



**Consumers
Power
Company**

Dean L. Quamme
Site Manager
Midland Project

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

50-329
50-330

February 9, 1984

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

PRINCIPAL STAFF			
RA	<i>has</i>	OPRP	
D/RA		DE	
A/RA		DRMSP	
RC		DRMA	
PAO		SCS	<i>orig+3</i>
SGA		ML	
ENF		File	<i>has</i>

MIDLAND ENERGY CENTER GWO 7020
RELEASE OF SWO #FSW 37
File: 0402.2 UFi: 50*20*03 Serial: CSC-7316
16.13 08*06*03
M-1.0

Stop Work Order #FSW 37 has been released by MPQAD effective 3:48 P.M. on February 8, 1984. Bechtel is requested to formally advise B&W Construction Company of this release. A copy of the released Stop Work Order is attached.

[Signature]
DLQ/JTW/klw

CC JGKeppler, NRC Region III
JJHarrison, NRC Region III
RJCook, NRC Site
RAWells, MPQAD
BHPeck, MEC
NIREichel, MEC

FEB 13 1984

8402150316 840209
PDR ADCK 05000329
S PDR

11
1201



STOP WORK ORDER

10. SUBJECT OF STOP WORK ORDER: All Q-listed work to Bechtel specifications and drawings PRIME: Subcontractor B&WCC.	1. STOP WORK ORDER NO: FSW 37
ORAL STOP WORK ORDER GIVEN: BY: ALBoos BY: RAWells DATE: 10-21-83 TIME: 2150	12. WORK STOPPED: DATE: 10-22-83 TIME: 0700
DESCRIPTION OF CONDITION REQUIRING STOP WORK ACTION: Problems with referencing of drawings and specifications in the 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. <u>REFERENCE AUDIT MSA-83-32</u> As a result of this condition, the following Stop Work is being issued:	2. PREPARED BY: CVDye 3. DATE: 10/22/83 TIME: 1418 4. APPROVED BY: [Signature] 5. DATE: 10/22/83 TIME: 10-22-83 6. FILE: 16.13
	7. THIS STOP WORK ORDER ISSUED TO: GAHeirzer B&W construction Co.
	8. METHOD OF CORRECTIVE ACTION: See pg. 3

- CORRECTIVE ACTION TAKEN:**
- A. BPCo Project and Field Engineering Approval of FCNs and FCRs Only
 - 1. Bechtel corrective action taken as described in JARutgers letter to RAWells (Com 136478, BLC-18614) dated December 7, 1983 and GAHeirzer's letter to RAWells (BCCC-8800) dated December 9, 1983. (See Attachments 1 & 2)
 - B. Fabrication, installation, and inspection of Q-Listed work by B&WCC (includes Architectural, Civil, Instrumentation, Electrical & Mechanical Disciplines)
 - 1. Bechtel corrective action taken as described in G A Hierzer's letter to R A Wells BCCC-9004, dated February 7, 1984. (See Attachment 3)

- METHOD OF CORRECTIVE ACTION VERIFICATION:**
- A. BPCo Project and Field Engineering Approval of FCNs and FCRs Only
 - 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.

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.
 By [Signature] Date 12-9-83
 Time 1820

COMPLETION OF CORRECTIVE ACTION VERIFIED BY: _____ DATE: _____	17. STOP WORK ORDER LIFTED BY: _____ DATE: _____ TIME: _____
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- B. Actions to maintain safe plant working conditions.
 - C. Actions to maintain calibrated instruments.
 - D. Actions to implement the storage and maintenance program.
 - E. Receipt of materials - but no receipt inspections.
 - F. Training of Babcock and Wilcox Construction Co. work and inspection personnel.
 - 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:
- A. Bechtel and MPQAD to perform a review and analysis to evaluate the extent of the problem.
 - B. Bechtel and MPQAD to take the appropriate programmatic action based on 4(a) above.
 - C. Reinstruct BPCo Project Engineers, Field Engineers, and Document Control personnel in the generation, approval and distribution of the FCR/FCN Form to prevent the problem from recurring.
 - D. Bechtel and MPQAD to establish a mechanism for lifting this Stop Work Order on a partial basis.
 - E. Bechtel and MPQAD to establish a method for upgrading subcontractor with the correct specifications and drawings.
 - F. Subcontractor to purge existing files of any erroneous specifications and drawings, FCNs and FCRs.
 - G. Subcontractor to identify any work or inspection performed to any specifications, drawings, FCRs or FCNs that have been identified as in error. Identification shall be per their nonconformance procedure.
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 REinterim 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. Lewis

Date 11-3-83 2:38 P.M.

