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DOCUMENTATION TRANSMITTAL

To: Stone & Webster - CIO PO Box 1963 Midland, MI 48640

Transmittal No: CIO- 0051 Date: May 18, 1984

Attention: Geroge Carter

The documentation listed below _____ is provided herewith, X was previously provided on 5-15-84 ; as requested by George Carter . .

Documentation Description: Nonconformance Report - M01-9-2-074

CIO has X has not been placed on routine transmittal for the described documentation.

Janne Kinne

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CC RJCock, NRC Site (w/a, unless voluminous) JJHarrison, NRC Region III (w/a, unless voluminous) DDJohnson, SMO (w/o) JGKeppler, NEC Region III (w/a, unless voluminous) BHPeck, SMO (w/o) NIReichel, SMO (w/o) RAWells, MPQAD (w/o) CMThompson - File 24.2 (w/a, unless voluminous)

MAY 24 1984

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9=				ANCE REPOP	1	1. NCR NUMBER:	
QA 87-0		PROJ	ECTS, ENGINEERING	AND CONSTRUCTION		M01-9-2-0	74
START-UP SYSTEM	5	3. PRIORI	TY COLE:	4. TREND CODE:		5. ACTION ITEM NO:	
						1230	
NTS000		7. NORCON	PORMING PART NO:	H-7 8. NONCONFORMING PART	NALO	S-1566	
MIDLAND PR	UECT		FORMERS FAR. BO.	U. ACASCATORIZAGE FRAM			
	over i	See	Block 17	SUPPORT STEE	L	6-19-82	
. NONCONFORMING P. SERIAL NUMBER:	ART	11. RESPON	SIBLE ORGANIZATION:	12. LOCATION IN PLANT:		13. DATE OF REVISIO	N :
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and the same is not the same of the same o	LEDavis	16. REQUIR		J DEE DIUCK II			
	MADietrich			cification 7220-C-	201 (Part 2)		
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	JAHorsch			ding in Building C lded Joints of AIS			
FO:	RDJohnson BWMargugli		Second on we	TAGA DOTION OF MIC		page 2)	ucción."
Akers	REMcCue	17. BOBCON					
Bice	DBMiller			ified welding defe			
Brunner	BHPeck			ed structural beam Consumers Power Com			
Cook	ESmith			arch 6, 1980 reque			
Collins, Jr	DATaggert			ctor No. 335 to de			
Curland	RAWells			ctural beams. Bec			
	JLWood	2400 be	ams associated	with SQR Inspecto	r No. 335	and purchased	i on P.O.
Danielser. 1	5.6 . 8				(See	page 2)	
ENGINEERING DISPOSITION REQ Q-LIST EQUIP.		repair (or obtain Proj	inspect all beams ect Engineering di the reinspection.	purchased sposition	under P.O. F- for any defec	-3103 and tive weld
INVOLVED? PROCESS CA	X ·	-			(See	page 2)	
HOLD TAGS		23. LOCATI	ON OF TAGE:			Page 27	
API'LIED? REPORTABLE PER	X	25. REPORT	See At	26. REPORTED TO:		27. DATE OF REPORT : 28	TIME OF REPOR
50.50(+)1	To te dete						
ORIGINATED	BY:		30. WRITTEN REPLY RE	EQUIRED:	347 SUPERVIS	OR'S SIGNATURE/DATE:	11-1-
12 Cha	200		July 15, 1	982	1 march	La Storn	6/19/82
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HOLD TAGS REMOV	EC BY-SIGNATURE	CATE:		37. NCR CLOSED BY - SI	GRATURE/DATE:	5. VERIFIED BY-SIG/	/DATE:

Consumers Power	NONCONFURMANCE REPORT	AND CONSTRUCTION
Company	PROCESS CORRECTIVE ACTION	MO1-9-2-074 NCR SERIAL NUMBER:
QA ASSESSMENT OF ROOT CAUSE		PAGE 2 OF 6
TO BE DETERMINE	ED BY PROCUREMENT	
	SUPPLIER QUALITY IN BLOCK 39	
	SUFFLIER GORDITT IN BLOCK 39	
		감독 이 관계 이 것
ACTUAL ROUT CAUSE(S), IF DI	FFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):	
PROCESS CA REQUIRED FROM:		· · ·
	ABRICATION CONSTRUCTION PROCUREMENT	INSPECTION
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Block 16 (REQUIREMENT) cont.

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AWS D1.1-72, Section 3.6.4, requires "For buildings and tubular structure undercut shall be not more than 0.01 in. deep when its direction is transverse to primary tensile stress in the part that is undercut no more than 1/32 in. for all other situations."

