

Stephen H. Howell
Vice President



Consumers
Power
Company

General Offices: 212 West Michigan Avenue, Jackson, Michigan 49201

December 19, 1975
Howe-182-75

Dr. Donald F. Knuth, Director
Office of Inspection and Enforcement
US Nuclear Regulatory Commission
Washington, DC 20555

MIDLAND NUCLEAR PLANT - ALAB-106 MONTHLY
NONCONFORMANCE REPORT FOR NOVEMBER 1975

In accordance with Condition 4 of Memorandum and Order ALAB-106 dated March 26, 1973 and Amendment No. 1 of the Midland Plant Construction Permit, enclosed are ten (10) copies of the nonconformance reports for November 1975. The report consists of copies of Bechtel Nonconformance Reports and Quality Audit Findings written or closed during the month, all sheets from the Bechtel Nonconformance Report Log and Status Book which reflect open Bechtel NCR's, and Consumers Power Company Nonconformance Reports written or closed during the month. There were no Bechtel Quality Assurance Discrepancy Reports or Management Corrective Action Reports written during the month of November.

CC: JGKepler, USNRC

Stephen H. Howell

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NONCONFORMANCE-REPORT LOG & STATUS BOOK

9-3-75
6-3-74
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11-27-74
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REPORT DATE
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1. PROJECT NO. 7220

2. NCR NO.	3. ORIG. DATE	4. PREPARED BY	5. NONCONFORMANCE DESCRIPTION/RE MARKS	6. STATUS				
				6. ROUTE	7. DATE XMTD	8. DATE RETD	9. DATE CLOSED	10. CLOSED BY
100	5-23-74	A. L. Boulden	C-111. Fit-Up of Penetrator R-1-L out of Spec. 1.212	No	5-24-74	5-24-74	5-24-74	A. L. Boulden
101	5-23-74	P. T. Carpenter	C-208. 5th & 6th Cement User Test Out of Spec. 1.12	No	6-3-74	7-17-74	7-19-74	L. R. Albert
102	5-30-74	H. D. Foster	C-110. Final coat of liner plates S2-4-U-1 & S1-1-U-1 insufficient in Mill Thickness. 1.24	No	6-3-74 7-22-74	7-3-74 8-16-74	11-6-75	H.D.Foster
103	5-31-74	A. L. Boulden	C-111. Floor liner plate F-8-L cut incorrectly. 1.21	Field No.	5-31-74		11-12-74	A.L. BOULDEN
104	5-31-74	R. A. Moray	C-2. Material Test Reports for Trumpet Assys on AEOs 98, 139, & 168 not received. 1.13	Field No. M.S.	5-31-74 6-3-74	7-8-74 7-23-74	8-2-74	8-21-74 R.A. MORAY
105	6-4-74	S. Grant, H. B. Nordstom	C-2. Six Buttress Frames with unacceptable AWS Welding at receipt inspection.	Field No.	6-4-74	6-26-74	6-26-74	J. P. roll
106	6-4-74	R. A. Moray	C-2. 12 Side Frames not fabricated per approved vendor drawing. N/A	Field No. M.S.	6-4-74 6-25-74	7-8-74	7-22-74	R. A. ay
107	6-4-74	R. A. Moray	C-2. 6 Side frames damaged prior to receipt inspection.	Field No.	6-4-74	7-2-74	12-27-74	R.A. 214
108	6-4-74	J. C. Fitzgerald	C-36. Listing of part numbers and heat numbers requiring mill certification. 1.42	Field No. M.S.	6-4-74 6-6-74	7-26-74	9-12-74	R.A. 214
109	6-6-74	W. C. O'Neil	C-111. M13 Imbed beams misaligned in Containment #2. 1.45	No	6-11-74	6-14-74	11-13-74	A.L. BOULDEN
110	6-10-74	R. A. Moray	C-50. Two Penetrations partially embedded in mud. 1.212	Field No.	6-11-74	6-13-74	6-17-74	R. A. Moray
111	6-10-74	J. F. Gibson	C-111. Floor plates MK-F-19L and MK-F-9L misaligned. 1.21	No	6-11-74	6-14-74	11-13-74	A.L. BOULDEN

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 O.C. ENG. SIGN J. Williams

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
112	6-5-74	S. Grant	C-2. Listing of rigid sheathing positioned outside of tolerance. 1.13	No	6-19-74	7-5-74	7-26-74	L. R. Albert
113	6-11-74	M. P. Hendrick	C-50. Bulge in shop weld, liner plate S5-6-U-2, FIP C-111-22. 1.21	Field No	6-11-74	6-21-74	8-7-74	A. L. Bould
114	6-12-74	W. C. O'Neil	C-111. Repair in accordance with FCR-C-3/4 of Liner Plate Assy C-111-22, weld gap out of spec. 1.21	No	6-12-74	6-12-74	6-12-74	A. L. Bould
115	6-12-74	R. A. Moray	C-2. Documentation of trumpet tubes, MRR AEO-183 not received. 1.13	Field No	6-12-74 7-23-74	8-2-74	8-21-74	R. A. Moray
116	6-12-74	H. D. Foster	C-110. Recoat of Liner Plates out-of-Spec due to craters, pinholes. 1.24	Field No	6-12-74	6-14-74	11-6-75	H.D. Foster
117	6-14-74	L. R. Albert	C-210. Zone III Soils tests out-of Spec. Relative Densities.	No	6-21-74	7-17-74	7-19-74	L. R. Albert
118	6-18-74	L. Shively	C-231. Rebars bent out-of-Spec with relation to inside radius. 1.11	Field No	6-18-74	6-21-74	8-26-74	L SHIVELY
119	6-19-74	L. R. Albert	C-5. Nelson Studs moved from Receiving Area prior to release from Receipt Inspection. 1.45	No	6-21-74	6-27-74	7-5-74	L. R. Albert
120	6-20-74	C. F. Clark	C-111. Liner Plate S6-2-U-2, bulge in shop weld Elev. 708'-9" 1.21	Field No	6-20-74	6-21-74	7-29-74	A. L. Bould
121	6-20-74	C. F. Clark	C-111. Liner Plate S5-1-U-2, bulges in shop welds Elev. 708'-9" & 744'-6" 1.21	Field No	6-20-74	6-21-74	7-29-74	A. L. Bould
122	6-20-74	L. R. Albert	NOAM. Nelson Studs procured without reference to Suppliers Quality Assurance Program 1.45	No	6-21-74	6-28-74	7-3-74	L. R. Albert
123	6-21-74	M. P. Hendrick	C-111. Bulge in shop weld, liner plate assy S5-10-U-2, Elev. 7-8'-9". 1.21	Field No	6-21-74	6-24-74	7-15-74	A. I. Boulden

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11-4-75
7-1-75 8-6-75 9-3-75
2-3-75, 3-5-75, 4-1-75, 5-2-75
12. REPORT DATE 10-29-74 11-27-74
PAGE COMPL. 11-5-75
O.C. ENG. SIGN *J. Miller*

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	
196	10-11-74	L. Johnson	C-231. #8 Aux. Bldg Rebars bent improp-erly, Elev. 584'	Field	No	10-30-74			
197	10-11-74	W. O'Neil	C-111. Shop weld bulged and broken on Liner Plate	Field	No	10-11-74	11-19-74		L. Johnson
198	10-14-74	P. Carpenter	C-211. Missing test for structural Backfill	Field	No	10-11-74	10-28-74		A. L. Boul
199	10-16-74	L. Johnson	C-231. #8 Aux. Bldg Rebars bent improp-erly	Field	No	10-29-74	2-7-75	2-13-75	L.R. Albert
200	10-16-74	E. Manning	M-115. N-Stamp not permanently fixed to spool 2-GCB-009-S613-3 ASME 4.134	Field	No	10-16-74	12-11-74		L. Johnson
201	10-16-74	E. Manning	M-115. N-Stamp not permanently fixed to spool 2-GCB-002-S613-3 ASME 4.134	Field	No	10-16-74	1-28-74		J.F. Gibson
202	10-16-74	R. A. Moray	M-115. Documentation problem for 900 EL on spool 2-GCB-015-S613-3 ASME 4.134	Field	No	10-16-74	10-23-74		E. Manning
203	10-16-74	H. D. Foster	M-115. Bends buckled and N-Stamp loose 2-GCB-016-S613-5B, 2-GCB-013-S613-2. 4.134	M.S.	No	10-16-74	10-31-74		R. A. Moray
204	10-17-74	R. A. Moray	M-1. B&W Documentation for received for B-67-2012-50-1 ASME 4.028	Field	No	11-1-74	1-9-75	1-28-75	H.D. Foster
205	10-21-74	L. R. Albert	C-232. Failure in Waterstop Adhesive	B & W	No	10-18-74	10-23-74		R. C. Boothe
206	10-23-74	R.A. Moray	M-104A. Missing G-321D Form from Ven. #t# HA-7540	Field	No	10-23-74	12-13-74		L. R. Alber
207	10-23-74	H. Mailley	C-39. #8 Rebar broke when cold bending.	Field	No	10-24-74	11-5-74		R.A. Moray
				Field	No	10-24-74	11-5-75		R. A Moray

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12. 9-3-75 10-7-75
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1. PROJECT NO. 7220

VCR 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		
256	12-19-74	A. Boos	C-231. Aux Bldg Rebar improperly cut during bending 1.203	Field	12-19-74	No	12-19-74	1-14-75	L. Shively	
257	12-19-74	R.A.Moray	MFMC-1. Improper Mill Test Report on E.6010 Weld Rod Varies 1.203	Field	12-19-74	No	1-7-75	1-14-75	1-15-75	R.A.Moray
258	12-23-74	J. Aldridge	C-38. Beam 219B1C Fabricated from 30 X 210 matl, not 30 X 190 1.201	Field	12-31-74	No	1-14-75	3-12-75	L. R. Albert	
259	12-23-74	J. Aldridge	M-115. Spools not marked per Spec M-201 Documents not Shop Inspected ASME 4.124	Field	12-24-74	No	1-3-75	1-28-75	4-18-75	R. A. Moray
260	12-24-74	A. Boos	C-231. Rebars omitted from Aux Bldg Walls 1.203	Field	12-24-74	No	12-31-74	1-15-75	11-3-75	D. L. Osborn
261	12-30-74	R. A. Moray	M-104A. Marking and G-321D Forms, Pipe size ASME 4.104 +	MS	12-31-74	No	1-7-75	4-18-75	R. A. Moray	
262	1-8-75	R.C.Boothe	M-1. Humidity indicator on Steam Gen. 69-E1-2012-55-12 ASME 4.021	B&W	1-8-75	No	3-5-75	4-18-75	R. L. Bowren	
263	1-9-75	R.A.Moray	M-104A. Pipe marking, not released, no X-Ray Films ASME 4.111, 4.134. +	MS	1-13-75	No	1-20-75	4-18-75	R. A. Moray	
264	1-9-75	J. Aldridge	M-1. Protective coating on Steam Gen. 2SG1B ASME 4.021	B&W	1-13-75	NO	3-6-75	9-22-75	R.A.Moray	
265	1-10-75	J.C.Aldridge	C-233A. Drawings not available, wrong FMR Number 1.101	FIELD/M.S.	1-10-75	No	1-14-75	1-21-75	R.A.Moray	
266	1-14-75	C.F.Clark	C-111. Liner Plate damage due to fire 1.109	Field	1-14-75	No	1-14-75	1-28-75	1-31-75	L.R.Albert
267	1-15-75	R.A.Moray	MFMC-1. E-6010 weld rod certification 1.109	Field	1-15-75	No	1-22-75	3-6-75	3-12-75	R.A.Moray

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12. REPORT DATE 11-4-75 12-4-75
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1. PROJECT NO. 7220

2. 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	
316	6-30-75	L. R. Albert	C-211. Structural Backfill Mat'l out of Gradation. 1.004	Field 5-30-75	7-9-75	TELETYPE 7-24-75	7-24-75	J.P. Connolly	
317	6-30-75	H. Shawl	C-38. Damaged Beam, Shipment C-26 1.201	Field 7-1-75	No	7-7-75	8-14-75	R.A. Moray	
318	7-10-75	R. A. Moray	M-204. Sandvik QA Manual not approved. ASME	Field 7-10-75	7-15-75	8-13-75	8-14-75	R.A. Moray	
319	7-17-75	R.A. Moray	C-38. Beams made from wrong size mat'l 1.201 C-29	Field 7-17-75	7-24-75	8-1-75	11-26-75	R.A. Moray	
320	3-1-75	R.A. Moray	M-115. Excess Mat'l not shop inspected. no G-321D. 4.134 ASME	Field 3-7-75	No	10-6-75			
321	8-4-75	L.R. Albert	C-239. Concrete Temperature C(622.25)a' 1.105	Field 8-1-75	9-11-75	11-14-75	11-17-75	L.R. Albert	
322	8-4-75	LR Albert	C-230. Concrete Air Content C(622.25)a' 1.105	Field 8-1-75	9-11-75	11-6-75	11-7-75	D. L. Osborn	
323	8-5-75	R.A. Moray	M-92. Storage F-1-193 RB Motor not rotated per schedule. 4.001	Field 3-6-75	No	8-28-75	9-12-75	R.A. Moray	
324	3-6-75	L. R. Albert	C-210. Plant Area Fill moisture below requirements. 1.002	Field 3-7-75	8-7-75	TELETYPE 8-11-75	8-11-75	L.R. Albert	
325	3-7-75	L. R. Albert	C-202. Concrete cylinders not cured per spec., temperature. 1.205	Field 3-7-75	9-11-75	11-14-75	11-14-75	L. R. Albert	
326	8-11-75	J.P. Connolly	C-231. Rebars @ Unit #2 Pipe Tunnel not bundled. 1.203	Field 8-12-75	8-26-75	TELETYPE 9-2-75	9-5-75	L.R. Albert	
327	8-14-75	R. A. Moray	C-38. Fabricated Beam lengths 1.201	Field 8-15-75	No	8-25-75			

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1. PROJECT NO. 7220

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				6. ROUTE	7. DATE XMTD	8. DATE RETD	9. DATE CLOSED	10. CLOSE
328	8-14-75	A. Boos	C-38. Shear Studs missing from column Pour A(614.5)b' 1.201	Field 8-14-75	8-15-75	9-30-75	10-1-75	L.R. AL
329	8-20-75	J.P. Connolly	C-230. Air and Slump tests, Pour A(613.25)a' 1.205	Field 8-21-75	9-11-75	11-14-75	11-14-75	L. R. AL
330	8-20-75	J.P. Connolly	C-230. Air test at end of pumpline Pour A(612.5)a' 1.205	Field 8-21-75	9-10-75	11-6-75	11-7-75	L. R. AL
331	8-21-75	L.R. Albert	C-230. FlyAsh content, Pour #8, A(611.75)a' 1.205	Field 8-21-75	9-11-75	11-14-75	11-14-75	L.R. AL
332	8-21-75	L.R. Albert	C-230. Air Test Results, Pour# A(612.75)a' 1.205	Field 8-22-75	9-10-75	11-6-75	11-7-75	D. L. O
333	8-29-75	L.R. Albert	C-230. Air Test results, Pour# A(613.25)c' 1.205	Field 8-29-75	9-11-75	11-6-75	11-7-75	L. R. A
334	9-3-75	L.R. Albert	C-230. Air Test results, Pour A(614)a' 1.205	Field 9-3-75	9-10-75	11-6-75	11-7-75	L. R. A
335	9-9-75	L.R. Albert	C-230. Air content, Pour #9, A(612.75)b' 1.205	Field 9-9-75	9-11-75	11-6-75	11-7-75	D. L. O
336	9-9-75	L.R. Albert	C-230. Slump test results, Pour A(612.75)b' 1.205	Field 9-9-75	9-11-75	11-6-75	11-7-75	D. L. O
337	9-19-75	R.A. Moray	C-233A. F-3043, FMR CA-2051. Documentation missing, AEO-953 1.202	Field 9-22-75	No	10-10-75	10-10-75	R.A. Mo
338	9-22-75	L. R. Albert	C-230. Cement used without acceptance test. 1.105, 1.205	Field 9-22-75	9-30-75	9-30-75	9-30-75	L.R. AL
339	9-22-75	L. R. Albert	C-230. Cement weight less than required Pour A(608.67)a' 1.205	Field 9-22-75	10-28-75	11-18-75	11-19-75	L.R. AL

