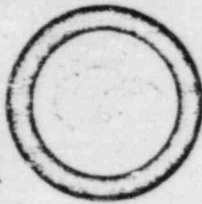


535



**Consumers
Power
Company**

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DOCKETED
USNRC

'84 JUN -7 A11:59

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June 4, 1984

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Apt. B-125
Boca Raton, FL 33433

DOCKETED
PROCEEDINGS

50-329 OL/OM
50-330 OL/OM

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Attached are copies of audit reports and of certain other documents recently issued by the MPQAD.

James E Brunner
James E. Brunner

CC Dr. Ross Landsman, NRC Region III
OL/OM Service List

8406080132 840604
PDR ADOCK 05000329
PDR
G

DS03

AUDIT REPORTS

DATED APRIL 19-25, 1984

RA-00134	H-00018
RA-00149	H-00045
RA-00190	H-00050
RA-00194	H-00070
RA-00195	H-00074
RA-00197	H-00076
RT-00032	H-00078
H-00043	H-00152
M01-9-3-280	H-00153
RA-00193	H-00176
RA-00196	H-00192
RT-00026	H-00193
RT-00032	H-00218
M01-336-2-01F	H-00259
M01-336-2-02F	H-00311
M01-336-2-04F	H-00398
M01-336-2-05F	H-00409
M01-336-2-06F	H-00411
M01-336-2-07F	H-00412
M01-336-2-08F	H-00419
M01-336-2-09F	H-00421 - H-00465
M01-336-2-10F	RH-00025
M01-336-2-11F	RH-00027
MSA-84-9	M01-02-3-01F
(MSA-84-9-01F-08F att.)	M01-02-3-02F
SCRE 108	M01-02-3-03F
RA-00159	M01-02-3-04F
RA-00199	M01-342-2-02F
S-00779	M01-342-2-04F
S-00792	MSA-83-25-11F
RS-00064	MSA-83-33-08F
RS-00157	MSA-84-3-10F
RS-00165	RD-00033
RS-00172	DQA-84-03-01F
RS-00177	RA-00150
RS-00182	RA-00171
RS-00183	RA-00186
H-00011	RA-00201
H-00012	RS-00186
H-00014	FSW-31
H-00017	RD-00026

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212 West Michigan Avenue
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Consumers
Power
Company

MIDLAND PROJECT
QUALITY ASSURANCE DEPARTMENT
QUALITY ACTION REQUEST

ORIGINAL

6. QAR Number RA-00134	
7. Date Issued 3/7/84	8. Revision 0
9. Page <u>1</u> of <u>2</u>	
10. ASME Related <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

1. Requirement
FPD 3.000 Rev. 11

RECEIVED
APR 19 1984
C. P. Co. Legal

2. Deficiency

- Stone and Webster NIR-019 identifies the following deficiencies:
- Bechtel Procedure No. FPD-3.000 Paragraph No. 5.2.2 states in part, that Document Control is responsible for the control of work prints and the maintenance of a Distribution List.
 - During CIO Evaluation No. MP-MIS-082-0001 "Sub Contract Document Control" several discrepancies were identified in the FDDL.

3. QAR Originated by <i>CS</i> C. L. Spinks		4. Discipline/Division/Section PAD	5. Response Due Date 3/15/84	11. Potential 50.55(e) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
12. Date Reported to MPQA Mgr N/A	13. Action Item No. SO 4910	15. Item Priority 06	17. S/U Code PGMOO	19. Action Organization Bechtel Field Document Control
14. Discipline N/A	16. Trend Code G-5	18. Resb Code BCPCO STF-D	20. QAR Reviewed by F. Pointe <i>Pointe</i>	21. Date 3/8/84

22. Cause

~~SUB CONTRACTS DOCUMENT DISTRIBUTION GROUP RECEIVED VERBAL INSTRUCTIONS FROM LEAD FIELD ENGINEER TO REDUCE DISTRIBUTION TO ONE COPY OF ALL DOCUMENTS BEING DISTRIBUTED TO B+W. THE UNSIGNED FORMS WERE SUBMITTED INADVERTENTLY AS PART OF THE DISTRIBUTION REDUCTION EFFORT.~~