AWS D1.1-72, Section 2.7.1.2 (2) requires "The maximum fillet weld size permitted along the edges of material shall be 1/16 in. less than the thickness of base metal, for metal 1/4 in. or more in thickness unless the weld is designated on the drawing to be built out to obtain the full throat thickness."

Block 17 (NONCONFORMANCE) cont.

numbers F-3043, F-3091, F-3103, F-15765, F-16781, F-17119, F-17306, F-17626, F-19753, and F-24897 and reported this data on FQCL-962 dated January 21, 1982.

In order to provide a reduction of the original request, MPQAD conducted an overinspection on 78 structural beams purchased on one order only (P.O. F-3103) to determine if nonconformances existed in the field.

Contrary to the requirements listed in block 16, 66 weld joints were nonconforming out of 146 overinspected. This represents 41 of the 78 structural beams overinspected. Welding defects and beam locations are listed in Attachment A.

Block 18 (RECOMMENDED PART CORRECTIVE ACTION)

Project Engineering to devise a plan to determine the acceptability of welding on beams purchased under purchase orders: F-3043, F-3091, F-15765, F-16781, F-17119, F-17306, F-17626, F-19753, and F-24897.

NOTE: It is expected that many of the beams are totally inaccessable or will at least be difficult to inspect and repair.

ATTACHMENT A

2. .

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Beam 10	Location	Number of Defec- tive Weld Joints	Defects
282	A	4	Undersize welds-1/4" specified 1/8-3/16 actual
7 4H1	A	1	Lack of fill, arc strikes, pinhole porosity
8 AH1	A	1	Undersize welds-3/8" specified 1/4" actual
10B2	В	2	1/16" undercut
1381	В	2	1/16" to 3/32" undercut
1081	С	1	1/16" undercut
10B2	с	1	1/16" undercut
1083	D	1	Insufficient throat
10B2	D	4	1/16" to 1/8" undercut
1381	D	1	1/16" undercut
10B2	D	2 .	1/16" undercut
10B1	Е	2	1/16" to 3/32" undercut
1082	Е	4	l/l6" to l/8" undercut-l joint also has undersize weld
1381	Е	2	1/16" to 3/32" undercut
1082	Ε	2	1/16" to 1/8" undercut
1081	F	1	1/16" undercut
1082	F	1	1/16" undercut
13B1	F	2	1/16" to 3/32" undercut
1082	G	3	1/16" to 3/32" undercut
13B1	G	1	1/16" undercut
1083	G	1	Insufficient throat

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ATTACHMENT A (cont.)

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Beam 10	Location	Number of Defec- tive Weld Joints	Defects
10B2	G	2	1/16" undercut
10B2	Н	4	1/16" to 3/32" undercut- 1 weld joint also has undersize weld
1082	Н	2	1/16" to 3/32" undercut- 1 weld joint also has undersize weld

The following nonconforming welds are undersize from the weld specified on the vendor drawing but meet the minimum weld size requirement of AWS D1.1-72 Section 2.7.1.1.

Beam 10	Location	Number of Weld Joints	Specified Weld Size	Actual Weld
1084	В	1	1/4"	3/16" to 1/4"
1084	С	1	1/4"	3/16" to 1/4"
1083	C	1	1/4"	3/16" to 1/4"
10B3	D	1	1/4"	3/16"
10B3	F	2	1/4"	3/16"
10B4	F	1	1/4"	3/16"
10B4	F	1	1/4"	3/16"
10B3	F	2	1/4"	3/16"
1084	G	1	1/4"	3/16"
1083	G	1	1/4"	3/16"
10B3	Н	1	1/4 "	3/16"
1084	н	1	1/4"	3/16"
1084	н	1	1/4 "	3/16"
10B3	Н	2	1/4"	3/16" to 1/4"
1083	I	1	1/4"	3/16" to 1/4"
1084	I	1	1/4"	3/16" to 1/4"
1083	I	1	1/4"	3/16" to 1/4"

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ATTACHMENT A (cont.)

LOCATION OF BEAMS WITH DEFECTIVE WELDS

Α.	Aux. Bldg.	-	Ele	evation 67	5' 0"	-	co	lumn li	nes 5.1	& A
в.	Containment	1	-	Elevation	688 '	-	9"	- near	column	10
с.	Containment	1	-	Elevation	688'	-	9"	- near	column	12
D.	Containment	1	-	Elevation	688'	-	9"	- near	column	16
E.	Containment	1	-	Elevation	688'	-	9"	- near	column	17
F.	Containment	2	-	Elevation	688'	-	9"	- near	column	2
G.	Containment	2	-	Elevation	688'	-	9"	- near	column	2
н.	Containment	2	-	Elevation	688'		9"	- near	column	6
I.	Containment	2	+	Elevation	688 '	-	9"	- near	column	8