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REPORT DATE 10-27-75, 11-4-75, 12-9-75
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1. PROJECT NO. 7220

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				ROUTE	7. DATE XMTD	8. DATE RETD	9. DATE CLOSED	10. CLOSED BY
340	9-29-75	R. A. Moray	M-104A. Rain Splashed dirt on receipt of LS 9030 & LS 9031 ASME 4.104	Field	no	10-6-75	10-27-75	H.D.Foster
341	10-2-75	A.L.Boulden	C-111. Discontinuity in liner Plate Unit #1 130 ^o 1.109	Field	10-6-75	10-28-75	11-11-75	A.L.Boulden
342	10-8-75	H.D.Foster	M-204. Cadweld splatter on 2CCB-72-1-1 Reactor Cavity Drain Line ASME 4.343	Field	No	10-29-75		
343	10-9-75	L.R.Albert	C-230. Concrete Mixing Water Ph higher than allowed. 1.105, 1.205	Field	10-13-75	DEX-10/14/75 10-28-75	10-29-75	L. R. Albert
344	10-14-75	R. A. Moray	M-92. Motor Data Sheets not received for KB Crane Motors 4.001	Field	No	11-7-75	11-12-75	R. A. Moray
345	10-20-75	L.R.Albert	C-211. Structural Backfill material failed Gradations. 1.002	Field	11-12-75			
346	10-20-75	L. R. Albert	C-230. Flyash content high, pour CC(670)a' 1.105	Field	10-29-75			
347	10-20-75	L. R. Albert	C-230. Slump too high at end of pumpline, pour A(613.25)a 1.205	Field	10-29-75	DEX 11-19-75 11-26-75	11-26-75	L.R.Albert
348	10-20-75	H. D. Foster	C-111. Liner Plate deep imperfections S2-8-U 1 /S1-14-U-1 1.109	Field	No	10-24-75	10-30-75	H. D. Foster
349	10-20-75	H. D. Foster	C-111. Liner Plate laminations plates S2-12-U1 /S1-15-U-1 1.109	Field	No	10-27-75	10-30-75	H. D. Foster
350	10-27-75	R. A.Moray	M-1. Damage upon receipt of B/1-2013-50-1 Reactor Coolant Pipe. ASME 4.018	B&W	NO	11-11-75		
351	10-29-75	R. A. Moray	B-1-R. Certification for Hilti Fasteners not received with shipment N/A	M.S.	No	11-3-75	11-26-75	R.A.Moray

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352	10-29-75	R. A. Moray	E-205. Circuit Breakers: Nameplates, damaged, Identification 3.101	Field	No	11-26-75			
353	11-4-75	H. D. Foster	C-111. Deep imperfections noted on C-111-14 during coating work 1.109	Field	No	11-5-75	11-18-75	H.D.Foster	
354	11-5-75	C. F. Clark	C-111. Dome liner plate broken, C-111-15 1.109	Field	No	11-6-75			
355	11-10-75	D. L. Osborn	C-230. Flyash below weight on one ticket, pour A(614)b 1.205	Field					
356	11-14-75	L.R.Albert	C-230. Air content, Pours A(599)j' & A(587)b' 1.205	Field					
357	11-17-75	R.A.Moray	F-1-193. M-92 Motors heaters disconnected 4.001	Field					
358	11-17-75	H. Boleen	M-117. Valve Tagging requirements violated ASME	Field	No	11-25-75			
359	11-24-75	E. Dutton	C-230. Air content high, Pour #A(619)a 1.205	Field					
360	11-25-75	R. Bennett	C-231. Curing temperature below 50°, 3 hrs, Pour #A(619)a 1.205	Field					
361	11-26-75	D.C.Thompson	E-42. Conduit spacing, Aux Bldg Slab Fuel Pool Slab 3.006	Field					
362	12-1-75	D.C.Thompson	E-42. Conduit size reduced, Aux Bldg slab. 3.006	Field		12-5-75			
363	12-1-75	L.R.Albert	C-230. Failing water user test. 1.105, 1.205	Field		12-1-75			

DEF 12/23/75 12-1-75 L.R. ALBERT

Form 1 Date: 6-24-74

NONCONFORMANCE REPORT

1. PAGE 1 of 14. REV. NO. OF 16. 17. 18. 102

2. DRAWING/PART NO. Spec. C-110	REV. 4	7. PROJECT NO. 7220	12. REPORTED BY H. D. Foster	DATE 5-27-74
3. ITEM DESCRIPTION Liner Plate S2-4-U-1, S1-1-U-2		8. ITEM LOCATION CONTAINMENT #2 left. Painting Area	13. VALIDATED BY J. K. Munnally	DATE 5-27-74
4. SERIAL NUMBER N/A		9. STARTUP SYSTEM NO. N/A	14. REPLACEMENT PART NO. N/A	REV.
5. PURCHASE ORDER NO. N/A		10. QC FIELD INSPECTION PLAN NO. C-110-1b Rev. 1	15. REPLACEMENT SERIAL NO. N/A	
6. CONTRACTOR/LOCATION Midland, Michigan BAGWELL CONTAINERS		11. ASME CODE ITEM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NC	16. REPLACEMENT SOURCE Subcontractor	
18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING		<input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR		

25. DISPOSITION CONCURRENCE	DATE
APPROVER	
INSPECTOR	
FIELD ENGINEER	7-9-74
PROJECT FIELD QC ENGINEER	6/22/74
AUTHORIZED INSPECTOR	7-4-74
CONF. ON SHEET # 7	

19. NONCONFORMING CONDITION: Final coat is insufficient in Mill thickness of coating. Final millage (Average 1.6) (See Attachments 1 & 2)

Spec. C-110 Rev. 4, Final coat millage requirement is 3 to 4 mils. + 10%.

NONCONFORMANCE NOTED DURING REGULAR INSPECTION.

One Tag Applied.

20. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

Field recommends that a second coat of Phenolene 305 be applied over the existing first coat to bring the mil thickness within specification tolerances. Processing may proceed up to the point of erection. COMT. CW SHIT #7 H.D.F. 10/30/74

22. ENGINEERING DISPOSITION

Accept coating as is for repair and recoat after erection. Final acceptance of coating to be after repair and recoat.

The above disposition applies only to nonconformance reported on Block 19, page 1. See sheet 3 for continuation and additional disposition.

21. FIELD DISPOSITION RESULTS:

EXISTING COATING REPAIR IN ACCORDANCE WITH FIELD DISPOSITION. PHENOLENE APPLIED (CARBOZINC 11) REF: SPEC C-110 REV. 4 H.D.F.

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

27. QC ACCEPTANCE

H. D. Foster 11-6-74

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

NONCONFORMANCE REPORT (CONT'D)

Block No. 19 Continued.

1. PAGE 2 OF 2

7 H. J. [unclear]
7-9-74

14. NCR NO. 102

Final recoating (Phenoline 305) of liner plate assembly's S1-1-U-2 and S2-4-U-1 was accomplished in accordance with Spec. C-110 Rev. 4 with the following exception.

A. Plate was mist coated 1 to 3 mils and allowed to cure a minimum of ten days and then a second coat was applied at 3 mils wet film thickness.

Note: 50% of the Liner Plate Assembly was painted with the plate assembly in the horiz. position and 25% of the plate assembly in the vertical position.

B. Horiz. Position.

1. Surface temperature of the steel was 84° F specification calls for a max. of 80° F.

Added information.

a. Paint Batch number 4B1890, Cat. Batch Number 4C1714.

b. Paint and catalyst were mixed for two minutes as per carboline representative instructions. The paint was strained through a 30 mesh screen.

c. 5 qts of thinner was used for a 5 gal. k.t.

d. Conventional air gun was used.

e. For dry film thickness see diagram on Page No. 4. Specification requirements for dry film thickness 3 mils to 4 mils + 10%.

C. Vertical Position.

1. Surface temperature of the steel was 97° F. Specification calls for a max. of 80° F.

Added information.

a. Paint Batch Number 4B1884, Cat. Batch Number 4C1714.

b. Paint and catalyst were mixed for two minutes as per carboline representative instructions. The paint was strained through a 30 mesh screen.

c. 5 qts. of thinner was used for a 5 gal. kit.

d. Conventional air gun was used.

e. For dry film thickness, see diagram on page 4. Specification requirements for dry film thickness 3 mils to 4 mils + 10%.

ORIGINATOR

Block 19 Continued.

When the mist coat was applied slight bubbling occurred. After the second coat was applied no new bubbling was observed and the finish appears smooth and even.

H. D. Foster 6-10-74
Marshall 6-10-74

Block 22, Continued

Engineering Disposition.

Use as is for the 75% of the panel which received final recoating

Justification:

Item B-1

Accept coating applied at 84° surface temperature of steel.

The surface temperature parameters have been changed to 95° in revision 5 of Specification C-110, based on recommendations of the coating manufacturer.

Item C-1

Accept coating applied at 97° surface temperature of steel.

According to the manufacturer a 2° difference in temperature from their recommended 95° will not impair the performance of the coating when applied in a vertical position as the problems encountered in rapid solvent evaporation are minimized when coating is applied to a vertical surface.

The remaining 25% of the plate which received intermediate coat only, shall be repaired and top coated per field repair procedure approved by project engineering.

W. C. ... 8/1/74
W. C. ... 8/1/74 Estimated implementation by 3-1-75
625 824 141328 11-21-75 11/75

BLOCK 22, AMENDED ENGINEERING DISPOSITION

Last sentence of last paragraph is changed as follows:

"shall be repaired and top coated per an approved repair procedure, as

required by Specification 7220-C-110, Section 9.3.2f."

W. C. ... 9/6/74
W. C. ... 9-6-74

ORIGINATOR

WIND BREAK →

6.6	6.5	9.5	9.0	7.8	5.0
5.0	5.5	8.0	HORIZONTAL TOTAL		5.6
5.5	3.6	9.5			9.0
5.5	4.2	7.8	8.2	6.2	5.0
4.3	4.4	11.0	9.0	5.5	6.0

NO FINAL COAT MIST ONLY			11.0	6.5	6.5		
			VERTICAL		9.0	4.7	4.6
					7.0	6.0	5.5
			11.0	7.5	6.0		
			10.0	5.9	7.0		
			11.0	5.8	7.0		

TOTAL THICKNESS MEASUREMENTS

FINAL COAT C-110-1

DATE 6-6-14

PAGE 7
6/11/14
4-9-14

6 JUN 14 10 11 AM '14

PLATE: C-110-1b
ATTACHMENT #2
 NCR 102
 PAGE 6 OF 7

WIND DIAPHRAM

3.5	5.0	4.0	4.0	4.0	5.1
6.0	6.0	7.0	6.0	4.5	5.0
4.0	4.5	4.0	4.5	4.0	6.5
5.5	3.0	4.5	4.0	3.0	4.0
					3.5

AVERAGE: 4.619 MILLS

4.619

- 2.909

1.630

checked wind diaphragm
 5/21/14

Block 20 (Continued)

Field disposition: Reject coating and recoat in accordance with Specification 7220-C-110, Rev. 6.

Richard A. DeLoe
10/27/75

Block 25 (Continued)

Disposition concurrence: Reject.

Project Field Engineer: *J C Salazar* 10-31-75

Project Field QC Engineer: *Mansell* 10-31-75

QC-613

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

10000-2

NONCONFORMANCE REPORT

1. PAGE 1 OF 4	2. NCR NO. 16
25. DISPOSITION CONCURRENCE	
REWORK	REJECT
REPAIR	USE AS IS
PROJECT FIELD ENGINEER <i>T.C. Valenzano</i> 6-14-74	
PROJECT ENGINEER <i>J.P. Connolly</i> 6-14-74	
PROJECT FIELD QC ENGINEER DATE	
AUTHORIZE INSPECTOR DATE	

2. DRAWING/ITEM NO. Spec, 7220-C-110	REV. 1	7. PROJECT NO. 7220	12. REPORTED BY <i>H.D. Foster</i>	DATE 6-12-74
3. ITEM DESCRIPTION Containment #2 Liner Plate Recoating	8. ITEM LOCATION Containment #2 Painting Area 11-12-74	9. STARTUP SYSTEM NO. N/A	13. INDICATED BY <i>J.P. Connolly</i>	DATE 6-12-74
4. SERIAL NUMBER N/A	10. QC FIELD INSPECTION PLAN NO. See Continuation sheet	11. ASME CODE ITEM YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	14. REPLACEMENT PART NO. N/A	REV.
5. PURCHASE ORDER NO. FSC-45	16. REPLACEMENT SERIAL NO. N/A	17. SOURCE Sub-Contractor		
6. CONTRACTOR/LOCATION Bagwell Coating, Midland, Michigan				

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

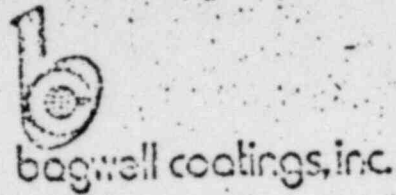
19. NONCONFORMING CONDITION:
 For recoating nonconformances of Liner Plate Assemblies refer to Continuation Sheet, Page 2.
 Ref: Sub-Contractor NCR No. 5084-1-RW Attachment one page 3.
 Sub-Contractor NCR No. 5234-1-RW Attachment two page 4.
 7 HOLD TAGS ATTACHED.
H.D. Foster 6/13/74

20. <input checked="" type="checkbox"/> FIELD DISPOSITION <input type="checkbox"/> FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING	21. FIELD DISPOSITION RESULTS:
Rework - Remove defective coatings and recoat in accordance with applicable specifications - Plates may be erected prior to rework - <i>R. Date 6/14/74</i> <i>B. Photo for T.C. Valenzano 6/14/74</i> <i>J.P. Connolly 6-14-74</i> <i>PRX</i> <i>Estimated implementation date by 3/1/77</i> <i>Way Z. Richardson for W. Holub 20AE 6/10/74</i> <i>R. Date 4/14/75</i>	THE FOLLOWING LINER PLATES HAVE BEEN RECOATED (PRIN: CON) HOLD TAG REMOVED. PAGE 2, ITEM #2, ITEM #16, ITEM #17, ITEM #18, ITEM #19, ITEM #20, ITEM #21, ITEM #22, ITEM #23, ITEM #24, ITEM #25, ITEM #26, ITEM #27, ITEM #28, ITEM #29, ITEM #30.
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 _____	<i>H.D. Foster</i> 7-1-6-74
SPEC. _____ REV. _____ ADD. _____		AUTHORIZED INSPECTOR _____ DATE _____

1. Liner Plate Assembly S2-6-U-1 & S1-5-U-1, (FIP C-110-2A Rev. 1) finish coating unsatisfactory due to craters & pin holes in the coating. Coating does not match Munsell Color Chip 5Y9/1. Ref: Spec. C-110 Rev. 4 Para. 5.5 and 9.3.2F. (Sub-Contractor's NCR No. 5234-1 RW).
2. Liner Plate Assembly S2-2-U-2 & S1-7-U-1, (FIP C-110-5 Rev. 1) Prime Coat, Carbozinc 11 is not acceptable. Prime coat can not be top coated in accordance with Spec. C-110 Rev. 4. (Sub-Contractors NCR No. 5084-1 RW).
3. Liner Plate Assembly S2-3-U-2 & S1-8-U-1, (FIP C-110-7 Rev. 1). Finish coating unsatisfactory due to craters & pin holes in the coating. Coating does not match Munsell Color Chip 5Y9/1. Ref: Spec. C-110 Rev. 4 Para. 5.5 & 9.3.2F. (Sub-Contractor's NCR 5084-1 RW).
4. Liner Plate Assembly S2-3-U-1 & S1-4-U-1 (FIP C-110-8 Rev. 1), finish coating unsatisfactory due to craters & pin holes in the coating. Coating does not match Munsell Color Chip 5Y9/1. Ref: Spec. C-110 Rev. 4 Para 5.5 & 9.3.2F (Sub-Contractors NCR 5084-1 RW).
5. Liner Plate Assembly S2-4-U-2 & S1-11-U-1 (FIP C-110-9 Rev. 1). Prime Coat, Carbozinc 11 is not acceptable. Prime coat can not be top coated in accordance with Spec. C-110 Rev. 1. (Sub-Contractors NCR 5084-1 RW).
6. Liner Plate Assembly S3-2-U-1 & S4-3-U-1 (FIP C-110-12 Rev. 1). Prime coat, carbozinc 11 is not acceptable. Prime coat can not be top coated in accordance with Spec. C-110 Rev. 4. (Sub-Contractors NCR 5084-1 RW).
7. Liner Plate Assembly S2-11-U-1 & S1-13-U-1 (FIP C-110-14 Rev. 1). Finish coating unsatisfactory due to craters & pin holes in the coating. Coating does not match Munsell Color Chip 5Y9/1. Ref: Spec. C-110 Rev. 4 Para 5.5 & 9.3.2F. (Sub-Contractors NCR No. 5234-1 RW).

