



Consumers  
Power  
Company

Dean L. Quamme  
Site Manager  
Midland Project

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

February 9, 1984

50-329

50-330

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

PRINCIPAL STAFF			
RA*	Lee	OPRP	
D/RA		DE	
A/RA		ORMSP	
RC		ORMA	
PAO		SCS	orig+3
EGA		ML	
ENF		File	Lee

MIDLAND ENERGY CENTER GWO 7020

RELEASE OF SWO #FSW 33

File: 0402.2, 16.13, M-151 UFI: 50\*20\*03, 08\*06\*03 Serial: CSC-7317

Stop Work Order #FSW 33 has been released by MPQAD effective 11:25 A.M. on February 9, 1984. Bechtel is requested to formally advise The Zack Company of this release. A copy of the released Stop Work Order is attached.

DLQ/DDJ/klp

cc: JGKeppler, NRC Region III  
JHarrison, NRC Region III  
RJCook, NRC Site  
RAWells, MPQAD  
BHPeck, MEC  
NiReichel, MEC  
DDJohnson, MEC

8402220457 840209  
PDR ADOCK 05000329  
S PDR

FEB 15 1984

11 I 801



Rev. 1 11/3/83

MIDLAND PROJECT  
QUALITY ASSURANCE DEPARTMENT

## STOP WORK ORDER

PAGE 1 OF 3

PROJECT: HVAC Subcontract, ZACK and MPQAD-HVACA Inspection		10. SUBJECT OF STOP WORK ORDER: HVAC "Q"-listed Work		1. STOP WORK ORDER NO: FSW-33	
ORAL STOP WORK ORDER GIVEN: BY: AJBoos BY: RAWells DATE: 10-21-83 TIME: 9:50 PM		12. WORK STOPPED: DATE: 10-22-83 TIME: 9:00 AM		2. PREPARED BY: <i>Ken W. Jett</i>	
<p>DESCRIPTION OF CONDITIONS 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. REFERENCE AUDIT MSA-83-32</p> <p>As a result of this condition the following Stop Work is being issued:</p> <ul style="list-style-type: none"><li>BPCo Project or Field Engineering Approval of FCNs or FCRs.</li><li>Fabrication, Installation and inspection in the HVAC area.</li><li>Allowable exceptions to the above items are as noted below:<ul style="list-style-type: none"><li>A. Actions to maintain safe plant working conditions.</li><li>B. Actions to maintain calibrated instruments.</li><li>C. Actions to implement the storage and maintenance program.</li></ul></li></ul>		3. DATE: 10-22-83 TIME: 5:00 PM		4. APPROVED BY: <i>David A. Tugger</i>	
		5. DATE: 10-22-83		6. FILE: 16.13	
		7. THIS STOP WORK ORDER ISSUED TO: GAHierzer JLWood		8. DISPOSED OF:	
		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 JARutger's 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)					
B. Fabrication, installation and inspection of HVAC Q-Listed work by Zack (including Tuttle & Bailey) and HVAC Assurance.					
1. Bechtel corrective action taken as described in G A Hierzer's letter to R A Wells (BCCC-9003R) dated February 9, 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.					
By <i>David A. Tugger</i> Date <u>12-9-83</u> Time <u>1810</u>					
COMPLETION OF CORRECTIVE ACTION VERIFIED			17. STOP WORK ORDER LIFTED		
BY:	DATE:	BY:	DATE:	TIME:	

- D. Receipt of materials (no inspection for receipt acceptance to be performed)
- E. Training and Certification of QA/QC personnel.
- F. HVAC Weld Justification Program.
- G. See Item 5 below for subsequent allowable exceptions.

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- 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 and analysis to evaluate the extent of the problem.
  - B. Take appropriate programmatic action based on 4(a) above.
  - C. Reinspect Bechtel Project Engineering, Field Engineering, Field Document Control and Project Document Control personnel in the generation approval and distribution of the FCR/FCN 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. OliverDate 11-3-832:27 p.m.

Approved By

David A. Taggart

Date

11-3-83| 

DISTRIBUTION FOR STOP WORK ORDER

Sheet 3 of 3 of Stop  
Work Order FSW-33

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)

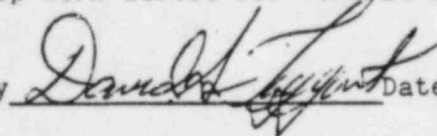
BLOCK 15. (continued)

B. Fabrication, installation, and inspection of HVAC Q-Listed work (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-9003R dated February 9, 1984, Work Prints will be issued to Zack and will be used for work in the scope as 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 11:25 AM



DAT  
DEC 08 1983

Bechtel Power Corporation

Com 236478

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-33

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 dark ink, 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-33

Attention: R.A. Wells  
Executive Manager - MPQAD

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

Dear Mr. Wells:

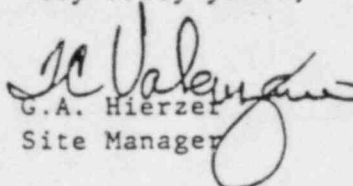
To allow the processing cycle for FCR/FCN to begin, the following steps have been outlined as a guide to control the FCR/FCN approval and distribution activities. See Attachment 1.