Approved By [Signature]
David A. [Signature]

Date 11-3-83

11-3-83

DISTRIBUTION FOR STOP WORK ORDER

KDBailey
JABauer
DEBeaudoin
WRBird
JEBrunner
FWBuckman
JWCook
MADietrich
GFEwert
WJFriedrich @ (QC)
EWGoold @ (Planning & Scheduling)
WDGreenwell
PKHansen
GAHierzer
EMHughes
DJones
HPLeonard @ (PAD)
BWMarguglio
REMcCue
JKMeisenheimer @ (Soils)
JAMooney
BHPeck
DLQuamme
JARutgers
DATaggart @ (PAP)
RAWells
JLWood @ (HVAC)
Subcontractors @
Construction Completion Group Supervisor (Group distanded)
RFWillians, PAE Supervisor
Hallen, PAE
EWermann, PAE
Vangoanker, B&WCC Proj. MGR.
STaulbee, FQCS

BLOCK 15 (continued)

- B. Fabrication, installation, and inspection of Q-Listed work by B&WCC (includes Architectural, Civil, Instrumentation, Electrical and Mechanical Disciplines)
1. MPQAD completion or reviews and audit activities of Bechtel corrective actions as defined in BPCo FID-2.400 for FCRs/FCNs generated which apply to work in the scope defined in B. above. Verification included MPQAD review of Phase I adequacy, review of Phase II Resolution Sheets, and audit of Phase III Composite Log.
 2. Per BPCo letter #BCCC-9004, dated February 7, 1984, Work Prints will be issued to B&WCC and will be used for work in the scope defined in B above. This is consistent with BPCo's response to CPCo MCARR DAT-1 provided by BPCo Transmittal No. 54944, dated January 26, 1984.

Completion of corrective action verified and Stop Work lifted for work in scope defined in B above.

By *J. J. [Signature]* Date 2-5-84
Time 3:48 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-37

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,

A handwritten signature in cursive script, appearing to read "John A. Rutgers".
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-37

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.

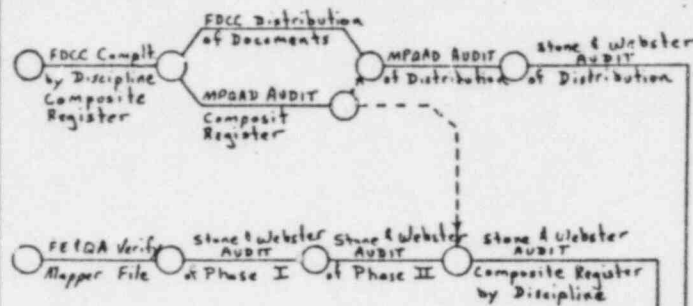
If an FCR (FCN) references an affected drawing which is in a discipline not yet released by FDCC, Project Engineering (PE) will not issue the affected FCR (FCN).