H. P. Fort 4/13/74



BAGWELL COATINGS
JOB NO. 3232
MIDLAND NUCLEAR PLANT

TELEX 536-349 • P. O. BOX 52266 • EATON ROUGE, LA. 70805
PHONE (504) 937-9500

PR 116
3 of 4

NONCONFORMANCE REPORT

DATE May 8, 1974 REPORT & HOLD TAG NO. 5094-1RW

REPORTED BY Ron Williams

TITLE QC ENGINEER BATCH NO. _____

PLATE NO. C-111-1, C-111-5, C-111-7,
C-111-8, C-111-9, C-111-12

NONCONFORMANCE: Line plates listed above coated with CarboZinc II according to Carbolux's recommendations and in accordance with spec. 7220-C-110. Due to faulty CZ-11 these plates could not be properly top coated as per spec 7220-

CORRECTIVE ACTION RECOMMENDED (1) Apply 305 as per Carbolux alternate method # 3 (2 coats). or (2) reblast and reprime these 6 plates.

RECOMMENDED BY Ron Williams DATE 5/8/74

APPROVED BY _____ DATE _____

CORRECTIVE ACTION TAKEN _____

DATE _____

REFER TO DAILY COATING INSPECTION REPORT NO. _____

REMARKS: CZ-11 on site to be removed and replaced with new material by Carbolux

QC ENGINEER Ron Williams

bagwell coatings, inc.

BAGWELL COATINGS
JOB NO. 3232
INDLAND NUCLEAR PLANT

TELEX 586-248 • P. O. BOX 50268 • BATON ROUGE, LA. 70805
PHONE (504) 927-9500

12
116
P
4/14

NONCONFORMANCE REPORT

DATE MAY 23, 1974 REPORT & HOLD TAG NO. 5234-1 RW

REPORTED BY RON WILLIAMS

TITLE QUALITY CONTROL ENGINEER BATCH NO. N/A

PLATE NO. C-111-2 AND C-11-14

NONCONFORMANCE: THIS plate COATED WITH Phenolite 305 OVER CARBOZINC 11. APPLICATION WAS IN ACCORDANCE WITH SPECIFICATION 7220-C-110, CARBOLINE'S WRITTEN INSTRUCTIONS (ALTERNATE METHOD #2, AND APPROVED APPLICATION PROCEDURES. COATING UNSATISFACTORY DUE TO CRATERS AND PINHOLES IN THE COATING. COATING ALSO DOES NOT MATCH MUNSSEL COLOR CHIP 5Y9/1.

CORRECTIVE ACTION RECOMMENDED SEE ATTACHED

RECOMMENDED BY RON WILLIAMS DATE 5/23/74

APPROVED BY _____ DATE _____

CORRECTIVE ACTION TAKEN COPIES OF THIS NCR TRANSMITTED TO BECHTEL POWER CORP. FOR DISPOSITION

DATE MAY 23, 1974

REFER TO DAILY COATING INSPECTION REPORT NO. C-110-2 DATED 5/21/74

REMARKS: _____

[Handwritten signature]

NONCONFORMANCE REPORT

1. PAGE 1		NCR NO. 207	
OF 1			
25. DISPOSITION CONCURRENCE			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER		DATE	
<i>[Signature]</i>		10-31	
PROJECT ENGINEER		DATE	
<i>[Signature]</i>		10-31	
PROJECT FIELD QC ENGINEER		DATE	
<i>[Signature]</i>			
AUTHORIZE INSPECTOR		DATE	
<i>[Signature]</i>			

2. DRAWING NO. Spec. 7220-C-39		REV. 6	7. PROJECT NO. 7220	12. REPORTED BY H. Mailley	DATE 10/23/74
3. ITEM DESCRIPTION #8 Rebar		8. ITEM LOCATION Rebar Fab Shop		13. VALIDATED BY <i>[Signature]</i>	DATE 10-23-74
4. SERIAL NUMBER N/A		9. STARTUP SYSTEM NO. N/A		15. REPLACEMENT PART NO. N/A	REV.
5. PURCHASE ORDER NO. 7220-C-39		10. QC FIELD INSPECTION PLAN NO. N/A		16. REPLACEMENT SERIAL NO. N/A	
6. CONTRACTOR/LOCATION Inland Ryerson Constr. Products Co.			11. ASME CODE ITEM	17. SOURCE Supplier	
			<input type="checkbox"/> YES		
			<input checked="" type="checkbox"/> NC		
18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING <input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR					

19. NONCONFORMING CONDITION:
During the process of field fabrication of #8 Rebar from Heat #HA-7540, it was observed that bars are breaking during cold bending. (Specification 7220-C-39, 8.2 & 8.4)

2- QC HOLD TAGS APPLIED Q No. 1-103

20. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

Reject: 8 additional samples were sent to U. S. Testing for bend tests, 25% of these samples failed. Material has been segregated to prevent future use until material is removed from jobsite. MATERIAL WAS SEGREGATED ON 10/23/74

H. J. Mailley 10-30-74

21. FIELD DISPOSITION RESULTS:
30 tons of #8 Rebar Heat #HA 7540 removed from jobsite. See S/N No. 7220-1622

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

30 TONS #8 REBAR RETURNED TO VENDOR ON SHIPPER NO 7220-1622

REMARKS
11/5/75 *[Signature]*

27. ACCEPTANCE

[Signature] 11-5-74

QC ENGINEER

AUTHORIZED INSPECTOR

ORIGINATOR

RECEIVED

PALM 2

NONCONFORMANCE REPORT

2. DRAWING/PART NO. 7220-C-283/7220-C-284	REV. 2/1	7. PROJECT NO. 07220	12. REPORTED BY <i>Alan J. Boon</i>	DATE 12/23/74
3. ITEM DESCRIPTION Reinforcing Steel	8. ITEM LOCATION Aux. Bldg.	9. STARTUP SYSTEM NO. N/A	13. VALIDATED BY <i>J. Connolly</i>	DATE 12-24-74
4. SERIAL NUMBER N/A	10. QC FIELD INSPECTION PLAN NO. C-231-2-312, C-231-2-377 N/A C-231-2-403-302/1	11. ASME CODE ITEM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	14. REPLACEMENT PART NO. N/A	REV. N/A
5. PURCHASE ORDER NO. N/A	16. REPLACEMENT SERIAL NO. N/A	17. SOURCE N/A		

1. PAGE 1 OF 2	14. NCR NO. 260
25. DISPOSITION CONCURRENCE	
REWORK X	REJECT
REPAIR	USE AS IS
DOC.	
<i>Alan J. Boon</i>	1-16-75
PROJECT FIELD ENGINEER	DATE
<i>J. Connolly</i>	1-10-75
PROJECT ENGINEER	DATE
<i>J. Connolly</i>	1-16-75
PROJECT FIELD QC ENGINEER	DATE
AUTHORIZE INSPECTOR	DATE

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

19. NONCONFORMING CONDITION: Q No. 1.203

Referenced drawings show 16 additional #8 horizontal rebars in walls 27-32. The dowels in 5.6 and 7.4 walls which splice with these bars have been omitted. Referenced drawings show 12 additional #8 vertical rebars in walls 27-32. These bars have been omitted in wall 31 from elev. 574'-0" to 584'-0".

3 QC HOLD TAGS APPLIED

20. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

Rework as follows: Drill holes for the missing dowels, fill holes with non-shrink grout (Enbeco 636) and set the required bars. Lap splices and dowel embedment lengths shall be in accordance with Table 3 a and b on dwg. C-211, Rev. 4 with the following exception: for embedment length of the horizontal dowels, Table 3a will be used in lieu of the prescribed Table 3b i.e., treating the horizontal dowels as

21. FIELD DISPOSITION RESULTS:

22. ENGINEERING DISPOSITION (continued on sheet 2)

Engineering concurs with Field recommendation to drill holes for missing dowels and set dowels with non-shrink grout. Embedment length of horizontal dowels to be in accordance with Table 3a of drawing C-211. Embedment length of vertical dowels to be provided below El. 584'-0" for wall 31. We will issue a DCN to Drawing C-284 incorporating this change.

23. ENGINEERING DISPOSITION RESULTS:

Dowels grouted and documented on FIR C-231-2-534.
Alan J. Boon
11/3/75

24. IS DESIGN CHANGE REQUIRED NO YES, SEE ATTACHED:
DRAWING C-284 REV. 1 DCN 1
SPEC. _____ REV. _____ ADD. _____

26. REJECTED MATERIAL DISPOSITION RETURN TO SUPPLIER SCRAP
REMARKS

27. QC ACCEPTANCE
Alan J. Boon 11/3/75
QC ENGINEER DATE
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)

1. PAGE 2 OF 2

14. NCR NO. 26

BLOCK 20 continued: slab bottom layer bars. Expected implementation date: January 17, 1975. R. Reynolds

BECHTEL

NONCONFORMANCE REPORT

1. PAGE 1	2. OF 2	14. NCR NO. 319
25. DISPOSITION CONCURRENCE		
WORK	REJECT	REPAIR
USE AS IS	DOC.	
PROJECT FIELD ENGINEER <i>A. Moray</i>		DATE 11-25-75
PROJECT ENGINEER <i>A. Moray</i>		DATE 11-26-75
AUTHORIZE INSPECTOR		DATE

2. DRAWING/PART NO. Spec. C-38	REV. 6	7. PROJECT NO. 07220	11. REPORTED BY <i>A. Moray</i>	DATE 7/17/75
3. ITEM DESCRIPTION Aux. Bldg. Beams	420B4 ^E & 427B1 ^E	8. ITEM LOCATION Sasse Rd. Laydown	12. VALIDATED BY <i>A. Moray</i>	DATE 7-17-75
4. SERIAL NUMBER N/A		9. STARTUP SYSTEM NO. N/A	13. REPLACEMENT PART NO. N/A	REV.
5. PURCHASE ORDER NO. 7220-C-38-AC		10. QC FIELD INSPECTION PLAN NO. C-38-R-51 Rev. 0	14. REPLACEMENT SERIAL NO. N/A	
6. CONTRACTOR/LOCATION Ingalls Iron Works Co./Verona, Pa.		11. ASME CODE ITEM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	15. SOURCE Vendor	

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

19. NONCONFORMING CONDITION: Aux. Bldg. Beams 420B4^E and 427B1^E as shown on approved Vendor Drawings 7220-C-38-222-2 and 7220-C-38-226-2 were to be fabricated from W30 X 99 lb. beams. Contrary to the above, beams were made from W30 X 108 lb. beams. "Q" No. is 1.201. Nonconformance noted during receipt inspection. Shipment No. C-29.

2 hold tags applied

20. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

Use "as is". Bechtel drawing 7220-228(Q), Rev. 1 specifies that beams 420B4^E and 427B1^E should be fabricated as W30x108. Recommend Project Engineering contact Ingalls Iron Works and obtain corrected copies of vendor dwgs. 7220-C-38-222, 7220-C-38-226, and 7220-C-38-197. The last drawing is an erection drawing.

A. Evans 7/24/75

21. FIELD DISPOSITION RESULTS:

Drawings 7220-C-38-222-3, 7220-C-38-226-3 and 7220-C-38-197-3 reflect subject beams to be W30 x 108.

A. Evans 11/26/75

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

A. Moray 11-26-75

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

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

QC-G3-2

REVISED BLOCK 20: Bechtel drawing 7220-228 (Q), Rev 1 specifies that beams 420B4E and 427B1E should be fabricated as W30 x 108, Obtain corrected copies of vendor drawings 7220-C-38-222-3, 7220-C-38-226-3, and 7220-C-38-19' which depict subject beams as W30 x 108 material.

Dev. J. Heiler 11-21-75
C. J. Heiler

RECEIVED

NONCONFORMANCE REPORT

PC-10

2. DRAWING/PART NO. Spec. 7220-C-230	REV. 5	7. PROJECT NO. 07220	12. REPORTED BY L. R. Albert	DATE 8/4/75
3. ITEM DESCRIPTION Concrete	8. ITEM LOCATION Cont. #1 Placement C(622.25)	9. STARTUP SYSTEM NO. N/A	13. VALIDATED BY <i>[Signature]</i>	DATE 8-4-75
4. SERIAL NUMBER N/A	10. QC FIELD INSPECTION PLAN NO. C-231-3-539	11. ASME CODE ITEM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	15. REPLACEMENT PART NO. N/A	REV.
5. PURCHASE ORDER NO. N/A	16. REPLACEMENT SERIAL NO. N/A	17. SOURCE Subcontractor	14. NCR NO. 321 25. DISPOSITION CONCURRENCE <input type="checkbox"/> REWORK <input type="checkbox"/> REJECT <input type="checkbox"/> REPAIR <input checked="" type="checkbox"/> USE AS IS <input type="checkbox"/> DO	
6. CONTRACTOR/LOCATION Champion, Inc.	18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING <input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR			

1. PAGE 1 OF 1	14. NCR NO. 321
25. DISPOSITION CONCURRENCE	
PROJECT FIELD ENGINEER <i>[Signature]</i>	DATE 11/14/75
PROJECT FIELD QC ENGINEER <i>[Signature]</i>	DATE 11-17-75
AUTHORIZED INSPECTOR	DATE

19. NONCONFORMING CONDITION: Spec. 7220-C-230 Rev. 5 requires in Section 11.2 that concrete placed in thick sections has maximum temperature of 75 degrees with the average temperature of the concrete tested being less than 70 degrees. Contrary to the above, a temperature taken at the end of the pumpline of concrete delivered on Ticket # 05715 was 78 degrees. Nonconformance noted during normal QC Surveillance. "Q" List No. is 1.105. *No Hold TAGS APPROVED*

20. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

Field recommends "use as is"
Total quantity of concrete in placement was 507 c.y. A placing temperature of 78°F will not have a significant affect on the maximum heat of hydration temperature nor an adverse affect on the subsequent compressive strength.

21. FIELD DISPOSITION RESULTS:

22. ENGINEERING DISPOSITION

The higher placement temperature will tend to increase shrinkage, setting rate, and water demand while reducing slump, durability and strength. A 3°F temperature difference will have an insignificant effect on any of these factors. Engineering concurs with Field recommendation to "use as is."

