-122 6-17-76	16. REPLACEMENT SERIAL NO. N/A		
6. CONTRACTOR/LOCATION ITT Grinnell, Kernersville, NC	11. SMC CIVE ITE. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	17. SOURCE Supplier		

18. ROUTING INSTRUCTIONS: ROUTE TO FIELD ENGINEERING *J-6 6-27-76* ROUTE TO MATERIAL SUPERVISOR

19. NONCONFORMING CONDITION:

(1) FIM G-5, Rev. 0, Para. 3.3.4 states in part: "A preliminary inspection shall be performed by the QCE at the time of unloading to identify damage that may have occurred during loading or shipment." (2) M/R 7220-M104A, Rev. 5, Para. 3 states in part: "Form G-321-D shall be used and submitted in accordance with items C and D given on the form. Specification paragraphs references on Form G-321-D are to specification 7220-M-201 unless otherwise noted."

20. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

Item 1 - Coating & wrapping damage will be repaired and tested in the field in accordance with Spec. 7220-G-8 at the time of installation. (Non-Q) *sup*

Item 2 - Material ^{supervisor} supervision will secure required documentation.

22. ENGINEERING DISPOSITION

R. M. [Signature]
6-24-76
K. Pulito 6-24-76

Cont. pg 2

21. FIELD DISPOSITION RESULTS:

23. ENGINEERING DISPOSITION RESULTS:

24. IS DESIGN CHANGE REQUIRED NO YES, SEE ATTACHED:

DRAWING _____ REV. _____ DCN _____

SPEC. _____ REV. _____ ADD. _____

26. REJECTED MATERIAL DISPOSITION RETURN TO SUPPLIER SCRAP

REMARKS

27. QC ACCEPTANCE

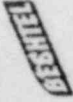
QC ENGINEER _____ DATE _____

AUTHORIZED INSPECTOR _____ DATE _____

10098-1

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

QC-G3-2



NONCONFORMANCE REPORT (CONT'D)

Block 19 cont.

(1) Damage was noted to the coating and wrapping on the following spools: S/N TF106706-601-3

TF106706-601-12

TF106706-601-18

TF106706-601-21

(2) Contrary to the above we have not received a G-321-D or A documentation package for the following spools:

S/N TF106706-601-1 thru 25 noted during receipt inspection. "Q" No. 4,192 25 Hold tags applied

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

SECRET

NONCONFORMANCE REPORT

1. PAGE 1 OF 2 14. NCR NO. 447

2. DRAWING/PART NO. Spec. 7220-M-201	REV. 6	7. PROJECT NO. 7220	12. REPORTED BY <i>John Blum</i>	DATE 6-17-76	25. DISPOSITION CONCURRENCE REWORK REJECT REPAIR USE AS IS DOC
3. ITEM DESCRIPTION Pipe Fittings	8. ITEM LOCATION Sasse Road	13. VALIDATED BY <i>Bill. [unclear]</i>	DATE 6-17-76		
4. SERIAL NUMBER WO 3344	9. STARTUP SYSTEM NO. N/A	15. REPLACEMENT PART NO. N/A	REV.		PROJECT FIELD ENGINEER _____ DATE _____
5. PURCHASE ORDER NO. 7220-M-104A-AC	10. QC FIELD INSPECTION PLAN NO. IR/R-1.00-120	16. REPLACEMENT SERIAL NO. N/A			PROJECT ENGINEER _____ DATE _____
6. CONTRACTOR/LOCATION ITT Grinnell, Kernersville, NC	11. ASME CODE ITEM <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	17. SOURCE Supplier			PROJECT FIELD QC ENGINEER _____ DATE _____
18. ROUTING INSTRUCTIONS <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING <input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR					AUTHORIZED INSPECTOR _____ DATE _____

19. NONCONFORMING CONDITION:

(1) ~~Form G-321-D requires quality documentation to be submitted to the jobsite. Contrary to the above, the documentation package has not been received.~~ *AD 6-21-76 [unclear]*

(2) Specification 7220-M-201, Rev. 6, Para. 6.6.1, Section b. states: "A metal cap shall be placed over each opening and sealed to the pipe with at least 3 passes of sealing tape."
Contrary to the above, 1ea 26" 45° ELL did not have a cap on either end.

(3) Specification 7220-M-201, Rev. 6, Para. 6.6.3 states in part: "Carbon steel flanges shall be sealed with

20. <input type="checkbox"/> FIELD DISPOSITION <input checked="" type="checkbox"/> FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING	21. FIELD DISPOSITION RESULTS
22. ENGINEERING DISPOSITION	23. ENGINEERING DISPOSITION RESULTS

24. IS DESIGN CHANGE REQUIRED <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES, SEE ATTACHED:	26. REJECTED MATERIAL DISPOSITION <input type="checkbox"/> RETURN TO SUPPLIER <input type="checkbox"/> SCRAP	27. QC ACCEPTANCE
DRAWING _____ REV. _____ DCN _____	REMARKS _____	QC ENGINEER _____ DATE _____
SPEC _____ REV. _____ ADD. _____		AUTHORIZED INSPECTOR _____ DATE _____

10098-1

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

QC-G3-2

NONCONFORMANCE REPORT (CONT'D)

PAGE 2 OF 2

14. NCR NO 447

Block J9 continued.

metal or non-metallic disc bolted to the flange. "

Contrary to the above, all 12 of the 24" flange covers were not bolted to the flanges and the flange covers are all broken.

(4) Specification 7220-M-201, Rev. 6, Para. 6.6.6 states: "All external surfaces of carbon steel piping assemblies except machined surfaces shall be given one shop coat of primer after ends have been sealed. " Contrary to the above, none of the 20ea 26" 45° E.L.L's have been coated.

Nonconformances noted during receipt inspection. Q-List #4.192. 26 Hold Tags applied.

10086-2

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

QC-033

BECHTEL

NONCONFORMANCE REPORT

2. DRAWING/PART NO. 7220-M-616 sh-7 (As Built)		REV. 2	7. PROJECT NO. 7220	12. REPORTED BY P. J. Pitts	DATE 7-21-76	1. PAGE 1 OF 2	14. NCR NO. 443
3. ITEM DESCRIPTION Carbon Steel Pipe Spool		8. ITEM LOCATION See Block 19		13. VALIDATED BY [Signature]	DATE 7-21-76	25. DISPOSITION CONCURRENCE	
4. SERIAL NUMBER 1HRC-133-S616-7-6		9. STARTUP SYSTEM NO. N/A		15. REPLACEMENT PART 1 N/A		REWORK	REJECT
5. PURCHASE ORDER NO. 7220-M-104AC		10. QC FIELD INSPECTION PLAN NO. N/A		16. REPLACEMENT SERIAL NO. N/A		REPAIR	USE AS IS
6. CONTRACTOR/LOCATION ITT Grinnell, Kernersville, NC		11. ASME CODE ITEM <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		17. SOURCE Supplier		DATE	DOC
18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING <input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR							

19. NONCONFORMING CONDITION:
 Specification 7220-M-201, referenced by PO 7220-M-104AC, states in part (Paragraph 9.1) "The seller shall establish and maintain a system for the control of quality during fabrication and shipping which will assure that all materials including purchased and subcontracted items, conform to these specifications. This system shall be organized in such a manner that it will be possible to relate every component of the finished spool to its fabrication history."

20. <input type="checkbox"/> FIELD DISPOSITION <input type="checkbox"/> FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING		21. FIELD DISPOSITION RESULTS:	
22. ENGINEERING DISPOSITION		23. ENGINEERING DISPOSITION RESULTS:	
24. IS DESIGN CHANGE REQUIRED <input type="checkbox"/> NO <input type="checkbox"/> YES, SEE ATTACHED:		26. REJECTED MATERIAL DISPOSITION <input type="checkbox"/> RETURN TO SUPPLIER <input type="checkbox"/> SCRAP	
DRAWING _____ REV. _____ DCN _____ SPEC _____ REV. _____ ADD. _____		27. QC ACCEPTANCE QC ENGINEER _____ DATE _____ AUTHORIZED INSPECTOR _____ DATE _____	

10088-1

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

QC-G3-2

ECHE

NONCONFORMANCE REPORT (CONT'D)

PAGE 2 OF 2

14 NCR NO. 443

Cont. Block 19

Contrary to the above, the data furnished with pipe spool 1HBC-133-S616-7-6 (PO 7220-M-104AC, MT-69-50, Load Sheet #69) included a Materials Record listing Base and Filler Materials which was incorrectly identified with spool number 1-HBC-133-161-7-6.

Nonconformance noted during Documentation Review, Q List No. 4.164. One Hold tag applied.

Location: Locked Storage Area

100882

QC-033

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

BECHTEL

NONCONFORMANCE REPORT

2. DRAWING/PART NO. Spec. 7220-M-209		REV. 3	7. PROJECT NO. 7220	12. REPORTED BY [Signature]	DATE 6/1/76	1. PAGE 1 OF 1	14. NCR NO. 449
3. ITEM DESCRIPTION Pipe Supports		8. ITEM LOCATION QC Hold		13. VALIDATED BY [Signature]	DATE 1-21-76	25. DISPOSITION CONCURRENCE	
4. SERIAL NUMBER See Block 19		9. STARTUP SYSTEM NO. N/A		15. REPLACEMENT PART NO. N/A	REV.	REWORK	REJECT
5. PURCHASE ORDER NO. 7220-M-106AC Rev. 2		10. QC FIELD INSPECTION PLAN NO. IR/R-1.00-124		16. REPLACEMENT SERIAL NO. N/A		REPAIR	USE AS IS
6. CONTRACTOR/LOCATION TNT Grinnell, Warren, Ohio		11. ASME CODE ITEM <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		17. SOURCE Supplier		DOC	
18. ROUTING INSTRUCTIONS: <input type="checkbox"/> ROUTE TO FIELD ENGINEERING <input checked="" type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR							

19. NONCONFORMING CONDITION:
Purchase Order 7220-M-106AC, Rev. 2 Item A states in part: "Parts lists required shall contain the name and number of every part for the equipment and its auxiliaries including drawings in sufficient detail to locate and identify each part." Contrary to the above, the G-321-D for this shipment references the packing list as the traceable document. The packing list does not agree with the drawing sent with the shipment on hanger 12-1GCB-25-H14.

Cont. pg 2

20. <input type="checkbox"/> FIELD DISPOSITION	<input type="checkbox"/> FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING	21. FIELD DISPOSITION RESULTS:
22. ENGINEERING DISPOSITION		23. ENGINEERING DISPOSITION RESULTS:

24. IS DESIGN CHANGE REQUIRED <input type="checkbox"/> NO <input type="checkbox"/> YES, SEE ATTACHED:	26. REJECTED MATERIAL DISPOSITION <input type="checkbox"/> RETURN TO SUPPLIER <input type="checkbox"/> SCRAP	27. QC ACCEPTANCE
DRAWING _____ REV. _____ DCN _____	REMARKS _____	QC ENGINEER _____ DATE _____
SPEC _____ REV. _____ ADD. _____		AUTHORIZED INSPECTOR _____ DATE _____

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

NONCONFORMANCE REPORT (CONT'D)

1 PAGE 2 OF 2

14 NCR NO. 449

Cont. Block 19

Packing List Dwg sent with shipment Hanger Number Hanger Shipping Order

1-610-5-5 Rev. 1 Rev. 2 12-1-GCB-24-H14 E-ME-080

Nonconformance noted during receipt inspection. Q-List No. 4.102 / Hold tags applied.

10098-2

QC-037

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

BECHTEL

NONCONFORMANCE REPORT

2. DRAWING/PART NO. Spec. 7220-M-209		7. PROJECT NO. 7220	12. REPORTED BY <i>[Signature]</i>	DATE <i>[Date]</i>	1. PAGE 1 OF <u>3</u>	14. NCR NO. 450
3. ITEM DESCRIPTION Pipe Supports	REV. 3	8. ITEM LOCATION QC Hold	13. VALIDATED BY <i>[Signature]</i>	DATE 6-21-76	25. DISPOSITION CONCURRENCE	
4. SERIAL NUMBER See Block 19		9. STARTUP SYSTEM NO. N/A	15. REPLACEMENT PART NO. N/A	REV.	REWORK	REJECT
5. PURCHASE ORDER NO. 7220-M-106AC		10. QC FIELD INSPECTION PLAN NO. IR/R-1.00-81	16. REPLACEMENT SERIAL NO. N/A		REPAIR	USE AS IS
6. CONTRACTOR/LOCATION ITT Grinnell, Warren, Ohio		11. ASME CODE ITEM <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	17. SOURCE Supplier		DOC	
18. ROUTING INSTRUCTIONS: <input type="checkbox"/> ROUTE TO FIELD ENGINEERING		<input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR		PROJECT FIELD ENGINEER _____ DATE _____		
				PROJECT ENGINEER _____ DATE _____		
				PROJECT FIELD QC ENGINEER _____ DATE _____		
				AUTHORIZE INSPECTOR _____ DATE _____		

19. NONCONFORMING CONDITION:
Purchase Order 7220-M-106AC, Rev. 2, Documentation Submittal, Para. 2, states in part:
"All engineering documents marked in column 5 of Form G-321-D must be submitted for Buyer approval. Those engineering documents marked Yes in column 5 require approval prior to commencement of fabrication."
Contrary to the above, the Quality Documentation for the hangers show that they were fabricated to sketches that had a Bechtel approval level 4 "Not approved - Correct and resubmit."

20. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

Cont. on Pg. 2

22. ENGINEERING DISPOSITION	21. FIELD DISPOSITION RESULTS:

24. IS DESIGN CHANGE REQUIRED <input type="checkbox"/> NO <input type="checkbox"/> YES, SEE ATTACHED:	26. REJECTED MATERIAL DISPOSITION <input type="checkbox"/> RETURN TO SUPPLIER <input type="checkbox"/> SCRAP	27. QC ACCEPTANCE
DRAWING _____ REV. _____ DCN _____	REMARKS	QC ENGINEER _____ DATE _____
SPEC. _____ REV. _____ ADD. _____		AUTHORIZED INSPECTOR _____ DATE _____

Block 19 Continued

Hanger MK#	Drawing	Shop Order
18-IHBC-131-H1	1-616-7-5 Rev. 1	E-ME-061
12-IHBC-316-H1	1-616-7-10 Rev. 1	E-ME-061
16-IHBC-23-H2	1-616-6-6 Rev. 1	E-ME-086

(2) Purchase Order 7220-M-106AC, Rev. 2, Item A states in part: "Parts lists required shall contain the name and number of every part for the equipment and its auxiliaries including drawings in sufficient detail to locate and identify each part."

Contrary to the above, the G-321-D for this shipment references the packing list as the traceable document. The packing list does not agree with the drawings sent with the shipment on the following listed hanger pipe support assemblies.