Very truly yours,

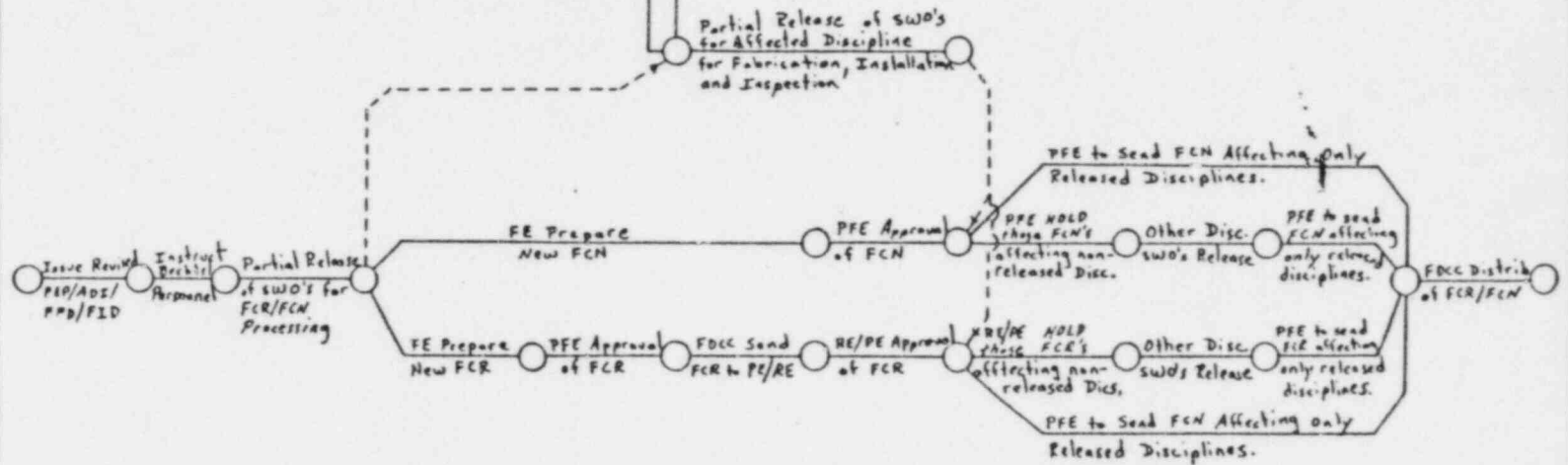
G.A. Hierze
G.A. Hierze
Site Manager

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

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



FCR/FCN
PROCESSING
(SWO Item 13, Step 4e &
SWO's 35.37 Item 13, Steps 4e/f/g)



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

REV	BY	CHKD	APVL	DATE
0	PFS			12/9/83

ATTACHMENT 3
TO FSW 37

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640



February 7, 1984

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

Stop Work Order
FSW-37

Attention: R. A. Wells
Executive Manager - MPQAD

Midland Plant Units 1 & 2
Bechtel Job 7220
FSW-37
BCCC-9004

Dear Mr. Wells:

Your action is requested to lift the subject Stop Work Order. This request is based on the following actions pursuant to Block 13, Item 4 of the order:

<u>Item No.</u>	<u>Action</u>
4A	<p>A review of all FCRs/FCNs generated which apply to related work has been performed in accordance with FID-2.400, "FCR/FCN Review and Resolution Program".</p> <p>We have updated the design document registers and distribution lists to reflect the results of this review.</p>
4B & 4C	<p>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.</p> <p>In addition, Bechtel Field Procedure FPZ-1.000 has been revised. The intent of this revision is to now issue "Work Prints" rather than "Controlled Prints" to B&WCC. All appropriate Bechtel personnel involved with the B&WCC subcontract have been retrained in this procedure per FPG-2.000. In line with this revision to FPZ-1.000, Subcontract Change Notice D-301 was sent to B&WCC. This SCN notified B&WCC that they would now be receiving "Work Prints" rather than "Controlled Prints". It further requested that B&WCC revise their Document Control Procedures and train appropriate personnel in the handling of the change paper.</p>

Item No.

Action

B&WCC accordingly revised procedure 9-QPP-101 and has retrained all appropriate personnel. A statement of this retraining is attached.

4E & 4F

As the appropriate Document Control registers are released the "Controlled" drawings are reviewed to insure that B&WCC has the latest revisions with all change paper. This review has been completed for all documents except Mechanical. The Mechanical review will be done when the Mechanical register is released. Upon release of the B&WCC Stop Work the "Controlled" prints will be replaced by "Work Prints" per FPZ-1.000.

G. A. Hierzer

G. A. Hierzer

GAH/DRF/tvm
020705T3

Written Response Requested: Yes

Response Requested by: 2-8-84

Attachment

Babcock & Wilcox

B&W Construction Company

a McDermott company

3333 Copley Road
Copley, OH 44321
(216) 666-8541

February 7, 1984

Bechtel Power Corporation
P.O. Box 2167
Midland, MI 48640

Subject: Subcontract 7220-M-1A
NSSS Erection
Document Control Procedure
per SCN D-301

Attn: Mr. G. A. Hierzer

Serial: M-1A-(P)-1499

Dear Mr. Hierzer:

In compliance with Subcontract Change Notice D-301, we have revised our Quality Control Procedure for Document Control to incorporate the requirement as requested.

The attached Attendance List is being submitted to you as evidence that Training has been completed and we are ready to implement the requirements as requested by SCN D-301.

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

Very truly yours,

V. N. Asgaonkar

V. N. Asgaonkar
Project Manager

VNA/TWD/cjk

cc: R. P. Estlack
H. R. Krause
A. W. DePatie
K. Pulito
File

Attachment