Richard Dote 9/11/75
[Signature] 11-11-75
[Signature] 11-11-75

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] 11/17/75

QC ENGINEER

AUTHORIZED INSPECTOR

DATE

10098-1

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- Goldenrod Copy - QC

QC-G3

BECHTEL

PALMER

NONCONFORMANCE REPORT

1. PAGE 1 OF 1	14. NCI NO. 322
25. DISPOSITION CONCURRENCE	
APPROVE	DATE
PROJECT FIELD ENGINEER	11-6-75
PROJECT ENGINEER	11-4-75
PROJECT FIELD QC ENGINEER	11-2-75
AUTHORIZED INSPECTOR	DATE

2. DRAWING/PART NO. Spec. 7220-C-230	REV. 5	7. PROJECT NO. 07220	12. REPORTED BY L. R. Albert	DATE 8/4/75
3. ITEM DESCRIPTION Concrete	8. ITEM LOCATION Cont. #1 Placement C(622.25)a		13. VALIDATED BY <i>M. Connolly</i>	DATE 8-4-75
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-231-3-539		16. REPLACEMENT SERIAL NO. N/A	
6. CONTRACTOR/LOCATION Champion, Inc.	11. ASME CODE ITEM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		17. SOURCE Subcontractor	
18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING <input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR				

19. NONCONFORMING CONDITION: Section 9.1.5 of Spec. 7220-C-230 Rev. 5 states in part that, "The total air content of the concrete, as measured at the point of placement, shall be not less than three percent nor more than six percent the concrete by volume". Contrary to the above, an air test representing concrete delivered on Ticket # 05691, taken at the end of the pumpline on Placement C(622.25)a' indicated an air content of 2.6% Nonconformance noted during normal QC Surveillance. "Q" List No. is 1.105. *No Hold Tags Applied*

20. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

Field recommends "use as is". Total quantity in placement was 507 c.y. Placement involved is an exterior wall below grade and as such will not be adversely affected by 8 c.y. of concrete having an air content of 2.6%. *Richard White 9/11/75*

21. FIELD DISPOSITION RESULTS:

23. ENGINEERING DISPOSITION RESULTS:

22. ENGINEERING DISPOSITION

Engineering concurs with Field recommendation to "use as is" because:

- 1) Durability of the subject concrete will not be affected since its location prevents alternate freeze-thaw cycles,
- 2) Concrete strength will not decrease with a lower air content.

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

Richard White

QC ENGINEER

11/7/75

DATE

AUTHORIZED INSPECTOR

DATE

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NONCONFORMANCE REP

1. PAGE 1 OF 1
 14. NCR NO. 325
 25. DISPOSITION CONCURRENCE

REWORK	REPAIR	USE AS IS

PROJECT FIELD ENGINEER: *[Signature]* 11/14/75
 PROJECT FIELD QC ENGINEER: *[Signature]* 11-14-75
 AUTHORIZED INSPECTOR: *[Signature]*

2. DRAWING PART NO. Spec. 7220-C-208	REV. 4	7. PROJECT NO. 7220	12. REPORTED BY L. R. Albert	DATE 8/7/75
3. ITEM DESCRIPTION Compressive Strength Cylinders		8. ITEM LOCATION Testing Lab	13. VALIDATED BY <i>[Signature]</i>	
4. SERIAL NUMBER Set No. 581		9. STARTUP SYSTEM NO. NA	14. REPLACEMENT PART NO. NA	
5. PURCHASE ORDER NO. NA		10. QC FIELD INSPECTION PLAN NO. C-208-1-94, Rev. 0	15. REPLACEMENT SERIAL NO. NA	
6. CONTRACTOR/LOCATION U. S. Testing Co., Midland		11. ASME CODE ITEM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	16. REPLACEMENT SOURCE Subcontractor	
18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING <input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR				

19. NONCONFORMING CONDITION:
 Spec. 7220-C-208, Rev. 4 in Section 7.3.2, requires that compressive strength cylinders be maintained at a temperature of 60° to 80° prior to stripping. Contrary to the above U. S. Testing Report No. UST AV 13@7 indicates that Cylinder Set No. 581 molded @ 1500 hrs. on 7/29/75, was initially cured at temperatures ranging from 70° to 84°. Non-Conformance noted during QC review of test reports. 'Q' List No. 1.205. *No field tests performed*

20. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

Field recommends "use as is". Compressive strength cylinders in set. no. 581 averaged 4370 psi @ 28 days. Strength gain between 28 and 90 days is averaging 28% - 30%. Application of this average strength gain to 4370 psi results in a 90 day strength within the range of 5594 psi to 5681 psi.

Richard Dote 9/11/75

21. FIELD DISPOSITION RESULTS:

22. ENGINEERING DISPOSITION

A curing temperature of 84°F maximum in lieu of the 80°F maximum allowable will lower the class D-2 test cylinder strength an insignificant amount. The 90 day strength on Cylinder Set No. 581 show a compressive strength average of 5730 psi. Engineering concurs with Field recommendation to "use as is."

[Signature] 11-11-75

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: *[Signature]* 11/12/75
 AUTHORIZED INSPECTOR: _____ DATE _____

SECRET

NONCONFORMANCE REPORT

Page 2

2. DRAWING/PART NO. Spec. C-230	REV. 5	7. PROJECT NO. 07220	12. REPORTED BY J. M. Connolly	DATE 8/19/75
3. ITEM DESCRIPTION Concrete		8. ITEM LOCATION Aux. Bldg. A(613.25) a' Bldg #4	13. VALIDATED BY J. M. Connolly	DATE 8-20-75
4. SERIAL NUMBER N/A		9. STARTUP SYSTEM NO. N/A	14. REPLACEMENT PART NO. N/A	REV.
5. PURCHASE ORDER NO. C-230		10. QC FIELD INSPECTION PLAN NO.	15. REPLACEMENT SERIAL NO. N/A	
6. CONTRACTOR/LOCATION Champion, Inc.		11. AGEN CODE YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	17. SOURCE Subcontractor	
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. 329		
25. DISPOSITION CONCURRENCE			
REWORK	REJECT	REPAIR	USE AS IS
PROJECT FIELD ENGINEER J. M. Connolly		DATE 11/14	
PROJECT ENGINEER J. M. Connolly		DATE 11/14	
SUBJECT FIELD QC ENGINEER J. M. Connolly		DATE 11-14	
AUTHORIZED INSPECTOR		DATE	

19. NONCONFORMING CONDITION:
1. Specification C-230 Section 9.1.5 requires concrete to have 3 percent to 6 percent entrained air content. Contrary to the above 8 cubic yards of concrete Ticket No. 05798 was placed with an air content of 2.3 percent as measured at the end of the concrete pumpline.
 2. Specification C-230 Table 9.1 states that Class E-2 concrete has a slump rejection limit of 4 1/2 inches. Contrary to the above, 8 cubic yards of concrete Ticket No. 05799 was placed with a slump of 5 1/2".

20. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

Field recommends "use as is". Total quantity in placement was 234 c.y. 1) Concrete placement involved is an interior wall and will not be adversely affected by 8 c.y. having an air content of 2.3%. 2) Although the drawings specify a D class mix, the concrete was upgraded to an E class mix to facilitate placement. Therefore, the 5" slump will not lower the concrete strength below the required fc' of 5000 psi.

21. FIELD DISPOSITION RESULTS

11/14
11/10/75

22. ENGINEERING DISPOSITION

1) Durability of the subject concrete will not be effected by a lower air content since its location prevents alternate freeze-thaw cycles. 2) High slump will tend to increase shrinkage while reducing durability and strength. However, 8 c.y. of 5-1/4" slump concrete in a 234 c.y. pour will not have an appreciable effect on any of these factors. Previous results from tests on E-2 concrete with a 5-1/2" slump

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 11/14

AUTHORIZED INSPECTOR _____ DATE

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NONCONFORMANCE REPORT (CONT'D)

Block No. 19 Continued.

The concrete was placed while the test was being run.

Nonconformance noted during QC Placement Inspection. "Q" No. is I.205.

Block No. 22 Continued

show 90 day compressive strength average of 6975 psi. Based on the above, Engineering concurs with Field recommendation to "use as is."

John R. Stahl 11-11-75
W. H. [unclear] 11-11-75

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330

NONCONFORMANCE REPORT

1. DRAWING/PART NO. Spec. C-230		2. REV. 5	7. PROJECT NO. 07220	1. REPORTED BY J. W. Connolly	DATE 8/19/75	14. PAGE 1 OF 2	14. NCR NO. 330
3. ITEM DESCRIPTION Concrete		8. ITEM LOCATION Aux. Bldg. A(612.5)a' Pour #14		1. VALIDATED BY J. W. Connolly	DATE 8/20-75	25. DISPOSITION CONCURRENCE	
4. SERIAL NUMBER N/A		9. STARTUP SYSTEM NO. N/A		1. REPLACEMENT PART NO. N/A	REV.	PROJECT FIELD ENGINEER B. G. ... 11-6-75	
5. PURCHASE ORDER NO. C-230		10. QC FIELD INSPECTION PLAN NO. C-231-3-561		11. REPLACEMENT SERIAL NO. N/A	PROJECT FIELD ENGINEER J. W. Connolly 11-24-75		
6. CONTRACTOR/LOCATION Champion Inc.		11. ASME CODE ITEM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		17. SOURCE Subcontractor		PROJECT FIELD QC ENGINEER 11-7-75	
18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING <input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR							

19. NONCONFORMING CONDITION: Specification C-230 Sect. 9.1.5 requires concrete to have from 3 percent to 6 percent entrained air at the point of placement.

Contrary to the above, the following concrete was placed with air contents below 3 percent as measured at the end of the concrete pumpline:

Continued on page 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". Total quantity in placement was 136 c.y. Concrete placement involved is an exterior wall below final grade and as such will not be adversely affected by 40 c.y. having air contents ranging between 2.6% and 2.9%.		
Richard Darte 9/10/75		

22. ENGINEERING DISPOSITION	23. ENGINEERING DISPOSITION RESULTS:
Engineering concurs with Field recommendation to "use as is" because:	
1) Durability of the subject concrete will not be affected since its location prevents alternate freeze-thaw cycles,	
2) Concrete strength will not decrease with a lower air content.	

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 G. ... 11/7/75
DRAWING _____ REV. _____ DCN _____	REMARKS _____	QC ENGINEER _____ DATE _____
SPEC. _____ REV. _____ ADD. _____		AUTHORIZED INSPECTOR _____ DATE _____

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NONCONFORMANCE REPORT (CONT'D)

Block No. 19 continued.

Ticket No.	Cu. Yds.	% Air Ent.
05742	8	2.8
05743	8	2.6
05746	8	2.9
05754	8	2.9
05758	8	2.9
		2.8

Nonconformance noted during QC Placement Inspection. "Q" No. is 1.205.

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NONCONFORMANCE REPORT

14. NCR NO. 331										
25. DISPOSITION CONCURRENCE										
<table border="1"> <tr> <th>REWORK</th> <th>REJECT</th> <th>REPAIR</th> <th>USE AS IS</th> <th>DOC.</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	REWORK	REJECT	REPAIR	USE AS IS	DOC.					
REWORK	REJECT	REPAIR	USE AS IS	DOC.						
PROJECT FIELD ENGINEER <i>[Signature]</i> DATE 11/14/75										
PROJECT ENGINEER <i>[Signature]</i> DATE 11-14-75										
PROJECT FIELD QC ENGINEER <i>[Signature]</i> DATE										
AUTHORIZED INSPECTOR DATE										

2. DRAWING/PART NO. Spec. C-230	REV. 5	7. PROJECT NO. 07220	12. REPORTED BY <i>[Signature]</i>	DATE 11/14/75
3. ITEM DESCRIPTION Concrete	8. ITEM LOCATION Aux. Bldg. Pour # A(611.75)a'	9. STARTUP SYSTEM NO. N/A	13. VALIDATED BY <i>[Signature]</i>	DATE 11-14-75
4. SERIAL NUMBER N/A	10. QC FIELD INSPECTION PLAN NO. C-208-1-94	11. ASME CODE ITEM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	15. REPLACEMENT PART NO. N/A	REV.
5. PURCHASE ORDER NO. N/A	6. CONTRACTOR/LOCATION US Testing Lab. Midland, Michigan	16. REPLACEMENT SERIAL NO. N/A	17. SOURCE Subcontractor	
18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING <input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR				

19. NONCONFORMING CONDITION: ASTM C-94-72 Section 6.4 states in part that the accuracy of weighing powdered admixtures shall be within + 3 percent of the required weight. The design weight of fly ash for concrete mix design D-2 is 672 lbs. per 8 cu. yds. batch. On 7/29/75 Batch Tickets #5655 and Batch Ticket #5658 indicated deficiencies in these weights as follows: Ticket #5655 650 lbs. or 3.3% low and Ticket #5658 648 lbs. or 3.6% low. Concrete represented by these tickets was placed in Aux. Bldg. Pour # A(611.75)a'. Nonconformance noted during review of batch tickets. "Q" List No. 1.205.

20. FIELD DISPOSITION
 FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

Field recommends "use as is". Ticket #5655 and #5658 were 2 lbs. and 4 lbs. respectively, below minimum tolerance on flyash per cubic yard. The moving average of 90-day strengths on D-2 concrete is presently 6065 psi. The amount of flyash involved will not reduce compressive strength below the required 5000 psi.

Richard D. [Signature] 9/14/75

21. FIELD DISPOSITION RESULTS:

22. ENGINEERING DISPOSITION

For pour #A(611.75)a', a D-2 design mix containing 650 or 648 lb. of flyash (vs. 672 lb. required) will have an insignificant impact upon affected properties. Based on the moving average of 90 day strengths which are 21% above required compressive strengths and the small deviation reported, Engineering concurs with Field recommendation to "use as is."

Richard D. [Signature] 11-11-75

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] 11/14/75

QC ENGINEER DATE

AUTHORIZED INSPECTOR DATE

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 Goldenrod Copy - QC

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NONCONFORMANCE REPORT

1. PAGE 1 OF 1	14. NO. 332
25. DISPOSITION CONCURRENCE	
REWORK	REJECT
REPAIR	USE AS IS
QC	
PROJECT FIELD ENGINEER <i>B. M. Williams</i> 11-6-75 DATE	
PROJECT ENGINEER <i>G. Knoll</i> 10-29-75 DATE	
PROJECT FIELD QC ENGINEER <i>G. Knoll</i> 11-7-75 DATE	
AUTHORIZED INSPECTOR DATE	

2. DRAWING/PART NO. Spec. C-230	REV. 5	7. PROJECT NO. 07220	12. REPORTED BY <i>E. J. Albert</i>	DATE 8/21/75
3. ITEM DESCRIPTION Concrete	8. ITEM LOCATION Placement #A(612.75)a'		13. VALIDATED BY <i>G. Knoll</i>	DATE 8-21-75
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-231-3-546		16. REPLACEMENT SERIAL NO. N/A	
6. CONTRACTOR/LOCATION Champion, Inc., Midland, Michigan		11. ASME CODE ITEM <input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/> NO	17. SOURCE Subcontractor	

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

19. NONCONFORMING CONDITION: Section 9.1.5 of Spec. 7220-C-230 Rev. 5 states in part that the total air content of the concrete as measured at the point of placement shall be not less than 3 percent nor more than 6 percent of the concrete by volume. Contrary to the above air content measured at the end of the pump line on Tickets 05848 and 05849 was 2.9 percent and 2.8 percent respectively. This concrete was placed in Pour #A(612.75)a' "Q" List No. is 1.205. Nonconformance noted during routine QC Inspection. *ONE HOLD TAG APPLIED*

20. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

Field recommends "use as is". Total quantity in placement was 105 c.y. Concrete placement involved is an interior wall and as such will not be adversely affected by 16 c.y. having air contents of 2.9% and 2.8% respectively.

Michael Harte
9/10/75

21. FIELD DISPOSITION RESULTS:

23. ENGINEERING DISPOSITION RESULTS:

22. ENGINEERING DISPOSITION

Based on the cylinder strength date received by telecon on 10/29/75 from G. Knoll and lack of susceptibility to freeze-thaw cycles due to location, Engineering concurs with Field recommendation to "use as is."

