



U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

General Offices: 212 West Michigan Avenue, Jackson, MI 49201 • (517) 788-0550

January 15, 1982

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U. S. Nuclear Regulatory
Commission
Atomic Safety & Licensing
Board Panel
Washington, D.C. 20555

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Washington, D. C. 20555

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Ralph S. Decker
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Cambridge, MD 21613

Gentlemen:

Attached are copies of reports of audits recently conducted by the Midland Project Quality Assurance Department. As per your request, I will continue to forward copies of all MPQAD audit reports as they are issued.

Very truly yours,

James E. Brunner

James E. Brunner

cc OM-OL Service List

8408150577 840718
PDR FOIA
RICE84-96 PDR

II
Robert Thessin
Hodgdon / Blume
Wilcove / Chandler
Rutberg
FF

RE: Midland OM-OL Proceedings
Docket Nos. 50-329, 50-330

LEGAL DEPARTMENT

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Vice President
and General Counsel

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Allen B. Bass
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MAR 5 1982



Consumers
Power
Company
QA23-0

AUDIT REPORT

PROJECTS, ENGINEERING
AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

PAGE 1 of 3

ICN:			AUDIT NO:
HAllen	GSKeely	RAWells	M-03-300-1
GRAnderson	BWMaruglio	JLWood	FILE NUMBER:
WRBird	DBMiller	ALAB (2)	18.4.9
JWCook	JARutgers	WJLee	DATE OF AUDIT:
RDDavis	ALPucci	JEBrunner (for ASLB)	12/14/81 through 12/18/81
JRDecker	ESmith		ORGANIZATION AUDITED:
MADietrich	DATaggart		B & W Construction Company
ARGort	DMTurbull		PLANT & PROJECT:
SIGN. OF AUDIT TEAM LEADER/DATE:			Midland 1 and 2
<i>Rugg R. Anderson Dec 30, 1981</i>			
APPROVED BY/DATE:			
<i>Trigata 1/4/82</i>			

I. SCOPE AND OBJECTIVE

The scope and objective of this audit was to verify B&W Construction Company's NSSS System Installation. This was performed by verifying implementation of B&W Construction Company's Quality Control Procedures and Field Construction Procedures.

II. AUDIT TEAM

G R Anderson - Audit Team Leader
H L Allen - Technical Specialist
R D Davis - Auditor
J R Decker - Auditor-in-Training
A R Gort - Auditor
A L Pucci - Observer

RECORDED

JAN 07 1982

MIDLAND PROJECT
MANAGEMENT

III. PERSONNEL CONTACTED DURING AUDIT

Name	Company	Title	Attended Entrance Mtg	Attended Exit Meeting
M A Dietrich	BPCo	PQAE		X
T W Davis Jr	B&WCC	Asst Q C Supervisor	X	X
W G Hall	B&WCC	Project Engineer	X	X
W J Lee	B&WCC	Project Manager	X	X
W G Linn	B&WCC	Contract Coordinator	X	X
S M Love	BPCo	Sr Contract Coordinator		X
S Smith	BPCo	Contract Coordinator	X	
S L Taulbee	B&WCC	Quality Control Supervisor	X	X

IV. AUDIT SUMMARY

- A) A pre-audit entrance meeting was held on 12/14/81 with personnel in attendance as noted in Paragraph III. The audit team was introduced and the audit scope, plan, schedule and proposed audit exit meeting were discussed.
- B) Audit Checklists were developed from the following B&WCC Procedures.

9-QPP-101	9-SS-100	FCP-103-B	FCP-298
9-QPP-102	9-GEM-100	FCP-104-B	FCP-338
9-QPP-111	9-RP-100	FCP-285-B	FCP-366
9-QPP-126	FCP-54	FCP-286-B	FCP-397
9-CP-100	FCP-948	FCP-287-B	FCP-405
9-CP-101	FCP-102-B	FCP-297-B	

- C) The audit resulted in nine (9) findings which are attached to this report. Seven (7) findings were issued open and two (2) were issued closed.
- D) The following observations were made as a result of this audit:
1. A review of FCP-102B, for the Unit Two snubbers 2-F1 (right) and 1-F1 (left), was performed. The auditor questioned a hand written entry on the FCP which referenced 1-F1, which is the twin snubber from Unit One. B&W answered the question by showing the auditor a copy of NCR 1792, which documented damage that had occurred to the Unit Two snubber and the justification for replacing it with the snubber from Unit One. It was recommended that NCR 1792 be referenced in FCP-102B as documented evidence of the change out.
 2. On the requalification record for the 3/4" shoe for pipe bending, under wall thickness reduction, entry .215" was changed to .017", this was done without signing and dating. This entry should be verified, signed and dated.
 3. B&W Quality Control Procedure 9-QPP-102, Section 2.4 requires the Torque Device Serial Number be recorded. Contrary to this, FCP-423, Rev 0 for Unit Two, Sequence 650 does not have the Torque Device Serial Number recorded.
 4. Sign-off for Sequence 060 and 080 C for FCPs 366 and 338 is not consistent. FCP-338 reflects measuring equipment calibration due date, FCP-366 does not. Calibration due date is not a requirement per QPP-102.
 5. During walk through surveillance of storage and maintenance activities for Unit One Steam Generators, it was noted that Inspection Port Covers on secondary side were not secured properly. Work activity had been temporarily suspended pending engineering evaluation of cracked Tac-welds on baffle plate bolts.

Measure should be taken to ensure craftsmen adhere to requirements of 9SS-100, paragraph 3.b during the interim time the work activity is suspended.
 6. FCP-38 and FCP-46, "Valve Inspection Checklist", Sequence 040 is for correction of deficiencies. There is not consistency in signing off this step, such indicators as "OK" or "√" are used. Therefore, there is no indication of what deficiencies have been resolved.
 7. FCP-38 (Maintenance and Inspection of Motor Operated Valves), Inspection Checklist, Sequence 020 dated 2/18/81, indicates two bolts missing from the cover. Valve inspection checklist 5/19/81 notes that bolts are missing, but it appears someone else noted it on the checklist in pencil without date or initials. From the different methods used to fill out the valve checklist, it is difficult to determine if there is or is not a requirement to correct a deficiency.



AUDIT REPORT

CONFIDENTIAL REPORT

8. While verifying as-built condition of small bore piping, numerous mishandling marks (sharp vise jaw marks) were noted on piping assemblies 1CCA-46-1 and 2CCA-53-1. While this condition apparently is not rejectable per B&WCC QC Procedures or ASME Section III, the vise jaw marks detract from B&W's generally fine workmanship.

