



**Consumers
Power
Company**

Midland Project: PO Box 1963, Midland, MI 48640 • (517) 631-8650

February 8, 1984

50-329
50-330

Mr G A Hierzer
Bechtel Power Corporation
P O Box 2167
Midland, MI 48640

MIDLAND ENERGY CENTER GWO 7020

RELEASE OF SWO #41

File: 0460.3, 0655.3, 0456 UFI: 73*, 99*08, 12*50 Serial: CSC-7306

REFERENCES: 1) Release of CIO Hold Point 011 for Mechanical Discipline
2) MPQAD Release of SWO #41 for Mechanical Discipline

As a result of the February 8, 1984 release of Stop Work Order FSW-41 for mechanical discipline documents, Bechtel Power Company is released for Status Assessment in the above noted discipline for modules 340, 102, 120 410 and 800.

It is expected this Phase I work will be performed in a careful and prudent manner with proven satisfactory results prior to any accelerated work efforts in the above identified modules.

In accordance with your recently approved procedures, Status Assessment shall utilize Status Assessment Prints (SAPs) issued from Field Document Control Center (Station 59).

Bechtel Power Company shall insure that only personnel who have satisfactorily completed all training requirements for Status Assessments will perform this activity.

[Signature]

DLQ/NIR/klp

cc: JGKeppler, NRC Region III
JJHarrison, NRC Region III
RJCook, NRC Site
RAWells, MPQAD
BHPeck, MEC
NIReichel, MEC

8402220507 840208
PDR ADOCK 05000329
S PDR

OC0184-0001-CN04

PRINCIPAL STAFF			
RA	bas	DPRP	
D/RA		DE	
A/RA		DRMSP	
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LA		ML	
EE		File	bas

FEB 16 1984

IED/11



STONE & WEBSTER MICHIGAN, INC.

P.O. Box 2325, BOSTON, MASSACHUSETTS 02107

17

Mr. D. L. Quamme
Consumers Power Company
Midland Nuclear Plant
3500 E. Miller Road
Midland, Michigan 48640

February 8, 1984

Subject: Docket No. 50-329/330
Midland Plant - Units 1 and 2
Overview of the Construction
Completion Program
Serial No. SWMCP-029

Re: FCR/FCN Review
CIO Hold Point No. 011

CIO has completed a review of FCR/FCN's for the mechanical discipline and considers the results of this review to be satisfactory.

This releases CIO Hold Point Number 011 in its entirety.


J. E. Karr
CIO Program Manager

FB/nl

cc:
JGKeppler, US NRC Glen Ellyn, IL
JHarrison, US NRC Glen Ellyn, IL
RJCook, US NRC Midland (site)
RAWells, CPCo Midland (site)
RBKelly, S&W
APAmoruso, S&W

STOP WORK ORDER

9. PROJECT: MPQAD BECHTEL POWER	10. SUBJECT OF STOP WORK ORDER: Balance of Plant Q-listed work to Bechtel Drawings and Specifications	1. STOP WORK ORDER NO: FSW - 41
11. ORAL STOP WORK ORDER GIVEN: BY: AJBoos BY: RAWells DATE: 10/21/83 TIME: 9.50PM	12. WORK STOPPED: cations DATE: 10/22/83 TIME: 1.00PM	2. PREPARED BY: <i>P.Dae</i> 3. DATE: 10-23-83 TIME: 1400 4. APPROVED BY: <i>David L. Tugger</i> 5. DATE: 10-23-83 TIME: 1023
13. DESCRIPTION OF CONDITIONS REQUIRING STOP WORK ACTION: <p>Problems with referencing of drawing and specifications in the BP Co FCR/FCN process have created an indeterminate condition with respect to work that has been or could be performed to "Q"-listed drawings and specifications (Ref: Audit MSA-83-32).</p> <p>As a result of this condition, the following stop work is being issued:</p> <ol style="list-style-type: none"> 1) BP Co Project and Field Engineering approval of FCN/FCRs. 2) Fabrication, installation, and inspection of Q-listed work in the Balance of Plant area. 		6. FILE: 16.13 7. STOP WORK ORDER ISSUED TO: W. Freidrich E. Hughes G. Hierzer 8. STOP WORK ORDER: See Sheet 3
14. CORRECTIVE ACTION TAKEN: A. <u>BPCo Project and Field Engineering Approval of FCNs and FCRs Only</u> 1. Bechtel corrective action taken as described in JARutgers letter to RAWells (Com 136478, BLC-18614) dated December 7, 1983 and GAHierzer's letter to RAWells (BCCC-8800) dated December 9, 1983. (See Attachments 1 & 2)		
15. REVIEW OF CORRECTIVE ACTION VERIFICATION: A. <u>BPCo Project and Field Engineering Approval of FCNs and FCRs Only</u> 1. MPQAD review and approval of PEP 4.62.1, ADI 2.12.10, FPD-1.000, FPD-2.000 and FID-2.100. 2. MPQAD review of training records for BPCo project construction, engineering and administrative personnel. <p>Completion of corrective action verified and Stop Work lifted for BPCo Project and Field Engineering approval of FCNs and FCRs. This is a Phase III activity.</p> <p>By: <i>David L. Tugger</i> Date: 12-9-83 Time: 1821</p>		
16. CO-OPERATION OF CORRECTIVE ACTION VERIFIED: BY: DATE:	17. STOP WORK ORDER LIFTED: BY: DATE: TIME:	

