



**Consumers  
Power  
Company**

Dean L Quamme  
Site Manager  
Midland Project

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

SD-329  
SD-330

February 9, 1984

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

PRINCIPAL STAFF			
RA*	<i>Las</i>	DPRP	
D/RA		DE	
A/RA		DRMSP	
C		DRMA	
PAO		SCS	<i>orig+3</i>
CGA		ML	
ENF		File	<i>Las</i>

MIDLAND ENERGY CENTER GWO 7020

RELEASE OF SWO #FSW 35

File: 0402.2, 16.13, FSC-206 UFI: 50\*20\*03, 08\*06\*03 Serial: CSC-7319

Stop Work Order #FSW 35 has been released by MPQAD effective 2:48 P.M. on February 9, 1984. Bechtel is requested to formally advise GEO Construction Testing of this release. A copy of the released Stop Work Order is attached.

*Dean L Quamme*

DLQ/DDJ/klp

cc: JGKepler, NRC Region III  
JJHarrison, NRC Region III  
RJCook, NRC Site  
RAWells, MPQAD  
BHPeck, MEC  
NIREichel, MEC  
DDJohnson, MEC

8402220012 840209  
PDR ADOCK 05000329  
S PDR

FEB 15 1984

*IED 1/1*



## STOP WORK ORDER

PROJECT: GEO Construction Testing	10. SUBJECT OF STOP WORK ORDER: All "Q" listed work to BPCo drawings and specifications	1. STOP WORK ORDER NO: FSW-35
11. STOP WORK ORDER (BY): BY: AJBoos RE: RAWells DATE: 10/21/83 TIME: 9:50 PM	12. WORK STOPPED: DATE: 10/21/83 TIME: 11:00 PM	2. PREPARED BY: DEHolthaus <i>DE Holthaus</i>
DESCRIPTION OF CONDITION REQUIRING STOP WORK ACTION: Problems with referencing of drawings and specifications in the BPCo 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: MSA-83-32. As a result of this condition the following Stop Work is being issued: 1. BPCo Field or Project Engineering approval of FCN's or FCR's 2. Installation and inspection of "Q" listed work in the GEO Construction Testing area.		3. DATE: 10/22/83 TIME: 6:30 PM 4. APPROVED BY: <i>David D. Taylor</i> 5. DATE: 10/22/83 TIME: 10-22-83 6. FILE: 16.13 7. THIS STOP WORK ORDER ISSUED TO: <i>See page 3</i> Also: R. D. Davis D. S. Preslar

## CORRECTIVE ACTION TAKEN:

- A. BPCo Project and Field Engineering Approval of FCNs and FCRs Only
1. Bechtel corrective action taken as described in JARutger's letter to RAWells (Com 136478, BLC-18614) dated December 7, 1983 and GAHierzzer's letter to RAWells (BCCC-8800) dated December 9, 1983. (See Attachments 1 & 2)
- B. Installation and Inspection of Q-Listed Work in the GEO Construction Testing area.
1. Bechtel corrective action taken as described in GAHierzzer's letter to RAWells (BCCC-9008) dated February 8, 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 PEP4.62.1, 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 *DA Taylor* Date 12-9-83  
Time 1820

COMPLETION OF CORRECTIVE ACTION VERIFIED *See Block 15 for details*  
*Initials for actions completed*

BY: *DA Taylor* DATE: 2-9-84

17. STOP WORK ORDER LIFTED *See Block 15 for details*  
*Initials for actions completed*

BY: *DA Taylor* DATE: 2-9-84 TIME: 2:48 PM

4 DASH-4-84

## 3. Allowable exceptions are as noted below:

- a) Actions to maintain safe plant working conditions.
- b) Actions to maintain calibrated instruments.
- c) Actions to implement the storage and maintenance program.
- d) Receipt of materials (no inspections to be performed on received materials).
- e) Training and Certification of GEO NDE personnel.
- f) See Item 5 below for subsequent allowable exceptions.