MPQAD recommends that B&W rework jaw plates on their bench vises and pipe turning/threading machines, or use suitable padding material to prevent future mishandling marks.

9. Unresolved item:

See attached URI M-03-300-1-10.

Pipe section between 1CCA-33-2 FW 5 and 1CCA-33-2 FW 6 appears to exhibit small red rust spots. Subject pipe is 1" stainless steel, possibly contaminated by contact with carbon steel during storage and handling. B&W to evaluate validity of this item and determine root cause.

- E) An exit meeting was held on Friday, December 18, 1981, with attendance as noted in Paragraph III. Draft audit findings and observations were presented and discussed with the attendees.
- F) Responses to the audit findings shall be directed to BPCo Subcontracts group for transmittal to Consumers Power Quality Assurance.

V. EVALUATION OF EFFECTIVENESS

Several areas within the scope of this audit were found to be in need of attention and improvement. These areas are identified in the audit finding reports. All other areas covered in the scope of this audit were implemented correctly.

VI. LIST OF ATTACHMENTS

- A) Audit Finding Reports M-03-300-1-01 through M-03-300-1-09.
B) Unresolved Item M-03-300-1-10.
C) Completed checklists (File copy only).
D) Notification of audit (File copy only).



Consumers
Power
Company
QA50-1

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

Priority: 10 Trend: 0-3, (0-6) SUS: PGMIMM AI: S-1214

AS SECTION VERSUS "AS REQUIRED" / "AS HELD" CONDITION WITH REFERENCES:

B&W Quality Control Procedure 9-QPP-126, Rev 4 "Personnel Qualification - Quality Control Inspectors" paragraph Section 6.1 states, "All Level I, Level II and Level III personnel shall be given a visual examination to assure color vision and natural or corrected near distance acuity such that the individual is capable of reading J-1 letters on the standard Jaeger's test type chart for near vision."

Contrary to the above, the following Quality Control personnel qualification records contain discrepancies:

Technician I - Attachment 1, "Certificate of Personnel Qualification Quality Inspector", states under eye examination record that corrective lenses are not required. However, they were required to pass the examination. Also, the eye examination does not state a color vision test was given.

Technician II - The eye examination record form does not indicate the type of Jaeger test that was performed.

Technician III - the eye examination record documents that this individual failed his color examination and there is no record of re-examination.

AFR SER NO:
M-03-300-1-01 F

PROJ/DEPT AUDITED:
B&W Construction Co

DATE OF ISSUANCE:
December 30, 1981

FILE NUMBER:
18.4.9

DISTRIBUTION:
WRBird ALAB-2
JEBrunner GRANDerson
CMCarlin
JWCook
MADietrich
GSKeeley
BWMarguglio
DBMiller
JARutgers
ESmith
DATaggart
DMTurnbull
RAWells
JLWood

RECOMMENDED CORRECTIVE ACTION:

- B&W provide re-examination to the two individuals to determine color vision or ability to determine the difference in shades and document results.
B&W update eye examination form to reflect the need for corrective lenses.
B&W re-perform eye examination to the Jaeger I test as required.

CORRECTIVE ACTION COMMITMENT:

B&W to respond to the proposed corrective action by February 1, 1982.

DATE OF C/A COMPLETION:
DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A:
B&W Construction Co

PERSON MAKING C/A COMMITMENT:
S Taulbee

METHOD OF VERIFICATION:

IS AF REPORTABLE PER 90.55(a)? YES NO

IF "YES", DATE OF REPORT TO NRC: N/A

IF "YES", NAME OF REPORT TO NRC: N/A

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT: N/A

N/A

AFR ORIGINATOR'S SIGNATURE/DATE:
R. Anderson December 31, 1981

SUPERVISOR'S SIGNATURE/DATE:
Lee P. Howell 1-8-82

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:



Consumers
Power
Company
QASO-0

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

Priority: 10 Trend: 0-3, 0-5 SUS: PGMINM AI: S-1215

AS IS CONDITION VERSUS AS REQUIRED / AS NEEDED CONDITION WITH REFERENCES:

B&W Quality Control Procedure 9-PT-100, Rev 2, "General Procedure for Penetrant Examination" paragraph 4.2 states in part, "...The drying of the test surfaces shall be accomplished by normal evaporation; blotting with paper towels or clean, lint-free cloth. The minimum drying time shall be five minutes." Contrary to the above, an NDE Tech was witnessed on 12/15/81, performing a Penetrant Examination in accordance with 9-PT-106, which references 9-PT-100. The NDE Tech was timed by the auditor during his performance of the examination, the five minute requirement was not adhered to, the actual drying time was less than three minutes.

APP. SER. NO.:	M-03-300-1-02 F
PROJ./DEPT. ABBREVIATION:	B&W Construction Co
DATE OF ORIGINATOR'S:	December 30, 1981
FILE NUMBER:	18.4.9
DISTRIBUTION:	WRBird GRANDerson JEBrunner ALAB-2 CMCarlin JWCook MADietrich GSKeeley BWMarguglio DBMiller JARutgers ESmith DATaggart DMTurnbull RAWells JLWood

RECOMMENDED CORRECTIVE ACTION:

- 1) All B&W NDE personnel be given a course on procedure adherence.
- 2) Re-examine the NDE Technician on B&W Penetrant Procedures.
- 3) B&W perform a re-examination of a representative sample of the penetrant examinations that have been performed by the subject NDE Technician.

CORRECTIVE ACTION COMMITMENT:

B&W to respond to the proposed Corrective action by February 1, 1982.

DATE OF C/A COMPLETION:

ORG. RESP FOR C/A:

PERSON MAKING C/A COMMITMENT:

DATE OF C/A EFFECTIVENESS:

B&W Construction Co

S Taulbee

METHOD OF VERIFICATION:

IS AF REPORTABLE PER 50.55(*):

YES NO

IF "YES", DATE OF REPORT TO NRC:

N/A

IF "YES", TIME OF REPORT TO NRC:

N/A

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

N/A

IF "YES", WHO MADE REPORT:

N/A

APP. ORIGINATOR'S SIGNATURE:

Anna R. Anderson December 31, 1981

SUPERVISOR'S SIGNATURE:

Lu D. Taulbee 1-4-82

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:



Consumers
Power
Company
QA50-1

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

Priority: 10 Trend: 0-3, 0-8 SUS: PCNTMM AT: S-1216

EDITION VERSUS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCE

i N45.2.2-1972 "Packaging, Shipping, Receiving, Storage and Handling of items for Nuclear Power Plants" Paragraph 6.2.2 - "Cleanliness and Housekeeping Practice", states, "Cleanliness and good housekeeping practices shall be enforced at all times in the storage areas. The storage areas shall be cleaned as required to avoid the accumulation of trash, discarded packaging materials and other detrimental soil."