~~23. Proposed Corrective Action **CEMEDIAL ACTION**. HAVE LEAD FIELD ENGINEER REVIEW ALL PREVIOUSLY SUBMITTED FORMS AND SIGN WHERE REQUIRED. HAVE ALL SUB-CONTRACT DISTRIBUTION PERSONNEL REVIEW FPD-1.000. PROPOSED CORRECTIVE ACTION: SUBCONTRACT DEPARTMENT PROCEDURE, FPD-1.000 IS THE CONTROLLING DOCUMENT TO PREVENT REOCCUREANCE. DO FURTHER ACTION IS REQUIRED.~~

24. Responsible Organization/Person E. E. CLARY 3-27-84 <i>[Signature]</i>	25. Proposed Completion Date 3-27-84
26. Disposition Concurrence <i>Frank Pointe 4/9/84</i>	<i>See pg. 2</i>
QAR Reviewer	Date
MPQAE (ASME Only)	Date

27. Disposition Action Taken

See block 23.

28. Method of Disposition Verification

SAMPLING OF FDDL

29. QAR Closed by

Frank Pointe 4/17/84
MPQAD Date

Acceptable Unacceptable Superseding QAR RA-00195

PFQCE (ASME Only) Date

QUALITY ACTION REQUEST
CONTINUATION SHEET

QAR NO:
RA-00134

DATE:
3/7/84

REV:
0

PAGE 2 OF 2

Block 2 Continued

◦ Work print request were submitted on February 10, 1984 for specifications No. M-1A and C-304. It was noted that on February 22, 1984 the FDDL had not been revised to reflect the change.

◦ FDDL Printout (Dated February 13, 1984) indicated numerous mechanical drawings on Distribution for Station No. 64 (Subcontracts). Subcontracts stated recent FDDL's had included unsolicited drawings in error.

Cont Block 22: Clerical error

CONT. BLOCK 23: Proposed Corrective Action

Discrepancies identified on RA-00134 were corrected at the time of the evaluation. The FDDL was updated to reflect the accurate distribution for subcontracts document control. Additions and deletions to the FDDL are made on a daily basis and verified the same day. Any errors should be discovered during this verification process. Because of these discrepancies, FDDL procedures were reviewed by the undersigned and her supervisor.

I have reviewed the procedures for changing the FDDL and understand their implementation.

BLOCK 24: FDDL Distribution/D. Barsky
BLOCK 25: 3-23-84

J. Swan 4-11-84



**Consumers
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MIDLAND PROJECT
QUALITY ASSURANCE DEPARTMENT

QUALITY ACTION REQUEST

ORIGINAL

6. QAR Number RA-00149-V	
7. Date issued 03-23-84	8. Revision 0
9. Page <u>1</u> of <u>1</u>	
10. ASME Related <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

1. Requirement

PQCI - E-1.2, REV. 1, Activity 3.3 states: "Visually examine installed supports and materials to assure physical integrity, such as absence of physical damage, rust and/or corrosion."

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2. Deficiency

Contrary to the above: QCE Inspector (RSweet) accepted Activity 3.3 on QCIR No.VE-1.2-0330 Log No. V767 on 3-3-84. A reinspection was performed 3-22-84 and Activity 3.3 was found to be indeterminate. The conduit hanger was covered with core drilling mud. The hanger cannot be inspected until it is cleaned up.

11. Potential 50 55(e)

Yes No

3. QAR Originated by RABarzilowski <i>R.A. Barzilowski</i>		4. Discipline/Division/Section Elect/PAD/IE	5. Response Due Date 04-05-84	12. Date Reported to MPQA Mgr N/A
13. Action Item No. S05502	15. Item Priority 3	17. S/U Code O-EAB	19. Action Organization MPQAD - QC	20. QAR Reviewed by DANott <i>D.A. Nott</i>
14. Discipline E	16. Trend Code ZE-50001	18. Resb Code BOPQC		21. Date 03-26-84

22. Cause

IN THE QCE'S JUDGEMENT THE SUPPORT WAS INSTALLED WITHOUT HARM TO ITS PHYSICAL INTEGRITY.

23. Proposed Corrective Action

CLEAN SUPPORT AND REINSPECT ACTIVITY 3.3.