1 A

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

- a) Bechtel and MPQAD to perform a review and analysis to evaluate the extent of the problem.
- b) Bechtel and MPQAD to take appropriate programmatic action based on 4A.
- c) Reinstruct BPCO, Project Engineering, Field Engineering, and Document Control personnel in the generation and approval of the FCR/FCN form to prevent the problem from recurring.
- d) Bechtel and MPQAD to establish a mechanism for lifting of this Stop Work 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, FCN's and FCR's.
- g) Subcontractor to identify any work or inspection performed to any specifications, drawings, FCR's or FCN's, 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."

1 A

Prepared By R. PoliverDate 11-3-83 2:32 P.M.Approved By [Signature]Date 11-3-8311-3-83

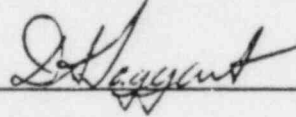
DISTRIBUTION FOR STOP WORK ORDER

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 disbanded)

BLOCK 15 (continued).

- B. Installation and inspection of Q-Listed work in the GEO Construction Testing area includes Architectural, Civil, Instrumentation, Electrical and Mechanical Disciplines
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 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-9008, dated February 8, 1984, Work Prints will be issued to GEO Construction Testing 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  Date 2-9-84  
Time 2:48 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-35

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 department's 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  
FSW35

