	PRINCIPAL STAFF PA SOPRP VOVIGT 3	STONE AND WEBSTER	DMB R MICHIGAN, INC. AND, MICHIGAN 48640
	A/RA DRMSP RC DRMA PAO SCS SGA ML ENF File	50,329,00	DATE 5 2 54 J O. NO. 14509 P O. NO. LTR NO. SWM- 775
DISTRIBUTION		DEAR SIRS: THE FOLLOWING ARE ATT. A COPIES PRINTS DRAWINGS	ACHED SENT SEPARATELY REPRODUCIBLES APERTURE CARDS EACH OF SPECIFICATIONS
		X DOCUMENTS	NOTES OF CONFERENCE
	STATUS	PLEASE NOTE	SENT FOR YOUR
FINAL PRELIMINARY NO COMMENT SUGGESTIONS AS NOTED	APPROVED AS REVISED AS DEFINED IN SPECIFICATION UNACCEPTABLE X CLOSED	REVISIONS OMISSIONS ADDITIONS CORRECTIONS COMMENTS	APPROVAL COMMENT USE INFORMATION TILES CONCURRENCE
YOUR ATTENTION IS	S DIRECTED TO THE FOLLOWING		
PLEASE REVISE AND SUBM	T PRINTS REPRODUCIBLES	MICROFILM APERTURE CARDS	

IMPORTANT SHOULD ANY REVISION TO DOCUMENTS OF DRAWINGS RETURNED HEREWITH INVOLVE A PRICE INCREASE THE SUPPLIER MUST NOTIFY STONE & WEBSTER PURCHASING DEPARTMENT WITHIN TEN (10) DAYS EVEN THOUGH A DEFINITE ESTIMATE CANNOT BE GIVEN AT THE TIME OTHERWISE. THE PURCHASER WILL CONSIDER THE REVISIONS MADE WITHOUT COST.

The following Closed CIO Item/Hold Point Notification(s) is (are) attached for your action/information:

_ REPRODUCIBLES ___

PLEASE ACKNOWLEDGE RECEIPT OF THIS MATERIAL BY SIGNING AND RETURNING THE ENCLOSED COPY OF THIS FORM WE TRUST THAT THESE NOTES ARE IN ACCORDANCE WITH YOUR UNDERSTANDING IF NOT PLEASE ADVISE US

PLEASE RETURN ONE COPY EACH OF THIS MATERIAL BEARING YOUR APPROVAL OR COMMENTS

DISTRIBUTION:

PLEASE SUBMIT ____ PRINTS ___

Job File C.3 (orig + 1)

DLQuamme, CPCo NIReichel, CPCo

RAWells, CPCo

JGKappler, NRC

JJHarrison, NRC BLBurgess, NRC (site)

APAmoruso (2)

Initiator

KRArndt/Chrono/Vault w/o attach(2)

JUN 4 1984

__ MICROFILM APERTURE CARDS OF __ DOCUMENTS __ DRAWINGS __ SHOP DETAIL

8406060221 840604 PDR ADDCK 05000329

J. E. Karr

CIO Program Manager

ITEM/HOLD POINT NOTIFICATION FORM

Sheet 1 of

	I ITEM NUMBER HOLD PO	INT NUMBER
STONE & WEBSTER	07.2	INT NUMBER
CONSTRUCTION IMPLEMENTATION	TRACKED ACTION ITEM	
OVERVIEW	TRACKED INFORMATION	N ITEM
MIDLAND NUCLEAR PLANT J.O. NO. 14509	TRACKED RECOMMEND	ATION ITEM
REFERENCE(S)	UNTRACKED ITEM	
ANSI N45.2 Section 7	HOLD POINT NOTIFICA	TION
CONDITION DETAILS		
The following approved B&W NDE procedures lack consister procedure, page and revision number as applicable. A) Procedure NDE PQ-RT - 200 \(\text{\Delta}\) consist of 3 pages Page 1 of 3 reads: NDE-PQ-RT-200 Page 1 of 3 Revision Page 2 of 3 reads: 9T-RT-200 Page 2 of 3 No Revision Page 3 of 3 reads: 9T-RT-200 Page 3 of 3 No Revision Page 3 of 3 reads: 9T-RT-200 Page 3 of 3 No Revision Pages 2 of 3 and 3 of 3 lack procedure number and recommendation of two pages Pages 1 & 2 lack page number	ion 1 n specified n specifiet	
What action is being taken to resolve the identified inconsistencies?	YES NO'S) E	NO D
DATE RESPONSE REQ'D. INIT'ATOR/DATE 4-23-84 Concal E Horing &4-11-84	SINTIATION APPROVEDIDAT	TE EK 4-11-84
RESPONSE (SEE NOTE)	7,	
Attached Bechtel Letter BCCC-9287 dated April 30, 1984 CPCo SMO and determined to provide a complete response	has been reviewed by to this item.	
<pre>*(Follow up closeout verification) On 5-30-84, the following was verified and found satis A) NDE-PQ-RT-200, Rev 1, Page 2 of 3 & Page 3 of 3 h</pre>	have been annotated with	
The above verification as viewed in B&W controlled QC manual no. 22 CPCo.	YES NOS) 9	□ NO
EST. CORRECTIVE ACTION RESPONDENT TITLE COMPLETION DATE NA 977 - 66 Hs	st. Cost Set	ATE 5/9/84
RESPONSE ACCEPTED DATE RESPONSE V	- 11 · 200	ATE 5/31/94