24. Responsible Organization/Person MPQAD - QC - ELECTRICAL	25. Proposed Completion Date 4-27-84
26. Disposition Concurrence <i>D.A. Nott</i> QAR Reviewer	<i>4/16/84</i> Date
	<i>N/A</i> POAE (ASME Only) Date

27. Disposition Action Taken

28. Method of Disposition Verification

Acceptable Unacceptable Superceding QAR

29. QAR Closed by

MPQAD Date

PFQCE (ASME Only) Date

ORIGINAL



**Consumers
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MIDLAND PROJECT
QUALITY ASSURANCE DEPARTMENT
QUALITY ACTION REQUEST

6. QAR Number RA-00190-V	
7. Date Issued 4/16/84	8. Revision 0
9. Page <u>1</u> of <u>1</u>	
10. ASME Related <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

1. Requirement

1. PQCI E-1.2 Rev. 2 Activity #3.2.C - All combination strut - verify spot welds meet engineering requirements.
2. PQCI E-1.2 Rev. 2 Activity #3.7 - Verify that end caps are installed according to engineering requirements, when applicable.

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2. Deficiency Contrary to the above:

1. QCE inspector E-43 signed Activity #3.2.C on QCIR #VE-1.2-00451 as acceptable. It should have been N/A because a P1000 strut does not require spot welds.
2. On QCIR #VE-1.2-04113 inspector E-43 signed Activity #3.7 as acceptable. It should have been N/A because the support did not require end caps.

11. Potential 50 55(e) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

3. QAR Originated by <u>R. Barziloski</u>		4. Discipline/Division/Section PAD/IE - Electrical		5. Response Due Date 4/30/84		12. Date Reported to MPQA Mgr N/A	
13. Action Item No. S06672		15. Item Priority 4		17. S/U Code PGMOO		19. Action Organization MPQAD - QC	
14. Discipline E		16. Trend Code ZE-60002		18. Resb Code BOPQC		20. QAR Reviewed by DANott <u>(Signature)</u>	
						21. Date 4/17/84	

22. Cause	23. Proposed Corrective Action
-----------	--------------------------------

24. Responsible Organization/Person	25. Proposed Completion Date
-------------------------------------	------------------------------

26. Disposition Concurrence			
QAR Reviewer	Date	PQAE (ASME Only)	Date

27. Disposition Action Taken

28. Method of Disposition Verification		29. QAR Closed by	
<input type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable <input type="checkbox"/> Superceding QAR		MPQAD _____ Date _____	
		PFQCE (ASME Only) _____ Date _____	

ORIGINAL



Consumers
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MIDLAND PROJECT
QUALITY ASSURANCE DEPARTMENT
QUALITY ACTION REQUEST

6. QAR Number RA-00194	
7. Date Issued 4/17/84	8. Revision 0
9. Page <u>1</u> of <u>1</u>	
10. ASME Related <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

1. Requirement

The two following supports are identified as noted below on the individual hanger sketches.

Mark #30"-0HBC-34-H20
Sketch #0-618-1-38(Q)

Mark #30"-0HBC-34-H16
Sketch #0-618-1-29(Q)

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APR 19 1984

C. P. Co. Legal

2. Deficiency

Contrary to the above, these same supports appear on Drawing #H-618-1-Q Rev. 13, (hanger isometric), as noted below.

Mark #30"-0HBC-16-H20
Sketch #GH-0-618-1-38Q

Mark #30"-0HBC-16-H16
Sketch #GH-0-618-1-29(Q)

(Reference Drawing coordinate E-2)

11. Potential 50.55(e) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

3. QAR Originated by <u>M. E. Eisenhour</u> MEisenhour <u>4-17-84</u>	4. Discipline/Division/Section QA - PAD/IE	5. Response Due Date 5/1/84	12. Date Reported to MPCA Mgr N/A
--	---	--------------------------------	--------------------------------------

13. Action Item No. S06707	15. Item Priority 6	17. S/U Code ODEC	19. Action Organization Bechtel Project Engineering	20. QAR Reviewed by <i>[Signature]</i>
14. Discipline M	16. Trend Code ZF-90002	18. Resb Code BPE	21. Date 4-17-84	

22. Cause	23. Proposed Corrective Action

24. Responsible Organization/Person	25. Proposed Completion Date

26. Disposition Concurrence								
<table border="0"> <tr> <td>QAR Reviewer</td> <td>Date</td> <td>PQAE (ASME Only)</td> <td>Date</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	QAR Reviewer	Date	PQAE (ASME Only)	Date				
QAR Reviewer	Date	PQAE (ASME Only)	Date					