G. Knoll 10-29-75
A. J. Swann 10-29-75

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. AUTHORITY *B. K. Carson* 11/2/75
DATE

AUTHORIZED INSPECTOR _____ DATE _____

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 Goldenrod Copy -- QC

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NONCONFORMANCE REPORT

2. DRAWING/PART NO. Spec. 7220-C-230	REV. 5	7. PROJECT NO. 07220	12. REPORTED BY G.R. Albert 9/29/75	DATE 9/29/75
3. ITEM DESCRIPTION Concrete	8. ITEM LOCATION Aux. Bldg. Placement A(613.25)		13. VALIDATED BY G. M. Mowley 11-29-75	DATE 11-29-75
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-231-3-555 Rev. 0		16. REPLACEMENT SERIAL NO. N/A	
6. CONTRACTOR/LOCATION Champion Inc., Midland, Michigan		11. ASME CODE ITEM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	17. SOURCE Subcontractor	

1. PAGE 1 OF 1	14. NCR NO. 333			
25. DISPOSITION CONCURRENCE				
REWORK	REJECT	REPAIR	USE AS IS	DOC
			<input checked="" type="checkbox"/>	
PROJECT FIELD ENGINEER G.R. Albert 11-6-75		DATE 11-6-75		
PROJECT ENGINEER G. M. Mowley 11-24-75		DATE 11-24-75		
PROJECT FIELD QC ENGINEER G. M. Mowley 11-7-75		DATE 11-7-75		
AUTHORIZED INSPECTOR		DATE		

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

19. NONCONFORMING CONDITION: Spec. 7220-C-208 Rev. 5 in Section 9.1.5 requires that the total air content of concrete as measured at the point of placement shall not be less than three percent nor more than six percent of the concrete by volume. Contrary to the above an air content of 2.4% was measured at the end of the pump line on concrete represented by Ticket #05977 placed in Aux. Bldg. wall, Pour A(613.25)c'. Nonconformance noted during routine QC Testing of Concrete. "Q" List No. 1.205. 1 HOLD TAG ATTACHED G.R. Albert 9/29/75

20. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

Field recommends "use as is". Total quantity in placement was 116 c.y. Placement involved is an interior wall and as such will not be adversely affected by 8 c.y. of concrete having an air content of 2.4%. Richard Harte 9/11/75

21. FIELD DISPOSITION RESULTS:

22. ENGINEERING DISPOSITION

Engineering concurs with Field recommendation to "use as is" because:

- 1) Durability of the subject concrete will not be affected since its location prevents alternate freeze-thaw cycles,
- 2) Concrete strength will not decrease with a lower air content.

Richard Harte 11-3-75

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

G.R. Albert 11/7/75

QC ENGINEER _____ DATE _____

AUTHORIZED INSPECTOR _____ DATE _____

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Primer

NONCONFORMANCE REPORT

2. DRAWING/PART NO. Spec. 7220-C-230		REV. 5	7. PROJECT NO. 07220	12. REPORTED BY <i>R. A. Abbott</i>	DATE 9/3/75	1. PAGE 1 OF 1	14. NCR NO. 334
3. ITEM DESCRIPTION Concrete		8. ITEM LOCATION Aux. Bldg. Placement A(614)a		13. VALIDATED BY <i>M. J. Murnally</i>	DATE 9-3-75	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. C-231-3-552 Rev. 0		16. REPLACEMENT SERIAL NO. N/A		REPAIR	USE AS IS
6. CONTRACTOR/LOCATION Champion Inc., Midland, Michigan		11. ASME CODE ITEM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		17. SOURCE Subcontractor		DDC	
18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING		<input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR		19. NONCONFORMING CONDITION: Spec. 7220-C-230 Rev. 5 in Section 9.1.5 requires that the total air content of concrete as measured at the point of placement shall not be less than 3% nor more than 6% of the concrete by volume. Contrary to the above an air content of 2.7% was measured at the end of the pumpline on concrete represented by Ticket No. 05826 placed in Aux. Bldg. wall Pour # A(614)a'. Nonconformance noted during routine testing of concrete. "Q" List No. 1.205.		20. <input type="checkbox"/> FIELD DISPOSITION <input checked="" type="checkbox"/> FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING	

PROJECT FIELD ENGINEER
R. A. Abbott 11-6-75
 PROJECT ENGINEER
M. J. Murnally 11-4-75
 PROJECT FIELD QC ENGINEER
M. J. Murnally 11-7-75
 AUTHORIZED INSPECTOR _____ DATE _____

One tag applied.

Field recommends "use as is". Total quantity in placement was 218 c.y. Concrete placement involved is an exterior wall below final grade and as such will not be adversely affected by 8 c.y. having an air content of 2.7%.

Richard Drote
9/10/75

Engineering concurs with Field recommendation to "use as is" because:

- 1) Durability of the subject concrete will not be affected since its location prevents alternate freeze-thaw cycles,
- 2) Concrete strength will not decrease with a lower air content.

L. J. [Signature]
11-3-75
A. J. [Signature] 11-3-75

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 <i>R. A. Abbott</i> 11/2/75 QC ENGINEER AUTHORIZED INSPECTOR _____ DATE _____
DRAWING _____ REV. _____ DCN _____	REMARKS _____	
SPEC. _____ REV. _____ ADD. _____		

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 Goldenrod Copy - QC

QC-G3-2

BECHTEL

Palmer

NONCONFORMANCE REPORT

1. PAGE 1 OF 1	14. NCR NO. 335
25. DISPOSITION CONCURRENCE	
REWORK	REJECT
REPAIR	USE AS IS
DOC.	
PROJECT FIELD ENGINEER <i>[Signature]</i> 11-6-75 DATE	
PROJECT ENGINEER <i>[Signature]</i> 10/30/75 DATE	
PROJECT FIELD QC ENGINEER <i>[Signature]</i> 11-7-75 DATE	
AUTHORIZED INSPECTOR DATE	

2. DRAWING/PART NO. Spec. C-230	REV. 5	7. PROJECT NO. 07220	12. REPORTED BY <i>[Signature]</i>	DATE 9/9/75
3. ITEM DESCRIPTION Concrete	8. ITEM LOCATION Aux. Bldg. Wall A(612.75)b'	13. DATED BY <i>[Signature]</i>	DATE 9-4-75	
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-231-3-567	16. REPLACEMENT SERIAL NO. N/A		
6. CONTRACTOR/LOCATION Champion Inc., Midland, Michigan	11. ASME CODE ITEM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	17. SOURCE Subcontractor		
18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING <input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR				

19. NONCONFORMING CONDITION:
Spec. 7220-C-230 Rev. 5 requires in part that the total air content of the concrete as measured at the point of placement shall be between three per cent and six percent of the concrete by volume. Contrary to the above, an air content of 2.5 per cent was measured at the end of the pump line on concrete represented by Ticket No. 06081 placed in Aux. Bldg. wall Pour No. A(612.75)b' on 9/5/75. Nonconformance noted during routine QC inspection. "Q" List No. 1.205.

One tag applied.

20. FIELD DISPOSITION FIELD RECOMMENDATION, ROUTE TO PROJECT ENGINEERING

Field recommends "use as is". Total quantity in placement was 101 c.y. Placement involved is an interior wall and as such will not be adversely affected by 8 c.y. of concrete having an air content of 2.5%.

Richard Dato
9/11/75

21. FIELD DISPOSITION RESULTS:

22. ENGINEERING DISPOSITION

Based on the cylinder strength data received by telecon on 10/29/75 from G. Knoll and lack of susceptibility to freeze-thaw cycles due to location, Engineering concurs with Field recommendation to "use as is."

[Signature] 10-29-75
[Signature] 10-29-75

23. ENGINEERING DISPOSITION RESULTS:

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

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

26. REJECTED MATERIAL DISPOSITION

RETURN TO SUPPLIER
 SCRAP

REMARKS

27. QC ACCEPTANCE

[Signature] 11/9/75
QC ENGINEER DATE

AUTHORIZED INSPECTOR _____ DATE _____

88-112

22 10-30-75

PAL MGC

NONCONFORMANCE REPORT

2. DRAWING/PART NO. Spec. C-230		REV. 5	7. PROJECT NO. 07220	11. REPORTED BY	DATE	1. PAGE 1 OF 2	14. NCR NO. 336
3. ITEM DESCRIPTION Concrete		8. ITEM LOCATION Aux. Bldg wall A(612.75)b'		12. VALIDATED BY <i>General</i>	DATE 7-9-75	25. DISPOSITION CONCURRENCE	
4. SERIAL NUMBER N/A		9. STARTUP STEM NO. N/A		13. REPLACEMENT PART NO. N/A	REV.	REWORK <input type="checkbox"/> REJECT <input type="checkbox"/> RETAIN <input type="checkbox"/> USE AS IS <input checked="" type="checkbox"/> DDG <input type="checkbox"/>	
5. PURCHASE ORDER NO. N/A		10. QC FIELD INSPECTION PLAN NO. C-231-3-567		14. REPLACEMENT SERIAL NO. N/A	PROJECT FIELD ENGINEER <i>[Signature]</i> DATE 11-6-75		
6. CONTRACTOR/LOCATION Champion Inc., Midland, Michigan			11. ASME CODE ITEM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	17. SOURCE Subcontractor		PROJECT FIELD QC ENGINEER <i>[Signature]</i> DATE 11-1-75	
18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING				<input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR			

19. NONCONFORMING CONDITION: Spec. 7220-C-230 Rev. 5 in Table 9.1 states in part that the rejection limit for slump of D-2 concrete mix is 4 1/2". Contrary to the above, a slump of 5 1/2" was measured at the end of the pumpline on D-2 concrete mix represented by Ticket No. 06092 placed in Aux. Bldg. wall Pour A(612.75)b' on 9/5/75. Nonconformance noted during routine QC testing of concrete. "Q" List No. 1.205.

One tag applied.

20. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

Field recommends "use as is". Total quantity of concrete in placement was 97 c.y. Due to the method of placement, i.e.; pump, the 8 c.y. of 5 1/2" slump was distributed over the entire surface area of the placement. Therefore the concrete in question will not adversely affect the overall compressive strength of the total placement.

Tracked Note 9/11/75

22. ENGINEERING DISPOSITION

Review of the attached table of data for pour A(612.75)b' gives reasonable proof that approximately 8 c.y. out of the 97 c.y. pour had a high slump value. One out of 4 slump tests at the point of placement and 1 out of 6 slump tests at the truck discharge were above specification requirements. The results of the 28 day compression tests for ticket number 6081 combined with previous compression test

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 <i>[Signature]</i> QC ENGINEER DATE 11/7/75
DRAWING _____ REV. _____ DCN _____	REMARKS _____	AUTHORIZED INSPECTOR _____ DATE _____
SPEC. _____ REV. _____ ADD. _____		

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

NONCONFORMANCE REPORT (CONT'D)

Block 22 - results of 5-1/2" slump, D-2 mix concrete indicate the concrete in question will meet the strength requirement at 90 days. Engineering concurs with field recommendation that the subject 8 c.y. of high slump concrete, which was uniformly distributed about the pour, will not have an appreciable effect on the overall concrete durability or strength and to "use as is."

TICKET NO.	SLUMP			AIR CONTENT		
	Batch Plant	Truck Discharge	Point of Placement:	Batch Plant	Truck Discharge	Point of Placement
6081	4-1/2	4	3-1/4	5.6	4.0	2.5
6082	- - -	3-1/2	- - -	- - -	- - -	3.0
6084	3	2	2	5.8	- - -	- - -
6088	3-1/2	2-1/2	2	- - -	- - -	- - -
6092	5	5,4	5-1/2	- - -	4.0	4.5
AVERAGE RANGE	4 3-5	3-1/2 2-5	3-1/4 2-5-1/2	5.7 5.6-5.8	4.0 4.0	3.3 2.4-4.5

Richard J. Miller 10-30-75
Richard J. Miller

REWRITE

AL452

NONCONFORMANCE REPORT

1. PAGE 1 OF 1		14. NCR NO. 339	
2. DRAWING/PART NO. Spec. C-230	REV. 5	7. PROJECT NO. 7220	12. REPORTED BY <i>[Signature]</i> DATE 9/3/75
3. ITEM DESCRIPTION Concrete	8. ITEM LOCATION Pour No. A(608.67)a'	13. VALIDATED BY <i>[Signature]</i> DATE 11-21-75	25. DISPOSITION CONCURRENCE
4. SERIAL NUMBER N/A	9. STARTUP SYSTEM NO. N/A	15. REPLACEMENT PART NO. N/A	REWORK <input type="checkbox"/> REJECT <input type="checkbox"/> REPAIR <input type="checkbox"/> USE AS IS <input checked="" type="checkbox"/> DOC. <input type="checkbox"/>
5. PURCHASE ORDER NO. N/A	10. QC FIELD INSPECTION PLAN NO. C-208-1-110	16. REPLACEMENT SERIAL NO. N/A	PROJECT FIELD ENGINEER <i>[Signature]</i> 11-18-75 DATE
6. CONTRACTOR/LOCATION Champion Inc., Midland, Michigan	11. ASME CODE ITEM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	17. SOURCE Subcontractor	PROJECT ENGINEER <i>[Signature]</i> 11-14-75 DATE
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> 11-17-75 DATE	
19. AUTHORIZED INSPECTOR <i>[Signature]</i> DATE			

19. NONCONFORMING CONDITION: Section 9.2.1 of Specification C-230 states that the measuring of all concrete shall conform to ASTM C-94-72. ASTM C-94-72 states in part for batches smaller than 30% of the full capacity of the scale, the quantity of cement shall not be less than the required amount. Contrary to the above, Batch Ticket No. 06043 representing the concrete in Pour # A(608.67)a' poured on September 3, 1975 shows the cement content below the specified batch weight. "Q" List No. 1.205. Nonconformance noted during QC review of batch tickets.

20. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

Field Recommends "use as is". Batch ticket identified in block 19 was for 1 c.y. of class B-1 grout, used in a duct bank placement, with a cement deficiency of 11 lbs. Grout has no ~~required~~ required design strength, however, the affect on a water cement ratio would be an ~~increase~~ increase of 0.0082. Work may proceed.

Richard Dote 10/28/75

22. ENGINEERING DISPOSITION

A lower cement content will tend to reduce shrinkage, strength and durability. The deviation from specified tolerances is approximately 1.5%. This difference will have no detrimental effect on any of these properties. Engineering recommends "use as is."

[Signature] 11-12-75

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 <i>[Signature]</i> 11/19/75 DATE
SPEC. _____ REV. _____ ADD. _____		AUTHORIZED INSPECTOR _____ DATE _____

10088-1

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 Goldenrod Copy - QC

QC-G3-2

BECAIR

KYLE N PALM

NONCONFORMANCE REPORT

1. PAGE 1 OF 13	14. NCR NO. 341			
25. DISPOSITION CONCURRENCE				
REWORK	REJECT	REPAIR	USE AS IS	DDC
		<input checked="" type="checkbox"/>		
PROJECT FIELD ENGINEER		DATE		
<i>[Signature]</i>		10-29-75		
PROJECT ENGINEER		DATE		
<i>[Signature]</i>		10-22-75		
PROJECT FIELD QC ENGINEER		DATE		
<i>[Signature]</i>		10-29-75		
AUTHORIZER INSPECTOR		DATE		

2. DRAWING/PART NO. Spec. C-111	REV. 9	7. PROJECT NO. 07220	11. ASME CODE ITEM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	11. REPORTED BY <i>[Signature]</i>	DATE 10-2-75
3. ITEM DESCRIPTION 1/4" Cont. Liner Plate	8. ITEM LOCATION Unit #1 Cont.	9. STARTUP SYSTEM NO. N/A	12. VALIDATED BY <i>[Signature]</i>	DATE 10-2-75	
4. SERIAL NUMBER C-111-48 S3-1-U2	10. QC FIELD INSPECTION PLAN NO. C-111-97a	15. REPLACEMENT PART NO. N/A	16. REPLACEMENT SERIAL NO. N/A	17. SOURCE Vendor	
5. PURCHASE ORDER NO. C-50-A					
6. CONTRACTOR/LOCATION Southern Boiler, Memphis, Tenn.					
18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING <input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR					

19. NONCONFORMING CONDITION: Through thickness leak detected in 1/4" liner plate during air pressure test of 130° Azimuth vertical seam weld leak chase at elevation 633'3". Further investigation by NDE revealed a linear discontinuity in the plate on a horizontal plane approximately 5" long to the left from 130° Azimuth seam weld. "Q" No. 1.109.