Contrary to the above, the Fabrication shop where Class One Piping, Fittings and Valves are in temporary storage prior to fabrication was unclean, piping, sub-assemblies stored in contact with the floor unidentified pipe sections in contact with floor and discarded weld filler material in the area.

ANSI N45.2.2-1972, Paragraph 6.4.2.1 states, "Items in storage shall have covers, caps, plugs or other closures intact. Methods used to seal openings shall be in accordance with Section Three of this standard."

Contrary to this, the Fabrication Shop has Class One Valves and Piping with uncapped/unsealed openings, which has allowed dirt to enter inside.

APP SER NO:	M-03-300	1-3 F
PROJ/DEPT AGENCY:	B&WCC	
DATE OF ISSUANCE:	12/30/81	
FILE NUMBER:	18.4.9	
DISTRIBUTION:	WRBird JEBrunne CMC/KFH JWCook MADietri GSKeele BWMargu DBMille JARutge ESMith DATagg DMTurnb RAWells JLWood ALAB (2)	GRAnderson

RECOMMENDED CORRECTIVE ACTION:

- 1) Clean Fabrication Shop to comply with ANSI N45.2.2. - 1972.
- 2) B&W should inspect open piping and valves for cleanliness, reclean if necessary, and cap in accordance with ANSI N45.2.2 - 1972.

CORRECTIVE ACTION COMMITMENT:

B&W to respond to the proposed Corrective Action by February 1, 1982.

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A:

B&WCC

PERSON MADE C/A COMMITMENT:

S Taul

METHOD OF VERIFICATION:

IS AF REPORTABLE PER 50.55(e):

YES NO

IF "YES", DATE OF REPORT TO NRC:

N/A

IF "YES", TIME OF REPORT TO NRC:

N/A

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT:

N/A

SUPERVISOR'S SIGNATURE/DATE:

APPROVING SIGNATURE/DATE:

W. R. Anderson December 31, 1981

SUPERVISOR'S SIGNATURE/DATE:

VERIFICATION DATE:

Paul Taul 1-2-82



Consumers
Power
Company
QASO-1

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

Priority: 10 Trend: O-3, O-2 SUS: PGMIMM AI: S-1217

SECTION VERSION "AS REQUIRED" / "AS NEEDED" CONDITIONS WITH REFERENCE
B. Quality Control Procedure, 9-BP-100, Rev 3, "Bending of 2 inch or smaller stainless steel pipe" Paragraph 3.2.1 states, "Requalification of bending for each combination of size, schedule, and type of material previously qualified shall be performed in intervals not exceeding one year from the date of approval of the original qualification".

Contrary to the above, Requalification Records for 1981 documenting the requalification of the 1/2 inch and 3/4 inch shoes exceeded their qualification dates. Both of the shoes were initially qualified on October 2, 1980, however, the 1/2 inch was not requalified until October 13, 1981 and the 3/4 inch shoe was requalified on Oct 6, 1981.

APP SER NO:
M03-300-1-4 F

PROJ/DEPT AUDITED:
B&WCC

DATE OF ISSUANCE:
12/30/81

FILE NUMBER:
18.4.9

DISTRIBUTION:

WRBird	GRAnderson
JEBrunner	
CMC/KFH	
MADietrich	
JWCook	
GSKeeley	
BWMarguglio	
DBMiller	
JARutgers	
ESmith	
DAtaggart	
DMTurnbull	
RAWells	
JLWood	
ALAB (2)	

RECOMMENDED CORRECTIVE ACTION:

- 1) Not required. B&W has documented corrective action on a Nonconformance Report.

CORRECTIVE ACTION COMMITMENT:

Not required

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A:

B&WCC

PERSON MAKING C/A COMMITMENT:

S Taulbee

METHOD OF VERIFICATION:

The auditor reviewed the Nonconformance Reports Corrective Action and concurred with the results. This Audit Finding Report is issued closed.

IS AF REPORTABLE PER 50.55(e): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	IF "YES", DATE OF REPORT TO NRC: N/A
IF "YES", TIME OF REPORT TO NRC: N/A	IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:
IF "YES", WHO MADE REPORT: N/A	N/A
AUDITOR'S SIGNATURE/DATE: <i>W. R. Anderson</i> December 31, 1981	SUPERVISOR'S SIGNATURE/DATE: <i>Lee R. Hance</i> 1-2-82
C/A VERIFICATION SIGNATURE: <i>W. R. Anderson</i>	VERIFICATION DATE: December 31, 1981



Consumers
Power
Company
QA50-1

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

Priority: 10 Trend: 0-3 (0-8) SUS: PGMIMM AI: S-1218

CONDITION VERSUS "AS REQUIRED" / "AS HELD" CONDITION WITH REFERENCES:

b Quality Control Procedure 9-CP-101, Rev 3; Attachment 1, states in part, "...No use of tobacco or eating is permitted within a Zone III area."

Contrary to the above, December 15, 1981, persons were observed smoking and drinking coffee within the Zone III area which was established by Field Procedure Unit Two FCP-423, Rev 0 Sequence 001.

APP. SER. NO.:	M03-300-1-5 F
PROJ./DEPT. AUDITED:	B&WCC
DATE OF ISSUANCE:	12/30/81
FILE NUMBER:	18.4.9
DISTRIBUTION:	WRBird GRANDerson CMC/KFH JEBrunner JWCook MADietrich GSKeeley BWMarguglio DBMiller JARutgers ESmith DATaggart DMTurnbull RAWells JLWood ALAB (2)

RECOMMENDED CORRECTIVE ACTION:

- 1) Reinstruct B&W personnel (as applicable) to the Zone requirements established in B&W-QCP, 9-CP-101.
Enforce the Zone III area as required in Field Procedure FCP-423, Rev 0

CORRECTIVE ACTION COMMITMENT:

B&W to respond to the proposed Corrective Action by February 1, 1982.