27. Disposition Action Taken

28. Method of Disposition Verification	29. QAR Closed by
<input type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable <input type="checkbox"/> Superseding QAR	MPQAD _____ Date _____ PFOCE (ASME Only) _____ Date _____

ORIGINAL



**Consumers
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**MIDLAND PROJECT
QUALITY ASSURANCE DEPARTMENT
QUALITY ACTION REQUEST**

6. QAR Number RA-00195	
7. Date Issued 4-17-84	8. Revision 0
9. Page 1 of 1	

<p>1. Requirement</p> <p>FDD 3.000, Rev 11, Para 7.3 states in part . . . The document controller shall make necessary additions and/or deletions to the work print distribution from the previously established work print distribution in the FDDL.</p>	<p>10. ASME Related <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
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2. Deficiency

To close QAR RA-00134, FDDL printout dated 4-7-84 was checked for accuracy with the results:

1. Station 324 has unsolicited drawing J-73 sheets 1 & 2.
2. Station 266 requested work print drawings C-117 Rev 8 and C-124 Rev 8 on 3-23-84. These drawings do not appear in FDDL dated 4-7-84.

11. Potential 50.55(e) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
12. Date Reported to MPQA Mgr N/A
20. QAR Reviewed by <i>FPointe</i>
21. Date 4/17/84

3. QAR Originated by JZalitis	4. Discipline/Division/Section PAD	5. Response Due Date 4-27-84
13. Action Item No. S06751	15. Item Priority 06	17. S/U Code PGMOO
14. Discipline N/A	16. Trend Code ZD-50003	18. Resb Code BPCO STF-D
19. Action Organization Bechtel Field Document Control		22. Cause

22. Cause	23. Proposed Corrective Action
-----------	--------------------------------

24. Responsible Organization/Person	25. Proposed Completion Date
26. Disposition Concurrence	

<p>QAR Reviewer _____ Date _____</p>	<p>PQAE (ASME Only) _____ Date _____</p>
27. Disposition Action Taken	

<p>28. Method of Disposition Verification</p>	<p>29. QAR Closed by</p>
<p><input type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable <input type="checkbox"/> Superseding QAR</p>	<p>MPQAD _____ Date _____</p> <p>PFOCE (ASME Only) _____ Date _____</p>



**Consumers
Power
Company**

**MIDLAND PROJECT
QUALITY ASSURANCE DEPARTMENT
QUALITY ACTION REQUEST**

6. QAR Number RA-00197	
7. Date Issued 4/18/84	8. Revision 0
9. Page 1 of 2	
10. ASME Related <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

1. Requirement
See attached Stone & Webster NIR # 30

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APR 19 1984
C. P. Co. Legal

2. Deficiency
See attached Stone & Webster NIR # 30

3. QAR Originated by <i>C.L. Spinks</i>			4. Discipline/Division/Section <i>N/A</i>			5. Response Due Date <i>5/10/84</i>			11. Potential 50.55(e) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
13. Action Item No. <i>SO 6786</i>			15. Item Priority <i>6</i>			17. S/U Code <i>N/A</i>			12. Date Reported to MPQA Mgr <i>N/A</i>		
14. Discipline <i>N/A</i>			16. Trend Code <i>BB 50002</i>			18. Resb Code <i>BPQAE-SC</i>			19. Action Organization <i>Bechtel Project QA Engineer</i>		
									20. QAR Reviewed by <i>Frank Potts</i>		
									21. Date <i>4/18/84</i>		

22. Cause						23. Proposed Corrective Action					
24. Responsible Organization/Person						25. Proposed Completion Date					

26. Disposition Concurrence							
QAR Reviewer		Date		PQAE (ASME Only)		Date	

27. Disposition Action Taken

28. Method of Disposition Verification						29. QAR Closed by					
						MPQAD _____ Date _____					
						PFQCE (ASME Only) _____ Date _____					
<input type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable <input type="checkbox"/> Superceding QAR _____											

IM-8059
RM-8060

SHEET 1 OF 1
QAR# RA-00197
Page 2 of 2

STONE AND WEBSTER MICHIGAN, INC.

NONCONFORMANCE IDENTIFICATION REPORT (NIR)

DATE NONCONFORMANCE OBSERVED 3-27-84	CHECKLIST NO. N/A	NIR NO. 030
---	----------------------	----------------

IDENTIFICATION AND LOCATION OF ITEMS/DOCUMENTS/ACTIVITY: *Sept 28/83*
P.O. 7220-F-64832 (A) Rev. 2 (Transamerica DeLaval Inc.)/BPC Purchasing Dept.
P.O. 7220-F-64487 (A) Rev. 1 (Copes Vulcan Inc.)/BPC Purchasing Dept.