20. FIELD DISPOSITION	FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING
<i>10-6-75</i>	<input checked="" type="checkbox"/> 10-6-75 <i>OK</i>
Welding recommends five inch area be excavated as shown on attached sketch and insert a tapered backup as shown. Excavate area on existing vert. weld for 100% tie in to beam and liner plate. On opposite end of tapered backup should be 1/4" fillet welded for 100%. Excavation should be welded first pass with E6010 and remaining with #E7018. Five inches of existing leak chase on vert. 130° should be removed for this.	

1 tag applied.

22. ENGINEERING DISPOSITION
Project Engineering concurs with the Field Recommendation to repair the leak in the 1/4" liner plate, as follows:

- Excavate the area to be repaired.
- Deform the beam flange to bring it in contact with the liner plate.
- Portion of repair extending beyond beam will have a backup plate attached

21. FIELD DISPOSITION RESULTS:
23. ENGINEERING DISPOSITION RESULTS:
<i>Work completed and accepted as per disposition of project engineering in block 22. Work signed by [Signature] 11-11-75</i>

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

27. QC ACCEPTANCE	DATE
<i>[Signature]</i>	11-11-75
AUTHORIZED INSPECTOR	DATE

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

BLOCK 20-- Excavate affected five (5) inch area and tie-in area (vertical) in accordance with Appendix B Specification C-111, Rev. 9 (see diagram). Repair weld shall be made in accordance with repair procedure P1-AC-LH utilizing tapered back-up with $\frac{1}{4}$ " fillet weld for 100% penetration (see attached diagram). Follow with NDE procedures MT-Y-1, 2, Rev. 1 and LT-VB-1, 2 for integrity of repair area.

J. Hicks 10-1-75

BLOCK 20-- Cont.--Alternate method: Press liner plate to beam and utilize beam as backup. (Measurements indicate specification tolerance for distortion will be maintained). Portion of repair and excavation extending beyond beam will have a backup plate attached to the beam edge. Repair weld procedure will be P1-AC-LH utilizing backup as stated with $\frac{1}{4}$ " fillet weld for 100% penetration. Follow with NDE procedures as stated above. All welds will be full penetration.

J. Hicks 10-14-75

BLOCK 22-- 3. Cont. - to the beam edge with a full penetration butt weld.

4. Repair the excavated area by full penetration butt weld, followed by NDE in accordance with Specification C-111.
5. Add leak chase channel over the repaired area.
6. Show the location of repair and new leak chase channel on the as-built drawings.

R. L. Brydson 10-22-75

M. E. 10/22/75

J. L. 10-22-75

W. J. 10-22-75

DESIGN BY S. Hicks

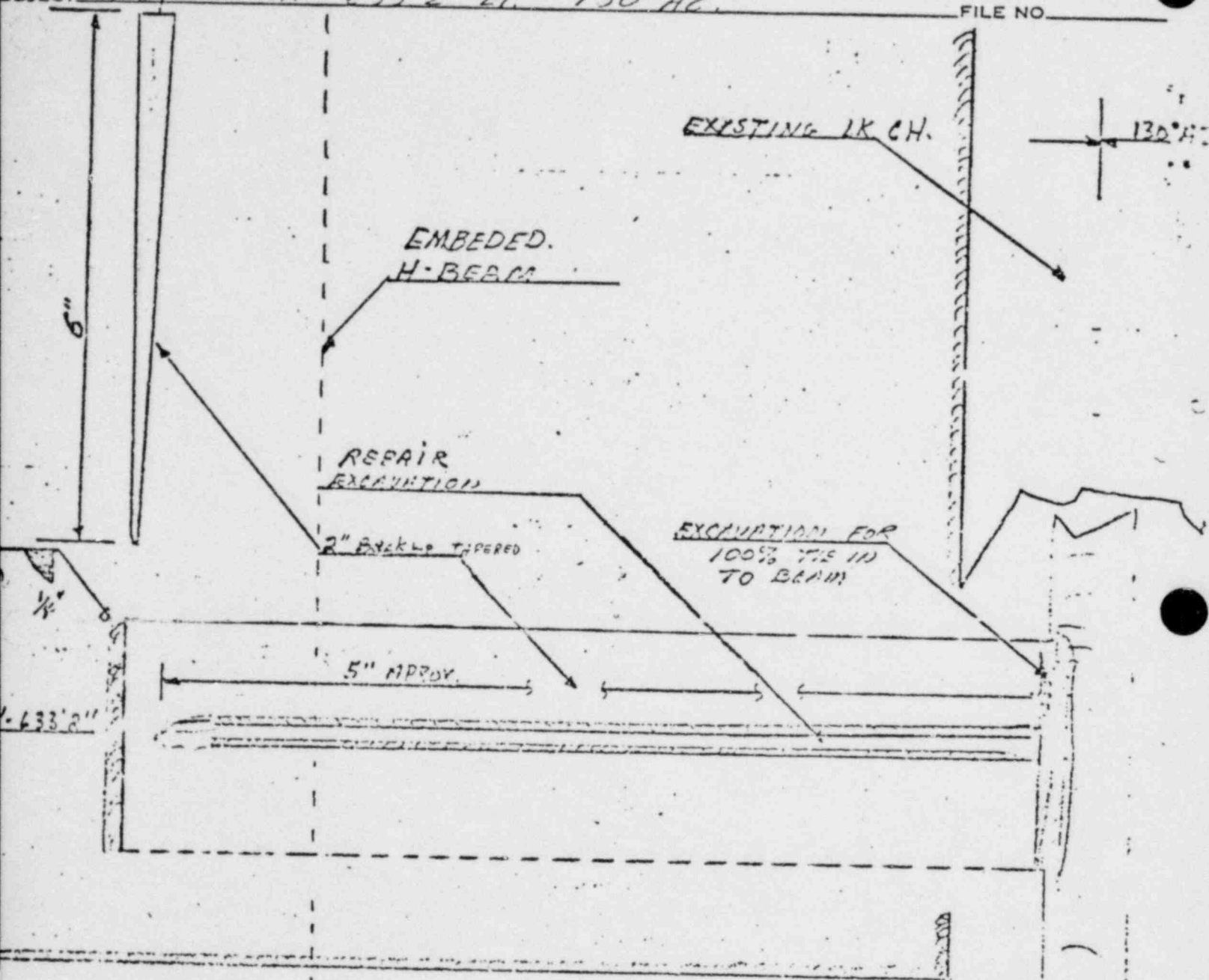
DATE 10-3-75 CHECKED BY _____

DATE _____

SHEET NO _____

PROJECT _____ JOB NO _____

SUBJECT Repair At 633'2" EL. 130° AZ. FILE NO _____



EL. 633'0"

EXISTING
2x12

11-2-75
NDR 391

RECEIVED

Page 2

NONCONFORMANCE REPORT

2. DRAWING/PART NO. Spec. 7220-M-92		REV. 5	7. PROJECT NO. 7220	1. REPORTED BY <i>[Signature]</i>	DATE 10-13-75	13. PAGE 1 OF 2	14. NCR NO. 344
3. ITEM DESCRIPTION 3 R/B Crane Motors See Block 19		8. ITEM LOCATION WHSE		2. VALIDATED BY <i>[Signature]</i>	DATE 10-14-75	25. DISPOSITION CONCURRENCE	
4. SERIAL NUMBER See Block 19		9. STARTUP SYSTEM NO. N/A		3. REPLACEMENT PART NO. N/A	REV.	REWORK	REJECT
5. PURCHASE ORDER NO. 7220-M-92		10. QC FIELD INSPECTION PLAN NO. M-92-R-4		4. REPLACEMENT SERIAL NO. N/A		REPAIR	USE AS IS
6. CONTRACTOR/LOCATION HarnischFeger Corp./Milwaukee, Wis.		11. ASME CODE ITEM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		5. SOURCE Vendor		OK	
15. ROUTING INSTRUCTIONS: <input type="checkbox"/> ROUTE TO FIELD ENGINEERING				<input checked="" type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR		PROJECT FIELD ENGINEER <i>[Signature]</i>	DATE 11-6-75

19. NONCONFORMING CONDITION: Specification 7220-M-92 Rev. 5 paragraph 9.2 states, "The Seller shall submit all electrical motor data called for in Specification 7220-E-10." Specification 7220-E-10 paragraph 10.1 states, "Motor data sheet vellums, supplied by the Buyer, shall be completed by the Seller, including all applicable data, and returned to the Buyer."

Contrary to the above Motor Data sheet vellums (Form MDS-182) have not been received on jobsite for the following Reactor Building Crane Motors:

20. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

Motor data sheets located on site - NCR returned to Quality Control. J.C. Lither's report. Allow corrected Auxiliary Hoist motor name plate and letter & markings affixing same to self of Auxiliary Hoist Motor. David P. Valine 11-6-75

Continued.

21. FIELD DISPOSITION RESULTS:
Motor data sheets were consistent. The markings agree with data sheets for Main Hoist Motor and Auxiliary Hoist Motor. J.C. Lither 11-2-75. Markings & letter received. Markings affixed to Aux Hoist Motor 11/2/75

22. ENGINEERING DISPOSITION

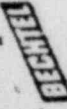
23. ENGINEERING DISPOSITION RESULTS

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>[Signature]</i>	DATE 11-2-75
DRAWING _____ REV. _____ DCN _____	REMARKS _____	ENGINEER	DATE
SPEC. _____ REV. _____ ADD. _____		AUTHORIZED INSPECTOR	DATE

10088-1

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

QC-G3-2



NONCONFORMANCE REPORT (CONT'D)

Block No. 19 Continued.

Unit No. 1.	"Q" No.	Nonconformance noted during receipt inspection.	Box	Serial No.
			4A	215014-23-A1170
			7A	215012-30-A670
			9A	215005-47-A1070

hold tags applied. 3

Block 19 continued

Motor data sheet for Aux. Hoist motor also on site. In comparing motor manufacture to information on data sheet the following discrepancy was noted:

Aux. Hoist Motor Manufacture

Date Sheet (A. Hoist)

1972-10-25

Full Load Amps

143.2

140.6

Secondary amps

71

76.3

W. A. May 10-26-75

Industrial and electric products group - manufacturers of P&H
overhead traveling cranes · electric wire rope hoists
material handling systems · electric motors and controls
p. o. box 554 · milwaukee, wisconsin 53201
tel. (414) 671-4400 · teletype twx 414-322-8306 · telex 026-837

Harnischfeger



October 31, 1975

Bechtel Power Corporation
P.O. Box 1766
Midland, Michigan 48640

Attn: Mr. Ron Mathews

SUBJECT: BECHTEL FOR CONSUMER POWER
P.O. 7220 - M - 92 - Rev. 3
P&H CN-25088-89
AUX. HOIST MOTOR NAMEPLATES

Gentlemen:

Please be advised that the subject crane left our factory with improper motor nameplates on the auxiliary hoist motors.

This letter is your authorization to change present motor nameplates with those enclosed.

Very truly yours,

HARNISCHFEGER CORPORATION

A handwritten signature in cursive script, appearing to read 'Roy Podolak'.

Roy Podolak
Heavy Duty Cranes

RP/lme

Enclosure

cc: Mr. G. Thorsen - Central Service

BECHTEL

ENC 2

NONCONFORMANCE REPORT

2. DRAWING/PART NO. Spec. C-230		1. REV. 5	7. PROJECT NO. 07220	12. REPORTED BY <i>[Signature]</i>	DATE 11/25/75	1. PAGE 1 OF 1	14. NCR NO. 347
3. ITEM DESCRIPTION Concrete		8. ITEM LOCATION Aux. Bldg. - Cask Pit A(613.25)		13. VALIDATED BY <i>[Signature]</i>	DATE 11/25/75	25. DISPOSITION CONCURRENCE	
4. SERIAL NUMBER N/A		9. STARTUP SYSTEM NO. N/A		15. REPLACEMENT PART NO. N/A	REV.	<input checked="" type="checkbox"/> RETURN	<input type="checkbox"/> REJECT
5. PURCHASE ORDER NO. N/A		10. QC FIELD INSPECTION PLAN NO. C-231-3-631		16. REPLACEMENT SERIAL NO. N/A		<input type="checkbox"/> REPAIR	<input type="checkbox"/> USE AS IS
6. CONTRACTOR/LOCATION Champion Inc., Midland, Michigan		11. ASME CODE ITEM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		17. SOURCE Subcontractor		<input type="checkbox"/> DOC.	
18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING <input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR						<i>[Signature]</i> 11-25-75 PROJECT FIELD ENGINEER DATE	
						<i>[Signature]</i> 11-17-75 PROJECT ENGINEER DATE	
						<i>[Signature]</i> 11-26-75 PROJECT FIELD QC ENGINEER DATE	
						<i>[Signature]</i> AUTHORIZE INSPECTOR DATE	

19. NONCONFORMING CONDITION: Spec. 7220-C-230 Rev. 5 in Table 9.1 states in part that the rejection limit for slump of D-1 concrete mix is 5". Contrary to the above, a slump of 5½" was measured at the end of the pumpline on D-1 concrete mix represented by Ticket No. 06390 placed in the Aux. Bldg. - Cask Pit Pour A(613.25)a on 10/14/75. Nonconformance noted during routine QC testing of concrete. "Q" List No. 1.205.

One tag applied.

20. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

21. FIELD DISPOSITION RESULTS:

Field cylinder set #649 was taken at the end of the pumpline from the nonconforming load identified in Block 19. 28 and 90 day breaks will be reported. 28 day breaks are due 11/12/75, and will be forwarded to Project Engineering.

Richard White
11/29/75

22. ENGINEERING DISPOSITION

High slump will tend to increase shrinkage while reducing durability and strength. The 28 day cylinder strength average is 4860 psi as received from R. Grote on 11-14-75. Based on the above and the fact that 5½" slump concrete will have no significant effect on shrinkage or durability, Engineering recommends "use as is." *Final 11-17-75*

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 <i>[Signature]</i> 11/26/75 QC ENGINEER DATE
DRAWING _____ REV. _____ DCN. _____	REMARKS	AUTHORIZED INSPECTOR _____ DATE _____
SPEC. _____ REV. _____ ADD. _____		

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

RECEIVED

PLANT

NONCONFORMANCE REPORT

1. DRAWING/PART NO. BEBC-491	6. REV. 0	7. PROJECT NO. 07220	12. REPORTED BY <i>[Signature]</i>	DATE 11-27-75
2. ITEM DESCRIPTION Hilti Flush Anchors	8. ITEM LOCATION QC Hold Area	3. STARTUP SYSTEM NO. N/A	13. VALUATED BY <i>[Signature]</i>	DATE 10-27-75
4. SERIAL NUMBER N/A	9. QC FIELD INSPECTION PLAN NO. B-1-R-38 Rev 0	14. REPLACEMENT PART NO. N/A	15. REPLACEMENT PART NO. N/A	REV. N/A
5. PURCHASE ORDER NO. 7220-F-12347	10. ASME CODE ITEM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	16. REPLACEMENT SERIAL NO. N/A	17. SOURCE Vendor	

1. PAGE 1 OF 1	14. REC NO. 351
25. DISPOSITION CONCURRENCE	
REWORK	REPAIR
<i>[Signature]</i>	<i>[Signature]</i>
PROJECT FIELD ENGINEER	DATE 11-3-75
PROJECT FIELD QC ENGINEER	DATE 11-3-75
AUTHORIZED INSPECTOR	DATE

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

9. NONCONFORMING CONDITION: Bulk Items List BEBC-491 requires that concrete expansion bolts have a Certificate of Conformance and a Certificate of Compliance. FIM G-5 paragraph 3.3.6 requires documentation to be traceable to material received. Contrary to the above, a Certificate of Conformance is not available for flush anchors received and the Certificate of Compliance is not traceable to flush anchors received. 1000 - 1/4" and 1000 - 1/2" flush anchors on PO 7220-F-12347 were received with Packing Slip 619152 on AEO-1001. Nonconformance noted during receipt inspection. "Q" No. is not available. 3 Hold tags applied.

10. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

Material Supervisor shall contact vendor who in turn shall supply a Certificate of Conformance and a corrected Certificate of Compliance for all expansion bolts received on Purchase Order No 7220-F-12347

J.C. Litherly

21. FIELD DISPOSITION RESULTS:

*Certificate of Conformance and Certificate of Compliance issued and are acceptable signed *[Signature]* 11-26-75*

22. ENGINEERING DISPOSITION

23. ENGINEERING DISPOSITION RESULTS:

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

5. DRAWING _____ REV. _____ DCN _____

6. PEC _____ REV. _____ ADD. _____

26. REJECTED MATERIAL DISPOSITION RETURN TO SUPPLIER SCRAP

REMARKS

27. QC ACCEPTANCE *[Signature]* 11-26-75

QC ENGINEER _____ DATE _____

AUTHORIZED INSPECTOR _____ DATE _____

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

REPTED

7-2

NONCONFORMANCE REPORT

2. DRAWING/PART NO. C-111 - Spec.		REV. 9	7. PROJECT NO. 7220	12. REPORTED BY <i>[Signature]</i>	DATE 11/4/75	1. PAGE 1 OF 1	14. NCR NO. 353
3. ITEM DESCRIPTION Reactor Bldg. Liner Plate		8. ITEM LOCATION Cont. #2, El. 623' Az. 195° Az. 205°		13. VALIDATED BY <i>[Signature]</i>	DATE 11/4/75	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. C-110-14c Rev. 0		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 <input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR						USE AS IS	

19. NONCONFORMING CONDITION: Spec. C-111 Rev. 9 Appendix B para 3.4 states in part, "Deep imperfections shall be removed".

NOTE: Deep imperfections are defined in Spec. C-111 Rev. 9 Appendix B para 2.4 as greater than .06".

Contrary to the above liner plate C-111-14 (S2-11-U1 and S1-13-U1), has two (2) deep pits. 1. 1/8" X .063", Location Approx. Elev. 623' Az. 195 degrees, 2. 1/8" X .070", Location Approx. Elev. 623' Az. 205 degrees.

Nonconformance noted during coating inspection. "Q" No. 1.109. NOTE: Pits have been coated with Carbo Zinc II. Pits have been marked with chalk. *one hold tag attached*

20. <input checked="" type="checkbox"/> FIELD DISPOSITION <input type="checkbox"/> FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING	21. FIELD DISPOSITION RESULTS:
Repair in accordance with Specification C-111, Rev. 9, Appendix B, para. 3.4. This is an approved standard repair procedure. Work may proceed. Implementation expected prior to November 30, 1975. <i>C.F. Clark 11-5-75</i>	<i>REPAIRED IN ACCORDANCE WITH FIELD DISPOSITION. REF: FIP C-111-14a. H.O. Foster 11-18-75</i>

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 _____	<i>[Signature]</i> 11-18-75 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-C3-2

RECEIVED

NONCONFORMANCE REPORT

2. DRAWING NO. 7220-C-111	REV. 9	7. PROJECT NO. 7220	12. REPORTED BY C. F. Clark	DATE 11/5/75	1. PAGE 1 OF 1	14. NCR NO. 354
3. ITEM DESCRIPTION Dome Plate Assembly	8. ITEM LOCATION Dome Const. Area	9. STARTUP SYSTEM NO. N/A	13. VALIDATED BY [Signature]	DATE 11-5-75	25. DISPOSITION CONCURRENCE	
4. SERIAL NUMBER C-111-115	10. QC FIELD INSPECTION PLAN NO. C-111-115	11. ASME CODE ITEM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	15. REPLACEMENT PART NO. N/A	REV.	REWORK	REJECT
5. PURCHASE ORDER NO. 7220-C50-A	16. REPLACEMENT SERIAL NO. N/A	17. SOURCE Vendor	15. REPLACEMENT PART NO. N/A	REV.	REPAIR	USE AS IS
6. CONTRACTOR/LOCATION Southern Boiler & Tank Works	18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING <input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR		15. REPLACEMENT PART NO. N/A	REV.	DOC.	

25. DISPOSITION CONCURRENCE

REWORK	REJECT	REPAIR	USE AS IS	DOC.
		STU		
PROJECT FIELD ENGINEER [Signature]			DATE 11-6-75	
PROJECT ENGINEER [Signature]			DATE 11-6-75	
PROJECT FIELD QC ENGINEER [Signature]			DATE	
AUTHORIZED INSPECTOR			DATE	

19. NONCONFORMING CONDITION:
The liner plate is broken at the shop seam of dome plate RD-9-14 of dome plate assembly C-111-115. "Q" no. 1.100. C.F. Clark 11-5-75

1 QC HOLD TAG APPLIED 11-5-75

20. <input checked="" type="checkbox"/> FIELD DISPOSITION Remove nonconforming area and replace with conforming material in accordance with Appendix B of Specification 7220-C-111. Cover seams with leak chase channel. Repair anticipated by November 20, 1975. Work may proceed. C.F. Clark 11-6-75	<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

REC-110

NONCONFORMANCE REPORT

1. PAGE 1 OF 1 14. NCR NO. 355

2. DRAWING/PART NO. Spec. C-230	REV. 5	7. PROJECT NO. 7220	12. REPORTED BY D. N. Nelson	DATE 11/7/75
3. ITEM DESCRIPTION Concrete	8. ITEM LOCATION Aux. Bldg. Slab	Pour # A(614)	13. VALIDATED BY J. Connelly	DATE 11-07-75
4. SERIAL NUMBER N/A	9. STARTUP SYSTEM NO. N/A	10. QC FIELD INSPECTION PLAN NO. C-208-1-122	15. REPLACEMENT PART NO. N/A	REV.
5. PURCHASE ORDER NO. N/A	6. CONTRACTOR/LOCATION Champion Inc., Midland, Michigan	11. ASME CODE ITEM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	16. REPLACEMENT SERIAL NO. N/A	17. SOURCE Subcontractor

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

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

19. NONCONFORMING CONDITION: Section 9.2.1 of Spec. C-230 Rev. 5 requires that all concrete materials be measured in accordance with ASTM C-94-72 states in part that powdered admixtures weighing accuracy shall be within + 3 percent of the design weight. Contrary to the above Batch Ticket No. 06594 representing concrete placed in Pour No. A on 10/30/75 shows the flyash content to be 3 lbs. below the minimum allowable weight of 310 lbs. Nonconformance noted during QC review of Batch Tickets. "Q" No. is ~~XXXXXX~~ 1.205. One tag 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 _____

AUTHORIZED INSPECTOR _____

10098-1

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

SCHIEF

NONCONFORMANCE REPORT

1. PAGE 1 OF 1
 14. NCR NO. 356

25. DISPOSITION CONCURRENCE				
REWORK	REJECT	REPAIR	USE AS IS	DCS

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

2. DRAWING/PART NO. Spec. 7220-C-230	REV. 5	7. PROJECT NO. 07220	11. REPORTED BY <i>[Signature]</i>	DATE 11/12/75
3. ITEM DESCRIPTION Concrete		8. ITEM LOCATION Aux. Bldg. Pour No. A(599)J' & A(587)b'	13. VALIDATED BY <i>[Signature]</i>	DATE 11/12/75
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-231-3-665 Rev. 0	16. REPLACEMENT SERIAL NO. N/A	
6. CONTRACTOR/LOCATION Champion Inc., Walled Lake, Michigan		11. ASME CODE ITEM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	17. SOURCE Subcontractor	

19. NONCONFORMING CONDITION: Spec. 7220-C-230 Rev. 5 Section 9.1.5 requires that amount of entrained air in the concrete shall be not less than three percent and not more than six percent of the total volume at the point of placement. Contrary to the above Batch Ticket No's. 06651, 06655 and 06656 had a measured air content of 2.0%, 2.7% and 2.2% respectively at the end of the pump line in Aux. Bldg. Wall Placements A(599)J' and A(587)b' placed on 11/12/75. "Q" List No. 1.205. Nonconformance noted during routine QC Testing of concrete.

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. _____

25. 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

NONCONFORMANCE REPORT

1. PAGE 1 OF 2	14. PROJECT NO. 357
25. DISPOSITION CONCURRENCE	
REWORK	REJECT
REPAIR	USE AS IS
DOC.	
PROJECT FIELD ENGINEER	DATE
PROJECT ENGINEER	DATE
PROJECT FIELD QC ENGINEER	DATE
AUTHORIZE INSPECTOR	DATE

DRAWING/PART NO. Spec. 7220-M-92	REV. 5	7. PROJECT NO. 7220	12. REPORTED BY <i>[Signature]</i>	DATE 11-17-75
ITEM DESCRIPTION 5 R/B Crane Motors		8. ITEM LOCATION Warehouse	13. VERIFIED BY <i>[Signature]</i>	DATE 11-17-75
SERIAL NUMBER See Block 19		9. STARTUP SYSTEM NO. N/A	15. REPLACEMENT PART NO. N/A	REV.
PURCHASE ORDER NO. 7220-M-92		10. QC FIELD INSPECTION PLAN NO. N/A	16. REPLACEMENT SERIAL NO. N/A	
CONTRACTOR/LOCATION Harnish Feger Milwaukee, Wis.		11. ASME CODE ITEM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	17. SOURCE Vendor	

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

9. NONCONFORMING CONDITION: Storage requirements Form F-1-193, Rev. 1 requires motor space heaters to be connected to a 115 volt power supply. Contrary to the above, heaters for the five (5) Reactor Building Crane Motors listed below are not connected to a power source.

1) 2H51 End Truck Motor Cor. 2 ----- Heater burned out 11/11/75
 2) 2H51 End Truck Motor Cor. 4 ----- Heater burned out 11/12/75
 (Continued on Sheet 2)

10. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

11. ENGINEERING DISPOSITION

21. FIELD DISPOSITION RESULTS:

23. ENGINEERING DISPOSITION RESULTS:

15. DESIGN CHANGE REQUIRED NO YES, SEE ATTACHED:

DRAWING _____ REV. _____ DCN _____
 EC. _____ REV. _____ ADD. _____

26. REJECTED MATERIAL DISPOSITION RETURN TO SUPPLIER SCRAP

REMARKS

27. QC ACCEPTANCE

QC ENGINEER _____ DATE _____
 AUTHORIZED INSPECTOR _____ DATE _____

19. NONCONFORMING CONDITION: Continued from Page 1

- 3) 2H51 Aux. Hoist Motor ----- Heater burned out 11/12/75
- 4) 2H51 Main Hoist Motor ----- Heater disconnected
- 5) 2H51 Trolley Drive Motor -- Heater disconnected

Nonconformance noted during surveillance of R/B Crane Motors by the Materials Storage Supervisor.
Q# 04.001. Unit 2. ----- 2--hold tags applied.

NONCONFORMANCE REPORT

1. PAGE 1 OF 1	14. NO. 358
25. DISPOSITION CONCURRENCE	
REWORK	REJECT
REPAIR	USE AS IS
DOC.	X
PROJECT FIELD ENGINEER <i>[Signature]</i> 11-25-75	
PROJECT ENGINEER <i>[Signature]</i> 11-24-75	
PROJECT FIELD QC ENGINEER <i>[Signature]</i>	
AUTHORIZE INSPECTOR	

2. DRAWING/PART NO. Spec. M-117	REV. 5	7. PROJECT NO. 7220	12. REPORTED BY <i>[Signature]</i>	DATE 11/17/75
3. ITEM DESCRIPTION 1 Check Valve		8. ITEM LOCATION QC HOLD 11-24-75 Receiving Area <i>[Signature]</i>		13. VALIDATED BY <i>[Signature]</i>
4. SERIAL NUMBER 4632-04-1-1 2N-464		9. STARTUP SYSTEM NO. N/A		14. REPLACEMENT PART NO. N/A
5. PURCHASE ORDER NO. 7220-M-117 AC		10. QC FIELD INSPECTION PLAN NO. M-117-R-6 Rev. 0		15. REPLACEMENT SERIAL NO. N/A
6. CONTRACTOR/LOCATION Anchor-Darling/Hayward, California			11. ASME CODE ITEM <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
18. ROUTING INSTRUCTIONS: <input type="checkbox"/> ROUTE TO FIELD ENGINEERING			<input checked="" type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR	

19. NONCONFORMING CONDITION: Spec. 7220-M-117 Rev. 5 para. 13.1 states in part, "Each valve and each operator shall be provided with impressed, stamped, or etched stainless steel tags." Para. 13.2 states, "All valves shall be boxed, crated or secured to skids and protected against damage during shipment, storage and handling." Contrary to the above, valve 6" EBB-CK-P W/SN 4632-04-1-1 does not have a tag. The valve body protective coating is marred and scratched, tie-down straps are broken, and the valve tag is sheared off and missing. Unit No. 1. "Q" No. varies. Nonconformance noted during receipt inspection. Hold Tags applied.

20. FIELD DISPOSITION FIELD RECOMMENDATION/ROUTE TO PROJECT ENGINEERING

Route this NCR to Procurement. Field Procurement Supervisor to obtain a replacement tag from the valve manufacturer. Field Engineering and Quality Control to verify attachment of new tag. *[Signature]* 11-20-75

21. FIELD DISPOSITION RESULTS:

22. ENGINEERING DISPOSITION

23. ENGINEERING DISPOSITION RESULTS:

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

DRAWING _____ REV. _____ DCN _____

PEC _____ REV. _____ ADD. _____

26. REJECTED MATERIAL DISPOSITION RETURN TO SUPPLIER SCRAP

REMARKS _____

27. QC ACCEPTANCE

QC ENGINEER _____ DATE _____

AUTHORIZED INSPECTOR _____ DATE _____

RECEIVED

NONCONFORMANCE REPORT

2. DRAWING/PART NO. Spec. 7220-C-230		REV. 5	7. PROJECT NO. 07220		12. REPORTED BY <i>[Signature]</i>	DATE 11/20/75
3. ITEM DESCRIPTION Concrete		8. ITEM LOCATION Pour #A(619)a Aux. Bldg.			13. VALIDATED BY <i>[Signature]</i>	DATE 11/24/75
4. SERIAL NUMBER N/A		9. STARTUP SYSTEM NO. N/A			15. REPLACEMENT PART NO. N/A	
5. PURCHASE ORDER NO. N/A		10. QC FIELD INSPECTION PLAN NO. C-231-3-652 Rev. 0			16. REPLACEMENT SERIAL NO. N/A	
6. CONTRACTOR/LOCATION Champion Inc., Midland, Michigan				11. ASME CODE ITEM <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		17. SOURCE Subcontractor

1. PAGE 1 OF 1	14. NCR NO. 359			
25. DISPOSITION CONCURRENCE				
REWORK	REJECT	REPAIR	USE AS IS	DISPOSE
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: Spec. C-230 Rev. 5 Section 9.1.5 states in part, "That the amount of entrained air in the concrete shall not be less than three percent and not more than six percent of the total volume at point of placement". Contrary to the above Batch Ticket No. 06086 had a measured air content of 6.2% at the end of the pump-line in Aux. Bldg. Slab Pour A(619)a on 11/20/75. Six compressive strength cylinder's made (Set #673). "Q" No. is 1.205. Nonconformance noted during routing QC Testing of concrete.