3. Allowable exceptions are as noted below:

- a) Actions to maintain safe plant working conditions.
- b) Actions to maintain calibrated instruments.
- c) Removal of paint on welds of hangers.
- d) Training and certification of QA/QC Inspection personnel.
- e) Actions to implement the storage and maintenance programs, including QC area inspections for equipment protection. However, no final QC acceptance will be allowed that are based on Bechtel Q-listed drawings and specifications.
- f) Continue to issue and validate Nonconformance Reports (NCR), but no concurrence of NCR disposition is allowed if based on BPCo Drawings & Specifications.
- g) See Item 5 below for subsequent allowable exceptions.

4. As a minimum, the following actions shall be taken prior to lifting this Stop Work Order in part or total:

- a) Perform a review & analysis to evaluate the extent of the problem.
- b) Take appropriate programmatic corrective action based on Item 4A above.
- c) Reinstruct BPCo Project Eng., Field Eng. and Document Control personnel in the generation approval and distribution of the FCN/FCR form to prevent the problem from recurring.
- d) Establish a mechanism for lifting of this Stop Work on a partial basis.

5. In support of corrective actions necessary to resolve this Stop Work Order, the following additional exceptions to the Stop Work Order are allowed:

- A. Any FCR with only RE interim approval that has not received PE final disposition and any FCN with PFE approval but not yet dispositioned by Project Engineering is allowed to be processed in accordance with FPD-2.000 Rev. 10, FPD-1.000 Rev. 16, FID 2.100 Rev. 4, PEP-4.62.1 Rev. 0 and ADP-2.12 Rev. 0. These FCNs/FCRs shall be processed through Phase 1, 2 and 3 in accordance with FID-2.400, "FCR/FCN Review and Resolution Program."

Prepared By

R. L. Oliver

Date

11-3-832:42 P.M.

Approved By

David A. Luggs

Date

11-3-8311-3-83

DISTRIBUTION FOR STOP WORK ORDER

Work Order FSW-41

6
1/3/8

KDBailey

JABauer

DEBeaudoin

WRBird

JEBrunner

FWBuckman

JWCook

MADietrich

GFEwert

WJFriedrich @ (QC)

EWGoold @ (Planning & Scheduling)

WDGreenwell

PKHansen

GAHierzer

EMHughes

DJones

HPLeonard @ (PAD)

BWMarguglio

REMcQue

JKMeisenheimer @ (Soils)

JAMooney

BHPeck

DLQuamme

JARutgers

DATaggart @ (PAP)

RAWells

JLWood @ (HVAC)

Subcontractors @

Construction Completion Group Supervisor (Group disbanded)

MPlumb

RPope

BLOCK 14 (continued)

B. Inspection For Architectural Related Work (Only Document Control Station 14)

1. Bechtel corrective action taken as described in GAHierzer's letter to RAWells (BCCC-8779) dated December 9, 1983 as applied to all architectural related work. (See Attachment 3)

BLOCK 15 (continued)

B. Inspection For Architectural Related Work (Only Document Control Stations 14)

1. MPQAD completion of reviews and audit activities of Bechtel corrective actions as defined in BPCo FID-2.400 for FCRs/FCNs generated which apply to architectural related work at Document Control Station 14 only. Verification included MPQAD review of Phase I adequacy, review of Phase II Resolution Sheets, and audit of Phase III Composite Log and document distribution. *For Drawings Only*

Completion of corrective action verified and Stop Work lifted for Architectural related work at Station 14. *For drawings & their attach. only*

By *[Signature]* Date 12-11-83

Time @ 1500

BLOCK 14 (continued)