DESCRIPTION OF NONCONFORMANCE
Above purchase orders were written and approved by MPQAD for purchasing of ASME material, for ASME applications, from Non-ASME material supplier.

In accordance with BQAM-ASME III Rev. 7 Section 4000 paragraph 4313 and paragraph 4314- "PQAE shall determine that items procured are only from acceptable manufacturers prior to award."

In accordance with paragraph 4311, files of currently acceptable manufacturers of ASME Section III Div 1, items are maintained by procurement. Transamerica DeLaval Inc. and Copes Vulcan Inc. are not on BPC ASME Evaluation Supplier Listing (E.S.L.)

INITIATOR <u>J. Dzak</u>	REVIEWER <u>SA Anthony Dr. V. EK</u>
DATE <u>4.11.84</u>	DATE <u>4-11-84</u>

CORRECTIVE ACTION TAKEN

ACTION VERIFIED: SAT. <input type="checkbox"/> UNSAT. <input type="checkbox"/>	NEW NIR NO.	CONCURRENCE BY CIO PROGRAM MANAGER
CIO INSPECTOR: _____	_____	_____
DATE	DATE	DATE

CIO REMARKS



MIDLAND PROJECT
 QUALITY ASSURANCE DEPARTMENT
 QUALITY ACTION REQUEST

6. QAR Number RT-00032	
7. Date Issued 4/13/84	8. Revision 0
9. Page <u>1</u> of <u>1</u>	
10. ASME Related <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

1. Requirement
 CIO (S&W) NIR 028 lists the following discrepancy: "Any method of making corrections to quality records which obliterates the original information cannot be condoned."

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 APR 19 1984
 C. P. Co. Legal

2. Deficiency
 MPQAD Procedures do not contain guidance for the correction of records.

3. QAR Originated by D E Sands		4. Discipline/Division/Section QSD		5. Response Due Date 4/30/84		11. Potential 50.55(e) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
13. Action Item No. SO 6571		15. Item Priority 2		17. S/U Code PGM00		12. Date Reported to MPQA Mgr	
14. Discipline X		16. Trend Code ZX-50001		18. Resb Code QSD		19. Action Organization QSD - Management Services	
						20. QAR Reviewed by G F Ewert <i>G F Ewert</i>	
						21. Date 4-13-84	

22. Cause Guidance for record correction was not considered necessary when MPQAD Procedure F-12M was revised.	23. Proposed Corrective Action Incorporate guidance in F-12M.
--	--

24. Responsible Organization/Person SEZeller/Program Development		25. Proposed Completion Date 4/23/84	
26. Disposition Concurrence G F Ewert <i>G F Ewert</i> 4/17/84 QAR Reviewer Date		N/A PQAE (ASME Only) Date	

27. Disposition Action Taken

28. Method of Disposition Verification		29. QAR Closed by	
<input type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable <input type="checkbox"/> Superceding QAR		MPQAD _____ Date _____	
		PFQCE (ASME Only) _____ Date _____	

STONE AND WEBSTER MICHIGAN, INC.

NONCONFORMANCE IDENTIFICATION REPORT (NIR)

DATE NONCONFORMANCE OBSERVED 2-15-84	CHECKLIST NO. MP-MIS-072-0001	NIR NO. 028
---	----------------------------------	----------------

IDENTIFICATION AND LOCATION OF ITEMS/DOCUMENTS/ACTIVITY:

Response to NIR Number 015 - Changes to Quality Records

DESCRIPTION OF NONCONFORMANCE

The response to NIR Number 015--Changes to Quality Records--has been evaluated and determined unacceptable.

Any method of making corrections to Quality Records which obliterates the original information cannot be condoned. While the actions described in the response to the NIR are acceptable practices, these requirements should be proceduralized.