Packing List Dwgs Referenced	Dwgs sent with Shipment	Hanger Number Number	Hanger Shipping Order
2-611-4-31 Rev. 1	Rev. 2	3-2FCB-23-H3	E-ME-036
1-610-6-10 Rev. 0	Rev. 1	10-1FCB-35-H10	E-ME-048
1-610-6-20 Rev. 0	Rev. 1	10-1FCB-22-H17	"
1-610-6-26 Rev. 0	Rev. 1	10-1FCB-42-H1	"
1-610-4-6 Rev. 0	Rev. 1	10-1FCB-34-H6	E-ME-056
1-610-4-11 Rev. 0	Rev. 1	10-1FCB-34-H11	"
1-610-4-14 Rev. 0	Rev. 1	6-1FCB-36-H2	"
1-610-4-22 Rev. 0	Rev. 1	10-1FCB-19-H14	"
1-616-7-1 Rev. 0	Rev. 1	18-IHBC-133-H1	E-ME-061
2-611-4-6 Rev. 2	Rev. 3	10-2FCB-34-H6	E-ME-065
2-611-6-2 Rev. 3	Rev. 2 (Sheet 2)	10-2FCB-35-H2	E-ME-090

NONCONFORMANCE REPORT (CONT'D)

1. PAGE 3 OF 3

14. NCR NO 450

Block 19 Continued

Nonconformance noted during receipt inspection 'O' Numbers are 4.102, 4.112, & 4.162
1/4 Hold Tags Applied

10094-2

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

QC-013

BECHTEL

NONCONFORMANCE REPORT

2. DRAWING/PART NO. Spec. 7220-M-201		REV. 6	7. PROJECT NO. 7220	12. REPORTED BY <i>[Signature]</i>	DATE 1-22-76	1. PAGE 1 OF 1	14. NCR NO. 451
3. ITEM DESCRIPTION Pipe Spool		8. ITEM LOCATION QC Hold		13. VALIDATED BY <i>[Signature]</i>	DATE 6-23-76	25. DISPOSITION CONCURRENCE	
4. SERIAL NUMBER 2HBC-123-S617-8-4		9. STARTUP SYSTEM NO. N/A		15. REPLACEMENT PART NO. N/A	REV.	REWORK	REJECT
5. PURCHASE ORDER NO. 7220-M-104A-AC		10. QC FIELD INSPECTION PLAN NO. IR/R-1.00-130		16. REPLACEMENT SERIAL NO. N/A		REPAIR	USE AS IS
6. CONTRACTOR/LOCATION ITT Grinnell, Kernersville, NC		11. ASME CODE ITEM <input type="checkbox"/> YES <input type="checkbox"/> NO		17. SOURCE Supplier			
18. ROUTING INSTRUCTIONS: <input type="checkbox"/> ROUTE TO FIELD ENGINEERING				<input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR		PROJECT FIELD ENGINEER	
						PROJECT ENGINEER	
						PROJECT FIELD QC ENGINEER	
						AUTHORIZE INSPECTOR	

19. NONCONFORMING CONDITION:
 ITT Grinnell approved Spool Sketch 2HBC-123-S617-8-4 requires that a venturi be installed in the spool piece. Contrary to the above there was not a venturi in the spool piece.

Nonconformance noted during receipt inspection. 'Q' Number is 4,174 ^{ex 3} ₆₋₂₃₋₇₆ Hold tags applied.

20. <input type="checkbox"/> FIELD DISPOSITION		<input type="checkbox"/> FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING		21. FIELD DISPOSITION RESULTS:			
22. ENGINEERING DISPOSITION				23. ENGINEERING DISPOSITION RESULTS:			
24. IS DESIGN CHANGE REQUIRED <input type="checkbox"/> NO <input type="checkbox"/> YES, SEE ATTACHED:		26. REJECTED MATERIAL DISPOSITION <input type="checkbox"/> RETURN TO SUPPLIER <input type="checkbox"/> SCRAP		27. QC ACCEPTANCE			
DRAWING _____	REV. _____	DCN _____	REMARKS _____	QC ENGINEER _____	DATE _____		
SPEC _____	REV. _____	ADD. _____		AUTHORIZED INSPECTOR _____	DATE _____		

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

NONCONFORMANCE REPORT

1. PAGE 1 OF <u>2</u>	14. NCR NO. <u>452</u>			
25. DISPOSITION CONCURRENCE				
REWORK	REJECT	REPAIR	USE AS IS	DDC
PROJECT FIELD ENGINEER	DATE			
PROJECT ENGINEER	DATE			
PROJECT FIELD QC ENGINEER	DATE			
AUTHORIZE INSPECTOR	DATE			

2. DRAWING/PART NO. <u>Spec. 7220-M-209</u>	REV. <u>3</u>	7. PROJECT NO. <u>7220</u>	12. REPORTED BY <u>William J. ...</u>	DATE <u>11/16/59</u>
3. ITEM DESCRIPTION <u>Pipe Supports</u>	8. ITEM LOCATION <u>CC Hold</u>	9. STARTUP SYSTEM NO. <u>N/A</u>	13. VALIDATED BY <u>William J. ...</u>	DATE <u>11/23/59</u>
4. SERIAL NUMBER <u>See Block 10</u>	10. QC FIELD INSPECTION PLAN NO. <u>IR/R-1.00-59</u>	11. ASME CODE ITEM <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	15. REPLACEMENT PART NO. <u>N/A</u>	REV. <u>1</u>
5. PURCHASE ORDER NO. <u>7220-M-106AC Rev. 2</u>	16. REPLACEMENT SERIAL NO. <u>N/A</u>	17. SOURCE <u>Supplier</u>	18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING <input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR	
6. CONTRACTOR/LOCATION <u>ITT Grinnell, Warren, Ohio</u>				

19. NONCONFORMING CONDITION: Purchase Order 7220-M-106AC Rev. 2, Documentation Submittal, Paragraph 2 states in part:
"All engineering documents marked in column 5 of Form G-321-D must be submitted for Buyer approval. Those engineering documents marked Yes in column 5 require approval prior to commencement of fabrication." Contrary to the above, the Quality Documentation for Hanger 18-LHBC-133-H6 shows that it was fabricated to sketches that had a Bechtel approved Level 4 "Not approved-correct and resubmit."

20. <input type="checkbox"/> FIELD DISPOSITION	<input type="checkbox"/> FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING	21. FIELD DISPOSITION RESULTS:
22. ENGINEERING DISPOSITION		23. ENGINEERING DISPOSITION RESULTS:

24. IS DESIGN CHANGE REQUIRED <input type="checkbox"/> NO <input type="checkbox"/> YES, SEE ATTACHED:	26. REJECTED MATERIAL DISPOSITION <input type="checkbox"/> RETURN TO SUPPLIER <input type="checkbox"/> SCRAP	27. QC ACCEPTANCE
DRAWING _____ REV. _____ DCN _____	REMARKS _____	QC ENGINEER _____ DATE _____
SPEC. _____ REV. _____ ADD _____		AUTHORIZED INSPECTOR _____ DATE _____

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

SECRET

NONCONFORMANCE REPORT (CONT'D)

452

1. PAGE 2 OF 2

14. NCR NO.

Cont. Block 19

Hanger MC# Drawing Shop Order

18-1HBC-133-HG 1-616-9-1 Rev. 1 E-HE-085

Non-conformance noted during receipt inspection. 'Q' Number is 4.162. / Hold tags applied.

10098-2

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

QC-G3-3

BECA TEL

NONCONFORMANCE REPORT

2. DRAWING/PART NO. Spec. 7220-M-209		REV. 3	7. PROJECT NO. 7220	12. REPORTED BY 11/15/77	DATE 11/15/77	1. PAGE 1 OF 2	14. NCR NO. 453
3. ITEM DESCRIPTION Pipe Supports		8. ITEM LOCATION QC Hold		13. VALIDATED BY [Signature]	DATE 6-23-78	25. DISPOSITION CONCURRENCE	
4. SERIAL NUMBER See Block 19		9. STARTUP SYSTEM NO. N/A		15. REPLACEMENT PART NO. N/A	REV.	REWORK	REJECT
5. PURCHASE ORDER NO. 7220-M-106AC Rev. 2		10. QC FIELD INSPECTION PLAN NO. R-1.00-121		16. REPLACEMENT SERIAL NO. N/A		REPAIR	USE AS IS
6. CONTRACTOR/LOCATION ITF Grinnell, Warren, Ohio		11. ASME CODE ITEM <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		17. SOURCE Supplier		DOC	
18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING <input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR							

19. NONCONFORMING CONDITION: Purchase Order 7220-M-106AC Rev. 2 Item A states in part: "Parts list required shall contain the name and number of every part for the equipment and its auxiliaries including drawings in sufficient detail to locate and identify each part." Contrary to the above the G-321-D for this shipment references the packing list as the traceable document. The packing list does not agree with the drawings sent with the shipment on the following listed hanger pipe support assemblies.

20. <input type="checkbox"/> FIELD DISPOSITION	<input type="checkbox"/> FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING	21. FIELD DISPOSITION RESULTS:
22. ENGINEERING DISPOSITION		23. ENGINEERING DISPOSITION RESULTS:

24. IS DESIGN CHANGE REQUIRED <input type="checkbox"/> NO <input type="checkbox"/> YES, SEE ATTACHED:	26. REJECTED MATERIAL DISPOSITION <input type="checkbox"/> RETURN TO SUPPLIER <input type="checkbox"/> SCRAP	27. QC ACCEPTANCE
DRAWING _____ REV. _____ DCN _____	REMARKS _____	QC ENGINEER _____ DATE _____
SPEC. _____ REV. _____ ADD. _____		AUTHORIZED INSPECTOR _____ DATE _____

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

ECHEL

NONCONFORMANCE REPORT (CONT'D)

<u>Packing List Dwg Referenced</u>	<u>Dwgs Sent With Shipment</u>	<u>Hanger No.</u>	<u>Hanger Shipping Order</u>
1-634-3-12 Rev. 1	Rev. 2	8-1HBC-23-H2	E-ME-018
1-634-3-16 Rev. 1	Rev. 2 (Sheet 3)	8-1HBC-23-H6	E-ME-019
0-619-7-12 Rev. 1	Rev. 2	26-0HBC-20-H12	E-ME-042
0-619-7-24 Rev. 1	Rev. 2	10-1HBC-101-H4	E-ME-042
1-610-3-9 Rev. 0	Rev. 1	18-1HBC-2-H9	E-ME-055
1-610-3-12 Rev. 0	Rev. 1	18-1HBC-2-H12	"
1-610-3-13 Rev. 0	Rev. 1	18-1HBC-2-H13	"
1-610-3-28 Rev. 0	Rev. 1	12-1CCB-25-H7	"
1-616-8-2 Rev. 1	Rev. 2	16-1HBC-150-H2	E-ME-068
1-616-8-6 Rev. 1	Rev. 2	16-1HBC-135-H3	"
1-616-8-12 Rev. 0	Rev. 1	16-0HBC-51-H2	"
1-616-8-14 Rev. 0	Rev. 1	16-1HBC-123-H5	"
1-616-8-19 Rev. 1	Rev. 2	12-1HBC-141-H3	"
2-617-6-10 Rev. 0	Rev. 1	16-2HBC-123-H2	E-ME-110

Nonconformance noted during receipt inspection. 'Q' Numbers are 4.102, 4.162, 4.172, 4.191, and 4.341.

14 Hold tags applied.

BECHTEL

NONCONFORMANCE REPORT

1. PAGE NO. OF 23	14. NCR NO. 454
25. DISPOSITION CONCURRENCE	
REWORK	REJECT
REPAIR	USE AS IS
DATE	DATE
PROJECT FIELD ENGINEER <i>T. C. Valenzuela</i>	DATE 6-25-76
PROJECT ENGINEER <i>J. P. ...</i>	DATE 7-1-76
PROJECT FIELD QC ENGINEER <i>...</i>	DATE 7-21-76
AUTHORIZED INSPECTOR <i>...</i>	DATE

2. DRAWING/PART NO. 7220-M-166	REV. 0/F1	7. PROJECT NO. 7220	12. REPORTED BY <i>Chuck Bohner</i>	DATE 6-23-76
3. ITEM DESCRIPTION 26" Coated Pipe (Yard)	8. ITEM LOCATION Combination Shop	13. VALIDATED BY <i>...</i>	DATE 6-23-76	
4. SERIAL NUMBER 0HBC-15 & 0HBC-16	9. STARTUP SYSTEM NO. N/A	15. REPLACEMENT PART NO. N/A	REV.	
5. PURCHASE ORDER NO. 7220-M-104A-AC	10. QC FIELD INSPECTION PLAN NO. M-204-2-166 Rev. 0	16. REPLACEMENT SERIAL NO. N/A		
6. CONTRACTOR/LOCATION N/A	11. ASME CODE ITEM <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	17. SOURCE Construction		
18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING <input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR				

19. NONCONFORMING CONDITION:
 Markings and transfer of Heat Numbers and identification markings shall be accomplished using a steel indentation stamp with a round nose or interrupted dot die, reference Specification 7220-M-204, Paragraph 4.13.
 Contrary to the above, during fabrication and cutting of the 26" yard piping, stamps other than the required round nose or interrupted dot dies were used and noted after fabrication and QC acceptance.
 Q-List #4.192. Nine QC Hold Tags applied.

20. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

21. FIELD DISPOSITION RESULTS:
See attached
FIR & NDE REPORT
Chuck Bohner
7-7-76

22. ENGINEERING DISPOSITION
R. ... 6-28-76 *K. Pulite 6-28-76*

24. IS DESIGN CHANGE REQUIRED <input type="checkbox"/> NO <input type="checkbox"/> YES, SEE ATTACHED:	26. REJECTED MATERIAL DISPOSITION <input type="checkbox"/> RETURN TO SUPPLIER <input type="checkbox"/> SCRAP
DRAWING _____ REV. _____ DCN _____	REMARKS _____
SPEC. _____ REV. _____ ADD. _____	

27. QC ACCEPTANCE
Chuck Bohner 7-7-76
 DATE
V. ... 7-7-76
 AUTHORIZED INSPECTOR DATE

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

QC-G3-2



FIELD INSPECTION REPORT

3. RECORD CONTROL

CONTROL NO. _____

FILE NO. M-204-5

1. PROJECT NO. 7220

2. DATE 7-6-76

PAGE 1 OF 1

4. ITEM INSPECTED	26" OHBC 15x16 COATED PIPE (YARD) NCR 454
OHBC-16-1	.392, .397, .400, .401 WALL THICKNESS CHBC-15-7 .411, .404
OHBC-16-3	.396, .396, .400, .402 " " .408, .406
OHBC-16-4	.404, .403, .403, .405 " " " " .410, .406
OHBC-16-7	.406, .403, .404, .411 " " SPARE .410, .406
OHBC-15-1	.393, .392, .396, .399 " " SN 106-A19 .412, .407
OHBC-15-2	.398, .404, .395, .404 " " HEAT# EHCN
OHBC-15-4	.405, .390, .400, .401 " " " "

5. LOCATION Combo Shop.

6. TYPE OF INSPECTION Measured.

7. STANDARD / CODE / PROCEDURE / DRAWING / SPECIFICATION NCR 454 Spec M-204 Ref. Blg M-166 QC FIP # M-204-2-166 REV 0.

8. INSPECTION EQUIPMENT USED 0-1 outside mic BPC M-279 plate Calib. 7-6-76 Rite Blue 1-6-77

9. RESULTS OF INSPECTION: SATISFACTORY UNSATISFACTORY

10. ACTION TAKEN IF UNSATISFACTORY _____

11. ENGINEER Dennis R. Baker

Distribution: White - QC Files Canary - Originator

NCR 454 2-13

Number 1675

NONDESTRUCTIVE EXAMINATION REPORT

Job No. and Project Location <u>7220 Midland, Michigan</u>		Date <u>7-6-76</u>
Surface Condition <u>GROUND Smooth</u>	Time of Examination <u>AFTER GRINDING REPAIR</u> Before PWHT <u>N/A</u> After PWHT <u>N/A</u>	Iso/Dwg Number <u>M-166 O/FI</u>
Type of Examination PT (X) MT () UT () Other ()	Type and Temp. of Material <u>800F C/S</u>	NDE Procedure No. <u>PT-SR-1,2 REV.1</u>
Specification Standard <u>PT-SR-1,2 REV.1</u>	Acceptance Standard <u>PT-SR-1,2 REV.1</u>	

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

Part or Weld Number	ACC	REJ	Defect Code	Remarks
<u>6" COATED YARD PIPE</u>				
<u>HCB-15 AND</u>				
<u>HCB-16, NINE</u>				
<u>7) Spool pcs</u>				
<u>REMOVAL OF</u>				
<u>HARD NOSE STAMPS</u>				<u>REFERENCE NCR # 454</u>

NOTES:
BPC-M-269
EXPIRATION DATE 11-4-76

Enclosure Added: Yes () No (X)
Richard H. Summer II
 Examiner
 Witnessed by

NCR 454

39



NONCONFORMANCE REPORT

1. PAGE 1 OF 1
 14. NCR NO. 455

2. DRAWING/PART NO. FSK-C-3/A (rollout)	REV. 1	7. PROJECT NO. 7220	12. REPORTED BY William M. Pardo	DATE 6-24-77
3. ITEM DESCRIPTION Liner Plate Assembly C-111-122 4" Dome		8. ITEM LOCATION Unit #1 Dome Erection Jig	13. VALIDATED BY [Signature]	DATE 6-24-77
4. SERIAL NUMBER D-9-16 and D-10-16		9. STARTUP SYSTEM NO. N/A	15. REPLACEMENT PART NO. N/A	REV.
5. PURCHASE ORDER NO. 7220-C-50A		10. QC FIELD INSPECTION PLAN NO. IR/C-111-18W	16. REPLACEMENT SERIAL NO. N/A	
6. CONTRACTOR/LOCATION Southern Boiler & Tank Works Memphis, Tennessee		11. ASME CODE ITEM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	17. SOURCE Vendor	
18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING <input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR				

25. DISPOSITION CONCURRENCE

REWORK	REJECT	REPAIR	USE AS IS	DISC.