NOTE - FOR TRACKED ACTION ITEMS ONLY, EXPLAIN CLEARLY OR REFERENCE ATTACHMENTS FOR

1) CAUSE OF OBSERVED CONDITION 2) CORRECTIVE ACTION TAKEN 3) PREVENTIVE ACTION TAKEN

Bechtel Power Corporation

Post Office Box 2167 Midland, Michigan 48640 April 30, 1984



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

Attention: D. L. Quamme

Site Manager

Midland Plant Units 1 & 2 Bechtel Job 7220 STONE & WEBSTER OVERVIEW ITEM NO. 072 BCCC-9287

Dear Mr. Quamme:

This is considered as Construction's final response to Stone and Webster Overview Item No. 072.

Procedure NDE-PQ-RT-200 Revision 1, Page 2 of 3 and Page 3 of 3, have been annotated with PQ-RT-200 Revision 1.

Procedure NDE-PQ-RT-201 Revision 1, Page 2 of 3 and Page 3 of 3, have been annotated with PQ-RT-201 Revision 1.

Procedure NDE-PQ-RT-202 Revision 0, Pages 1 and 2 have been page numbered.

If you have any questions, please contact John Russell at extension 7594.

Very truly yours,

iery clary yours

G. A. Hierzer

GAH/JER/ajd

Attachments: 1) NDE-PQ-RT-200, Rev. 1

2) NDE-PQ-RT-201, Rev. 1

3) NDE-PQ-RT-202, Rev. 0

cc: N. Reichel

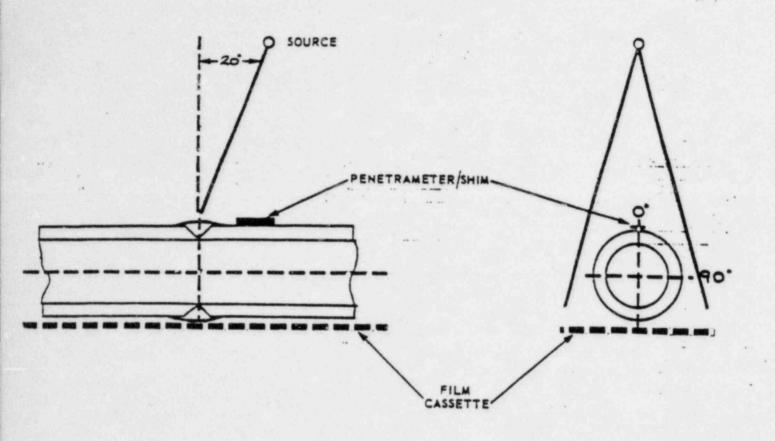
NONDESTRUCTIVE EXAMINATION

RADIOGRAPHIC PROCEDURE QUALIFICATION

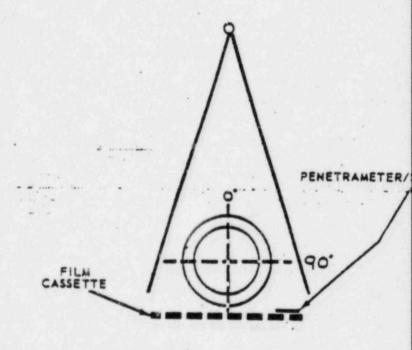
MATERIAL TYPE Carbon, Low Alloy & Stainless Steels
MATERIAL THICKNESS .150"