INITIATOR <u><i>N.W. Brown</i></u> <i>4/9/84</i>	REVIEWER <u><i>J. Bearden</i></u> <i>4-9-84</i>
DATE <u><i>4-9-84</i></u>	DATE <u><i>4/9/84</i></u>

CORRECTIVE ACTION TAKEN

ACTION VERIFIED: SAT. <input type="checkbox"/> UNSAT. <input type="checkbox"/>	NEW NIR NO. _____	CONCURRENCE BY CIO PROGRAM MANAGER _____
CIO INSPECTOR: _____	DATE _____	DATE _____

CIO REMARKS

DISTRIBUTION FOR QAR #RT 00032

*ACTION: SEZeller

INFO:

JABauer

WRBird

JEBrunner

RBCameron

JWCook

GREagle

GFEwert

BTFoote

DEHorn

DDJohnson (2) One copy to go to S&W

JPKnight

BWMarguglio/DJones

ERMouser

GEParker

DLQuamme

DESandis

RCSember

DATaggart

CMThompson (ALAB-2)

RAWells

FILE 16.0

CONSUMERS POWER COMPANY

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FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

*Original - The original of the QAR is sent to the individual indicated. That individual is responsible for taking care of it, completing the appropriate blocks and returning the original to the QAR reviewer.

The original is stamped in red with the word "Original". On copies, this word will appear black.

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

ORIGINAL

NONCONFORMANCE REPORT

16 NCR NO. H00043 ZZ
17 DATE ISSUED 9-30-83 18 REV 0
19 PAGE 1 OF 2

1 ITEM LOCATION ZACK FAB SHOP

2 ITEM DRAWING/PART NO. V04SH1QR9 3 ITEM PART NAME Duct 4 ITEM SERIAL NO. NA

5 ITEM DESCRIPTION 22" x 8" Transition to 14" Dia. Duct

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6 ITEM STARTUP SYSTEM NO. OGLB 7 REFERENCE DOCUMENT MB-FP-3 Rev.2 8 ASME A.M.I. REQUIRED
 YES NO

9 INSPECTION RECORD NO. H-5-B LOG NO. 135 REV NO. 1 10 RESPONSIBLE ORGANIZATION ZACK

11 NONCONFORMANCE DISCOVERED DURING:
 DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST INSPECT TURNOVER POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT
MB-FP-3 Rev.2 Para. 7.12 states in part: The inspector will use the FSF's controlled copy of the traveler as the basis for the inspection.

13 NONCONFORMANCE
Contrary to the above the FSF had no controlled copy of traveler F25791

14 NCR ORIGINATED BY (PERSON) H. Reynolds 9-30-83
DATE
15 NCR ORIGINATED BY (DISCIPLINE) Mech.

20 NUMBER OF HOLD TAGS (IF APPLIED) 1 21 LOCATION OF HOLD TAGS ON THE Piece

22 POTENTIAL 50.55(e) YES NO 24 ACTION ITEM NO. Z0543 26 ITEM PRIORITY CODE NO. 5 28 NCR REVIEWED BY: Ronald Miller

REPORTED TO MPQA MANAGER DATE _____ 25 DISCIPLINE: M 27 TREND CODE N-6 DATE: 10-3-83

CONTINUED ON REVERSE

F-2M/LA (Rev 1)

29 CAUSE

TRAVELER WAS USED FOR THE CONSTRUCTION, FABRICATION BY THE FIELD AND ALSO USED BY THE FIELD ENGINEER FOR HIS INSPECTION. THE TRAVELER WAS MISPLACED BETWEEN THE TIME THE F.E. HAD COMPLETED HIS INSPECTION AND WHEN MPQAD CAME TO THE SHOP FOR INSPECTION.

ORIGINAL

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. N/A

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

TRAVELER WAS LOCATED

33 DISTRIBUTION FOR ACTION

ZACK COMPANY

34 DISPOSITION CONCURRENCE

<u>[Signature]</u> PROJECT FIELD ENGINEER	<u>10-10-83</u> DATE	<u>[Signature]</u> MPQAD CONCURRENCE	<u>10/12/83</u> DATE	PFQCE (ASME)	DATE
LEAD DESIGN ORG	DATE	CP Co SMO (for turned over systems)	DATE	PQAE (ASME)	DATE
				A.N.I. (ASME)	DATE