PROJECT FIELD ENGINEER _____ DATE _____
 PROJECT ENGINEER _____ DATE _____
 PROJECT FIELD QC ENGINEER _____ DATE _____
 AUTHORIZE INSPECTOR _____ DATE _____

19. NONCONFORMING CONDITION:
 A discrepancy exists between mill slab number documentation and the vendor transferred stamp number on two shop fabricated assemblies. Documentation for D-9-16 shows HT#81989 slab #47; the vendor transferred stamp is HT#81982 slab #47. D-10-16 documentation shows HT#81989 slab #28; the vendor transferred stamp is HT#81989 slab #26. Nonconformance noted during O.C. Review. 'Q' Number is 1.109. / Hold tags applied.

20. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

21. FIELD DISPOSITION RESULTS:

22. ENGINEERING DISPOSITION

23. ENGINEERING DISPOSITION RESULTS:

24. IS DESIGN CHANGE REQUIRED NO YES, SEE ATTACHED:

DRAWING _____ REV. _____ DCN _____
 SPEC. _____ REV. _____ ADD. _____

26. REJECTED MATERIAL DISPOSITION RETURN TO SUPPLIER SCRAP

REMARKS _____

27. QC ACCEPTANCE

QC ENGINEER _____ DATE _____
 AUTHORIZED INSPECTOR _____ DATE _____

10092-1

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

QC-G3-2

BECHTEL

NONCONFORMANCE REPORT

1. PAGE 1 OF 1	14. NCR NO. 456
25. DISPOSITION CONCURRENCE	
REWORK	REJECT
REPAIR	USE AS IS
DDC	
PROJECT FIELD ENGINEER	DATE
PROJECT ENGINEER	DATE
PROJECT FIELD QC ENGINEER	DATE
AUTHORIZE INSPECTOR	DATE

2. DRAWING/PART NO. FSK-C-34A(Rollout)	REV. 1	7. PROJECT NO. 7220	12. REPORTED BY William M Rudee	DATE 6-28-76
3. ITEM DESCRIPTION 1/4" Liner Plate Assy C-III-130		8. ITEM LOCATION Unit #1 Dome Erection Jig	13. VALIDATED BY [Signature]	DATE 6-23-76
4. SERIAL NUMBER D-4-7		9. STARTUP SYSTEM NO. N/A	15. REPLACEMENT PART NO. N/A	REV.
5. PURCHASE ORDER NO. 7220-C-50A		10. QC FIELD INSPECTION PLAN NO. IR/ C-III-30W	16. REPLACEMENT SERIAL NO. N/A	
6. CONTRACTOR/LOCATION Southern Boiler and Tank Works, Memphis, Tenn.		11. ASME CODE ITEM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	17. SOURCE Vendor	
18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING <input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR				

19. NONCONFORMING CONDITION: Shop Assembly D-4-7 has a shop installed hanger pad welded over the heat and slab stamping that obliterates all but two numbers making the material untraceable to the documentation. The documentation shows the numbers should be Heat #21302 Slab #10. Nonconformance noted during QC surveillance. C List #1.109. One Hold Tag applied.

20. <input type="checkbox"/> FIELD DISPOSITION	<input type="checkbox"/> FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING	21. FIELD DISPOSITION RESULTS:

22. ENGINEERING DISPOSITION	23. ENGINEERING DISPOSITION RESULTS:

24. IS DESIGN CHANGE REQUIRED <input type="checkbox"/> NO <input type="checkbox"/> YES, SEE ATTACHED:	26. REJECTED MATERIAL DISPOSITION <input type="checkbox"/> RETURN TO SUPPLIER <input type="checkbox"/> SCRAP	27. QC ACCEPTANCE
DRAWING _____ REV. _____ DCN _____	REMARKS _____	QC ENGINEER _____ DATE _____
SPEC. _____ REV. _____ ADD. _____		AUTHORIZED INSPECTOR _____ DATE _____

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

BECHTEL

NONCONFORMANCE REPORT

2. DRAWING/PART NO. M-616 Sheet 8 (C)		REV. 5/F1	7. PROJECT NO. 7220	12. REPORTED BY William J. Jones	DATE 1/20/76	1. PAGE 1 OF 2	14. NCR NO. 457
3. ITEM DESCRIPTION 16" Check Valve		8. ITEM LOCATION Combination Shop		13. VALIDATED BY M. Connolly	DATE 1-27-76	25. DISPOSITION CONCURRENCE	
4. SERIAL NUMBER 16-HBC-CK-Z SN 3N-641		9. STARTUP SYSTEM NO. N/A		15. REPLACEMENT PART NO. N/A	REV.	REWORK	REJECT
5. PURCHASE ORDER NO. 7220-M-120AC		10. QC FIELD INSPECTION PLAN NO. M-214-2-616-3-11		16. REPLACEMENT SERIAL NO. N/A		REPAIR	USE AS IS
6. CONTRACTOR/LOCATION Anchor/Darling Valve Co., Hayward, CA		11. ASME CODE ITEM <input type="checkbox"/> YES <input type="checkbox"/> NO		17. SOURCE Vendor			DDC
18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING				<input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR		PROJECT FIELD ENGINEER _____ DATE _____	

19. NONCONFORMING CONDITION: During a Quality Control required Magnetic Particle inspection of M-613, Sheet 8, Field Weld #8, linear indications were found in the valve body adjacent to the field weld. Reference Nondestructive Examination Report #1662, attached for locations. 'C' number 4.164. One Hold Tag Applied

20. <input type="checkbox"/> FIELD DISPOSITION	<input type="checkbox"/> FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING	21. FIELD DISPOSITION RESULTS:

22. ENGINEERING DISPOSITION	23. ENGINEERING DISPOSITION RESULTS:

24. IS DESIGN CHANGE REQUIRED <input type="checkbox"/> NO <input type="checkbox"/> YES, SEE ATTACHED:	26. REJECTED MATERIAL DISPOSITION <input type="checkbox"/> RETURN TO SUPPLIER <input type="checkbox"/> SCRAP	27. QC ACCEPTANCE
DRAWING _____ REV. _____ DCN _____	REMARKS _____	QC ENGINEER _____ DATE _____
SPEC. _____ REV. _____ ADD. _____		AUTHORIZED INSPECTOR _____ DATE _____

10098-1

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

QC-G3-2

NONDESTRUCTIVE EXAMINATION REPORT

Job No. and Project Location <u>7220 Midland, Michigan</u>		Date <u>6-24-76</u>
Surface Condition <u>As Welded</u>	Time of Examination <u>FINAL</u>	Iso/Dwg Number <u>M-616 5118(G) 5/F1</u>
Type of Examination <u>BPC-M-287</u> <u>CAL EXP 7-30-76</u>	Before PWHT <u>N/A</u> After PWHT <u>N/A</u>	NDE Procedure No. <u>MIT-P-1,2 Rev 1</u>
Material () MT () UT () Other ()	Type and Temp. of Material <u>C/S Temp N/A</u>	
Specification Standard <u>M-204</u>	Acceptance Standard <u>MIT-P-1,2 Rev 1 ASME Sec II</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>1A) FW # 8</u>		X	<u>L</u>	<u>REJECT DUE TO LINEAR INDICATIONS IN THE VALVE CASTING (SEE ATTACHED SKETCH)</u>

REVISIONS:

Enclosure Added: Yes No ()
William M. Purdie
 Examiner Level II

Witnessed by _____



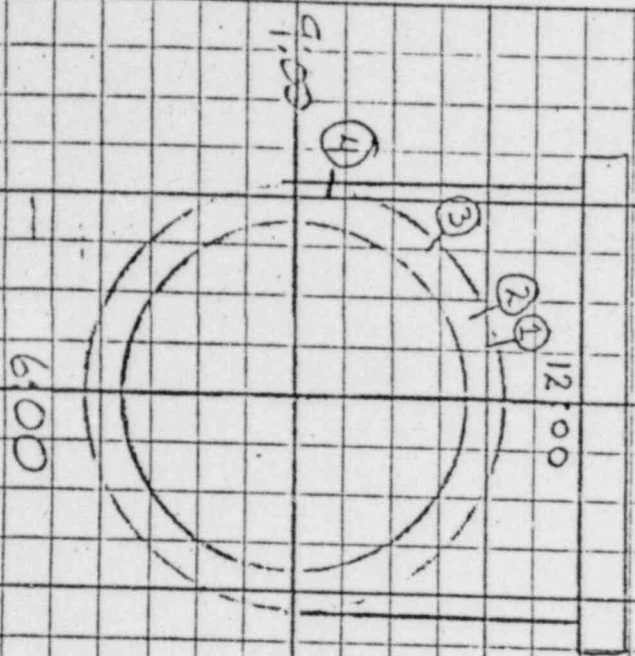
PROJECT Midland, Michigan

JOB NO. 07220

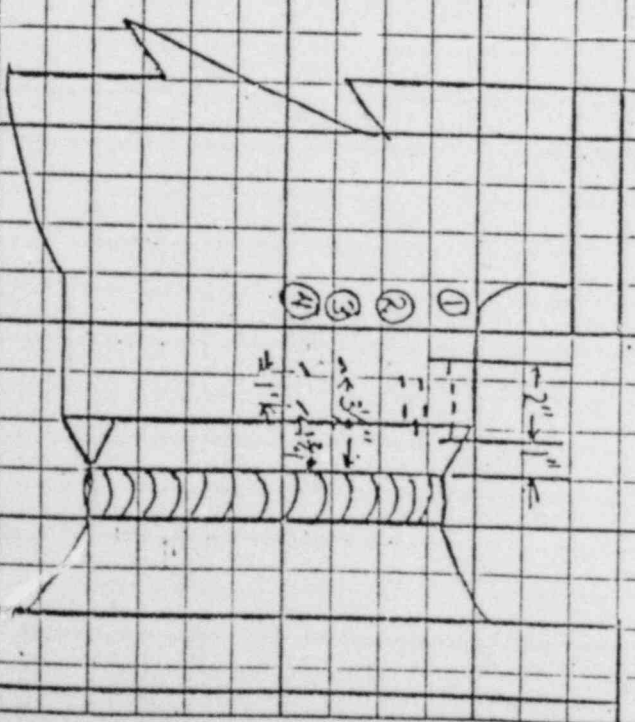
SHEET 2 OF 2

NDE REPORT NO. 1662

COMMENTS



- 1) 3/4" From 12:00
- 2) 4 3/4" From 12:00
- 3) 7 1/2" From 12:00
- 4) 11" From 12:00



ANCHOR/DARLING
 VALVE I.D. 16-HBC-QK-Z
 SN# 5206-01
 SN# 3N-641
 16" 700 PSI

QUALITY AUDIT FINDING

093 (25-3-2)
April 14, 1976
N/A

Project/Department/Title 1 Land 1 & 2	Job No. 7220	Type of Audit 2 Construction	<input checked="" type="checkbox"/> FIELD <input type="checkbox"/> OFFICE
25-3-P-2	CHECKLIST ITEM 3 9.3	WHERE FOUND 4 Champion, Inc. Office Files	AUDITOR 5 E. T. Stojkov
CONTROLLING DOCUMENT, SECTION, PARAGRAPH, ETC. 6 Champion, Inc. QAM, Rev. 11, Article XIII			DISCUSSED WITH 7 K. Holman

Champion QAM, Article XIII states in part: "Champion, Inc. Quality Control Procedure provide for the calibration of measuring equipment used in production of concrete. This includes . . . scales, meters, admix dispensers.

The scales and meters are calibrated . . . with traceability to the standards of the National Bureau of Standards."

The calibration records for admix dispenser No. 1 do not provide traceability of the standard used to calibrate to the National Bureau of Standards.

NOTE: Admix dispensers are calibrated by US Testing on site.

CORRECTIVE ACTION Recommended.

1. Establish traceability of calibration standard used to calibrate admix dispensers to the National Bureau of Standards.
2. Remind cognizant Champion, Inc. personnel of the requirement for documented traceability of calibration standards.

SCHEDULE COMPLETION DATE 13 May 14, 1976	RESPONSIBILITY FOR CORRECTIVE ACTION 14 PFOCE
---	--

1. Champion Inc. purchased a Volumetric Flask (Champion Equipment No. 1). U.S. Testing calibrated it using Nationally Recognized Standards, U.S. Testing recalibrated all admix vials.
2. Champion Inc. was reminded of the requirement for documenting traceability of calibration standards. (J.F. DEWASO LETTER 5/25/76)

DATE COMPLETED 5-24-76	SUBMITTED BY RESPONSIBLE AUTHORITY J. J. Crowley PFOCE	DATE 6/4/76
CORRECTIVE ACTION VERIFIED Brent T. Stojan		



QUALITY AUDIT FINDING

AUDIT IDENT.	094 (25-1-2)
AUDIT DATE	04/12/76
AAS ITEM	N/A

PROJECT/DEPARTMENT/SELLER N Land 1 & 2 Job 7220		TYPE OF AUDIT Construction		<input checked="" type="checkbox"/> FIELD <input type="checkbox"/> OFFICE	AUDITOR B. T. Stojkov
AGE ITEM 25-1-P-1	CHECKLIST ITEM 2.3	WHERE FOUND Subcontractor's Office Files		DISCUSSED WITH G. M. Williams	
CONTROLLING DOCUMENT, SECTION, PARAGRAPH, ETC. Peabody QA Program Requirements, Rev. 3, Paragraph 1.5.1				SAME AS #.	

Paragraph 1.5.1 states in part: "The purpose of the Quality Assurance Indoctrination Program is to familiarize the new or transferred employee with the Quality Assurance Program requirement stressing the importance and meaning of Quality Assurance/Quality Control as it applies to the employee's position".

FINDING

Neither of the subcontractor's personnel currently at the site have received Quality Assurance indoctrination.

CORRECTIVE ACTION Recommended

Provide Quality Assurance indoctrination for all currently acting site personnel. Retain records of this indoctrination on the site. Based on the number of discrepancies uncovered, indoctrination should emphasize program implementation.

SCHEDULE COMPLETION DATE 13 JUNE 28, 1976	RESPONSIBILITY FOR CORRECTIVE ACTION 14 PFQCE
CORRECTIVE ACTION TAKEN 15	

DATE COMPLETED 16	SUBMITTED BY RESPONSIBLE AUTHORITY 17
CORRECTIVE ACTION VERIFIED BY QAE 18	
DATE	

QUALITY AUDIT FINDING

PROJECT NO.	005 (25-1-2)
AUDIT DATE	04/12/76
AUDIT TYPE	N/A
AUDITOR	B. T. Stojkov
DISCUSSED WITH	G. M. Williams

PROJECT, DEPARTMENT, FACILITY Midland 1 & 2	JOB NO. Job No. 7220	TYPE OF AUDIT Construction	<input checked="" type="checkbox"/> FIELD <input type="checkbox"/> OFFICE	
X-RAY ITEM 25-1-P-1	CHECKLIST ITEM Item 13.3	WHERE FOUND Subcontractor's Office Files		
CONTROLLING DOCUMENT, SECTION, PARAGRAPH, ETC. Peabody QA Program Requirements, Rev. 3, Paragraph 16.2.1.3			DATE REC. 2.1.3	

Paragraph 16.2.1.3 states in part: "A Log of Nonconformance Reports and their status shall be maintained for each project or facility."

FINDING
11

No Log of Nonconformances is being maintained.

CORRECTIVE ACTION Recommended
Prepare and maintain a Log of Nonconformances. Include previously issued nonconformances where necessary information is available.

SCHEDULE COMPLETION DATE 13 May 28, 1976	RESPONSIBILITY FOR CORRECTIVE ACTION 14 PFOCE
--	---

Requested responsible action by X-Ray Engineering Co. Response transmitted as attachment to X-Ray Engineering Co. Project Manager Memo to J. Newgen PRT-206-3 dated 5/20/76. No nonconformances have been issued to date. When nonconformances are issued, a log will be maintained.