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



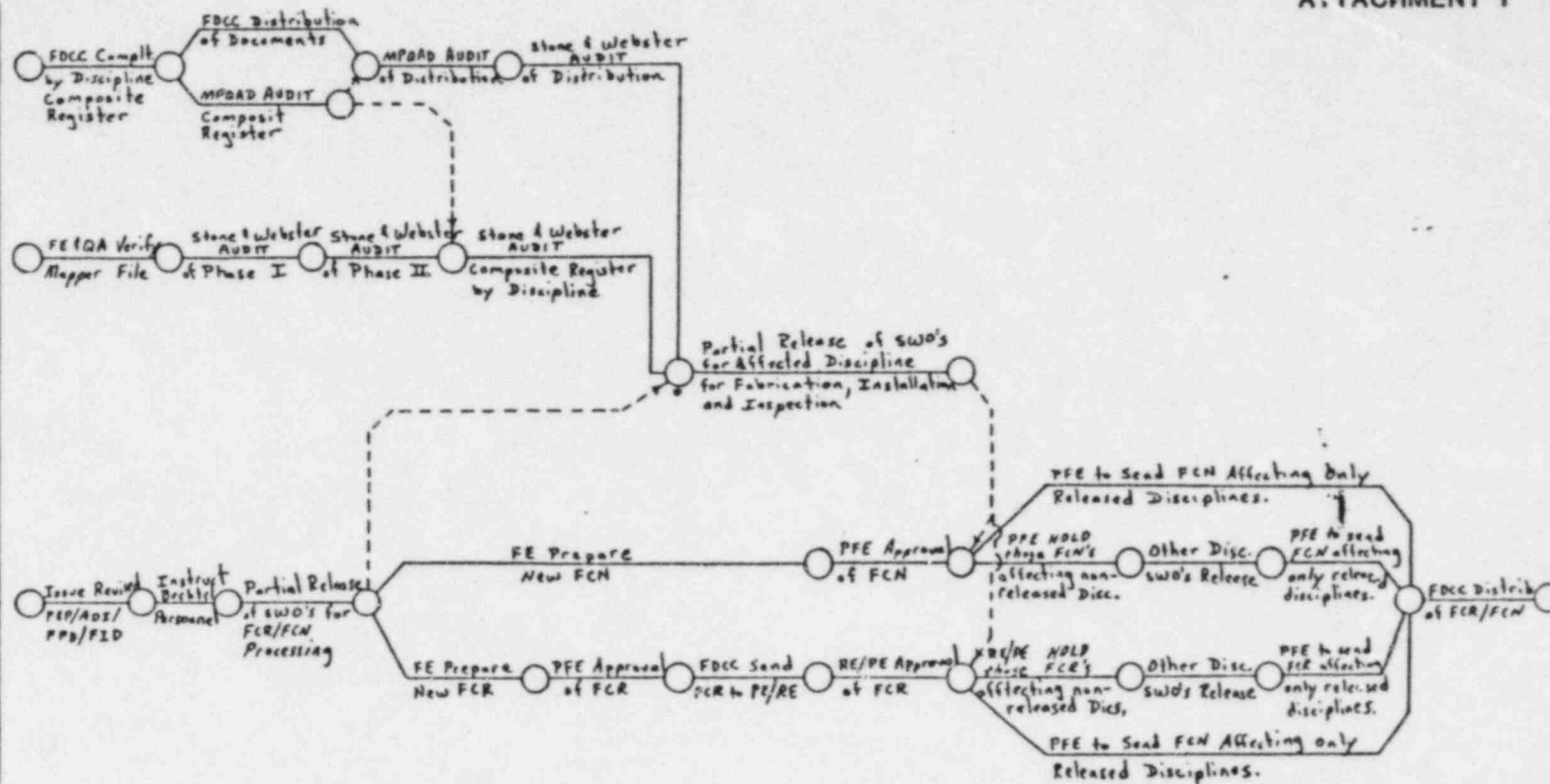
BCCC-8800  
ATTACHMENT 1

# 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 4 e/f/g)



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

REV.	BY	CRD.	APVL.	DATE
0	PFI			12/9/83

~~DAF~~  
*Attachment 3 to Stop Work Order*  
Bechtel Power Corporation *FSW 35*

Post Office Box 2167  
Midland, Michigan 48640



February 8, 1984

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

Stop Work Order  
FSW-35

Attention: R. A. Wells  
Executive Manager - MPQAD

Midland Plant Units 1 & 2  
Bechtel Job 7220  
FSW-35  
BCCC-9008

Dear Mr. Wells:

Your action is requested to lift the subject Stop Work Order to allow the initiation of work by GEO Construction Testing. This request is based on 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 related work has been performed in accordance with FID-2.400, "FCR/FCN Review and Resolution Program".

We have updated the design document registers and distribution lists to reflect the results of this review.

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.

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 GEO Construction Testing (GEO). All appropriate Bechtel personnel involved with the GEO subcontract have been retrained in this procedure per FPG-2.000. In line with this revision to FPZ-1.000, Subcontract Change Notice D-048 was sent to GEO. This SCN notified GEO that they would now be receiving "Work Prints" rather than "Controlled Prints". It further requested that GEO revise their Document Control Procedures and train appropriate personnel in the handling of the change paper.

Item No.

Action

GEO accordingly revised procedure No. 2.4 "Document Control" 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 GEO has the latest revisions with all change paper. Upon release of the GEO Stop Work, The "Controlled" prints will be replaced by "Work Prints" per FPZ-1.000.

*G. A. Hierzer*  
G. A. Hierzer

GAH/JAB/tvm  
020907T3

Written Response Requested: Yes

Response Requested by: 2-9-84

Attachment



## Construction Testing

February 8, 1984

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

Attention: Mr. G. A. Hierzer  
Site Manager

Serial Letter No. GCT-206-766

Gentlemen:


Subject: Midland Plant Units 1 & 2  
Consumers Power Company  
Bechtel Job No. 7220  
Subcontract No. 7220-FSC-206  
Training of Procedure 2.4

On February 7, 1984, Mr. Arnold W. Morrill was instructed, by telephone, to follow the new instructions as stated in Procedure 2.4 Rev. C for the handling of all Client documents.

If we may be of further assistance, please feel free to contact this office.

Very truly yours,

GEO CONSTRUCTION TESTING, INC.

  
Clifton Johnson  
Quality Control Manager

CJ:pcb  
cc: A. Morrill

RECEIVED

FEB 9 1984

BECHTEL POWER CORP.  
JOB 7220  
PER 873 FSC-206

RE 3/9/84  
FSC 4/1/84  
FSC 2-7-84