35 DISPOSITION ACTION TAKEN

TRAVELER NOW LOCATED WITH ZACK FAB SHOP FOREMAN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

Visual

IF UNACCEPTABLE, REFERENCE SUPERCEDING NCR NUMBER

37 NCR CLOSED BY

[Signature] 1432
MPQAD
DATE
4-12-84

A.N.I. (ASME) DATE



QA 87-1

NON-CONFORMANCE REPORT

MIDLAND PROJECT DEPARTMENT

PAGE 1 OF 3

1. ICE NUMBER:
MO1-9-3-280

2. START-UP SYSTEM: PGMOR		3. PRIORITY CODE: 05		4. FIELD CODE: R-5(28)		5. ACTION ITEM NO: S02210 RECEIVED	
6. PROJECT: MIDLAND PROJECT		7. NONCONFORMING PART NO: See Block 16		8. NONCONFORMING PART NAME: Inspection Report		9. DATE ISSUED: APR 19 1984 8/23/83	
10. NONCONFORMING PART SERIAL NUMBER: Submittal UU-6 POL-Q-040-TOL-Q-0482		11. RESPONSIBLE ORGANIZATION: Remedial Soils		12. LOCATION IN PLANT: N/A		13. DATE OF REVISION: N/A - REV 1 9/26/83	
14. DISTRIBUTION: ACTION: MF DeWitt Doliver JK Meisenheimer INFO: DE Beaudoin JAMooney WR Bird GEParker JE Brunner BHPeck JW Cook TKSbramanian ML Curland DATaggart MADietrich RAWells CTFollin ALAB-2 BT Foote KAMcDonald MHanbury ARGort HPLeonard MMCarlson JPKnight PMudd BWMarguglio/DJones REMccue PAElbert DBMiller RLMillican		16. REMARKS: (1) AAPD/PSP G6.1 Rev 8 Section 1.2 and Rev 7 Section 4.3a requires revised PQCI's shall be implemented into the quality program as they are approved and IRs shall reference the applicable PQCI. (2) PQCI/UP-C-1.009 Rev 3,4,5 Special Instruction No 1 states in part...reference criteria for active (Continued on Page 3)					
15. FILE NUMBER: 16.0		17. NONCONFORMANCE: Contrary to the requirements, (1) a document review of 38 IRs, (Submittal UU-6) indicated that the revision of 13 PQCI's recorded on the IR were not the applicable revision in effect at the time the inspection was performed. See Attachment A. (2) A document review of the same submittal stated above, indicated that the revision of 2, primary specifications, and, 13 drawings recorded on the IR were not the applicable revision in effect at the time the inspection was performed. See Attachment A.					
19. ENGINEERING DISPOSITION REQ?		20. G-LIST EQUIP. INVOLVED?		21. PROCESS CA REQ? (SEE BACK)		22. HOLD TAGS APPLIED?	
YES		NO		YES		NO	
		X		X		X	
23. LOCATION OF TAGS:		24. REPORTED BY: N/A					
N/A		25. REPORTED TO: N/A		26. DATE OF REPORT: N/A		27. TIME OF REPORT: N/A	
29. NCR ORIGINATED BY: KAMcDonald		30. WRITTEN REPLY REQUIRED: 9/19/83		31. SUPERVISOR'S SIGNATURE/DATE: <i>R. Subramanian</i> 8.23.83			
32. PART CORRECTIVE ACTION PROPOSED: See attached letters from M F DeWitt to T K Subramanian, January 23, 1984 and R L Oliver to T K Subramanian March 12, 1984.		32a. THERNICAL DEPT CONCURRENCE-SIG/DATE: N/A		32b. CP Co CONSTRUCTION CONCURRENCE-SIG/DATE: <i>R. L. Oliver</i> 4/12/84			
34. PART CORRECTIVE ACTION VERIFIED: MPQAD QC Welding has corrected inspection records impacted by this NCR according to provisions in PSP-7.1 in the presence of QA and have evaluated and documented that the inspections performed meet the requirements.		33. QA CONCURRENCE-SIG/DATE: <i>Ka McDonald</i> 4/12/84		35. VERIFIED BY-SIG/DATE: <i>Ka McDonald</i> 4/12/84			
36. HOLD TAGS REMOVED BY-SIGNATURE/DATE: N/A		37. NCR CLOSED BY - SIGNATURE/DATE: <i>Ka McDonald</i> 4/12/84					



NONCONFORMANCE REPORT PROCESS CORRECTIVE ACTION

4. ASSESSMENT OF ROOT CAUSE(S):

To be determined by organizations responsible for Process Corrective Action.