2 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. _____ UCN _____

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

NONCONFORMANCE REPORT

2. DRAWING/PART NO. Spec. 7220-C-231		REV. 8	7. PROJECT NO. 07220	12. REPORTED BY <i>R. J. Bennett</i>	DATE 11-24-75	14. NCR NO. 360
3. ITEM DESCRIPTION Concrete Slab			8. ITEM LOCATION Pour # A(619)a	13. VALIDATED BY <i>M. Connelly</i>	DATE 11-25-75	25. DISPOSITION CONCURRENCE
4. SERIAL NUMBER N/A			9. STARTUP SYSTEM NO. N/A	15. REPLACEMENT PART NO. N/A	REV.	REWORK
5. PURCHASE ORDER NO. N/A			10. QC FIELD INSPECTION PLAN NO. C-231-4-653	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"/> NO. JTE TO FIELD ENGINEERING		<input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR		

19. NONCONFORMING CONDITION:
 Spec. 7220-C-231-Rev. 8 Section 13.2.4 states in part that, during the curing period concrete members shall be adequately protected to maintain concrete temperature of no less than 50 degrees. Contrary to the above, concrete surface temperature fell below 50 degrees for approx. 3 hours for placement A(619)a. "Q" List No. is 1.205. CONCRETE SURFACE TEMPERATURE DROPPED TO 35° F
A SHORT PERIOD OF TIME. PQA 11/24/75

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 _____
SPEC _____ REV. _____ ADD. _____		AUTHORIZED INSPECTOR _____

10098-1

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

BECHTEL

NONCONFORMANCE REPORT

1. PAGE 1 OF 2	14. NCR NO. 361			
25. DISPOSITION CONCURRENCE				
REWORK	REJECT	REPAIR	USE AS IS	QC
PROJECT FIELD ENGINEER		DATE		
PROJECT ENGINEER		DATE		
PROJECT FIELD QC ENGINEER		DATE		
AUTHORIZED INSPECTOR		DATE		

2. DRAWING/PART NO. E-42 Sht. 11	REV. 3	7. PROJECT NO. 07220	12. REPORTED BY EC Thompson	DATE 11-26-75
3. ITEM DESCRIPTION Embedded Conduit	8. ITEM LOCATION Aux. Bldg.	9. STARTUP SYSTEM NO. N/A	13. VALIDATED BY J. L. Murray	DATE 11-26-75
4. SERIAL NUMBER N/A	10. QC FIELD INSPECTION PLAN NO. E-42-1-39 & 42	11. REPLACEMENT PART NO. N/A	14. REPLACEMENT PART NO. N/A	REV.
5. PURCHASE ORDER NO. N/A	15. ASME CODE ITEM ASME <input type="checkbox"/> YES CODE <input checked="" type="checkbox"/> NO	16. REPLACEMENT SERIAL NO. N/A	17. SOURCE Construction	
6. CONTRACTOR/LOCATION N/A	18. ROUTING INSTRUCTIONS: <input checked="" type="checkbox"/> ROUTE TO FIELD ENGINEERING <input type="checkbox"/> ROUTE TO MATERIAL SUPERVISOR			

19. NONCONFORMING CONDITION: Drawing E-42 Sheet 11 Rev. 3, Note 24a requires that the minimum clear space between two adjacent conduits shall be equal to the O.D. of the largest conduit but not less than 1 - 1/2 times the size of the coarse aggregate. Contrary to the above; Conduits 1BC003 and 1BC004 @ 16' North of "Fx" Line and 10' East of 5.6 Line and Conduits 1AC003, 1AC004 and 1AC005 @ 10' East of 5.6 Line and 11' South of "F" Line, Conduits 2AC009, 2AC010, 2AC011, 2AC012 and 2AC013 @ 20' South of "F" Line and 10' East of 6.6 Line and 13' East of 6.6 Line are embedded in the Fuel Pool Slab between "F" Line and "G" Line at Elev. 616'6" with a minimum clear space of 1 1/2 times

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

NONCONFORMANCE REPORT (CONT'D)

Block No. 19 Continued:

the 3/4" aggregate size, or greater, but less than one conduit O.D. (3" PVC Conduit).

Q.#3.006. 4 Tag~~s~~ applied.

In addition to the above mentioned deviations two other locations of simular nonconforming areas are located 4'4" South of "F" Line. Conduit IAC008 and IAC009 have 3 1/4" clear space between them at 8' East of 6.2 line and Conduit IAC019 and IAC020 have 2 5/8" clear space between them at 8' West of 5.6 line.

Rayla C. Thompson
12-5-75



QUALITY AUDIT FINDING

AUDIT IDENT. 19	065 (10-3-1)
AUDIT DATE	11/26/75
AAS ITEM 20	----

1 DEPARTMENT/SELLER Midland - 7220		2 TYPE OF AUDIT Construction		<input checked="" type="checkbox"/> FIELD <input type="checkbox"/> OFFICE		3 AUDITOR G. Richardson	
4 AGENDA ITEM --	5 CHECKLIST ITEM 1 & 2	6 WHERE FOUND QC Records			7 DISCUSSED WITH J. Conncly/J. Miller		
8 CONTROLLING DOCUMENT, SECTION, PARAGRAPH, ETC. FIP G-7 Rev. 4				9 SAME AS 8. -			

10
QUOTATION

Para. 4.2: "After review and acceptance the records are entered the appropriate section of the records log. The control number and file number are entered on the record and placed in the selected file".

App. A. "Start the first entry in each book with number one and consecutively number subsequent entries. This number is part of the control number entered on the records".

Block 4:

11
FINDING

1. The following records do not have the control number entered on them, M-1, control 135 (AEO 1028); C36A.3, control #7, #17, #1; Project Audit reports (All); Measure/Test equipment records (All); NDE Test records (All).

The following records were noted to have control numbers different than the numbers entered in the log. This condition was apparently the result of preparing new logs during the month of October, 1974. Spec. C-39, Control 3.20 (MRR AEO-81); C-39 Control 15, 10, 41; Filler metal certs E-6010 Control 8 (MRR QC-34).

12
CORRECTIVE ACTION Recommended.

1. Enter appropriate control numbers on the identified records. Determine extent of the problem and correct other records as necessary.
2. Correct the identified records. Review the remaining records affected by the log revision and make corrections as necessary.

13 SCHEDULE COMPLETION DATE 3/1/76	14 RESPONSIBILITY FOR CORRECTIVE ACTION PFQCE
--	---

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



QUALITY AUDIT FINDING

AUDIT IDENT. 19
066 (10-3-1)
AUDIT DATE
11/25/75
AAS ITEM 20

PROJECT/DEPARTMENT/SELLER 1 Midland 1 & 2		TYPE OF AUDIT 2 Construction	<input checked="" type="checkbox"/> FIELD <input type="checkbox"/> OFFICE	AUDITOR 6 G. Richardson
AGENDA ITEM 3 ---	CHECKLIST ITEM 4 1 & 2	WHERE FOUND 5 QC Records		DISCUSSED WITH 7
CONTROLLING DOCUMENT, SECTION, PARAGRAPH, ETC. FIP G-7 Rev. 4			SAME AS 1. 8	

10
 Para. 4.1: "A records log QC G-7-1 will be established to provide accoutability and filing location of completed records".

Para. 4.2: "After review and acceptance the recrcds are entered in the appropriate section of the records log".

11
 FINDING

Similar records that flow into the vault periodically are not being logged on the QC G-7-1 Form. Only one entry has been made for each type of record in the log. Subsequent records are then placed in the folder with no further entries on the log.

Examples are:

1. Cement Certification Records.
2. Measure/Test Equipment Calibration Records
3. Storage and Maintenance Records.
4. NDE Test Results.
5. Welder/NDE Qualification Records.
6. NDE Material Certs.
7. Bechtel Audit Reports.

12
 CORRECTIVE ACTION Recommended

Determine all the areas where the described method of control is currently utilized and prepare proper logs for these records. Assure that all future records of this type will be properly logged and identified.

SCHEDULE COMPLETION DATE 13 3/1/76	RESPONSIBILITY FOR CORRECTIVE ACTION 14 PFOCE
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15
 CORRECTIVE ACTION TAKEN

16
 DATE COMPLETED

17
 SUBMITTED BY RESPONSIBLE AUTHORITY

Route To	This Copy For
FMSouthworth	SHHowell
HWSlager	GSKeeley (2)
CQuills	TCCooke
	JMilandin
	WFHolub
	GLRichardson
	Subject File



Consumers Power

Nonconformance
Report No QF-53

File 16.3.6
 Issue Date August 12, 1975
 Project Midland 1 & 2
 File Title NCR's on Bechtel Quality Control

This Nonconformance Report is Issued To:

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

Prepared By Donald E. How Date 8-12-75Approved By J. F. Cooley Date 8/12/75Written Reply Requested By Date 9-12Corrective Action Requested By Date 9-12

who is responsible for corrective action.

Nonconformance Description and Supporting Details: Specification C-230 Rev. 5 Section 9.2.1 states "The measuring of materials, batching, mixing, and delivery of all concrete shall conform to "Standard Specification for Ready-Mixed Concrete" (ASTM C94-72) unless otherwise specified". ASTM C94-72 Section 6.1 states in part "When the quantity of cement in a batch of concrete exceeds 30 percent of the full capacity of the scale, the quantity of cement, as indicated by the scale, shall be within ± 1 percent of the required weight. For smaller batches to a minimum of 1 yd³ (1m³), the quantity of cement used shall be not less than the required amount nor more than 4 percent in excess". Contrary to this ASTM C94-72 requirement, (1) Batch Ticket 05427 for pour A(599)d was short 3 pounds of cement for 3 yards of C-1 concrete (2) Batch Ticket 00853 for pour

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

Recommended Corrective Action: (1) Review all pour packages for similar deficiencies (2) Receive a Project Engineering evaluation on the acceptability of the concrete placed with the deficiencies above and any deficiencies that are found in the review (3) Take corrective action to preclude these occurrences. The written reply to these items is requested with the Project Engineering evaluation.

Corrective Action Taken: (1) A complete review of tickets representing small batches of concrete was performed by U.S. Testing. (2) Project Engineering comments were incorporated into the final evaluation of concrete placed with deficient cement weights. The conclusion reached in the final evaluation was that the cement deficiencies will not adversely affect the ability of the concrete and grout to meet design requirements. (3) The U.S. Testing Batch Plant Inspector and the Champion, Inc. Batch Plant Operator now jointly check batch weights prior to mixing. This joint check should reduce the possibility of these occurrences.

Method of Verification:

(1) Reviewed the information obtained from U.S. Testing in their review of batch tickets. (2) Reviewed letter BCBE 635 and BEBC 879. (3) The requirements for small batches are posted on the wall in the Batch Plant control room.

Nonconformance Closure Confirmed By Donald E. How
 Date 11-26-75


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

Nonconformance Report No QF-53 (Contd)

Nonconformance Description and Supporting Details: (Contd)

A(583.25)b was short 4 pounds of cement for 4 yards of A-2 concrete (3) Batch Ticket 01668 for pour A(583.25)c was short 4 pounds of cement for 4 yards of A-2 concrete (4) Batch Ticket 11833 for pour CC(582)a was short 11 pounds of cement for 4 yards of A-1 concrete (5) Batch Ticket 05396 for pour A(593)d shows an excess of 6 pounds of cement for 1 yard of C-2 Grout over the 4 percent in excess allowed (6) Batch Ticket 05274 and 05275 for pour A(599)c shows an excess of 10 and 9 pounds of cement, respectively, for 1½ yards of C-2 Grout over the 4 percent in excess allowed (7) Batch Ticket 00529 for pour A(584)a shows an excess of 18 pounds of cement for 1 yard of D-2 Grout over the 4 percent in excess allowed.

The 7 items above are deficiencies of the ASTM C94-72 requirements for smaller batches. The quantity of cement used is 30 percent or less of the full capacity of the cement scale for these smaller batches.

Route To	This Copy For	 Consumers Power Nonconformance Report No <u>OF-65</u>	File
FMSouthworth HWSlager CQHills	SHHowell GSKeeley TCCooke WFHolub GLRichardson JMilandin		

This Nonconformance Report is Issued To:

1. J. P. Connolly, Bechtel PFQCE
2. J. F. Newgen, Bechtel Project Supt.

who is responsible for corrective action.

Prepared By W.H. Benkert Date 9-30-75

Approved By J.J. Conley Date 9/30/75

Written Reply Requested By Date 10-30

Corrective Action Requested By Date 10-30

Nonconformance Description and Supporting Details: Bechtel Field Inspection Procedure G-3, Section 4.4.2 states, "The tag shall remain on the item until disposition has been implemented and the reinspection accepted by a QC Engineer". Contrary to this requirement, a QC hold tag (NCR 82) was found buried and attached to duct bank section CC-CC (E-547, Rev. 7) south of Turbine Building.

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. Reinstruction of QC Hold Tag removal.
2. Reinstruct personnel to abide by QC Hold Tags.

¹Corrective Action Taken:

As part of Bechtel's ongoing training program, Bechtel Quality Control Department held a training session on November 3, 1975. Those in attendance were Quality Control Engineers and Craft Superintendents.

¹Verification of Corrective Action Required Yes No

¹Method of Verification:

WHBenkert attended the training session held on November 3, 1975. The training session was adequate.

¹Nonconformance Closure Confirmed By W.H. Benkert
Date 11-4-75

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

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	JMilandin
	WFHolub
	GLRichardson
	Subject File



Consumers Power
Nonconformance
Report No OF-68

File	16.3.6
Issue Date	October 17, 1975
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 Donald E. Horn Date 10-17-75
Approved By J. P. Connolly Date 10/17/75
Written Reply Requested By Date 11-17
Corrective Action Requested By Date 11-17

Nonconformance Description and Supporting Details: Specification C-210 Revision 4, section 13.7 states in part "All backfill in the plant area and the berm shall be compacted to not less than 95 percent of maximum density as determined by modified Proctor method..." Contrary to this requirement, the compaction test MD142 taken in the West Plant Dike had been calculated using the wrong maximum laboratory dry density for Bechtel Modified Proctor, resulting in a 96% compaction which is passing. Using the correct maximum laboratory dry density results in 92% compaction which is failing.

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.

¹Corrective Action Taken:

See Attachment A.

¹Verification of Corrective Action Required Yes No

¹Method of Verification: (1) Compared 17 Bechtel Modified Proctors to Field Work Sheets. (2) Reviewed revised reports for correctness. (3) Reviewed U.S. Testing's system for checking tests against a Master Proctor List and a Master Log Book.

¹Nonconformance Closure Confirmed By Donald E. Horn
Date 11-21-75

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

Attachment A
Nonconformance Report No QF-68

Recommended Corrective Action:

- (1) Review all Bechtel Modified Proctors (BMP) and Field Work Sheets used by U.S. Testing to assure the maximum laboratory dry densities and optimum moisture contents on the BMP's agree with the Field Work Sheets.
- (2) If there is a discrepancy between the maximum laboratory dry densities and/or the optimum moisture contents, review all compacted Fill Density Test Reports that used the maximum laboratory dry densities and/or optimum moisture contents in error.
- (3) Resubmit all test reports that used the maximum laboratory dry densities and/or optimum moisture contents in error.
- (4) Receive a Project Engineering evaluation on the acceptability of the failing test MD142 and any failing tests that are found during the review.
- (5) Take corrective action to preclude these occurrences.

The written reply to these items is requested with the Project Engineering evaluation.

Corrective Action Taken:

- (1) A complete comparison of all Bechtel Modified Proctors to Field Work Sheets was performed by United States Testing.
- (2) Three additional discrepancies were found during this review. A total of twelve Field Tests were affected by the discrepancies.
- (3) Revised reports have been submitted for the twelve Field Tests.
- (4) Failing test MD142 has been cleared by passing test MD160. None of the twelve Field Tests were found failing after corrections had been made. A Project Engineering evaluation was not necessary.
- (5) U.S. Testing has devised a system for checking tests against Master Proctor List and a Master Log Book.