MATERIAL THICKNESS RANGE CERTIFIED .150" through 3-1/2"
TYPE OF RADIATION SOURCE
PHYSICAL SIZE OF ISOTOPE SOURCE010 x .010 (effective source size .141)
MINIMUM SOURCE TO FILM DISTANCE See Attached Sketch
FILM DISTANCE TO OBJECT
FILM TYPE & BRAND Type 1, Dupont 45
NUMBER OF FILM IN CASSETTE TWO
FILM TO BE VIEWED Single
TYPE & THICKNESS OF SCREENS & FILTERS010 lead screens front and back.
BLOCKING & MASKING IF USED None
GEOMETRIC ARRANGEMENTS FOR THE RADIOGRAPHS (SKETCH) See Attached Sketch.
ORIENTATION OF LOCATION MARKERSSee Attached Sketch
INTERNAL MARKERS None
WELDING PROCESS Manual Gas Tungsten Arc and/or Shielded Metal Arc Welding
APPROVED BY CATE TO DATE 4-16-75 IDENTIFICATION:
NDE-PQ-RT-200
WITNESSED BY H. M. JOURN DATE 4-16-75 REV. 1
HSB- ohio-1143 Page 1 of 3

Item 072 Attachment 1 Page 3 of 9

INSPECTION SKETCH



PIPE DIAMETER: .841
WALL THICKNESS: .150
SOURCE TO FILM DISTANCE: 12"

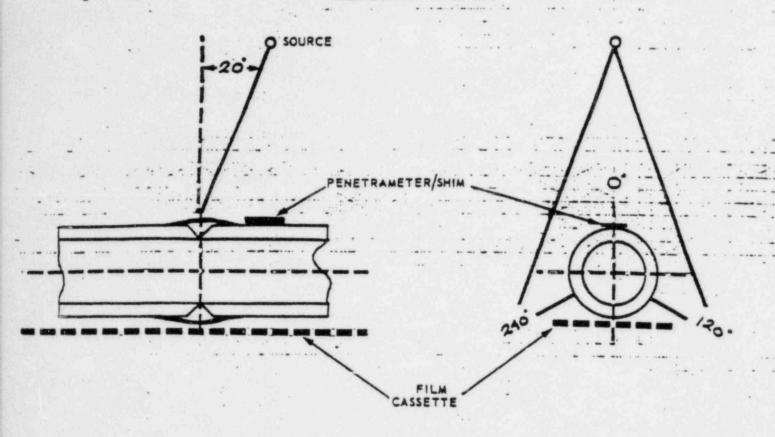


Subject:	RADIOGRAPHIC EXAMINATION OF CIRCUFERENTIAL BUTT WELDS	Contract N/A
	USING IRIDIUM-192	Sketch byR. C. SULZER
		SUPPLEMENTS REPORT OF INSPECTION
Stortch N	o. N/A Revision N/A	Number NDE-PQ-RT-200, Rev. 1

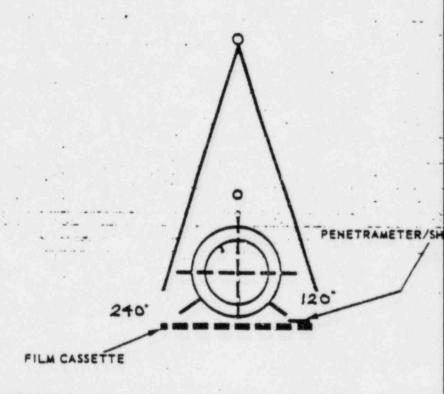
BABCOCK & WILCOX _____

Item 072 Attachment 1 Page 4 of 9

INSPECTION SKETCH



PIPE DIAMETER: .841
WALL THICKNESS: .150
SOURCE TO FILM DISTANCE: 12"