- C. Inspection, Status Assessment and Related Work For Architectural (Document Control Stations 14 (includes Spec's), 48 a, b & d and 55.)
1. Same as B.1. above.
- D. Inspection, Status Assessment, and Related Work for the Architectural and Civil disciplines.
1. For Architectural, same as B.1. above.
 2. For Civil, Bechtel corrective action taken as described in BPCo letter BCCC-8867, GAHierzzer to RAWells, dated December 30, 1983.
- E. Inspection, Status Assessment and related work for the I & C discipline.
1. Same as B.1 and D.2 above.
- F. Inspection, Status Assessment and related work for the Electrical discipline.
1. Same as B.1. and D.2. above.
- G. Inspection, Status Assessment and related work for the Mechanical discipline.
1. Same as B.1 and D.2 above.

BLOCK 15 (continued)

- B. Inspection, Status Assessment and Related Work For Architectural (Document Control Stations 14 (includes spec's), 48 a, b & d and 55.)
1. MPQAD completion of reviews, and audit activities of Bechtel corrective actions as defined in BPCo FID-2.400 for FCRs/FCNs generated which apply to architectural. Verification included MPQAD review of Phase I adequacy review of Phase II Resolution Sheets and audit of Phase III Composite Log and document distribution. Verified and released for Architectural for Document Control Stations 14, 48 a, b & d and 55.

Completion of corrective action and Stop Work lifted for Architectural at Stations 14, 48 a, b & d and 55.

By *D. Haggart* Date 12-13-83
Time 9:15 AM

~~Effective January _____, 1984, completion of corrective actions described in B.1 and D.2 of Block 14 above has been verified by MPQAD and the Stop Work lifted for the I&C discipline. Verifications and limitations for I & C are as described in D.1 and D.2 above (in Block 15).~~

By _____ Date _____
Time _____

RE
1/23

BLOCK 15 (continued)

D. Inspection, Status Assessment, and related work for the Architectural and Civil disciplines.

1. MPQAD completion of reviews and audit activities of Bechtel corrective actions as defined in BPCo FID-2.400 for FCRs/FCNs generated and applying to the architectural and civil disciplines. Verification included MPQAD review of Phase I adequacy, review of Phase II resolution sheets, and audit of Phase III registers.
2. Per the response to Management Corrective Action Request, DAT-1 provided by BPCo Transmittal No. 54944, dated January 16, 1984, inspection, status assessment, and related work shall utilize Work Prints and/or Status Assessment Prints (SAPs) issued only from FDCC, Station 59.

Completion of corrective action and Stop Work Order lifted for Architectural and Civil.

By David A. Taggart Date 1-20-84
Time 11:15 AM

Effective January 24, 1984, completion of corrective actions described in B.1 and D.2 of Block 14 above has been verified by MPQAD and the Stop Work lifted for the I & C discipline. Verifications and limitations for I & C are as described in D.1 and D.2 above (in Block 15).

By B. Palmer FOR Date 1-24-84
DA TAGGART Time 12:35 PM

Effective January 26, 1984, completion of corrective actions described in B.1 and D.2 of Block 14 above has been verified by MPQAD and the Stop Work lifted for the Electrical discipline. Verifications and limitations for Electrical are as described in D.1. and D.2 above (in Block 15.)

By B. Palmer FOR Date 1-26-84
DA TAGGART Time 2:12 PM

Effective February 8, 1984, completion of corrective actions described in B.1 and D.2 of Block 14 above has been verified by MPQAD and the Stop Work lifted for the Mechanical discipline. Verifications and limitations for Mechanical are as described in D.1 and D.2 above (in Block 15).

By David A. Taggart Date 2-8-84
Time 3:45 PM

DAT
DEC 08 1983

Bechtel Power Corporation



Com 136478

Post Office Box 2167
Midland, Michigan 48640

BLC-18614

December 7, 1983

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

ATTACHMENT 1 To
Stop Work Order
FSW-41

Attention: R. A. Wells

Midland Plant Units 1 & 2
Bechtel Job 7220
FSW-33 THROUGH 41
(FCR/FCN APPROVAL)

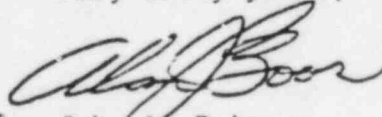
Your action is requested to partially lift the subject stop work orders to allow Field Engineering and Project Engineering approval of Field Change Requests/Field Change Notices (FCR's/FCN's). This request is based on completion of the following actions:

- 1) PEP 4.62.1, ADI 2.12.10, FPD-1.000, FPD-2.000 and FID-2.100 have been revised to provide process corrective action to prevent recurrence of the problems noted in MPQAD Audit Findings MSA-32-32-03F and MSA-83-32-04F. In summary, the process corrective action includes new FCR and FCN forms which provide for more positive control.
- 2) Project personnel have been reinstructed to the procedures noted above in accordance with their departments respective training programs.