- 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



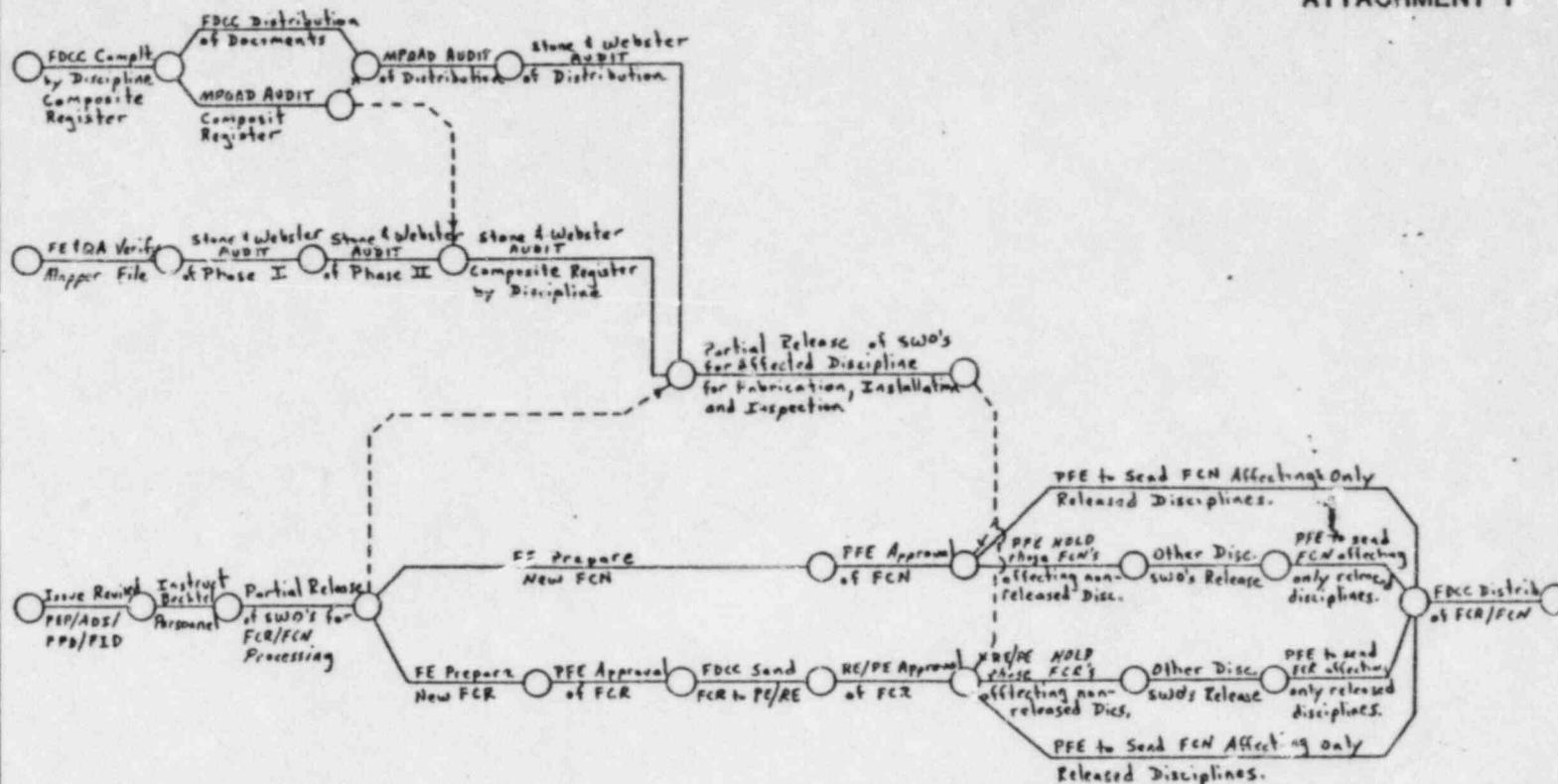
BCCC-8800  
ATTACHMENT 1

# FCR/FCN PROBLEM RESOLUTION

(SWO Item 13, Steps 4b/c/d)

## FCR/FCN PROCESSING

(SWO Item 13, Step 4a &  
SWO's 36,37 Item 13, Steps 4a/f/g)



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

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

Bechtel Power Corporation

Post Office Box 2167  
Midland, Michigan 48640



February 9, 1984

Consumers Power Company  
P.O. Box 31  
Midland, MI 48640

Attention: R. A. Wells

Job 7220 Midland Project  
Midland Plant Units 1 & 2  
FSW 33  
BCCC-9003R

Dear Mr. Wells:

Your action is requested to partially lift the subject Stop Work Order (SWO) to allow the initiation of HVAC related work. 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 the related work has been performed in accordance with FID-2.400, "FCR/FCN Review and Resolution Program".

We have updated the design document register 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 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 issue "work prints" to Zack rather than "Controlled Drawings". All appropriate Subcontract personnel have been reinstructed in the use of this procedure (attachment A). The changes resulting from FPZ 1.000 have been communicated to the Zack Company through Subcontract Change Notice (SCN D-398). This SCN notified the Zack Company of new definitions and procedures associated with document distribution.

Consumers Power Company  
BCCC-9003R  
Page 2

4D

The Zack Company has also revised procedures MB-FP-1, MB-FP-3, MB-FP-5, MB-FP-7A, MB-FP-7B, MB-FP-7C, and MB-FP-12. All appropriate Zack personnel have been reinstructed to these procedures in accordance with their respective training programs. Documentation supporting this is attached (attachment B).

4E & 4F

As the document control registers are released the "Controlled Drawings" will be reviewed to insure that Zack has the latest revisions of all documents and associated change paper. Upon release of the Zack Stop Work Order and the appropriate release of discipline Stop Work Orders (Bechtel) the "Controlled Prints" will be replaced by "Work Prints" per FPZ 1.000.

Yours very truly,

  
G. A. Hierzer  
Site Manager

GAH/JAB/fc

Attachments: A) Bechtel Subcontracts Training Documentation  
B) Zack Subcontracts Training Documentation