S	sbject:	RADIOGRAPHIC EXAMINATION OF
	USING IRIDIUM-192	

Contract N/A

Sketch by R. C. SULZER

SUPPLEMENTS REPORT OF INSPECTION

Statch No. N/A

Restrict N/A

Number NDE-PO-RT-200, Rev. 1

NONDESTRUCTIVE EXAMINATION

RADIOGRAPHIC PROCEDURE QUALIFICATION

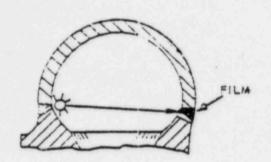
MATERIAL TYPE Carbon, Low Alloy, & Stainless Steel	
MATERIAL THICKNESS 2" thru 6", inclusive	
MATERIAL THICKNESS RANGE CERTIFIED 2" to Maximum to be Radio	graphed
TYPE OF RADIATION SOURCE Cobalt 60	
PHYSICAL SIZE OF ISOTOPE SOURCE125 Diameter Sphere	
MINIMUM SOURCE TO FILM DISTANCE 14"	
FILM DISTANCE TO OBJECT Intimate Contact	
FILM TYPE & BRAND Type 1, Dupont 55 Type II, Dupont 65	
NUMBER OF FILM IN CASSETTE As required, two film min.	
FILM TO BE VIEWED Single or composite, as required	
TYPE & THICKNESS OF SCREENS & FILTERS 010 lead screens, front	and back
BLOCKING & MASKING IF USED None	
GEOMETRIC ARRANGEMENTS FOR THE RADIOGRAPHS (SKETCH) See Attach	ed Sketch
ORIENTATION OF LOCATION MARKERS See Attached Sketch	
INTERNAL MARKERS None	
WELDING PROCESS Submerged Arc Welding	
AFFROVED BY	DENTIFICATION:
BAW CONSTRUCTION COMPANY	NDE-PQ-RT -201
WITHESSED BY 71 M TOZEN NB. 2506DATE 8 - 8 - 75	REV. 1
	Page 1 of 3

RADIOGRAPHIC LAYOUT REACTOR COOLANT PUMPS

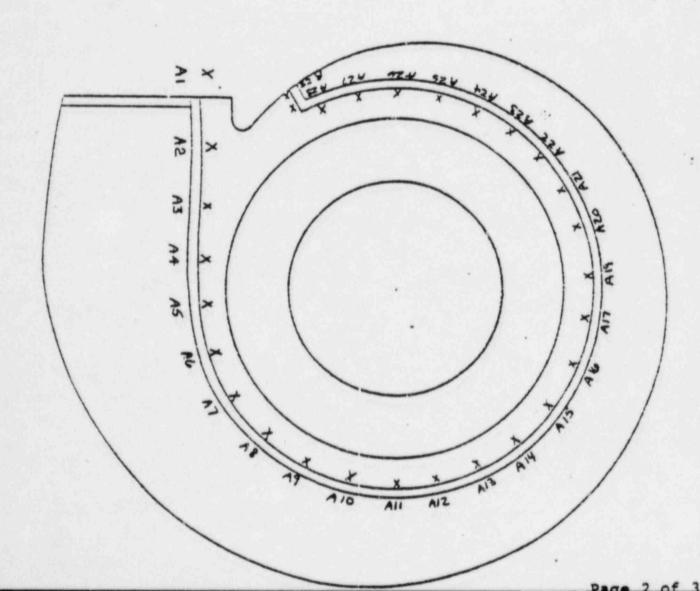
IBI

TOP YELD

SOTTOM WELD X



The maximum geometric unsharpness for material thickness up to 4" is .027.

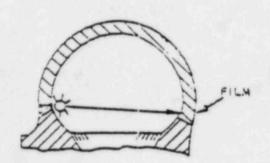


RADIOGRAPHIC LAYOUT REACTOR COOLANT PUMPS

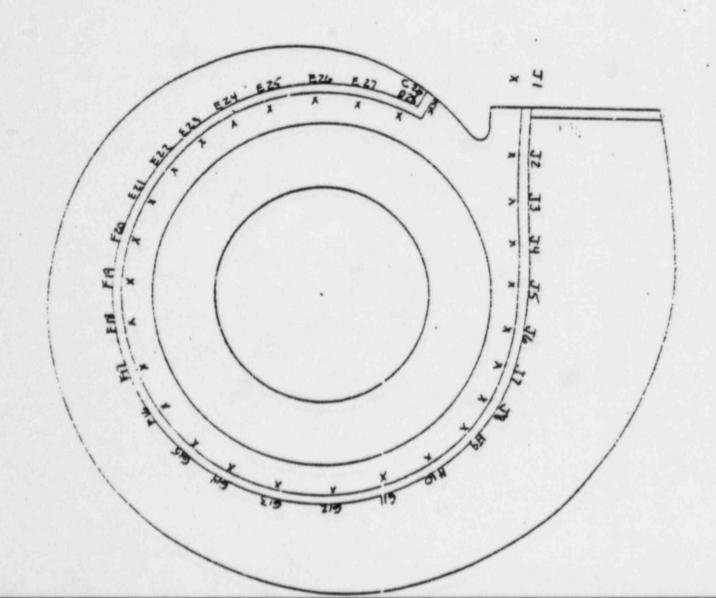
181

BOTTOM WELD

TOP YELD



The maximum geometric unsharpness for material thickness up to 4" is .027.