Bechtel is currently undertaking a review of Specification G-34, "General Specification for Field Change Notice", to formulate a change to our FCN program. Until such time as the program is revised, construction will only initiate Q-listed FCN's to provide as-built information to Project Engineering in accordance with Section 3.3 of G-34. Non-Q FCN's will be initiated as they were prior to the issuance of the stop work orders.

If you have any questions on this matter, please contact me.

Very truly yours,


for John A. Rutgers

JAR/AJB/lmr

Written Response Requested: No

Com Use: NA

cc: (See attached list)

cc: J. W. Cook
D. L. Quamme
B. Peck
J. A. Mooney
H. Leonard
D. Taggart
J. Meisenheimer
W. Friedrich

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640



December 9, 1983

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

ATTACHMENT 2 To
Stop Work Order
FSW-41

Attention: R.A. Wells
Executive Manager - MPQAD

Job 7220 Midland Project
PROCESSING CYCLE FCR/FCN
BCCC-8800

Dear Mr. Wells:

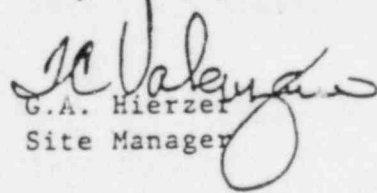
To allow the processing cycle for FCR/FCN to begin, the following steps have been outlined as a guide to control the FCR/FCN approval and distribution activities. See Attachment 1.

- 1) FCRs may be written by the field engineers, signed by the Project Field Engineer (PFE), assigned a number in Field Document Control, and transmitted to Project Engineering. (The FCRs will be prioritized by Construction.)
- 2) Project Engineering will begin their review of these FCRs upon receipt from Construction.
- 3) Construction will advise Project Document Control of the schedule for release of composite register on a discipline by discipline basis (based on an MPQAD approval) and will require that Project Document Control approve the FCRs for distribution based on the release schedule.
NOTE: The FCR must be written exclusively against those discipline drawings that have been released in the above mentioned schedule. This will ensure that FDCC will not receive FCRs from Project Engineering until the discipline's register has been audited by MPQAD.

FCNs will follow the same basic philosophy as modified by COM 136478. The PFE approval will be the check point which must adhere to the schedule of releasing drawings by discipline.

If an FCR (FCN) references an affected drawing which is in a discipline not yet released by FDCC, Project Engineering (PE) will not issue the affected FCR (FCN).