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A:

B&WCC

PERSON MAKING C/A COMMITMENT:

S Taulbee

METHOD OF VERIFICATION:

IS AF REPORTABLE PER 50.55(*):

YES NO

IF "YES", DATE OF REPORT TO NRC:

N/A

IF "YES", TIME OF REPORT TO NRC:

N/A

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT:

N/A

N/A

REPORTER'S SIGNATURE/DATE:

W. R. Anderson December 31, 1981

SUPERVISOR'S SIGNATURE/DATE:

Ed B. Howell 1-6-82

CORRECTIVE ACTION SIGNATURE:

VERIFICATION DATE:



Consumers
Power
Company
QA50-1

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

Priority: 10 Trend: 0-3, 0-3 SUS: PGMIMM AI: S-1219

CONDITION VERBS "AS REQUIRED" / "AS NEEDED" CONSTRUCTION WITH REFERENCES:

b Field Construction Procedure (Unit Two) FCP-423, Rev 0 and General Electric Drawing 816E331 requires lockwashers to be installed on the Guide Bearing Assembly bolts.

Contrary to the above, the lockwashers were not installed as required in Sequence 640.

APR. REP. NO:
M03-300-1-6 F

PROJ/DEPT AUDITED:
B&WCC

DATE OF ISSUANCE:
12/30/81

FILE NUMBER:
18.4.9

DISTRIBUTION:
WRBird GRAnderson
JEBrunner
CMC/KFH
JWCook
MADietrich
GSKeeley
BWMarguglio
DBMiller
JARutgers
ESmith
DATaggart
DMTurnbull
RAWells
JLWood
ALAB (2)

RECOMMENDED CORRECTIVE ACTION:

None required. Per General Electric's letter dated 12/22/81, which states the lockwashers are not required and the General Electric Drawing 816E331 is being revised to reflect this action.

CORRECTIVE ACTION COMPLIMENT:

Not required.

DATE OF C/A COMPLETION:

ORG. RESP FOR C/A:

N/A

PERSON MAKING C/A COMPLIMENT:

GE's letter to B&W dated 12/22/81

DATE OF C/A EFFECTIVENESS:

METHOD OF VERIFICATION:

This audit finding report is issued closed.

The auditor reviewed General Electric's letter dated 12/22/81 and concurred with the Corrective Action taken.

IS AF REPORTABLE PER 50.55(a):

YES NO

IF "YES", DATE OF REPORT TO NRC:

N/A

IF "YES", TIME OF REPORT TO NRC:

N/A

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT:

N/A

N/A

AFF ORIGINATOR'S SIGNATURE/DATE:

Greg R. Anderson December 31, 1981

SUPERVISOR'S SIGNATURE/DATE:

Lee H. Beaulieu 1-8-82

C/A VERIFICATION SIGNATURE:

Greg R. Anderson

VERIFICATION DATE:

December 31, 1981



Consumers
Power
Company
QA50-1

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

Priority: 10 Trend: 0-3, 0-3 SUS: PGMIMM AI: S-1220

AS "CONDITION VERSUS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCES:

5 Quality Control Procedure, 9-QPP-102, Rev 10, "Field Construction Procedures" Paragraphs 2.3.2.1 and 2.3.2.2 state as follows:
2.3.2.1 "Each change of sequence (out of sequence activity and/or parallel activity) shall be recorded on the FCP resequencing form (see Attachment 6)."
2.3.2.2 "The FCP resequencing form shall be reviewed and approved by the Field Project Engineer (FPE); Field Quality Control Supervisor; and, where applicable, the Welding Supervisor. The resequencing form shall be prepared by supervisory personnel only."

Contrary to the above, while witnessing work being performed in accordance with Field Construction Procedure FCP-423, Rev 0 it was noted that the following sequences were performed out of order:

- 1) Sequence 590 was performed after Sequence 610
- 2) Sequence 740 was performed before Sequence 730.
- 3) Bolts on upper guide bearing were torqued to approx 20-25 ft/lbs in Sequence 620. These bolts were not being installed until Sequence 640.

Contrary to the above requirement Field Construction FCP-297's resequencing form indicates Sequence 050 is to be completed prior to Sequence 090 and signed-off (inspected). However, Sequence 050 has no signoffs completed while Sequence 090 was completed and signed off.

AFR SER NO: M-03-300-1-7 F
PROJ/DEPT AUDITED: B&WCC
DATE OF ISSUANCE: 12/30/81
FILE NUMBER: 18.4.9
DISTRIBUTION:
WRBird ALAB (2)
JEBrunner GRANDerson
CMC/KFH
JWCook
MADietrich
GSKeeley
BWMarguglio
DBMiller
JARutgers
ESmith
DATaggart
DMTurnbull
RAWells
JLWood

RECOMMENDED CORRECTIVE ACTION:

- 1) This type of finding has been previously identified on two prior Audits M-03-06-1, dated 2/20/81 and M-03-42-1, dated 9/9/81.
SW is requested to research and determine the proper "Corrective Action" to prevent recurrence of this finding.

CORRECTIVE ACTION COMMITMENT:

B&W to respond to the proposed Corrective Action by February 1, 1982.

DATE OF C/A COMPLETION:	ORG. RESP FOR C/A: B&WCC	PERSON MAKING C/A COMMITMENT: S Taulbee
DATE OF C/A EFFECTIVENESS:		

METHOD OF VERIFICATION:

IS AF REPORTABLE PER 20.55(*): YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	IF "YES", DATE OF REPORT TO NRC: N/A
IF "YES", TIME OF REPORT TO NRC: N/A	IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED: N/A
IF "YES", WHO MADE REPORT: N/A	
AFR ORIGINATOR'S SIGNATURE/DATE: <i>199 R. Anderson December 31, 1981</i>	SUPERVISOR'S SIGNATURE/DATE: <i>Lee R. House 1-2-82</i>
QUALIFICATION SIGNATURE:	VERIFICATION DATE:



Consumers
Power
Company
QA50-1

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

Priority: 10 Trend: 0-3, 0-3 SUS: PGMIMM AI: S-1221

"AS IS" CONDITION VERSUS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCE:

1. Weld Construction Procedure FCP-297, Rev 2, Sequence Number 060, requires the transferring of Heat Number and sign-off be recorded on Attachment "B" of FCP-297.

Contrary to the above, the Heat Number for Line Item 1-610-2-7 was not recorded on Attachment B.