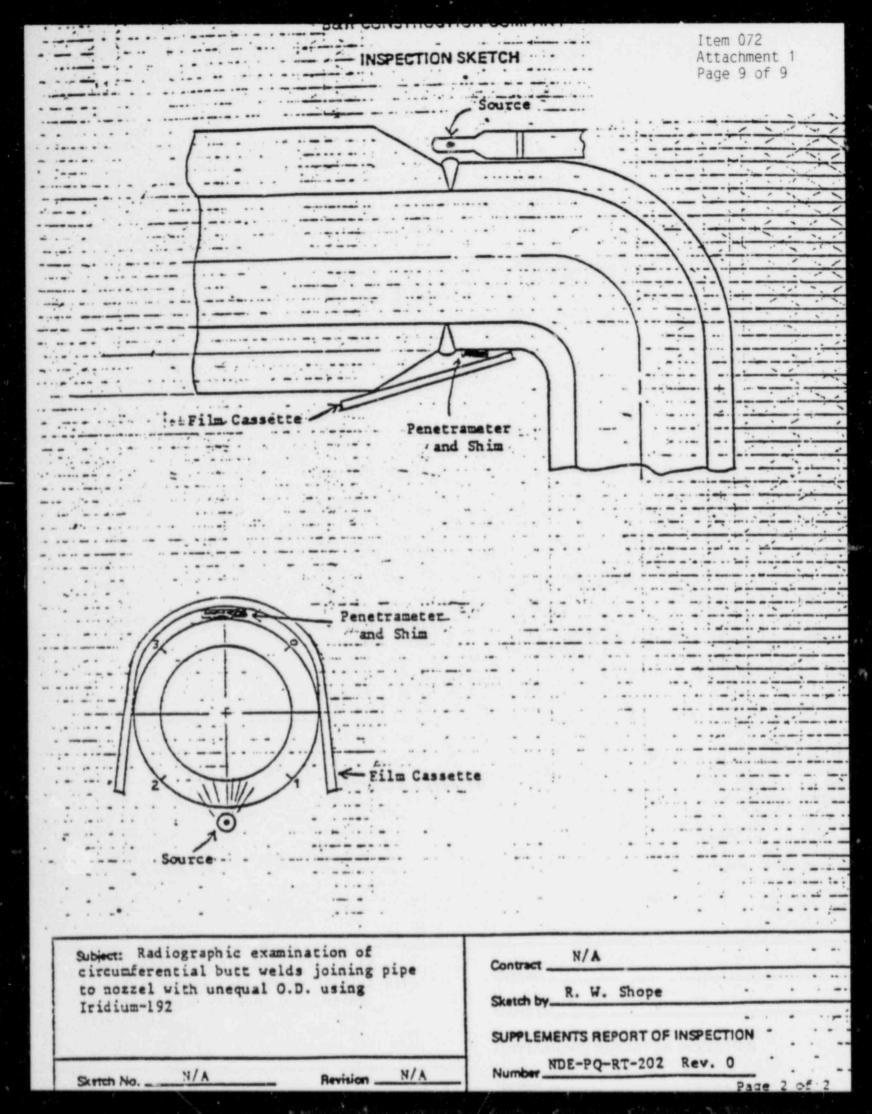


NONDESTRUCTIVE EXAMINATION

Item 072 Attachment 1 Page 8 of 9

RADIOGRAPHIC PROCEDURE QUALIFICATION

MATERIAL TYPE Carbon, Low Alloy & Stainless Steels	
MATERIAL THICKNESS .300" to .425	
MATERIAL THICKNESS RANGE CERTIFIED .300" through 3.500"	
TYPE OF RADIATION SOURCE Iridium-192	
PHYSICAL SIZE OF ISOTOPE SOURCE100" x .100" (Effective source s	ize .141)
MINIMUM SOURCE TO FILM DISTANCE 3.875" min. 4.250 max	•
FILM DISTANCE TO OBJECT .500" max. Source to object 3.	200" min.
FILM TYPE & BRAND Type 1, Kodak "M"	
NUMBER OF FILM IN CASSETTE Two	
FILM TO BE VIEWED Single	
TYPE & THICKNESS OF SCREENS & FILTERS 010" lead screens front & b.	ack
BLOCKING & MASKING IF USED None	
GEOMETRIC ARRANGEMENTS FOR THE RADIOGRAPHS (SKETCH) See attached	sketch
ORIENTATION OF LOCATION MARKERS See attached sketch	
INTERNAL MARKERS None	
WELDING PROCESS Manual Gas Tungston Arc and/or Shielded Meral Arc	welding
APPROVED BY Rai Shope DATE 6-5-80	IDENTIFICATION:
SEW CONSTRUCTION COMPANY	NDE-PQ-RT-202
WITNESSED BY STOR STECTOR STECTOR	REV0
NB 8524	