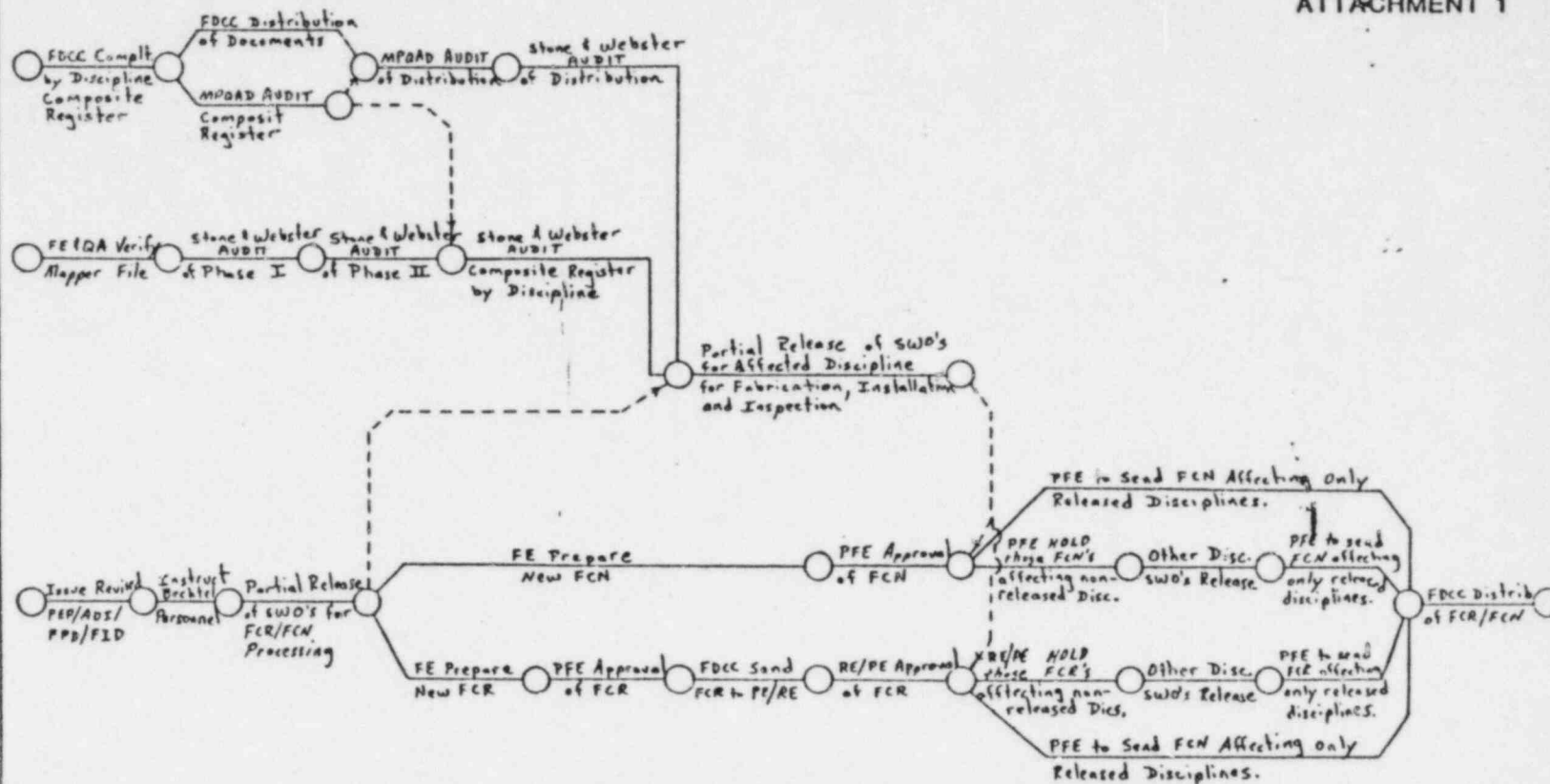
Very truly yours,

for 
G.A. Hierzer
Site Manager

GAH/JR/jrm
cc: D. Quamme
D. Taggart
Attachment

FCR/FCN
PROBLEM RESOLUTION
(SWO Item 13, Steps 4b/c/d)

FCR/FCN
PROCESSING
(SWO Item 13, Step 4a &
SWO's 35,37 Item 13, Steps 4e/f/g)



TITLE:
GENERIC SCHEDULE FOR
RESOLVING STOP WORK ORDERS
33 THRU 41

REV.	BY	CKD.	APVL.	DATE
0	PFS			12/1/83

Post Office Box 2167
Midland, Michigan 48640



December 9, 1983

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

ATTACHMENT 3 To
Stop Work Order
FSW-41

Attention: R.A. Wells
Executive Manager - MPQAD

Job 7220 Midland Project
MIDLAND PLANT UNITS 1 & 2
FSW-34 Through 41
BCCC-8779

Dear Mr. Wells:

Your action is requested to partially lift the subject Stop Work Orders (SWO) to allow the initiation of architectural related work which includes architectural status assessment under the Construction Completion Program (CCP). This request is based on completion of the following actions pursuant to Block 13, Item 4 of the order:

Item No.

Action

4A

A review of all FCRs/FCNs generated which apply to architectural related work governed by the CCP has been performed in accordance with FID-2.400, "FCR/FCN Review and Resolution Program".

We have updated the design document distribution to reflect the results of this review. As a part of this step, we have removed architectural drawings from the sticks and work print distribution pending resolution of outstanding FCRs and FCNs in other disciplines affecting these drawings.

No hardware problems in architectural were noted in the review under FID-2.400.

4B & 4C

As described in J.A. Rutgers' letter of December 7, 1983 (BLC-18614), PEP 4.62.1, ADI 2.12.10, FPD-1.000, FPD-2.000, and FID-2.100 have been revised to provide process corrective action to prevent recurrence of the problems noted in MPQAD Audit Findings MFS-83-32-03F and MSA-83-32-04F. All appropriate project personnel have been reinstructed to these procedures in accordance with their department's respective training programs.

R.A. Wells

BCCC-8779

Page 2

Item No.Action

4D

As described in G.A. Hierzer's letter of December 9, 1983 (BCCC-8800) the mechanism for partial lifting of SWO has been established.

If you have questions on this matter, please contact me.

Very truly yours,

for *GC Valbyano*
G.A. Hierzer
Site Manager

GAH/AJB/jrm

cc: D. Quamme
D. Taggart