DATE COMPLETED 16 5-24-76	SUBMITTED BY RESPONSIBLE AUTHORITY 17 J. J. Connelly PFOCE	
CORRECTIVE ACTION VERIFIED BY 18 Brent T. S. [Signature]		DATE 19 6/23/76

Ident.: GAF 96

Project Quality Assurance
Midland Units 1 & 2 - 7220

Verification of Corrective Action

Method:

- 1. Verify action of response as implemented.
- 2. Review of documentation or attachments to resolve finding.
- 3. Requirement removed or finding withdrawn.
- 4. Other: _____

Items Checked: VERIFIED "NONCONFORMANCE AND
CORRECTIVE ACTION REPORT LOG" IN X-RAY
ENGINEERING / PEABODY TESTING OFFICE FILES

Closeout Documentation (list or attach)

NONE

Verified Not Verified (explain)

B.T. S. [Signature]
 - QAE

6/23/76
 Date

QUALITY AUDIT FINDING

028 (75-1-2)
04/12/76
N/A
E. T. Scalkov
G. M. Williams

Midland 1 & 2	Job No. 7220	Construction	<input checked="" type="checkbox"/> FIELD <input type="checkbox"/> OFFICE	N/A
25-1-P-1	Item 15.0	Subcontractor's Office Files	Peabody QA Program Requirements, Rev. 3, Paragraph 10.5.3	

Paragraph 10.5.3 states in part: "A written report will be prepared . . . The report shall be distributed to the Client (or designated representative), the president of Peabody Testing, the chief executive office of the organizational unit audited and the manager of the project or facility audited."

FINDING

The audit report of the internal audit performed on October 29, 1976 was not completed or signed by Peabody Director of Quality Assurance) or distributed.

CORRECTIVE ACTION

1. Complete and distribute the report of the internal audit performed on October 29, 1975.
2. Reinstruct internal auditors on required audit reporting procedures.

1 & 2: May 28, 1976	PFOCE
---------------------	-------

Requested responsible action by X-Ray Engineering Co. A response was transmitted as attachment to X-Ray Engineering Co. Project Manager memo to J. Newnen PBT-206-3 dated 5/20/76. Internal audit report has been submitted and filed. QC verification of X-Ray Engineering made 5/24/76 by A. L. Boulden.

5-24-76	<i>J. Kennedy</i> PFOCE <i>Brent T. Steinhilber</i>	
---------	--	--

Ident.: BAF 93

Project Quality Assurance
Midland Units 1 & 2 - 7220

Verification of Corrective Action

Method:

- 1. Verify action of response as implemented.
- 2. Review of documentation or attachments to resolve finding.
- 3. Requirement removed or finding withdrawn.
- 4. Other: _____

Items Checked: CHECKED AUDIT REPORT DATED 10/29/75 -
NOW SIGNED BY S.F. KENNEDY, A.C. MGR - DESIGNATED
REPRESENTATIVE AND DISPOSITION TO PSCHITZ IS
INDICATED. AUDIT REPORT TRANSMITTED TO PSCHITZ
VIA R.M. WILLIAMS LTR TO J. NEWCOMB 5/75/76

Closeout Documentation (list or attach)

Verified Not Verified(explain)

- R.M. WILLIAMS LTR TO
- J. NEWCOMB 5/75/76
- S.F. KENNEDY LTR TO
- M. WILLIAMS 5/5/76
- S. AUDIT REPORT DATED 10/29/75

B.T. Stiller
QAE

6/4/76
Date

1111
Brent

QUALITY AUDIT FINDING

AUDIT NUMBER	100 (14-1-3)
AUDIT DATE	April 27-30, 1976
AUDIT ITEM	N/A

PROJECT/DEPARTMENT/SUBJECT	land 1 & 2	TYPE OF AUDIT	<input checked="" type="checkbox"/> FIELD <input type="checkbox"/> OFFICE	AUDITOR	B. T. Stojkov
QA ITEM	12	WHERE FOUND	Quality Control Storage Records	DISCUSSED WITH	D. Martin, H. Boleer
CONTROLLING DOCUMENT, SECTION, PARAGRAPH, ETC.	PG-3, Rev. 4, Paragraphs 5.2 & 7.0; SF/PSP G-5.1, Rev. 1 Paragraph 4.2		SAME AS:		

PG-3, 5.2 says in part: "The performance of the storage requirements . . . is the responsibility of the MSS. The maintenance requirements are performed by the MSS or its representative . . ."

PG-3, 7.0 says in part: "Upon task completion, the issued F-2 Form, . . . shall be forwarded to the PFQCE for vault storage."

SF/PSP G-5.1, 4.2 says in part: "(The responsible Quality Control Engineer shall) verify that . . . required maintenance activities are performed in accordance with the storage and storage maintenance requirements . . ."

-1-203, Rev. 1 for "B" series Cadweld Sleeves requires storage maintenance activity at 90 day intervals. Dates on successive forms F-2-1277 and F-2-2211 were 10/8/75 and 3/1/76 respectively. It was confirmed with the Assistant Material Supervisor for material Control that no unreported storage maintenance activity had occurred in the approximately 150 day interval. Form F-2-2211 was reviewed and signed by the responsible Quality Control Engineer.

- CORRECTIVE ACTION**
- Reinstruct the Material Storage Supervisor and his representatives on the necessity for timely completion of the required storage maintenance activities.
 - Reinstruct the responsible Quality Control Engineers to check F-2 Form for timely completion of required storage maintenance activities.

SCHEDULE COMPLETION DATE	1 & 2 June 4, 1976	RESPONSIBILITY FOR CORRECTIVE ACTION	1 - Project Superintendent, 2 - PFQCE
--------------------------	--------------------	--------------------------------------	---------------------------------------

Item No. 2 - The checking of F-2 and F-20 Forms for timely completion of required activities has been re-emphasized to the responsible Quality Control Engineers.

DATE COMPLETED	6-28-76	REVIEWED BY RESPONSIBLE AUTHORITY	J. Conroy PFQCE
CORRECTIVE ACTION VERIFIED BY QAR	Brent P. Styler		DATE 7/1/76

QUALITY AUDIT FINDING

AUDIT IDENT. 108 (9-2-3)
AUDIT DATE 5/19/76 - 6/1/76
ASSISTANT N/A

1. DIVISION/DEPARTMENT/SKILLER Midland 1 & 2		2. TYPE OF AUDIT Construction	<input checked="" type="checkbox"/> FIELD <input type="checkbox"/> OFFICE	AUDITOR B. T. Stojkov
3. AGENDA ITEM 9-2-P-1	4. CHECKLIST ITEM 7	5. WHERE FOUND Document Control/Field		6. DISCUSSED WITH T. J. Behres A. Boos
8. CONTROLLING DOCUMENT, SECTION, PARAGRAPH, ETC. SF/PSP #4, Rev. 1, Para 3.2.2.1 & 5.0			9. SAME AS 8.	

Para. 3.2.2.1 states: "Prints of new Engineering Drawings and revisions shall be distributed in accordance with the Drawing Distribution List. Old drawings will be destroyed or marked void in accordance with Paragraph 5.0."

Para. 5.0 states in part: "---the Document Controller is responsible for removing and replacing superseded prints on the office sticks."

FINDING
11

The following drawings were found in the field on the sticks listed, but distribution to those sticks was not noted on the Drawing Control Cards.

Continued on Page 2

- CORRECTIVE ACTION**
12
1. Revise/update the Master Distribution List
 2. Perform review of Drawing Control Cards and drawing sticks, and bring them into agreement.
 3. Remove superseded drawings from the field or mark them void.

13. SCHEDULE COMPLETION DATE 8/31/76	14. RESPONSIBILITY FOR CORRECTIVE ACTION Project Superintendent
---	--

15. CORRECTIVE ACTION TAKEN	
16. DATE COMPLETED	17. SUBMITTED BY RESPONSIBLE AUTHORITY
18. CORRECTIVE ACTION VERIFIED BY QA	
19. DATE	

D 50003

8 (9-2-3)
/19/76 - 6/1/76
T. Stojkov
Block 11 Continued

<u>Drawing</u>	<u>Stick</u>
7220-C-94, Rev. 1	Office #2, Survey, Resident Engineer
7220-C-184, Rev. 0	Office #2
7220-C-245, Rev. 4	Office #1, Office #2, Survey, Aux. #1
7220-E-527, Rev. 2	Aux. #1
7220-E-539, Rev. 6	Survey, QC, Aux. #1, Aux. #3
7220-E-651, Rev. 1	Office #2, QC
7220-M-613 Sht 3, Rev. 4	Office #1, Office #2
7220-M-619 Sht 1, Rev. 1	Office #1, Office #2
7220-M-656 Sht 24, Rev. 2	Office #1

The following drawings were marked on their Drawing Control Card as being distributed to the sticks listed, but were not found on these sticks.

<u>Drawing</u>	<u>Stick</u>
7220-C-184, Rev. 0	Resident Engineer
7220-C-320, Rev. 4	Boilermakers
7220-E-527, Rev. 6	Electrical Shack

The following superseded drawings were found on the sticks listed, but were not marked void.

<u>Drawing</u>	<u>Stick</u>
7220-C-94, Rev. 0	QC
7220-E-527, Rev. 1	Office #2

QUALITY AUDIT FINDING

109. (9-2-3)
AUDIT DATE
 5/19/76-6/1/76
AAS ITEM
 10
 N/A

<small>PROJECT/DEPARTMENT/SELLER</small> dland 1 & 2 Job 7220		<small>TYPE OF AUDIT</small> Construction	<input checked="" type="checkbox"/> FIELD <input type="checkbox"/> OFFICE	<small>AUDITOR</small> B. T. Stojkov
<small>QA ITEM</small> 9-2-P-1	<small>CHECKLIST ITEM</small> 8	<small>WHERE FOUND</small> Document Control	<small>DISCUSSED WITH</small> T. J. Behres A. Boos	
<small>CONTROLLING DOCUMENT, SECTION, PARAGRAPH, ETC.</small> SF/PSP #4, Rev. 1 Paragraph 3.2.2.2			<small>SAME AS 1.</small>	

QUOTATION
 18
 Para 3.2.2.2 states: "A controlled copy shall be placed at a designated area for a period of three working days for review by designated engineers and superintendents who acknowledge review by signing the New Drawing Sign-Off Sheet."

FINDING
 11
 Engineers and Superintendents who review drawings at the review table are not signing the New Drawing Sign-Off Sheet.

te: In accordance with paragraph 3.2.2.3 another copy of the New Drawing Sign-Off Sheet is being routed to designated Engineers and Superintendents with an additional print of the drawing. This copy is being signed.

CORRECTIVE ACTION
 12
 Remove the redundant requirement of Engineer and Superintendent sign-off of the New Drawing Sign-Off Sheet at the review table.

<small>SCHEDULE COMPLETION DATE</small> 7/16/76	<small>RESPONSIBILITY FOR CORRECTIVE ACTION</small> PFQCE
--	--

<small>DATE COMPLETED</small>	<small>SUBMITTED BY RESPONSIBLE AUTHORITY</small>
<small>CORRECTIVE ACTION VERIFIED BY QAS</small>	
<small>DATE</small>	<small>DATE</small>

D 50003

QUALITY AUDIT FINDING



AUDIT NUMBER:
 110 (9-2-3)
 AUDIT DATE
 5/19/76-6/1/76
 AAST. EM
 N/A

PROJECT/DEPARTMENT/SELLER 1 Iland 1 & 2		JOB NO. Job 7220	TYPE OF AUDIT 2 Construction	<input checked="" type="checkbox"/> FIELD <input type="checkbox"/> OFFICE	AUDITOR 3 B. T. Stojkov
AL. I.D.A. ITEM 3 9-2-P-1	CHECKLIST ITEM 4 10	WHERE FOUND 5 Document Control		DISCUSSED WITH 7 T. J. Behres A. Boos	
CONTROLLING DOCUMENT, SECTION, PARAGRAPH, ETC. 8 SF/PSP #4, Rev. 1, Paragraph 6.1. & 6.2				SAME AS 9	

Paragraph 6.1 states in part: "The Document Controller shall check the Field Drawing Log against the Drawing Control Register to assure that the latest drawings have been received, and inform the Project Field Engineer of any omissions or discrepancies."

Paragraph 6.2 states: "The Project Field Engineer shall resolve discrepancies with Project Engineering."

FINDING
11

The Document Controller is not informing the Project Field Engineer of omissions or discrepancies. Any discrepancies occurring are being resolved by the Document Controller.

CORRECTIVE ACTION
12

Have Project Field Engineer make formal delegation of responsibility for Field Drawing Log/ Drawing Control Register discrepancies to Document Controller.

SCHEDULE COMPLETION DATE 13 6/18/76	RESPONSIBILITY FOR CORRECTIVE ACTION 14 Project Superintendent
---	--

CORRECTIVE ACTION TAKEN
15

DATE COMPLETED 16	SUBMITTED BY RESPONSIBLE AUTHORITY 17
CORRECTIVE ACTION VERIFIED BY QAS 18	
DATE	

FORM 5000



QUALITY AUDIT FINDING

AUDIT IDENT.
111 (24-1-1)
AUDIT DATE
6/3-14 & 15/76
AAS ITEM
N/A

PROJECT/DEPARTMENT/SECTOR 1 Midland 1 & 2		TYPE OF AUDIT 2 Construction		<input checked="" type="checkbox"/> FIELD <input type="checkbox"/> OFFICE	AUDITOR 3 G. A. Waldrop
AGENDA ITEM 4 24-1-P-0	CHECKLIST ITEM 5 6	WHERE FOUND 6 Welding Department		DISCUSSED WITH 7 D. Mathews, A. Boos	
CONTROLLING DOCUMENT, SECTION, PARAGRAPH, ETC. 8 Specification 7220-M-204 (Q) Rev. 0				SAME AS #. 9	

10 QUOTATION

Paragraph 5.1.4 states: "A detailed written report of major weld repairs shall be made and a copy furnished to the Project Engineer in accordance with the procedures described in the Nuclear Quality Assurance Manual. This report shall state the nature and location of the defect, how repaired, subsequent heat treatment and include copies of all examination records".

11 FINDING

Reports of major weld repairs are made weekly on Bechtel Form WR-9 to the distribution stated in the BQAM Appendix 3 Paragraph 11.1. The Project Engineer is not on distribution for the report nor does he receive copies of all examination records.

12 CORRECTIVE ACTION Recommended

Bring actual Field practice and the provisions of Specification 7220-M-204 (Q) Rev. 0, Paragraph 5.1.1 into agreement.

SCHEDULE COMPLETION DATE 13 July 15, 1976	RESPONSIBILITY FOR CORRECTIVE ACTION 14 Project Superintendent
--	---

15 CORRECTIVE ACTION TAKEN

DATE COMPLETED 16	SUBMITTED BY RESPONSIBLE AUTHORITY 17
CORRECTIVE ACTION VERIFIED BY QAE 18	
DATE 19	

50008

QUALITY ASSURANCE DISCREPANCY REPORT

3. ACCIDENT NO.

089 Rev. 1

4. ISSUE DATE

5/11/76 [△]

5. QAD PREPARED BY:

B. T. Stojkov

9. DISCUSSED WITH

J. Voris [△]

D. Palmer

1. PROJECT/DEPT./CONTRACTOR:

Midland 1 & 2

2. POINT OF ORIGIN

FIELD

OFFICE

6. WORK PLAN DATE

3/27/76 - 4/9/76

7. CHECKLIST ITEM

9.2

8. WHERE FOUND

Document Control

10. CONTROLLING DOCUMENT, SECTION, PARAGRAPH, ETC.

SF/PSP #4, Rev. 1, 8/1/74, Section 3.2.3 & 5.1

11. QUOTATION

Para. 3.2.3.1.2: "Distribution (of drawings) shall be individually determined by the Project Field Engineer. Drawings may be included on the drawing distribution list for his instructions." Para 3.2.3.2.3: "Distribution of those drawings (reviewed directly from supplier) shall be in accordance with 3.2.3.1." Para. 5.1.b" . . . any superseded drawings must be marked "VOID" and destroyed, or if required by the Lead Engineers, drawings will be marked "VOID" and an appropriate reason for retention added . . ."