ITEM/HOLD POINT NOTIFICATION FORM

Sheet 1 of 1

REFERENCE(S) ANSI N45.2 Section 687 B&W OA Manual Revision 3		
OVERVIEW MIDLAND NUCLEAR PLANT J.O. NO. 14509 REFERENCE(S) ANSI N45, 2 Section 587 88W OA Manual Revision 3	CONCEDUCTION IMPLEMENTATION	TEM NUMBER HOLD POINT NUMBER
REFERENCE(S) ANSI N45.2 Section 687 B&W OA Manual Revision 3	CONSTRUCTION IMPLEMENTATION	TRACKED ACTION ITEM
REFERENCE(S) ANSI N45.2 Section 687 B&W OA Manual Revision 3	OVERVIEW	TRACKED INFORMATION ITEM
ANSI N45.2 Section 687 B&W OA Manual Revision 3 B&W QA Manual Revision 3 Section 9-QA-09.3 Revision 0 dated 8/13/82 Paragraph 1 inpart states. "NDE Procedures shall be demonstrated to the ANI at the jobsite prior to use." Observation: NDE Procedure NDE-PQ-MT-201 Revision 0 consist of two pages. Page 1 of 2 applies to MT of an as welded (wire brush surface). Page 1 of 2 bears B&W Level III and ANI signatures. Page 2 of 2 applies to the MT of base metal (wire brushed). Page 2 of 2 provides space for the NDE Level III & ANI signatures, however, such signatures are not affixed. Does B&W have documentation supporting demonstration of NDE-PQ-MT-201 Revision. Does B&W have documentation supporting demonstration of NDE-PQ-MT-201 Revision. DATE RESPONSE REO'D. INITIATOR/PATE 4-23-84 RESPONSE (SEE NOTE) Attached Bechtel Letter BCCC-9288 dated April 30, 1984 has been reviewed by CPCo SMO and determined to provide a complete response to this item. *(Follow up closeout verification)		TRACKED RECOMMENDATION ITEM
ANSI N45.2 Section 687 B&W OA Manual Revision 3		UNTRACKED ITEM
B&W QA Manual Revision 3 Section 9-QA-09.3 Revision 0 dated 8/13/82 Paragraph 1 inpart states. "NDE Procedures shall be demonstrated to the ANI at the jobsite prior to use." Observation: NDE Procedure NDE-PQ-MT-201 Revision 0 consist of two pages. Page 1 of 2 applies to MT of an as welded (wire brush surface). Page 1 of 2 bears B&W Level III and ANI signatures. Page 2 of 2 applies to the MT of base metal (wire brushed). Page 2 of 2 provides space for the NDE Level III & ANI signatures, however, such signatures are not affixed. Does B&W have documentation supporting demonstration of NDE-PQ-MT-201 Revision Page 2 of 2 to the ANI at the jobsite? DATE RESPONSE REQ'D. INITIATOR/PATE 4-23-84 RESPONSE (SEE NOTE) Attached Bechtel Letter BCCC-9288 dated April 30, 1984 has been reviewed by CPCo SMO and determined to provide a complete response to this item. *(Follow up closeout verification)		HOLD POINT NOTIFICATION
Observation: NDE Procedures shall be demonstrated to the ANI at the jobsite prior to use." Observation: NDE Procedure NDE-PQ-MT-201 Revision 0 consist of two pages. Page 1 of 2 applies to MT of an as welded (wire brush surface). Page 1 of 2 bears 8&W Level III and ANI signatures. Page 2 of 2 applies to the MT of base metal (wire brushed). Page 2 of 2 provides space for the NDE Level III & ANI signatures, however, such signatures are not affixed. Does 8&W have documentation supporting demonstration of NDE-PQ-MT-201 Revision. Page 2 of 2 to the ANI at the jobsite? DATE RESPONSE REQ'D. INITIATOR/PATE 4-23-84 RESPONSE (SEE NOTE) Attached Bechtel Letter BCCC-9288 dated April 30, 1984 has been reviewed by CPCo SMO and determined to provide a complete response to this item. *(Follow up closeout verification)		
applies to MT of an as welded (wire brush surface). Page 1 of 2 bears B&W Level III and ANI signatures. Page 2 of 2 applies to the MT of base metal (wire brushed). Page 2 of 2 provides space for the NDE Level III & ANI signatures, however, such signatures are not affixed. Does B&W have documentation supporting demonstration of NDE-PO-MT-201 Revision Page 2 of 2 to the ANI at the jobsite? Page 2 of 2 to the ANI at the jobsite? NO ATTACHMENTS Page 2 of 2 to the ANI at the jobsite? NO ATTACHMENTS	B&W QA Manual Revision 3 Section 9-QA-09.3 Revision 0 dated states. "NDE Procedures shall be demonstrated to the ANI as	d 8/13/82 Paragraph 1 inpart t the jobsite prior to use."