REF ID: M-03-300-1-8 F

PROJ/DEPT AUDITED:
B&WCC

DATE OF ISSUANCE:
12/30/81

FILE NUMBER:
18.4.0

DISTRIBUTION:
WRBird GRAnderson
JEBrunner
CMC/KFH
JWCook
MADietrich
GSKeeley
BWMarguglio
DBMiller
JARutgers
ESmith
DATaggart
DMTurnbull
RAWells
JLWood
ALAB (2)

RECOMMENDED CORRECTIVE ACTION:

- 1) B&W to record the correct Heat Number on Attachment B.

CORRECTIVE ACTION COMMITMENT:

B&W to respond to the proposed Corrective Action by February 1, 1982.

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A:

B&WCC

PERSON MAKING C/A COMMITMENT:

S Taulbee

METHOD OF VERIFICATION:

IS AF REPORTABLE PER 50.55(a)? YES NO

IF YES, DATE OF REPORT TO NRC: N/A

IF YES, TIME OF REPORT TO NRC: N/A

IF YES, NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF YES, WHO MADE REPORT: N/A

N/A

AFR ORIGINATOR'S SIGNATURE/DATE:
R. Anderson December 31, 1981

SUPERVISOR'S SIGNATURE/DATE:
Leo H. Kowalski 1-2-82

AFR ORIGINATOR SIGNATURE:

VERIFICATION DATE:



Consumers
Power
Company
QA50-1

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT

Priority: 10 SUS: PGM1WM Trend: 0-3 **0-4**

AI: S-1222

AS "AS REQUIRED" CONDITION VERSUS "AS NEEDED" CONDITION WITH REFERENCES:

CP 9-WG-106, Para 3.3.1 states in part, "The welds and adjacent shall be examined for...arc strikes."
B&W QCP 9-WP-200, Para 7.1.4, states, "All arc strikes shall be removed by grinding."

Contrary to the above, numerous arc strikes exist on small bore piping installed in Unit 1, as described below:

- 6 arc strikes on pipe adjacent to joint 1CCA-33-2, FW6
- 3 arc strikes on pipe adjacent to joint 1CCA-46-1, FW7
- 3 arc strikes on pipe between joints 1CCA-47-1, FW 12 & 13
- 1 arc strike on pipe adjacent to joint 1CCA-47-1, FW 16
- 6 arc strikes on tee adjacent to joint 1CCA-47-1, FW8 & 1CCA-37-1,FW4
- 1 arc strike on pipe adjacent to elbow adjacent to joint 1CCA-37-2,FW6
- 1 arc strike on joint 1CCA-37-2-4

Numerous arc strikes also exist on piping assembly 2CCA-53-1, awaiting installation into Unit 2, as listed below:

- 4 arc strikes on tee adjacent to FW17 and FW18
- 1 arc strike on pipe adjacent to FW16
- 4 arc strikes on pipe adjacent to FW24

AFR SER NO: M-03-300-1-9 F	
PROJ/DEPT AUDITED: B&WCC	
DATE OF ISSUANCE: 12/30/81	
FILE NUMBER: 18.4.9	
DISTRIBUTION:	
WRBird	GRAnderson
JEBrunner	RDDavis
CMC/KFH	
JWCook	
MADietrich	
GSKeeley	
BWMarguglio	
DBMiller	
JARutgers	
ESmith	
DATaggart	
DMTurnbull	
RAWells	
JLWood	
ALAB (2)	

RECOMMENDED CORRECTIVE ACTION:

- 1) Repair arc strikes
- 2) B&W to determine root cause of arc strikes and provide documented evidence of actions taken to preclude recurrence.

CORRECTIVE ACTION COMPLIMENT:

B&W to respond to the proposed Corrective Action by February 1, 1982.

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A:

B&WCC

PERSON MAKING C/A COMMITMENT:

S Taulbee

METHOD OF VERIFICATION:

IS AF REPORTABLE PER 29.25(9)?

YES NO

IF "YES", DATE OF REPORT TO NRC:

N/A

IF "YES", TIME OF REPORT TO NRC:

N/A

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

N/A

IF "YES", WHO MADE REPORT:

N/A

AFR ORIGINATOR'S SIGNATURE/DATE:

RDDavis 1-4-82

SUPERVISOR'S SIGNATURE/DATE:

Lee K. Daniel 1-4-82

REPLICATION SIGNATURE:

VERIFICATION DATE:



Consumers
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Company
QA76-0

UNRESOLVED ITEM

PROJECTS, ENGINEERING
AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

Priority: 10

SUS: PGMIMM

Trend: Do Not Trend

AI: S-1223

DESCRIPTION OF UNRESOLVED ITEM:

Pipe section between LCCA-33-2 Field Weld 5 and LCCA-33-2 Field Weld 6 appears to exhibit small red rust spots, possibly due to contamination by contact with carbon steel during storage or handling. Subject pipe is 1" stainless steel.

- 1. URI NO:
MO3-300-1-10 U
- 2. PROJ/DEPT AUDITED:
B&WCC
- 3. DATE OF ORIGINATION:
12/30/81
- 4. FILE NO:
18.4.9
- 5. DISTRIBUTION:
WRBird GRANDerson
JEBrunner ALAB-2
CMCarlin
JWCook
MADietrich
GSKeeley
BWMarguglio
DBMiller
JARutgers
ESmith
DATaggart
DMTurnbull
RAWells
JLWood

7. REQUIRED ACTION:

B&W to evaluate validity of this item and determine root cause.

8. ACTION REQUIRED FROM: B&WCC

9. ACTION REQUIRED BY-DATE: February 1, 1982

10. RESPONSE TO URI:

11. URI ORIGINATOR'S SIGNATURE/DATE:

R.D. Davis 1-4-82

12. SUPERVISOR'S SIGNATURE/DATE:

Lee R. Howell 1-2-82

URI CLOSURE BASED ON:

RECEIPT OF
ACCEPTABLE
RESPONSE

ISSUANCE OF
AFR

14. AFR NO _____

15. CLOSED BY-SIGNATURE/DATE:

DISTRIBUTION: Bakarich WDGreenwell MBSimpson JBaranyi JAHorsch ESmith WRBird MWKirkland DAtaggart JABrown BWMarguglio JLWood JWCook DBMiller LHCurtis CARixford MADietrich JARutgers REField KRSimpson			AUDIT NO: M01-218-1
FILE NUMBER: D2.4.1			
DATE OF AUDIT: December 2-4, 1981			
ORGANIZATION AUDITED: Bechtel - AA Midland Document Control			
SIG. OF AUDIT TEAM LEADER/DATE: <i>RE Field 12-11-81</i>		APPROVED BY/DATE: <i>[Signature] 12/11/81</i>	
PLANT & PROJECT: Midland Plant Units 1 and 2			

RECEIVED
DEC 30 1981

I. OBJECTIVE AND SCOPE

To verify accuracy of the following "MAPPER" applications used by ^{C.D. Co. Leg.} ~~Project~~ Document Control:

- Design Drawing Register
- Design Document Register - MRs/Specs/Misc.
- Change Notice Register - Incorporated and Unincorporated DCNs, FCNs, FCRs, SDDRs, SCNs.