12. DISCREPANCY DESCRIPTION

Distribution shown on the Drawing Control Cards does not match the Drawing Distribution List for the following Vendor Drawings:

7220-C-2-24	Q. C. Stick added to Drawing Control Card
7220-C-2-34	" "
7220-C-2-106	" "
7220-C-2-122	" "

Continued

13. RECOMMENDED CORRECTIVE ACTION

1. Bring Drawing Distribution List, Drawing Control Cards and Drawing Distribution into agreement.

2. Remove void drawings from field.

14. SCHEDULED COMPLETION

DATE 6/4/76 [△]

15. RESPONSIBILITY FOR CORRECTIVE ACTION

Project Superintendent

16. CORRECTIVE ACTION TAKEN

SEE T.F. NEWGEN LETTER DATED 6/2/76 -

#0-1097 ATTACHED.

17. DATE COMPLETED

18. SUBMITTED BY RESPONSIBLE AUTHORITY

19. CORRECTIVE ACTION VERIFIED BY QAE

Brent T. Stojkov

20. DATE

6/10/76

Block No. 12 Continued. QADR No. 089 Rev. 1

7220-C-2-147	Q. C. Stick added to Drawing Control Card
7220-C-38-4	Q. C. Stick omitted from Drawing Control Card
7220-C-38-56	" "
7220-C-38-144	Aux. #2, Aux. #3 and Ironworkers Sticks omitted from Drawing Control Card
7220-C-38-159	Office #2 and Q. C. Sticks omitted from Drawing Control Card
7220-M-73-10	Office #2 Stick omitted from Control Card
7220-M-73-13	" "
7220-M-73-14	" "

2. Actual Drawing Distribution does not match the Drawing Control Card for the following Vendor Drawings:

7220-C-38-4	Distribution made to Q. C. Stick
7220-C-38-32	" "
7220-C-38-56	" "
7220-C-38-159	" "
7220-C-38-144	Distribution made to Aux. #2 Stick

3. Obsolete Vendor Drawing not marked "VOID" found in the field:

7220-C-38-144	Rev. 9 found on Aux. #2 and Ironworkers Sticks
---------------	--

*Brent
Glynn*

Bechtel Power Corporation

Interoffice Memorandum

To G. L. Richardson

Date June 2, 1976

Subject Job 7220 Midland Project
O.A. Discrepancy Report No. 089
Rev. 1 Drawing Control
0-1097

From J. F. Newgen

Of Construction

Copies to

At Midland, Michigan

In response to subject QADR, Rev. 1, dated 5-11-76 the following clarification of corrective action is submitted:

Block 12 - Discrepancy Description:

Vendor Drawings 7220-C-2-24, C-2-34, C-2-106 and C-2-122 (Q.C. stick added to control card): The Specification Register indicated these drawings as being both "Q and Non-Q". Drawings falling within this area in the register with Non-Q indication shown on actual drawing are not placed on automatic controlled distribution but are handled on a request basis from Q.C. For these drawings the Master Distribution Book has been corrected to indicate distribution to Q.C. of these and all future revisions. The control cards, Master Distribution Book and Q.C. Stick are in agreement.

Vendor Drawings: 7220-C-2-147 (Q.C. Stick added to control card)
7220-C-38-4 (Q.C. Stick omitted from control card)
7220-C-38-56 (Q.C. Stick omitted from control card)
7220-C-38-144 (Aux. 3 and Ironworker sticks omitted from control card)

The above discrepancies were corrected during a Document Control In-house Audit held on 4-30-76. The Master Distribution Book, Control Cards, and sticks are in agreement.

Vendor Drawing 7220-C-38-159 (office #2 and Q.C. Sticks omitted from drawing control card):

The Q.C. Stick was updated and logged on control card during the D.C. Audit of 4-30-76. The office #2 stick location was not initiated until Jan. 1976 (the original date of receipt at site and distribution of this drawing was Sept. 1975). This drawing has been added to the Master Distribution Book indicating office #2 placement, logged on control cards and placed on the appropriate stick.

Vendor Drawings 7220-M-73-10, 7220-M-73-13, 7220-M-73-14 (office #2 omitted from control card):

These drawings were received on site and distributed in May 1975. (There were no office #2 sticks until Jan. 1976). A "hold" was placed on all Bechtel Mechanical and Vendor Mechanical Drawings in March 1976 for placement on office #2 sticks in order for a study to be conducted on what actually would be required on office #2 sticks as a complete set of sticks are available

G. L. Richardson
June 2, 1976
Page 2

in office #1. This particular drawing (Liquid Waste Receiver Tank) will only be located on office #1 stick. Office #2 has been deleted from the Master Distribution Book.

2. Vendor Drawings 7220-C-38-4, 7220-C-38-32, 7220-C-38-56, 7220-C-38-159 and 7220-C-38-144

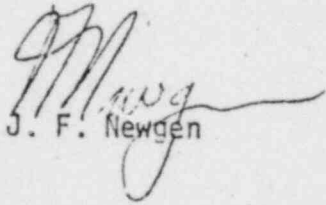
The discrepancies noted regarding these drawings were corrected during the D.C. Audit of 4-30-76. The Master Distribution Book, Control Cards, and Sticks are in agreement.

3. Vendor Drawing 7220-C-38-144, Rev. 9:

(Obsolete drawing not marked "Void" found in the field on Aux. #2 and Ironworker Sticks).

These discrepancies were corrected during D.C. Audit of 4-30-76. Master distribution book, Control Cards, (indicating latest revision) and sticks (with latest revision) are in agreement.

JFN/TJB/sw


J. F. Newgen

RECEIVED

JUN 08 1976

BECHTEL POWER CORP.
JOB 7220

PER 

QUALITY ASSURANCE DISCREPANCY REPORT

3. QAD IDENT. NO.
103

4. ISSUE DATE
5-13-76

1. PROJECT/DEPT./CONTRACTOR
Midland Units 1 & 2

2. POINT OF ORIGIN
 FIELD
 OFFICE

5. QAD PREPARED BY:
G. Richardson

6. WORK PLAN DATE
N/A

7. CHECKLIST ITEM
N/A

8. WHERE FOUND
O.C. Records (NCR's)

9. DISCUSSED WITH

10. CONTROLLING DOCUMENT, SECTION, PARAGRAPH, ETC.
Spec. 7220-M-201, Rev. 5 (P.O. 7220-M-104A-AC)

11. QUOTATION
paragraph 6.2.2a, "All materials shall be marked with the information required by the applicable manufacturing specification, and the Nuclear Power Plant Components Code, paragraph NB-2150.

12. DISCREPANCY DESCRIPTION
Contrary to the above Bechtel NCR's 263, 278, 418 identify code data name plates incorrectly marked with a "5" instead of an "S" and Bechtel NCR's 304 and 308 identify verification reports with a 5 instead of an S.

NOTE: All of these NCR's except No. 418 were identified to C. Buhl in W. Holubs letter dated 4/15/76.

13. RECOMMENDED CORRECTIVE ACTION
1. Identify this recurring problem to ITT Grinnell and assure affective corrective action by their organization.

2. Based on this finding and the problems identified by W. Holubs letter to C. Buhl

14. SCHEDULED COMPLETION DATE
6-14-76

15. RESPONSIBILITY FOR CORRECTIVE ACTION
Dotterer (continued page 2)

16. CORRECTIVE ACTION TAKEN
SEE K.P. DOTTERER I.O.M. TO G.L. RICHARDSON #PID 285-76 DATED JUNE 7, 1976 & P.H. TINSLEY I.O.M. TO K.P. DOTTERER DATED MAY 27, 1976

17. DATE COMPLETED

18. SUBMITTED BY RESPONSIBLE AUTHORITY

19. CORRECTIVE ACTION VERIFIED BY QAD
Dwight T. Styhan

20. DATE
6/23/76

*rent
Dlynn*

Bechtel Power Corporation

Inter-office Memorandum

To G. L. Richardson
Subject QADR 103 for 7220-M-104A-AC
PFD 285-76

Date June 7, 1976
From K. R. Dotterer
Of Inspection
At Ann Arbor, Mich.

Copies to
W. Holub w/a
R. Castleberry w/a
P. Martinez w/a
J. Milandin w/a
J. Newgen w/a
J. Connolly w/a

L. Sokol w/a

The subject QADR addressed only NCRs that pertain to incorrect identification on name plates and accompanying verification reports.

Attached is a consolidated summary and review of fourteen NCRs which includes the subject QADR. The review and corrective action recommended and taken by the assigned inspector is adequate. Additional training for the responsible inspector is not necessary or appropriate. Contract requirements are for random or selected inspection. Bechtel inspection exceeds that type, however, all material is not 100% inspected. The only positive solution is to provide enough coverage to inspect each and every piece of material. That type of inspection coverage would require additional inspectors and a significant increase of man hours.

Reviewed CPC & Bechtel RWR

K.R. Dotterer
K. R. Dotterer

KRD/nar
Attachment

RECEIVED

JUN 08 1976
BECHTEL POWER CORP.
JOB 7220

PER *[Signature]*

Bechtel Power Corporation

Inter-office Memorandum

10 K. R. Dotterer

Subject 7220-M-104A-AC

Copies to

Date May 27, 1976

From R. H. Tinsley

Of Inspection

At Central Region

The following is my response to the 14 NCR's listed in G. L. Richardson's letter dated March 18, 1976 as requested by your letter dated May 6, 1976. I will not take time to restate each NCR but will instead focus my comments on the five (5) questions posed in your above mentioned letter. In answering these five questions, I will list each NCR in numerical order and explain how it occurred. After covering all 14 NCR's in this manner, I will then describe what Grinnell and Bechtel inspection can and are doing to prevent re-occurrence, what trends, if any, the NCR's indicate, and then give my comments or suggestions as applicable. In doing this, I will note which statements are applicable to which NCR's making sure that all 14 NCR's are covered in each topic of discussion.

NCR #261

Item #1 - field in error, no response necessary.

Item #2 & #3 occurred due to poor legibility of piece mark numbers on shop detail sketches, extremely close resemblance of hand written 5's and s's (note), and a lack of general knowledge by shop personnel that the letter S always precedes the isometric drawing number on all piece mark numbers on the assignment.

Item #4 & #5 "a" and "c" were typographical errors and "b" was caused by a lack of knowledge by the supplier on how to complete the G-321-D form in order to meet the job's requirements.

NCR #263

Item #0 occurred because the supplier did not list the five spools on loading sheets. Loading sheets are the means by which Bechtel Inspection verifies which spools are being released for shipment and are the means by which Grinnell's Q.C. knows to send documentation. The incorrect piece mark number on the code plates occurred due to the poor legibility of piece mark numbers on shop detail sketches, extremely close resemblance of hand written 5's and S's and a lack of general knowledge by shop personnel that the letter S always precedes the isometric drawing number on all piece mark numbers on this assignment.

Item #1 was an error made by Bechtel Inspection when filling out the BPI-361 form.

Item #2 A-1 was caused by a lack of knowledge by the supplier on how to complete the G-321-D form in order to meet the job's requirements.

Item #2 A-2 was a typographical error.

Item #2 B-1 - There is no weld A on spool tagged 2ECB-21-S613-6-4; Field in error, no response necessary.

Item #2 B-2-1 - The radiographer who shot this weld was not familiar at the time with the requirement of having the Bechtel order number on the film. Bechtel Inspection failed to pick this up on this spool during the review of the radiograph.

Item #2 B-2-2 - Bechtel Engineering stated that use of Grinnell's register number is satisfactory for the piping system; no response necessary.

May 27, 1976

NCR #263 (cont.)

Item #2 C-1 occurred due to typographical errors arising from poor legibility of piece mark numbers on shop detail sketches as previously described.
Item #2 B-1 Rev. 1 - Approval of Rev. 2 to sketch 2HCB-21-S613-6-4 is not required since Rev. 1 has a code 1 approval and Rev. 2 was only cosmetic. This is per Bechtel Engineer R. L. Castleberry's TWX dated 12/6/74; Field in error, no response necessary.

NCR #275

Radiographer who shot this weld was not familiar with the requirement of having the Bechtel order number on the film. Bechtel Inspection failed to pick this up on spool during the review of the radiograph.

NCR #277

Items #1 A and #2 A - Caused by a lack of knowledge by the supplier on how to complete the G-321-D form in order to meet the job requirements.
Items #2 B and #1 B - Typographical errors.

NCR #278

Item #1 A - Lack of knowledge by the supplier on how to complete the G-321-D form in order to meet the job's requirements.
Item #1 B - Typographical errors.
Item #2 - Due to poor legibility of piece mark numbers on shop detail sketches as previously described.
Item #3 - Radiographic verification reports were numbered incorrectly and this was missed by both Grinnell and Bechtel inspection.
Item #4 - Grinnell radiographed the welds in error. However, since the radiographs were satisfactory, Grinnell decided to document them. The writer saw no problem with this since Grinnell did not bill for performing or documenting the radiographs.

NCR #297

Grinnell Engineering incorrectly identified Register Number MR-66-23 as 2GCB-15-5613-4-1 on the spool detail sheet. This spool detail sheet was approved by Bechtel Engineering (Code #1) with the incorrect piece mark number and was, therefore, not caught by Bechtel Inspection as being incorrectly identified.

NCR #303

Revisions 1 and 2 made to spool 2HCB-21-S613-6-4 after Revision 0 dated 8/23/74 were cosmetic and editorial and, therefore, according to the TWX dated 12/6/74 from Bechtel Engineer R. L. Castleberry, the spool could be released using the code 1 approval on Revision 0 dated 8/23/74; Field in error, no response necessary.

NCR #304

Occurred due to poor legibility of piece mark numbers on shop detail sketches as previously described.

NCR #308

Occurred due to poor legibility of piece mark numbers on shop detail sketches as previously described.

NCR #340

This NCR occurred due to a difference in the requirements of the field's inspection procedures and Bechtel specification 7220-M-201Q, the difference being that Bechtel specification 7220-M-201Q makes no requirements for protection of stainless steel spools against environmental damage on the O.D. during shipment. Also, Grinnell

May 27, 1976

NCR #340 (cont.)

was not required to submit any shipping procedures to Bechtel Engineering for approval.

NCR #367

Spool tagged LHBC-18-S610-3-4 was prepared for shipment on 2nd shift when they were out of rubber gaskets. This fact was missed during inspection of the load prior to release for shipment. Trucks are tied down for shipment by the driver when he picks up the load. Since this is done at any time day or night seven days a week, it is impossible for either Grinnell or Bechtel to assure a proper tie down. Also, with the bulk and configuration of the spools being shipped, it would be a near impossibility to eliminate all of the type "damages" listed in this NCR. See also Inspection Report #51 on this assignment. (Note that piece mark number given for the stainless steel spool is LHBC-18-S610-3-4, which would be a carbon steel spool. Piece mark number should read LHCB-18-S610-3-4.)

NCR #384

Contamination - Due to difference in field inspection procedures and Bechtel specification 7220-M-201Q which makes no requirements for protection of carbon steel spools against environmental damage on the O.D. during shipment.

Loose Tie Down & Worn Material under Ties - Tie down done by driver of load any time day or night seven days a week; impossible for either Grinnell or Bechtel to assure a proper tie down.

Loose Caps & Flange Covers - Caps and covers were not loose upon inspection of loads prior to shipment; this must have occurred during shipping.

Not Painted - Spools identified as not painted were painted with the exception of small areas where the spool rested on bucks during painting and inspection.

Not Blasted - The requirement for blasting the O.D. in specification PS-1236-4 was put in by error and is not a required surface preparation for Ferralox 1500 paint. Due to these facts, neither the shop personnel nor the Bechtel inspectors were inspecting for this type of surface preparation (See Inspection Report #58).

NCR #390

Worn Material under Ties, Loose Flange Cover, Not Blasted - Same as NCR #384 above.

Weld End Preparation - 1/16" land is either filed or ground on the end preparation after the pipe is cut. This must not have been performed on these spools.

Paint on End Preparations - The paint on the end preparation is weldaluminite as required by Grinnell's approved code 1 procedure SS-KU19-8 Section VII 43, Paragraph 6.6.6 of specification 7220-M-201Q states that machined end surfaces shall not be painted with primer; it does not state that the ends shall not be painted with weldaluminite.