Page 2 of 2 to the ANI at the jobsite? Page 2 of 2 to the ANI at the jobsite? Page 2 of 2 to the ANI at the jobsite? Page 2 of 2 to the ANI at the jobsite? Page 2 of 2 to the ANI at the jobsite? Page 2 of 2 to the ANI at the jobsite? ATTACHMENTS ATTACHMENTS ANITIATION APPROVED/DATE APPROVED/DATE AUGUST Page 2 Page 2 of 2 to the ANI at the jobsite? INITIATION APPROVED/DATE Page 2 of 2 to the ANI at the jobsite? ATTACHMENTS INITIATION APPROVED/DATE AUGUST Page 2 Page 2 of 2 to the ANI at the jobsite? ATTACHMENTS AUGUST Page 2 Page 2 Page 3 Page 3 Page 4 Page 5 Page 6 Page 6 Page 6 Page 6 Page 7 Page 7 Page 8 Page 8 Page 8 Page 9 Page 8 Page 9 Page 9	applies to MT of an as welded (wire brush surface). Page 1 ANI signatures. Page 2 of 2 applies to the MT of base meta provides space for the NDE Level III & ANI signatures, how	of 2 bears B&W Level III and 1 (wire brushed). Page 2 of 2
DATE RESPONSE REO'D. INITIATOR/PATE 4-23-84 RESPONSE (SEE NOTE) Attached Bechtel Letter BCCC-9288 dated April 30, 1984 has been reviewed by CPCo SMO and determined to provide a complete response to this item. *(Follow up closeout verification)	Does B&W have documentation supporting demonstration of Page 2 of 2 to the ANI at the jobsite?	NDE-PQ-MT-201 Revision
ATTACHMENTS DATE RESPONSE REO'D. INITIATOR/DATE 4-23-84 RESPONSE (SEE NOTE) Attached Bechtel Letter BCCC-9288 dated April 30, 1984 has been reviewed by CPCo SMO and determined to provide a complete response to this item. *(Follow up closeout verification)		
Attached Bechtel Letter BCCC-9288 dated April 30, 1984 has been reviewed by CPCo SMO and determined to provide a complete response to this item. *(Follow up closeout verification)		The state of the s
Attached Bechtel Letter BCCC-9288 dated April 30, 1984 has been reviewed by CPCo SMO and determined to provide a complete response to this item. *(Follow up closeout verification)		
Attached Bechtel Letter BCCC-9288 dated April 30, 1984 has been reviewed by CPCo SMO and determined to provide a complete response to this item. *(Follow up closeout verification)	DATE RESPONSE REG D.	1 / 1
*(Follow up closeout verification)	RESPONSE (SEE NOTE)	
	Attached Bechtel Letter BCCC-9288 dated April 30, 1984 CPCo SMO and determined to provide a complete response	has been reviewed by to this item.
On 5-30-84, the following was verified and found satisfactory: A) B&W Procedure NDE-PQ-MT-201, Rev 0, Page 2 of 2 has been annotated with the following statement in the approval witness section: "See Page 1 of 2 for signature" B) B&W Site Authorized Nuclear Inspector confirmed his agreement that NDE-PQ-MT-201, Rev 0, Page 2 of 2 is satisfactory.	On 5-30-84, the following was verified and found satis A) B&W Procedure NDE-PQ-MT-201, Rev 0, Page 2 of 2 has following statement in the approval witness section "See Page 1 of 2 for signature" B) B&W Site Authorized Nuclear Inspector confirmed his	been annotated with the
Note: Item (A) as viewed in OC manual no. 22 CPCo (PAGE	Note: Item (A) as viewed in QC manual no. 22 CPCo.	
The state of the s		THES WOS
X YES NO.8) 7 NO		ATTACLIMENTO
ATTACHMENTS		
EST. CORRECTIVE ACTION RESPONDENT TITLE DATE	EST. COMMEDITE ACTION	
ATTACHMENTS	EST. COMMEDITE ACTION	
EST. CORRECTIVE ACTION RESPONDENT TITLE DATE	COMPLETION DATE NA DIT De les HS	st. Const. Sort. 5/9/89