In addition, to determine the status of administrative procedures governing Document Control and to assess the adequacy of retrievability and access control.

II. AUDIT TEAM

- * R E Field - Audit Team Leader (MPQAD)
- * M W Kirkland - Auditor-In-Training (MPQAD)

III. PERSONNEL CONTACTED

- * M N Bakarich Project Administration
- * K R Simpson Project administration
- * M B Simpson Project Administration
- * R C Hollar Project Quality Engineering
- ** K M Baum Project Quality Engineering (part time)
- ** P I Hsieh Staff Reliability (part time)
- * Attended Entrance and Exit Meetings
- ** Attended Exit Meeting only.

IV. ENTRANCE MEETING

An audit entrance meeting was held December 2, 1981, with those shown in II and III above in attendance. The audit plan was presented, finding procedures explained, and communications channels established.



AUDIT REPORT

CONTINUATION SHEET

V. AUDIT SUMMARY

A. Areas Audited

1. A scientific sampling plan (developed with the assistance of Staff Reliability) was used to obtain a degree of confidence in the accuracy of the MAPPER registers listed in I above. The basis for the plan was Military Standard MIL-STD-105D, General Inspection Level II, the single sampling plan for normal inspection. Lot sizes were provided by Project Document Control. Attachment A summarizes the pertinent data.
2. The status of administrative procedures governing the registers listed in I above was discussed, specifically EDPI 4, 46.3, ADP 2.12 and ADI 2.12.3.
3. Document retrievability was assessed during the audit and control of access to document files was discussed.

B. Findings, Unresolved Items, Observations

Within the scope of the audit, one finding, one unresolved item and one observation were identified in the areas of register verification, procedures, and engineering document completeness. See attachments for details.

C. Evaluation

Within the audit scope and with the exception of the items described in B above, Project Document Control appears to be performing in accordance with Project requirements.

VI. EXIT MEETING

An audit exit meeting was held December 4, 1981, with those shown in II and III above attending. The audit results were presented and commitments for corrective action obtained.

VII. CLOSING ITEMS

Written responses are required as follows:

AFR MO1-218-1-01F by January 4, 1982
URI MO1-218-1-01U by February 1, 1982

Please address responses to:

G R Eagle
Supervisor, DQAE
MPQAD-TASK
Ann Arbor



AUDIT REPORT

CONTINUATION SHEET

AUDIT NO: M01-218-1

PAGE 3 OF 3

VIII. ATTACHMENTS

- A. Summary of Register Sampling
- B. AFR No. M01-218-1-01F
- C. URI No. M01-218-1-01U
- D. Observation
- E. Audit Plan (file copy only)
- F. Audit Notification Letter (file copy only)
- G. Audit Worksheets, including Sampling Plan, Random No. Tables, Sample Lists and Results (file copy only)

LOT**	LOT SIZE	SAMPLE SIZE	SAMPLE SIZE CODE	ACCEPT LEVEL	REJECT LEVEL	# ACCEPTED	# REJECTED	LOT STATUS
A	6521	200	L	7	8	197	3	ACCEPT
B	1101	80	J	3	4	78	2	ACCEPT
C	2245	125	K	5	6	122	3	ACCEPT
D	1045	80	J	3	4	78	2	ACCEPT
E	80	13	E	0	1	4	9	REJECT***
F	160	32	G	1	2	31	1	ACCEPT
G	2783	125	K	5	6	125	0	ACCEPT

* AQL - Acceptable Quality Level - the maximum percent defective which can be considered satisfactory as an average. In this case, equals 1.5 errors per 100 documents entered.

** A Drawings
 B MRs/Specs/Misc.
 C FCNs
 D FCRs
 E SDDR's
 F SCNs
 G DCNs

*** See AFR MO1-218-1-01F



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AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

AS IS" CONDITION VERSUS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCES:

In comparing the Midland Design Document Registers to the documents themselves (or to microform reproductions), Lot E (SDDRs) was rejected and requires corrective action as described below.

Lots A, B, C, D, F & G require no corrective action beyond correction of the identified errors. (Given to Document Control during audit.)

AFR SER NO

M01-218-1-01F

PROJ/DEPT AUDITED:

Midland Doc. Control

DATE OF ORIGINATOR OR

12/7/81

FILE NUMBER:

D2.4.1

DISTRIBUTION:

MNBakarich	DBMiller
JJBaranyi	CARixford
WRBird	JARutgers
JABrown	KRSimpson
JWCook	ESmith
LHCurtis	DATaggart
MADietrich	JLWood
REField	MBSimpson
WDGreenwell	
JAHorsch	
MWKirkland	
BWMargulio	

RECOMMENDED CORRECTIVE ACTION:

For Lot E, SDDRs, perform a complete review of the register and correct all discrepancies. Instruct all involved DCC Personnel how to identify affected design documents.

CORRECTIVE ACTION COMMITMENT:

As above.

By January 4, 1982

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A:

Project Administration

PERSON MAKING C/A COMMITMENT:

M N Bakarich

METHOD OF VERIFICATION:

IS AF REPORTABLE PER 50.55(e)?

YES

NO

IF "YES", DATE OF REPORT TO NRC:

N/A

IF "YES", TIME OF REPORT TO NRC:

N/A

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

N/A

IF "YES", WHO MADE REPORT:

N/A

AFR ORIGINATOR'S SIGNATURE:

RE Field

SUPERVISOR'S SIGNATURE:

B. Magle 12/11/81

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:



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QA76-0

UNRESOLVED ITEM

PROJECTS, ENGINEERING
AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

6. DESCRIPTION OF UNRESOLVED ITEM:

Midland Project Document Control is not following ADP 2.12, Rev 0, or EDPI 4.46.3. It is understood the latter is no longer pertinent since CEBUS has been eliminated, and that variances from ADP 2.12 have been directed by Project Management and are described in a draft ADI, #2.12.3.