NCR #391

The quality verification documents for spool LHBC-135-S616-6-4 were reviewed by Bechtel inspection, zeroxed for shipment to the field, reinspected by Bechtel for completeness and legibility, and then boxed for shipment. Due to these facts, I do not know how this NCR occurred unless the documentation was somehow left out of the box and overlooked by both Grinnell and Bechtel inspection, or somehow lost in the field when the documentation was unpackaged (See Inspection Report #61).

The following measures have been taken by both Grinnell and Bechtel inspection in an effort to alleviate the problems indicated by the NCR's listed in this memorandum. Both parties are making a special effort to ensure that the piece mark number of each spool is legible and correct on all documentation, on the spool itself, and on

May 27, 1976

The code plates (the third party inspection agency, Hartford, has also been made aware of the problem of substituting 5's for the required S's and is checking for this problem) This will help prevent the reoccurrence of NCR's #261, 278, 304 and 308. The purchase order number on the G-321-D form has been corrected and the supplier has been instructed on the proper technique for filling it out - this will help prevent the reoccurrence of NCR's #261, 263, 277, 278. Loads are being inspected more closely by both Grinnell and Bechtel to ensure the correct number of pieces are being shipped, that they are completely painted, and that the ends and flanges are properly protected; this will help prevent the reoccurrence of NCR's #263, 367, 384, 390. All radiographers have been made aware of and are following the requirement for putting the purchase order number on all radiographs; this will help prevent the reoccurrence of NCR's #263, 275. Grinnell engineering revised procedure PS-1236-4 eliminating the surface preparation by grit blasting and the revised procedure PS-1236-5 was approved by Bechtel Project Engineer, R. L. Castleberry on 2/26/76 - this will prevent the reoccurrence of NCR's #384 and #390. Grinnell and Bechtel inspection review the completed zeroxed documentation packages immediately prior to packaging for shipment to the field to ensure completeness. This will help prevent the reoccurrence of NCR #391. Bechtel inspection is performing a random check of piece mark numbers shown on sketches used for inspection with those shown on the isometric drawing to verify their correctness. Also, Grinnell engineering is performing a check between piece mark numbers on sketches and on isometrics. This will help prevent the reoccurrence of NCR #297. No preventative action has been taken for NCR #303 since the writer's research found it to be written in error. No preventative action can be taken on NCR #340 and NCR #384 (contamination) until either Bechtel's specification 7220-M-201Q is revised to incorporate protection against environmental damage on the O.D. during shipment or Grinnell is requested to have a shipping procedure covering this requirement submitted and approved.

The writer does not feel, after researching the cause of the 14 NCR's and after initiating and monitoring the preventative measures to eliminate the nonconformances, that a "trend" of poor quality or lack of quality is developing at Grinnell. What does appear to the writer from these 14 NCR's is the image of a new job beginning with its inherent problems, misunderstandings and unintentionally overlooked requirements, without an efficient line of communication between the jobsite and the supplier, other than through NCR's to try to correct the problems.

The writer suggests that if possible both Bechtel inspection and the supplier, ITT Grinnell, should be put on the distribution lists for NCR's; at the present time, the writer only receives NCR's sporadically and the supplier's only source of NCR's is from the writer. This immediate distribution of the NCR to those at the source of the commodity would help to bring fast preventative measures to that particular problem and perhaps uncover other potential areas prior to fabrication or release.

The writer would also suggest that Grinnell be requested to submit for approval a shipping procedure so that Grinnell, Bechtel inspection and the jobsite will know how loaded spools are to be protected from the various types of damage received during shipment. Also, the writer would like to suggest that someone within the Bechtel organization review and compare Bechtel's specifications, Grinnell's procedures and the Field's inspection procedures for any potential conflicts in requirements (if supplied with the field's inspection procedures, the writer would be willing and happy to do this).

May 27, 1976

In conclusion, the writer would like to point out several things:

- 1) The spool listed in Table I of G. L. Richardson's letter to W. F. Holub dated March 8, 1976 as having a configuration inconsistent with the drawings was not fabricated with an incorrect configuration, but was tagged incorrectly due to an Engineering error (See NCR #297).
- 2) The 2 spools listed in Table II of G. L. Richardson's letter to W. F. Holub dated March 8, 1976 as not having been approved by Project Engineering were approved and acceptable for release for shipment in accordance with the TWX dated 12/6/74 from Bechtel Project Engineer, R. L. Castleberry.
- 3) After research by the writer, NCR's #261 (item 1), NCR #263 (item 2 B-1 2 B-1 Rev. 1), and NCR #303 were found to be in error.

If I can be of further assistance in answering these NCR's, please call me.

R. H. Tinsley

cc: D. Moore

Attachments: IOM from K. R. Dotterer April 20/1976 w/a
IOM from K. R. Dotterer May 6, 1976
NCR's #261, 263, 275, 277, 278, 297, 303, 304,
308, 340, 367, 384, 390 and 391.

NOTE:

This memorandum was typed by Ann Arbor Procurement Inspection Department from R. H. Tinsley's handwritten memorandum.

QUALITY ASSURANCE DISCREPANCY REPORT

3. QAD IDENT. NO. 105
4. ISSUE DATE 5-21-76
5. QAD PREPARED BY: G. A. Waldrop
9. DISCUSSED WITH A. Boos J. P. Connolly

1. PROJECT/DEPT./CONTRACTOR Midland 1 & 2	2. POINT OF ORIGIN <input checked="" type="checkbox"/> FIELD <input type="checkbox"/> OFFICE
6. WORK PLAN DATE N/A	7. CHECKLIST ITEM N/A
8. WHERE FOUND Auxiliary Building	

10. CONTROLLING DOCUMENT, SECTION, PARAGRAPH, ETC.
Field Instruction FIW-1, Rev. 0 "Bechtel Welder Guidelines"

11. QUOTATION
FIW-1 Page 4, Item 8. "DO NOT weld or burn unless all exposed material is adequately protected. Particular attention shall be provided in the area below your weld."
FIW-1 Page 5, Item 9. "DO protect facility equipment from sparks or slag by covering or removing it before cutting or welding."

12. DISCREPANCY DESCRIPTION
Contrary to the foregoing, welding operations for pipe hanger installation were observed in-process in the Auxiliary Building above Decay Heat Removal Heat Exchanger 1E-60A with no protective cover used to protect the equipment from sparks and slag.

13. RECOMMENDED CORRECTIVE ACTION
See Attached Sheet

14. SCHEDULED COMPLETION DATE June 4, 1976	15. RESPONSIBILITY FOR CORRECTIVE ACTION 1 & 3: PFOCE 2: Project Superintendent
---	--

16. CORRECTIVE ACTION TAKEN
See Attached Sheet

17. DATE COMPLETED 6-21-76	18. SUBMITTED BY RESPONSIBLE AUTHORITY J. P. Connolly (ITEMS 1 & 3)	19. CORRECTIVE ACTION VERIFIED BY OAE G. A. Waldrop	20. DATE 6-30-76
-------------------------------	--	--	---------------------

QAD #105
G. A. Waldrop
Block #13

1. QC - Inspect 1E-60A to determine if damage or contamination has occurred. Document this inspection and initiate remedial action as required.
2. Project Superintendent - Reinstruct Field Personnel and Welders in the requirements of the procedure.
3. QC - Determine why procedure was not enforced by QC. Take appropriate training action to ensure QC Engineers are familiar with the required protective practices.

QUALITY ASSURANCE DISCREPANCY REPORT

106

4. ISSUE DATE

May 21, 1976

1. PROJECT/DEPT./CONTRACTOR

Midland 1 & 2 Job 7220

2. POINT OF ORIGIN

FIELD

OFFICE

5. QAD PREPARED BY:

B. T. Stojkov

6. WORK PLAN DATE

5/15/76 - 5/28/76

7. CHECKLIST ITEM

N/A

8. WHERE FOUND

Auxiliary Building

9. DISCUSSED WITH

J. Miller

10. CONTROLLING DOCUMENT, SECTION, PARAGRAPH, ETC.

FPG-16, Rev. 0, Paragraphs 5.3 and 8.0

11. QUOTATION

Paragraph 5.3 says in part: "The performance of the maintenance

requirements (as directed on the F-10 form) is the responsibility of the MMS."

Paragraph 8.0 says in part: "If a deficiency occurs, the MMS shall obtain technical

direction and appropriate corrective time limits from the MME."

12. DISCREPANCY DESCRIPTION

NCR 425 describes the nonconforming condition of the nitrogen purge pressures on Decay Heat Removal Heat Exchangers 1E-60A, 1E-60B, 2E-60A and 2E-60B being out of specified range on nine out of ten consecutive days from 5/10/76 to 5/20/76. A subsequent check on 5/21/76 showed the purge pressures still out of the specified range (below 2 psig).

13. RECOMMENDED CORRECTIVE ACTION

See Attached Sheet

14. SCHEDULED COMPLETION DATE

6/11/76

15. RESPONSIBILITY FOR CORRECTIVE ACTION

Project Superintendent

16. CORRECTIVE ACTION TAKEN

See attached letter O-1100 dated June 3, 1976.

17. DATE COMPLETED

6-3-76

18. SUBMITTED BY RESPONSIBLE AUTHORITY

Brent T. Stojkov

19. CORRECTIVE ACTION VERIFIED BY OAE

Brent T. Stojkov

20. DATE

6/18/76

QAD #106
May 21, 1976
B. T. Stojkov
Block #13

1. Determine the cause of the continued failure to comply with the Decay Heat Removal Heat Exchangers maintenance requirements as stated (on the F-10 form).
2. Develop a plan of action to prevent the recurrence of the failure to comply with maintenance requirements for equipment not in the storage program.

Print **BTS**
Glynn

Bechtel Power Corporation

Interoffice Memorandum

To G. L. Richardson
Subject Job 7220 Midland Project
Response to QADR No. 106
0-1100

Date June 3, 1976
From J. F. Newgen
Of Construction
At Midland, Michigan

Copies to

The nonconformance outlined in the subject QADR was an indirect result of the present strike. Failure to comply with maintenance requirements per the F-10 form was due to the unavailability of pipe fitters and laborers that normally replace nitrogen cylinders when they are empty.

A temporary solution has been accomplished by placing a nitrogen cylinder outside the building and hooking up with a rubber hose. Except for one day, this has resulted in a conforming condition for the week ending 5/27/76. This arrangement will provide conformance until a permanent solution can be accomplished.

J. F. Newgen
J. F. Newgen

JFN/JV/sw

RECEIVED

JUN 08 1976
BECHTEL POWER CORP.
JOB 7220

PER *Jw*

QUALITY ASSURANCE DISCREPANCY REPORT

3. QAD IDENT. NO.

107

4. ISSUE DATE

6/1/76

1. PROJECT/DEPT./CONTRACTOR

Midland 1 & 2

2. POINT OF ORIGIN

FIELD
 OFFICE

5. QAD PREPARED BY:

G. Richardson

6. WORK PLAN DATE

N/A

7. CHECKLIST ITEM

N/A

8. WHERE FOUND

QC/QA Records

9. DISCUSSED WITH

J. Connolly

10. CONTROLLING DOCUMENT, SECTION, PARAGRAPH, ETC.

RT-XG-1, Rev. 1 and RT-XG-2, Rev. 1

11. QUOTATION

Para 3.9.3 "The Bechtel Level II individual shall interpret and accept all radiographs . . .".

12. DISCREPANCY DESCRIPTION

The following quality findings describe instances when Level II Bechtel Quality Control Engineers have accepted radiographs that did not meet the technique requirements of the above referenced procedures. These appear to be recurring problems as indicated by the following dates:

CPCo NCR QF-51 Dated 6/23/76

Bechtel QAF-088 dated 3/25/76

Bechtel QAF-086 Dated 3/25/76

CPCo NCR QA-97 dated 5/24/76

Bechtel QAF-087 Dated 3/25/76

13. RECOMMENDED CORRECTIVE ACTION

Develop a training module that will describe past problems and emphasize technique requirements. Present this to onsite Level II RT personnel. Also, retain this training module for presentation to all future Level II RT personnel that are assigned to this site.

14. SCHEDULED COMPLETION DATE 7/30/76

15. RESPONSIBILITY FOR CORRECTIVE ACTION PFQCE

16. CORRECTIVE ACTION TAKEN

17. DATE COMPLETED

18. SUBMITTED BY RESPONSIBLE AUTHORITY

19. CORRECTIVE ACTION VERIFIED BY QAE

20. DATE

QUALITY ASSURANCE DISCREPANCY REPORT

3. QAD IDENT. NO.

~~108~~ 112

4. ISSUE DATE

June 16, 1976

1. PROJECT/DEPT./CONTRACTOR

Midland 1 & 2

2. POINT OF ORIGIN

FIELD
 OFFICE

5. QAD PREPARED BY:

G. A. Waldrop

6. WORK PLAN DATE

N/A

7. CHECKLIST ITEM

N/A

8. WHERE FOUND

Aux. Bldg.

9. DISCUSSED WITH

A. Boos

D. Mathews

10. CONTROLLING DOCUMENT, SECTION, PARAGRAPH, ETC.

Specification 7220-M-204 Rev. 0 Paragraph 6.3.3d

11. QUOTATION

"Jigs, fixtures and lifting devices used in contact with surfaces of stainless steel shall be stainless steel, aluminum or approved non-metallic material".

12. DISCREPANCY DESCRIPTION

The grounding fixture observed in use on pipe spool 1GCB-25-5-6 consisted of a welding ground cable with the insulating end-boot pulled back and the brass coupling held in surface contact with the stainless steel pipe using adhesive backed tape.

13. RECOMMENDED CORRECTIVE ACTION

1. Remove grounding fixture and inspect contact point on pipe surface for evidence of arc striking. Take remedial action if required.
2. Issue instructions to Field for proper method of grounding to stainless steel components.
3. Indoctrinate welding personnel in correct grounding methods.

14. SCHEDULED COMPLETION

DATE July 15, 1976

15. RESPONSIBILITY FOR CORRECTIVE ACTION

Project Supt.

16. CORRECTIVE ACTION TAKEN

17. DATE COMPLETED

18. SUBMITTED BY RESPONSIBLE AUTHORITY

19. CORRECTIVE ACTION VERIFIED BY QAE

20. DATE

QUALITY ASSURANCE DISCREPANCY REPORT

3. QAD IDENT. NO.

113

4. ISSUE DATE

6/24/76

1. PROJECT/DEPT./CONTRACTOR

Midland 1 & 2

2. POINT OF ORIGIN

FIELD

OFFICE

5. QAD PREPARED BY:

G. A. Waldrop

6. WORK PLAN DATE

N/A

7. CHECKLIST ITEM

N/A

8. WHERE FOUND

Fabrication Shop

9. DISCUSSED WITH

R. Dougherty

10. CONTROLLING DOCUMENT, SECTION, PARAGRAPH, ETC.

Specification 7220-M-204 (Q) Rev. 4 and ASME Section III, 1971

11. QUOTATION

Specification 7220-M-204 (Q) Paragraph 4.1.3 states:

"Steel indentation stamping shall be done with a round nose or interrupted dot die".

ASME Section III, 1971, Paragraph NB-2151.1 states:

"Stamping, when used, shall be done with blunt-nosed-continuous or blunt-nosed-interrupted-dot die stamps".

12. DISCREPANCY DESCRIPTION

1. The millerfalls No. 1500-05 and 1550-05 1/4 inch dies being used to identify the shop fabricated 26 inch OHCB Piping (ASME III, Class 3) are not round-nose or blunt-nose dies, but appear to be standard sharp nose dies. The vendor has verified through field procurement that these dies are not low stress dies.

13. RECOMMENDED CORRECTIVE ACTION

See attached sheet

14. SCHEDULED COMPLETION DATE 7/23/76

15. RESPONSIBILITY FOR CORRECTIVE ACTION

1. Proj. Supt. 2&4. Quality Control. 3. Proj. Supt & Quality Control

16. CORRECTIVE ACTION TAKEN

17. DATE COMPLETED

18. SUBMITTED BY RESPONSIBLE AUTHORITY

19. CORRECTIVE ACTION VERIFIED BY QAE

20. DATE

Route To	This Copy For
FMSouthworth	SHHowell
CQHills	GSKeeley
HWSlager	TCCooke
	JMilandin
	WFHolub
	GLRichardson
	File



Consumers Power
Nonconformance
Report No OF-82

File 16.3.4
Issue Date March 2, 1976
Project Midland 1 & 2
File Title NCR's on Bechtel Construction

This Nonconformance Report is Issued To:

Mr. J. F. Newgen
Project Superintendent

who is responsible for corrective action.