NOTE - FOR TRACKED ACTION ITEMS ONLY, EXPLAIN CLEARLY OR REFERENCE ATTACHMENTS FOR

1) CAUSE OF OSSERVED CONDITION 2) CORRECTIVE ACTION TAKEN 3) PREVENTIVE ACTION TAKEN

Bechtel Power Corporation

Post Office Box 2167 Midland, Michigan 48640 April 30, 1984



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

Attention: D. L. Quamme Site Manager

> Midland Project Units 1 & 2 Bechtel Job 7220 STONE & WEBSTER OVERVIEW ITEM NO. 073 BCCC-9288

Dear Mr. Quamme:

This is Construction's complete response to Stone & Webster Overview Item No. 073.

B&WCC Procedure NDE-PQ-MT-201, Revision 0, Page 2 of 2 has been annotated with the following statement in the approval and witness section, "For signature see Page 1 of 2."

In regard to the question of site demonstration of the MT procedure, the following is offered.

The B&WCC site ANI was satisfied with the procedure as accepted by another Hartford Steam Boiler Inspection and Insurance Company ANI at the B&WCC Home Office. Attached is a copy of the B&WCC log with the ANI's initials signifying his review of the procedure.

If you have any questions, please contact John Russell at extension 7594.

Very truly yours,

G. A. Hierzer Site Manager

GAH/JER/ajd

Attachment: B&WCC Log

cc: N. Reichel



BY NUMBER (+REV _	BYNAMESE	///	/ /	em 073 tachment 1
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MAGNETIC PARTICLE ENAM.				
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9 mr. 102 Au 3	NOE. 134.47-200	4/21/81	PRIO METERS OF MAG ANTREL SLAM . MERSIALES SIA-OTIOS Com word PAIR PORTS.	Na
9MT-103-7EU 3	NOE-PY-MT-200	412181	PROD METHOD of may paricle temm exceptance standing FOR BASE MATTERING	Cla
Va.m. 1041- 22	40E-00-m-201	ylzile i	YOKE METHOD OF EMPINE TION AND ACCOST, TAKE STANDARDS	7
19-MT-105-Rev 3	WDE-201-201	4/21/81	Yoke METHOD of MAG- PARTICLE ECAM + NOCE TANCE STANDINGS FOR DASE PROTECTIONS.	M.
q.mr. 100 news	WA	N/A	1.125-240 A	NA
9 MT-107 ROJC	w(+	NIA	8002 8002	NIA
9m+109 Rev 4	NDE-PQ-MT-200		ATTE SE ! = 1976	*
(GENERAL PROCEDURE FOR LIGHE PEREZENT ZEAM)	NIA	4/21/81	This sensial preconcile Shall be used in Conjunction when the gir include management	7
9 PT-101 Ro 2	(CE) 00 5- 24- 06- 304	4/23/61	heard fractions neised de services and hard	2
9 PT 102	NOE-PG - PT-20(*1)	ulalei	Legar Dernessen - mond of examination and exerptance standards for weld odge preparation	0