1. URI NO: M01-218-1-01U
2. PROJ/DEPT AUDITED: Midland Project Admin.
3. DATE OF ORIGINATION: 12-4-81
4. FILE NO: D2.4.1
5. DISTRIBUTION: MNBakarich DBMiller JJBaranyi CARixford WRBird JARutgers JABrown KRSimpson JWCook MBSimpson LHCurtis ESmith MADietrich DATaggart REField JLWood WDGreenwell JAHorsch MWKirkland BWMarguglio

7. REQUIRED ACTION:

Approve and issue the draft ADI or some other procedure directing Midland Document Control work.

8. ACTION REQUIRED FROM:

Project Administration

9. ACTION REQUIRED BY-DATE:

2/1/82

10. RESPONSE TO URI:

11. URI ORIGINATOR'S SIGNATURE/DATE:

RE Field / 12-11-81

12. SUPERVISOR'S SIGNATURE/DATE:

JR Eagle 12/11/81

URI CLOSURE BASED ON:

RECEIPT OF
ACCEPTABLE
RESPONSE

ISSUANCE OF
AFR

14. AFR NO _____

15. CLOSED BY-SIGNATURE/DATE:

OBSERVATIONS

- 1) In several instances, the audit team observed that document register entries were incomplete (i.e., lacking sheet and revision numbers). In checking the documents themselves (DCNs, FCRs, etc.), it was found that Project Engineering had not provided the information on the documents. Engineers should take care to identify the document #, type, sheet # and revision to which the change or deviation applies in order to obtain an accurate and complete register.



AUDIT REPORT

DISTRIBUTION:			AUDIT NO:
WHarbour	DATaggart	CEHarbour	M-01-303-1
ok	DMTurnbull		FILE NUMBER:
Metrich	RAWells		18.4.3.4 & 18.4.3.6
GSKeeley	JLWood		DATE OF AUDIT:
BWMarguglio	CMC/KFH		11/17/81 - 12/2/81
DBMiller	JWCroy		ORGANIZATION AUDITED:
JARutgers	TRCharette		Bechtel Construction/QC
ESmith	RCHirzel		PLANT & PROJECT:
SIC. OF AUDIT TEAM LEADER/DATE:			Midland 1 and 2
J W Croy 12/16/81			
APPROVED BY/DATE:			
Donald E Horn 12/18/81			

I. AUDIT SCOPE AND OBJECTIVES

The audit scope included receiving, fabrication, and erection of miscellaneous and structural steel, as well as review of quality documentation associated with the Project Quality Control Instructions for receiving, fabrication, and erection of miscellaneous and structural steel. The audit was conducted to verify compliance to Specifications 7220-C-304(Q) and 7220-C-233(Q) and applicable codes, standards, and PQCI/IRs.

II. IDENTIFICATION OF AUDITORS

J W Croy - Audit Team Leader
T R Charette - Auditor
R C Hirzel - Auditor
C E Harbour - Auditor-in-training

III. PERSONS CONTACTED DURING AUDIT

<u>Name</u>	<u>Company</u>	<u>Title</u>	<u>Attended Entrance Mtg</u>	<u>Attended Exit Mtg</u>
S Kirker	Bechtel	QC	X	
B MacGlasham	Bechtel	QC Receiving	X	
E Dutton	Bechtel	QC	X	X
P Goguen	Bechtel	Lead Civil Field Engr.	X	X
J Stubbs	Bechtel	Action Item Coordinator	X	
T Gelnett	Bechtel	QCE		
D Vandoorne	Bechtel	QCE		

IV. AUDIT SUMMARY

A. Entrance Meeting

The "Miscellaneous and Structural Steel" audit entrance meeting was held November 17, 1981. The purpose of the entrance meeting was to present the scope and objectives of the audit, and to introduce the audit team to the audited organizations. See Paragraph III for the entrance meeting roster.

B. Areas Audited

Proper erection and configuration of five (5) Reactor Pressure Vessel Upper Lateral Supports and one fan support were verified. Checklist #2 was used for this portion of the audit.

AUDIT REPORT

Fabrication and QC inspection of 46 pieces of miscellaneous steel was observed. Checklist #3 was used for this portion of the audit.

A review of 15 completed Quality Control Inspection Records for correctness and completeness was performed. Checklist #4 was used for this portion of the audit.

Inspection of incoming steel to purchase order requirements had been planned but no miscellaneous steel was received during the period of this audit (Checklist #1).

C. Audit Findings

The audit resulted in no findings being identified.

D. Observations

Two (2) observations were made and closed before issuance of the report.

- 1) Signoff in Block 14 was missing for Act. 2.3 of QCIR C-2.20-923.
- 2) In Block 4 of QCIR C-2.10-259, the total number of pages was not noted.

E. Exit Meeting

A post audit exit meeting was held on December 2, 1981 with those in attendance as noted in Paragraphs II and III. The audit observations were discussed with the audited parties.

V. EVALUATION OF EFFECTIVENESS

With the exception of the observations, QA Program element effectiveness and implementation, within the scope of this audit, is considered adequate.

VI. LIST OF ATTACHMENTS

1. Completed Checklists (File copy only - 18.4.3.4)



Consumers
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*File -
audit reports*

AUDIT REPORT

PROJECTS, ENGINEERING
AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

Date of Issuance: 1-8-82

PAGE 1 OF 2

DISTRIBUTION:

sh
dird
[REDACTED]
JWCook
LEDavis
MADietrich
GSKaeley

HPLeonard
BWMarguglio
DBMiller
JARutgers
ESmith
DATaggart
RAWells

ALAB-2

RECEIVED

JAN 11 1982

C. P. Co. Legal

AUDIT ID:

M01-601-1

FILE NUMBER:

18.4.7

DATE OF AUDIT:

12/16/81 - 12/18/81

ORGANIZATION AUDITED:

Bechtel

PLANT & PROJECT:

Midland 1 and 2

SIG. OF AUDIT TEAM LEADER/DATE:

Donald K. Martin 1/8/82

APPROVED BY/DATE:

[Signature] 1/9/82

I. SCOPE AND OBJECTIVE

The objective of the audit was to verify Bechtel Power Corp. compliance to applicable program requirements for the handling and distribution of controlled documents required by the Zack Co. for HVAC construction activities, as defined in the audit scope.