Prepared By DK Keating Date 3-3-76
Approved By JJ Kelly Date 3/3/76
Written Reply Requested By Date 3-17-76
Corrective Action Requested By Date 3-31-

Nonconformance Description and Supporting Details: WFMC-1, Rev. 1, "Welding Filler Material Control Procedure Specification" controls weld rod on liner plate (per Section 7.4 of Specification C-111) and ASME Section III piping per the Bechtel Quality Assurance Manual (BQAM).

Section 6.3 of WFMC-1 states that, "The LFWE is responsible for designating the correct filler materials to be used for each weld or group of welds through the use of WR-5 and WR-6 Forms. Bechtel Standard Procedure WD-1 covers the use of both forms in detail." Bechtel Welding Standard WD-1, Rev. 3, "Quality Control and Documentation Procedure for Welding and Nondestructive Examination for ASME Code, (Contd on Attachment

AEC Reportable Yes No See Procedure 9 (For Nuclear Projects Only)
Stop Work Necessary Yes No See Procedure 16 - Stop Work No _____
No hold tags applied.

Recommended Corrective Action:

- 1) Provide assurance that Revision 3 of Form WR-6 addresses the requirements of Revisions 0 and 8.
- 2) Use the revisions of the form that are required by the procedures or, if Revision 3 of the procedure is acceptable for use, amend the procedures contained in the BQAM to allow use of the form.

Corrective Action Taken:

See Attachment.

Verification of Corrective Action Required Yes No

Method of Verification:
See Attachment.

Nonconformance Closure Confirmed By DK Keating
Date 6-23-76

To be completed at time of closure by Consumers Power QA Services.

File 16.3.4
Issue Date March 3, 1976
Project Midland 1 & 2
File Title NCR's on Bechtel
Construction

Attachment to Report No QF-82

Nonconformance Description and Supporting Details: (Contd)

Section III, Division 1 Applications, "covers the use of the WR-6 "Filler Material Withdrawal Authorization", under Section 9.0. Section 9.2 of WD-1 states in part that, "Two versions of Form WR-6 are approved for use. These are specifically: WR-6, Revision 0 (for manual data input); and WR-6, Revision 8 (for manual or computer data input)." Revision 0 is dated May, 1973 and Revision 8 is not dated.


Contrary to the above, WR-6, Revision ³~~0~~, dated April 1, 1971 is in use for liner plate and ASME Section III welding. *BRK*

¹Corrective Action Taken:

- 1) Bechtel has compared revision 3 of the WR-6 to Rev. 0 of the WR-6 and concluded that the two revisions of the form are equivalent.
- 2) Bechtel has determined that a comparison of revision 3 and revision 8 is not appropriate as revision 8 is used for computer data input and is not in use at Midland.
- 3) Bechtel has ordered and received the proper revision (revision 0) of form WR-6. As Bechtel had determined that revisions 0 and 3 are equivalent, revision 3 was used in the interim until the proper revision was received.

¹Method of Verification:

- 1) Revisions 0 and 3 of form WR-6 were compared and found to be equivalent.
- 2) CPCo QA concurred that a comparison of revisions 3 and 8 is not appropriate.
- 3) Verified that the proper revision (revision 0) of WR-6 has been received and distributed to the point of use.

Route To	This Copy For	 Consumers Power Nonconformance Report No <u>OF-88</u>	File
FMSouthworth HWSlager CQHills	SHHowell GSKeeley TCCooke GLRichardson JMilandin WFHolub File		

This Nonconformance Report is Issued To:

J. F. Newgen
Bechtel Project Superintendent

who is responsible for corrective action.

Prepared By RE Whitaker Date 3/23/76

Approved By [Signature] Date 3/23/76

Written Reply Requested By Date 4/28/76

Corrective Action Requested By Date 4/28/76

Nonconformance Description and Supporting Details:

On March 10, 1976, tendon sheathing was found open back of the condenser storage area and near the paint and sandblast building. The Material Storage Supervisor was notified at that time of the problem. On 3/17/76 during the NRC visit the problem was again identified. At that time the MSE was contacted and he said he would have the sheathing covered by 3/18/76. A portion of the open ends were covered, but some of them are still open.

AEC Reportable Yes No See Procedure 9 (For Nuclear Projects Only)

Stop Work Necessary Yes No See Procedure 16 - Stop Work No _____
No hold tags applied.

Recommended Corrective Action:

1. Inspect, clean if necessary and document all of the sheathing that is now open.
2. Recap or cover all of the sheathing that is now open.
3. Instruct personnel with storage responsibilities in proper techniques for storage maintenance to preclude repetition of this or similar problems.

Corrective Action Taken:

SCN C-2-6001 was issued April 19, 1976 eliminating the requirement to keep semirigid sheathing capped or covered and adding the requirement to thoroughly clean the interior of the sheathing just prior to installation. The storage requirement form F-1-199 was changed to reflect the change in the specification.


Verification of Corrective Action Required Yes No

Method of Verification:

The revised form F-1-199 and SCN C-2-6001 were reviewed. Master Inspection Plan C-2-1 Rev. FC-2 which picks up the inspection of the cleaning of the semirigid sheathing was reviewed.

Nonconformance Closure Confirmed By RE Whitaker
Date 6/7/76

To be completed at time of closure by Consumers Power QA Services.

Route To	This Copy For	 Consumers Power Nonconformance Report No <u>OF-89</u>	File <u>16.3.4</u>
FMSouthworth	SHHowell		Issue Date <u>April 6, 1976</u>
HWSlager	GSKeeley		Project <u>Midland 1 & 2</u>
CQHills	TCCooke GLRichardson JMilandin WFHolub File ✓		File Title <u>NCR's on Bechtel Construction</u>

This Nonconformance Report is Issued To:

J. F. Newgen
Bechtel Project Superintendent

who is responsible for corrective action.

Prepared By RE Whitaker Date 4/6/76

Approved By J. Newgen Date 4/6/76

Written Reply Requested By Date 4/20/76

Corrective Action Requested By Date 5/04/76

Nonconformance Description and Supporting Details:

At the present time a tag with the following information is attached to the upper internals shipping container. "DO NOT REMOVE THIS TAG, Refer to FPG-3, F-1-207, F-2-1872 Dated 1/8/76 and letter from Babcock and Wilcox to Bechtel dated 3/19/76..." There is not a provision in FPG-3 for tagging material until a problem is corrected. The only existing procedure for tagging an item to identify a problem that needs correcting is FIM G-3 for nonconforming items.

AEC Reportable Yes No See Procedure 9 (For Nuclear Projects Only)

Stop Work Necessary Yes No See Procedure 16 - Stop Work No _____

One Hold Tag applied.

Recommended Corrective Action:

1. Issue a nonconformance report to document the problem that exists in the upper internals shipping container.
2. Hold a training session to inform the appropriate personnel how to handle situations that do not conform to specified requirements.

Corrective Action Taken:

See Attachment.

Verification of Corrective Action Required Yes No

Method of Verification:

The form F-1-207 Rev. 3 was reviewed and the removal of the tag was visually confirmed. The notes and charts from the training session were reviewed.

Nonconformance Closure Confirmed By RE Whitaker
Date 6/21/76

To be completed at time of closure by Consumers Power QA Services.

File 16.3.4
Issue Date April 6, 1976
Project Midland 1 & 2
File Title NCR's on Bechtel
Construction

Attachment to QF-89

¹Corrective Action Taken:

1. The F-1-207 form has been changed to require restoration of the internals cannister to its original condition (replace belts in cannister) by September 1, 1976. The improper tag has been removed from the upper internals shipping container.
2. Field Procedure FPG-3 has been revised (Rev. 5) to clarify the procedure to be used when a storage deficiency occurs. Training sessions were held on April 26 and 27, 1976 to explain the revisions to FPG-3, 6, 16 and 17 which covers the entire range of material storage both Q and non-Q. This training included what to do if a problem occurs.

Route To	This Copy For
FMSouthworth	SHHowell
CQHills	GSKeeley
HWSlager	TCCooke
	PAMartinez
	JMilandin
	WFHolub
	GLRichardson
	ZGTucker



Consumers Power
 Nonconformance
 Report No QP-95

File	<u>16.3.6</u>
Issue Date	<u>April 30, 1976</u>
Project	<u>Midland 1 & 2</u>
File Title	<u>NCR's on Bechtel Quality Control</u>

This Nonconformance Report is Issued To:
 J. P. Connolly
 Bechtel PFQCE
 who is responsible for corrective action.

Prepared By _____ Date _____
 Approved By J. P. Connolly Date 4/30/76
 Written Reply Requested By Date 5/11/76
 Corrective Action Requested By Date 6/1/76

Nonconformance Description and Supporting Details:
 A copy of Field Inspection Plan C-231-2-827 obtained on or about 3/27/76 has only a signature and date of 3/2/76 at the bottom of Block 12 for Activity 2.60. However, a copy of the same plan obtained 4/29/76 has a lengthy exception added with no date, signature, nor initials. Obviously, an inspection record has been changed. This is unacceptable to Consumers Power Company without a controlling mechanism.

AEC Reportable Yes No See Procedure 9 (For Nuclear Projects Only)
 Stop Work Necessary Yes No See Procedure 16 - Stop Work No _____

- Recommended Corrective Action:
1. Develop a mechanism for changing and controlling the changes to completed inspection plans.
or
 2. Decide that such changes will not be made.
 3. Train all QC personnel in the alternative chosen.


- Corrective Action Taken:
1. PSP G-7.1 was revised to include a mechanism for changing quality records and controlling those changes.
 2. Training on the revised PSP was given on 6/8/76.

Verification of Corrective Action Required Yes No

- Method of Verification:
1. Revision 1 to PSP G-7.1 was reviewed for content.
 2. Reviewed QCFM 2068 which was written to document that training.

Nonconformance Closure Confirmed By J. P. Connolly
 Date 6/1/76

To be completed at time of closure by Consumers Power QA Services.

Route To	This Copy For		File
FMSouthworth CQHills HWSlager	SHHowell GSKeeley TCCooke PAMartinez JMilandin WFHolub GLRichardson ZGTucker		Consumers Power Nonconformance Report No <u>OF-96</u>

This Nonconformance Report is Issued To:

J. P. Connolly
Bechtel PFQCEPrepared By W.A. Binkert/C Date 5/2/76Approved By J.P. Connolly Date 5/2/76Written Reply Requested By Date 5/07/76Corrective Action Requested By Date 5/17/76

who is responsible for corrective action.

Nonconformance Description and Supporting Details:

Field Inspection Plans C-231-2-827 and C-231-2-858 have notes in Block 12 of Activity Task 2.60 which, in essence, are exceptions to the QCE's acceptance. However, Block 5.10 is signed off indicating that there are no exceptions open.

Also, the exceptions on these plans indicate a total of twenty bars left out (fourteen in the first and six in the latter) when actually fifty-two bars were left out (twent six in each case). The second of these was after the additional corrective action was started in response to FSW-7.

AEC Reportable Yes No See Procedure 9 (For Nuclear Projects Only)Stop Work Necessary Yes No See Procedure 16 - Stop Work No _____Consumers Power Company will continue inspections of all rebar placement.
Recommended Corrective Action:

1. Reinstruct QCE's in completion of Field Inspection Plans.
2. Correct the referenced plans.
3. Since the additional corrective action after FSW-7 still did not result in all missing bars being accounted for, develop additional corrective action in this area.

¹ Corrective Action Taken:

See Attachment.

¹ Verification of Corrective Action Required Yes No ¹ Method of Verification:

See Attachment.

¹ Nonconformance Closure Confirmed By W.A. Binkert
Date 6-11-76¹ To be completed at time of closure by Consumers Power QA Services.

File 16.3.6
Issue Date May 3, 1976
Project Midland 1 & 2
File Title NCR's on Bechtel
Quality Control


Attachment to
Report No QF-96

¹Corrective Action Taken:

1. A response letter from J. P. Connolly stated that the Lead Quality Control Engineers were instructed in the method of changing completed inspection plans and later were instructed on Section 3.5 of PSP G-7.1 which was issued for portion of the corrective action of QF-95.
2. Bechtel NCR-427 was issued and an Engineering disposition stated that, "The Field installation satisfies the design requirements and was acceptable". In addition, a DCN No 9 to Drawing C-140 was recently issued allowing for rebar hooks to be turned in any direction to facilitate construction and all Field Inspection Plans were reviewed, evaluated and review results documented by a letter from L. R. Albert to the QC file which indicated that the Lead QCE reviewed and evaluated the entries made in Block No 9 not pertaining to NCR's which was related to this NCR.
3. There was no additional corrective action after Field Stop Work-7 required since Bechtel's letter of response stated in part that, "The problem then was not that Bechtel QC was unaware of requirements for these bars but rather that the omitted bars were improperly documented. The reference to the bars in question should have been changed to the scope of the inspection plan rather than an exception to activity 2.60. The decision not to include the bars in the subject placements was a change to the scope of the placement rather than an exception or nonconformance to the placement".

¹Method of Verification:

1. The response letter from Bechtel QC was reviewed and accepted.
2. Bechtel NCR-427 and the Engineering disposition was reviewed and found acceptable. Also, DCN 9 to Drawing C-140 was reviewed for content.
3. The response letter from Bechtel QC was reviewed for content.

Route To	This Copy For	 Consumers Power Nonconformance Report No <u>OF-99</u>	File <u>16.3.4</u>
FMSouthworth CQHills HWSlager	SHHowell GSKeeley TCCooke JMilandin WFHolub GLRichardson File		Issue Date <u>May 4, 1976</u> Project <u>Midland 1 & 2</u>
			File Title <u>NCR's on Bechtel Construction</u>

This Nonconformance Report is Issued To:

J. F. Newgen
Bechtel Project Superintendent

who is responsible for corrective action.

Prepared By DR Keating Date 5-4-76

Approved By J. J. Kelly Date 5/4/76

Written Reply Requested By Date 5-18-76

Corrective Action Requested By Date 6-01-76

Nonconformance Description and Supporting Details:

Bagwell procedure 3232 BCP01B "Application Procedure Phenoline 305 Finish" requires in section III D that for airless application, a Graco 30:1 Bulldog pump and Graco Golden Gun with a .015 tip be used.

Contrary to the above, Bagwell has used a Speed Flo pump and H gun for the application of the intermediate coat of Phenoline 305.

AEC Reportable Yes No See Procedure 9 (For Nuclear Projects Only)

Stop Work Necessary Yes No See Procedure 16 - Stop Work No _____

No hold tags applied.

Recommended Corrective Action:

- 1) Assure that the use of the different equipment has not affected the quality of the coating.
- 2) Comply with the procedure or revise the procedure to allow the use of alternate equipment.

¹ Corrective Action Taken:

See Attachment.

¹ Verification of Corrective Action Required Yes No

¹ Method of Verification:

The manufacturer's (Carboline) latest written recommendation for Phenoline 305 application was reviewed and it was verified that the equipment used met the manufacturer's recommendation.

¹ Nonconformance Closure Confirmed By DR Keating
Date 6-18-76


¹ To be completed at time of closure by Consumers Power QA Services.

File 16.3.4
Issue Date May 4, 1976
Project Midland 1 & 2
File Title NCR's on Bechtel
Construction

Attachment to Report No QF-99

¹Corrective Action Taken:

Specification C-110 "Recoating Work of the Containment Building Liner Plate" governs over the Bagwell QA Manual per a statement in the QA Manual. The specification requires that the "Application shall be in accordance with the manufacturer's latest written recommendations governing..., airless or air spray equipment;..." The equipment used was in accord with the manufacturer's recommendation and thus the liner plate was coated in accordance with the specification and meets the required quality. As it is stated that the specification governs, a revision of the procedure is not considered mandatory.

Route To	This Copy For	 Consumers Power Nonconformance Report No QF-100	File
FMSouthworth CQHills HWSlager	SHHowell GSKeeley TCCooke JMilandin WFHolub GLRichardson ZGTucker		

This Nonconformance Report is Issued To:

J. P. Connolly
Bechtel PFQCE

who is responsible for corrective action.

Prepared By W.H. Bechtel Date 5-4-76

Approved By J. P. Connolly Date 5/11/76

Written Reply Requested By Date 5/11/76

Corrective Action Requested By Date 6/1/76

Nonconformance Description and Supporting Details:

See Attachment A.

AEC Reportable Yes No See Procedure 9 (For Nuclear Projects Only)

Stop Work Necessary Yes No See Procedure 16 - Stop Work No _____

Recommended Corrective Action:

See Attachment A.

¹ Corrective Action Taken:

See Attachment A.

¹ Verification of Corrective Action Required Yes No

¹ Method of Verification:

See Attachment A.

¹ Nonconformance Closure Confirmed By W.H. Bechtel
Date 6-14-76

¹ To be completed at time of closure by Consumers Power QA Services.

File 16.3.6
Issue Date May 4, 1976
Project Midland 1 & 2
File Title NCR's on Bechtel
Quality Control

Attachment A to Report No QF-100

Nonconformance Description and Supporting Details:

Criterion XV of 10CFR50(B) states: "Measures shall be established to control materials, parts, or components which do not conform to requirements in order to prevent their inadvertent use or installation. These measures shall include, as appropriate, procedures for identification documentation, segregation, disposition, and notification to affected organizations. Nonconforming items shall be reviewed and accepted, rejected, repaired, or reworked in accordance with documented procedures".

Contrary to these requirements, a nonconforming condition was noted in Block 12 of Activity/Task 2.60 on Field Inspection Plan C-231-2-858 with no nonconformance report written. Furthermore, this condition was not "reviewed and accepted in accordance with documented procedures".

Recommended Corrective Action:

1. Write a nonconformance report to cover the nonconforming condition in the referenced inspection plan.
2. Receive disposition from Project Engineering including engineering rationale for use as is if that is the disposition received.
3. Review all completed Field Inspection Plans for exceptions which have not resulted in NCR's and, if any are found, proceed as in items #1 and #2 above.
4. Instruct all QCE's in the requirements of Criterion XV and the necessity of following it.

¹Corrective Action Taken:

1. Bechtel NCR 427 was issued stating that the design drawings showed certain No 11 and No 8 reinforcing bars standard hooks oriented down into the wall at elevation 629' and that the Field construction elected to install these bars with standard hooks extending up into the slab instead.
2. Project Engineering disposition was received and indicated that the Field decision was acceptable and, therefore, the installation was not a nonconforming condition.
3. All Field Inspection Plans were reviewed and evaluated for entries made in Block No 9 not pertaining to NCR's and the review results were documented by the Lead Discipline Engineers in a letter from L. R. Albert to the QC file.
4. Quality Control Engineers and QC personnel reviewed all field inspection plans as a result of this NCR QF-100 as well as other NCR's and deficiencies. A training session was conducted by Bechtel QC on the overall results of the field inspection plan review. This training session was documented in the letter from L. R. Albert on June 10, 1976 to the QC files.


File 16.3.6
Issue Date May 4, 1976
Project Midland 1 & 2
File Title NCR's on Bechtel
Quality Control

Attachment A to Report No QF-100 (Contd)

¹Method of Verification:

1. Bechtel NCR 427 was reviewed for content and found acceptable for closure of NCR's QF-96 and 100.
2. The engineering disposition for NCR 427 was reviewed and found acceptable for closure of QF-96 and 100.
3. The cover letter from L. R. Albert to the QC file written on June 10, 1976 was reviewed for the specific items pertaining to QF-100 that were reviewed by Bechtel QC.
4. Reviewed letter from L. R. Albert on June 10, 1976 which indicated that a training session was presented.

Route to	This Copy For		
FMSouthworth	SHHowell	File	16.3.6
CQHills	GSKeeley	Issue Date	May 17, 1976
HWSlager	TCCooke	Project	Midland 1 & 2
	JMilandin	File Title	NCR's on Bechtel
	WFHolub		Quality Control
	GLRichardson		
	File		



Consumers Power

Nonconformance
Report No OF-102

This Nonconformance Report is Issued To:

Mr. J. P. Connolly
Bechtel Project Field Quality Control
Engineer

who is responsible for corrective action.

Prepared By DK Keating Date 5-17-76

Approved By [Signature] Date 5/17/76

Written Reply Requested By Date 6-1-76

Corrective Action Requested By Date 6-1-76

Nonconformance Description and Supporting Details: Bechtel Field Inspection Plan (FIP) C-110-b-64, "Recoating Work of the Reactor Building Liner Plate," contains an inspection point under Act/Task No. 3.00 which requires that the liner plate be inspected for deep pits and gouges prior to coating.

The inspection on liner plate assembly C-111-64 failed to identify a deep gouge. The gouge was subsequently identified by Bechtel during the hold point for liner plate requalification and documented on Bechtel NCR 409. NCR 409 states that the gouge was prime coated indicating that the gouge did not occur during handling subsequent to the prime coating. The gouge has been repaired in accordance with the disposition on NCR 409 and the coating repair has been addressed through corrective action on Bechtel Quality Assurance Discrepancy report 099 and there is no further hardware repair required. AEC Reportable Yes No See Procedure 9 (For Nuclear Projects Only)

Stop Work Necessary Yes No See Procedure 16 - Stop Work No _____
No hold tags applied.

Recommended Corrective Action:

- Instruct personnel in proper requirements for surface inspection of the reactor building liner plate.

Corrective Action Taken:

Cognizant personnel received instruction on liner plate surface inspection.

Verification of Corrective Action Required Yes No

Method of Verification:

Reviewed documentation of the instruction that was given (letter QCFM-1065). The instruction was given prior to the issuance of this NCR in response to NCR QF-91. All liner plate will be reinspected for surface defects under the C-111-4 inspection plan.

Nonconformance Closure Confirmed By DK Keating
Date 6-10-76

To be completed at time of closure by Consumers Power QA Services.

Route To	This Copy For
FMSouthworth	SHHowell
CQHills	GSKeeley
HWSlager	TCCooke
	JMilandin
	WFHolub
	GLRichardson
	DRJohnson



Consumers Power
Nonconformance
Report No QF-104

File 16.3.6
Issue Date May 25, 1976
Project Midland 1 & 2
File Title NCR's on Bechtel
Quality Control

This Nonconformance Report is Issued To:

J. P. Connolly
Bechtel Project Field Quality Control
Engineer

who is responsible for corrective action.

Prepared By H.H. Bechtel Date 5-29-76

Approved By J.P. Connolly Date 5/21/76

Written Reply Requested By Date 6-15-76

Corrective Action Requested By Date 6-30-76

Nonconformance Description and Supporting Details:

Project Special Provisions notice SF/PSP #16, Rev. 0, section 3.1 states in part, "The Lead Field Quality Control Engineers (LFQCE) shall submit written requests to the Field Inspection Planning Coordinator for the preparation of the required Field Inspection Plans".

Contrary to the above, only one of four Field Inspection Plan Request forms asked for was presented. The one presented did not show documented evidence of submittal by LFQCE.

AEC Reportable Yes No See Procedure 9 (For Nuclear Projects Only)

Stop Work Necessary Yes No See Procedure 16 - Stop Work No _____

Recommended Corrective Action:

1. Revise procedure to conform to field practice.
2. Provide a system for control of written request forms or specifically state these forms are not to be retained. If the written requests are not retained, the FQCE who submitted the request should have the person's name and date of request appear in Block No. 5 of QC-G6-1A form.
- 1 3. Train QC personnel on revised procedure.

Corrective Action Taken:

See Attachment.

1 Verification of Corrective Action Required Yes No

1 Method of Verification:

See Attachment

1 Nonconformance Closure Confirmed By H.H. Bechtel
Date 6-22-76

1 To be completed at time of closure by Consumers Power QA Services.

File 16.3.6
Issue Date May 25, 1976
Project Midland 1 & 2
File Title NCR's on Bechtel
Quality Control


Attachment to QF-104

¹Corrective Action Taken:

1. & 2. The Project Special Provisions Notices (PSP) No. 16 was canceled which supplemented the FIM G-6. Now the Quality Control Engineer with responsibility for preparing the Field Inspection Plan is required to make an entry in block #5 of the QC G-6 1A form and sign and date it.

¹Method of Verification:

1. Review the Project Special Provision Notices table of contents which indicated that the PSP No. 16 supplemental requirement was deleted.

Route To	This Copy For	 Consumers Power Nonconformance Report No <u>OF-105</u>	File	16.3.6
FMSouthworth CQHills HWSlager	SHHowell GSKeeley TCCooke JMilandin WFHolub GLRichardson DRJohnson			Issue Date
			Project	Midland 1 & 2
			File Title	NCR's on Bechtel Quality Control

This Nonconformance Report is Issued To:

J. P. Connolly
Bechtel Project Field Quality Control
Engineer

who is responsible for corrective action.

Prepared By W.H. Bechtel Date 5-24-76

Approved By J.P. Connolly Date 5-27-76

Written Reply Requested By Date 6-22-76

Corrective Action Requested By Date 6-22-76

Nonconformance Description and Supporting Details:

FIM G-6, Block No. 6 states, "The Lead Discipline Quality Control Engineer shall review the plan for content, adherence to this procedure and completeness and shall signify approval by entering his signature and the date before the plan is utilized for inspection by the Quality Control Engineer".

Contrary to the above, two inspection plans C-231-4-632, Rev. 0 and C-231-3-631, Rev. were found with documentation missing in Block No. 6. (No approval signature and date

AEC Reportable Yes No See Procedure 9 (For Nuclear Projects Only)

Stop Work Necessary Yes No See Procedure 16 - Stop Work No _____

Recommended Corrective Action:

1. Review all inspection plans from September of 1975* to present for entry information in required blocks.
2. Document this review and evaluate.
3. Based on results, state in written reply the corrective action taken to preclude repetition.

Corrective Action Taken:

See Attachment.

Verification of Corrective Action Required Yes No

Method of Verification:

See Attachment.

Nonconformance Closure Confirmed By W.H. Bechtel
Date 6-24-76

To be completed at time of closure by Consumers Power QA Services.

File 16.3.6
Issue Date May 25, 1976
Project Midland 1 & 2
File Title NCR's on Bechtel
Quality Control

Attachment To
Report No QF-105

¹Corrective Action Taken:

1. Bechtel QC reviewed and evaluated all Field Inspection Plans for signatures and dates relating to the implementation and close out of Field Inspection Plans.
2. The review of the results were documented by cover letter on June 10, 1976 (attached to NCR in file) which outlines the items reviewed and documented by Lead QCE's. The cover letter and review package are filed in the QC vault at Midland. (Audit file No 206.)
3. A written reply letter from Bechtel (FQCL-081) describing the corrective action taken to preclude repetition was received. Training class was held on June 8, 1976 on the new change to Bechtel Procedure G-7.1, Section 5.3 that requires the file clerk to review newly received records for completeness. In addition, the PFQCE has instructed the Assitant PFQCE to review all newly completed Field Inspection Plans and IR's for completeness until further notice.

¹Method of Verification:

1. Reviewed Bechtel QC FIP review cover letter for the review package to assure for legibility and completeness.
2. Reviewed Bechtel FIP review cover letter and response letter (FQCL-081) for content and applicability.
3. Reviewed letter (FQCL-081) and FIP review letter outlining review requirements of the package and for signature of the Lead Discipline QCE's concurrence.

Route To	This Copy For
FMSouthworth	SHHowell
HWSlager	GSKeeley
CQHills	TCCooke
	JMilandin
	WFHolub
	GLRichardson
	File



Consumers Power

Nonconformance
Report No QF-107

File	16.3.4
Issue Date	June 1, 1976
Project	Midland 1 & 2
File Title	NCR's on Bechtel Construction

This Nonconformance Report is Issued To:

Mr. J. F. Newgen
Bechtel Project Superintendent

who is responsible for corrective action.

Prepared By DK Keating Date 6-1-76

Approved By [Signature] Date 6/1/76

Written Reply Requested By Date 6-15-76

Corrective Action Requested By Date 6-29-76

Nonconformance Description and Supporting Details:

WFMC-1, Rev. 1, "Welding Filler Material Control Procedure Specification" requires under section 6.4 7) that, "Where physically possible, low hydrogen type electrodes shall be used directly from the rod warmer".

Contrary to the above, an ironworker welder in the Auxiliary Building was observed to be drawing low hydrogen weld rod (E7018) from a stub bucket where it was physically possible for him to be using directly from the rod warmer. Discrepancy was observed on May 26, 1976.

NCR's QF-78, QF-81, and QF-86, issued relative to weld rod control, will be held open until this NCR is closed.

AEC Reportable Yes No See Procedure 9 (For Nuclear Projects Only)

Stop Work Necessary Yes No See Procedure 16 - Stop Work No _____

No hold tags applied.

Recommended Corrective Action:

- 1) Revise General Specification G-27 to incorporate WFMC-1, Rev. 2 and issue for use. Rev. 1 will currently remain in effect for ASME Section III work.
- 2) Instruct cognizant personnel of new requirements and document the instruction.

¹ Corrective Action Taken:

¹ Verification of Corrective Action Required Yes No

¹ Method of Verification:

¹ Nonconformance Closure Confirmed By _____
Date _____

¹ To be completed at time of closure by Consumers Power QA Services.

Route To	This Copy For
FMSouthworth	SHHowell
HWSlager	GSKeeley
CQHills	TCCooke
	JMilandin
	WFHolub
	GLRichardson
	File



Consumers Power
 Nonconformance
 Report No QF-108

File 16.3.4
 Issue Date June 21, 1976
 Project Midland 1 & 2
 File Title NCR's on Bechtel Construction

This Nonconformance Report is Issued To:

Mr. J. F. Newgen
 Bechtel Project Superintendent

who is responsible for corrective action.

Prepared By DK Keating Date 6-21-76

Approved By J. L. Kelly Date 6/21/76

Written Reply Requested By Date 7-06-76

Corrective Action Requested By Date 7-19-76

Nonconformance Description and Supporting Details:

See Attachment.

AEC Reportable Yes No See Procedure 9 (For Nuclear Projects Only)

Stop Work Necessary Yes No See Procedure 16 - Stop Work No _____

No hold tags applied.

Recommended Corrective Action:

See Attachment.

¹ Corrective Action Taken:

¹ Verification of Corrective Action Required Yes No

¹ Method of Verification:

¹ Nonconformance Closure Confirmed By _____
 Date _____

¹ To be completed at time of closure by Consumers Power QA Services.

File 16.3.4
Issue Date June 21, 1976
Project Midland 1 & 2
File Title NCR's on Bechtel
Construction

Attachment to Report No QF-108

Nonconformance Description and Supporting Details:

10CFR50(B), Criterion XIII, "Handling, Storage and Shipping," states that "Measures shall be established to control the handling, storage, shipping, cleaning, and preservation of material in accordance with work and inspection instructions to prevent damage or deterioration". Criterion V, "Instructions, Procedures and Drawings" requires that activities affecting quality be prescribed by documented instructions, procedures, or drawings.

Contrary to those requirements, maintenance of Reactor Building liner plate was not covered by procedure between the time it was released from storage and the time it was erected. There is no mechanism to assure that items requiring post storage maintenance are covered under the maintenance procedure (FPG-16).

The following was observed on the liner plate:

- 1) Unit 1, second lift liner plates C-111-55, 58, 59, 60, 61, 63, 65, 66, 69, 70, 71, and 72 had open leak chase nipples.
- 2) Dome liner plate sections D-9-18 and D-7-17 were in contact with the ground.

Recommended Corrective Action:

- 1) The leak chase nipples have been plugged and dome section D-7-17 has been moved onto the jig. Further hardware correction requires that dome section D-9-18 be lifted from contact with the ground. Required material evaluation will be done under liner plate requalification. D-9-18 is located east of the dome jig buildings.
- 2) Issue an F-10 form on liner plate in accordance with procedure FPG-16.
- 3) Institute a method to assure that items that require FPG-16 maintenance coverage do obtain the coverage.