The audit scope included those activities covered in the following procedures and instruction:

- A) FPD-1.000, Rev. 9, "Design Document and Corresponding Control."
- B) FPD-2.000, Rev. 4, "Field Change Request/Field Change Notice Procedures."
- C) FID-2.100, Rev. 1, "Outstanding FCR/FCN Retirement."

IDENTIFICATION OF AUDITORS

The audit was performed by the following personnel:

- DKMartin - Audit Team Leader (MPOAD)
- SKCox - Auditor (MPQAD)
- AAKunz - Auditor-in-Training (MPQAD)
- EWGoold - Auditor-in-Training (MPQAD)

III. PERSONS CONTACTED DURING THE AUDIT

The following personnel were contacted during the audit:

Name	Organization	Title	Audit Entrance	Audit	Audit Exit
RWSoderholm	Bechtel	Project Supt. Services	X		X
RCash	Bechtel	Field Contract Admin.	X	X	X
BSThind	Bechtel	Lead Contract Coord	X		X
LVRice	Bechtel	Senior Contract Coord. Zack	X		X
HEFntrekin	Bechtel	Lead Contract Admin.	X	X	
JGilmartin	Bechtel	Project Field Engineer		X	
JDDavis	Bechtel	Offices Services Sup.		X	X
JCard	Bechtel	Document Control Coord.		X	
ASaenz	Bechtel	Design Section Lead		X	
GBowen	Bechtel	Construction Assistant		X	
JSheehan	Zack	Document Control Sup.		X	
GJohnson	CPCo Const.	Field Engineer	X		
SFBandla	MPQAD	Observer			X

<u>Name</u>	<u>Organization</u>	<u>Title</u>	<u>Audit Entrance</u>	<u>Audit</u>	<u>Audit Exit</u>
DKMartin	MPQAD	Audit Team Leader	X	X	X
SKCox	MPQAD	Auditor	X	X	X
AAKunz	MPQAD	Auditor-in-Training	X	X	X
EWGoold	MPQAD	Auditor-in-Training	X	X	X

IV. AUDIT SUMMARY

- A) The audit entrance meeting was held on 12/16/81 with personnel in attendance as noted in paragraph III. The audit scope, plan, tentative schedule, and audit finding procedure were discussed.
- B) Checklists for this audit were developed from the Bechtel instruction and procedures noted in paragraph I. Specific sections audited are as noted in the completed checklists. Data was collected by proceeding through the checklists for each procedure audited. All checklists employed during the course of this audit are attached to the file copy of this report.
- C) The audit resulted in one (1) finding, M01-601-1-01, requirements of FPD-1.000 not adhered to, which was issued closed.
- D) One (1) observation was made as a result of this audit:

Only the PFOCE of Bechtel is furnished with copies of retired FCN's and FCR's per section 4.15 of FID-2.100, Rev. 1.

It is recommended that all organizations with construction or inspection activities governed by criteria on Bechtel design drawings be included under section 4.15 of FID-2.100 for those design documents affected by FID-2.100.

It is noted that this observation and recommendation has been considered by Bechtel. A revision to include organizations with construction or inspection activities governed by criteria on Bechtel design drawings under section 4.15 of FID-2.100 is presently in the review cycle.

- E) The audit exit meeting was held December 18, 1981 with those in attendance as noted in paragraph III. At that time, one (1) draft audit finding and one (1) observation were presented and discussed. Commitment dates for responses were agreed upon.

V. EVALUATION OF EFFECTIVENESS

Use of the procedures listed in paragraph I was satisfactory.

VI. LIST OF ATTACHMENTS

- 1) Audit Finding Report M01-601-1-01
- 2) Audit Plan (file copy only)
- 3) Completed Checklists (file copy only)



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PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

AUDIT FINDING REPORT

IS "AS REQUIRED" CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES:

FPD-1.000, Rev. 9, section 3.2.3 - vendor drawings and data, paragraph 3.2.3.1, subparagraph 3 requires Project Engineering approved drawings and data received shall be routed as outlined in section 3.2.1, subparagraph 3.

3.2.1 subparagraph 3 states, "The New Drawing Sign-Off Sheet, Exhibit G, will be routed to the responsible Engineers for review, along with an uncontrolled print of the drawing. Upon return to Document Control, New Drawing Sign-Off Sheet will become part of the file."

Contrary to the above, there is no objective evidence available to verify that the requirement is being implemented as specified in FPD-1.000, Rev. 9, section 3.2.1, subparagraph 3.

APR. REP. NO.

M01-601-1-01

PROJ/DEPT AUDITED: Midland 1&2
Bechtel SC/DCC

DATE OF ORIGINAT OR:
12-18-81

FILE NUMBER:
18.4.7

DISTRIBUTION:

RCAsh
WRBird
JEBrunner
JWCook
MADietrich
GSKeeley
HPLeonard
BWMarguglio
DBMiller
JARutgers
ESmith
DATaggart
RAWells
ALAB-2

RECOMMENDED CORRECTIVE ACTION:

Implement the requirements as specified in FPD-1.000, Rev. 9, section 3.2.1, subparagraph 3.

CORRECTIVE ACTION COMMITMENT:

Evaluate recommended corrective action for applicability and acceptability. Response date of December 29, 1981, for commitment on corrective action determination and completion. Bechtel Letter BCCC-6155, dated December 30, 1981, concurs with the recommended corrective action with implementation effective December 28, 1981.

DATE OF C/A COMPLETION: December 30, 1981

DATE OF C/A EFFECTIVENESS: December 28, 1981

ORG. RESP FOR C/A:

Document Control

PERSON MAKING C/A COMMITMENT:

JDavis

METHOD OF VERIFICATION:

- 1) Review of Bechtel Letter BCCC-6155, dated December 30, 1981.
- 2) Verified that vendor drawings and data received after December 28, 1981, are in review routing cycle. Material verified were uncontrolled prints and new drawing sign-off sheets for Vendor Drawings F7220-A67-4 and F7220-C90-4-1.

IS AF REPORTABLE PER 50.15(a):

YES NO

IF "YES", DATE OF REPORT TO NRC:

IF "YES", TIME OF REPORT TO NRC:

IF "YES", NAME OF NRC OFFICIAL TO WHOM REPORTED:

IF "YES", WHO MADE REPORT:

APR ORIGINATOR'S SIGNATURE:

SUPERVISOR'S SIGNATURE:

A VERIFICATION SIGNATURE:

VERIFICATION DATE:

[Signature] 11-8-82

Donald K. Norton

1-8-82