39. ACTUAL ROOT CAUSE(S), IF DIFFERENT FROM ABOVE (TO BE COMPLETED BY ORG. RESPONSIBLE FOR PROCESS CA):

~~N/A~~ KAM 4/12/84
SEE ATTACHED LETTER KAM 4/12/84

40. PROCESS CA REQUIRED FROM:

DESIGN <input type="checkbox"/>	FABRICATION <input type="checkbox"/>	CONSTRUCTION <input type="checkbox"/>	PROCUREMENT <input type="checkbox"/>	INSPECTION <input checked="" type="checkbox"/>	MPQAD QC Soils
OTHER: MPQAD-QA Soils					

41. QA RECOMMENDATION FOR PROCESS CA:
- Recommend Soils QA perform and document a review of IRs recently signed-off, by Level II, (within 90 days), to determine if the addressed discrepancies are recurrent. (DOLiver)
 - Recommend Soils QC develop a system to ensure that IRs are accurate and acceptable at the time of the Level II review and sign-off. (MFDeWitt)
 - Recommend Soils QC instruct inspection personnel on the requirements for revising reference criteria on the IR contained in AAPD/PSP6.1, and PQCI Special Instructions. (MFDeWitt)
 - Recommend Soils QC perform and document a review of IRs that are in the turnover mode but not yet reviewed by MPQAD-PAP-TO for the discrepancies noted in this NCR. (MFDeWitt)
- * Please respond to item by number when addressing Block 41.

42. PROCESS CA TO BE TAKEN BY ORG(S) CHECKED IN BLOCK 41 & DATE OF COMPLETION:

SEE ATTACHED LETTER KAM 4/12/84

43. METHOD OF PROCESS CA VERIFICATION:

SEE ATTACHED LETTER KAM 4/12/84

44. SIG. OF ORG. RESPONSIBLE FOR PROCESS CA SIGNIFYING COMPLETION:
SEE ATTACHED LETTER KAM 4/12/84

45. PROCESS CA COMPLETION VERIFIED BY/DATE:
N/A

BLOCK 16 REQUIREMENT CONTINUED:

PQCI's/IRs shall be reviewed daily and changes in revisions recorded on the IR.

BLOCK 18 RECOMMENDED PART CORRECTIVE ACTION CONTINUED:

inspection performed meets the requirement of the procedure revision in effect,
at the time the inspection was performed.

TO

FROM

MFDewitt *M. Dewitt*

DATE

January 23, 1984

SUBJECT

MIDLAND ENERGY CENTER PROJECT -
QUALITY CONTROL'S FINAL RESPONSE
TO NCR M01-9-3-28C

File 16.0

CC

GBJohnson
KAParr

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FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

INTERNAL
CORRESPONDENCE
MFD-007-84

In response to NCR M01-9-3-280 the following is submitted as a final response:

Block 18: MPQAD QC Welding has corrected inspection records impacted by NCR M01-9-3-280 according to provisions in PSP-7.1 in the presence of QA and have evaluated and documented that the inspections performed meet the requirements.

Block 39: Construction activities, drawing revision, PQCI revision and contractor procedure revisions out paced the welding/structural QC department's staff.

Block 41: Process Corrective Action taken has been by increasing the QC #2 staffing to provide personnel time to accomplish each activity in the inspection. Increased man-hour availability for Level II reviews, and reducing QC Engineers weekly hours from 80 hours per week to 50 hours per week has solved our discrepancy problem. Reviews of recent inspection records has demonstrated the acceptability of our records (internal Level II reviews).

Block 41: Soils QC inspection personnel receive instructions on the requirements for revising reference criteria and PQCI special instructions #3 each time a given PQCI has a revision which has been numerous since the date of this NCR (8/23/83), therefore, recommendation #3 would be redundant.

Attachment A to NCR lists inspection record UP-C-1.009, log number 204650 as having drawing C-1445 recorded as revision 2 and effective revision as 6, when in fact the drawing pertaining to the inspection is C-1445-2 Revision 2. Log number 204657 on Attachment A lists PQCI recorded revision as 5, when actual revision is 3.

Block 41: Per conversation with A Gort as to the intent of "... inspection #4 records that are in the turnover mode...", Quality Control has completed the review of all inspection records associated with turnover package UU-6.

MFD/sld

TO TKSubramanian
FROM RLOliver *R Oliver*
DATE March 12, 1984
SUBJECT MIDLAND ENERGY CENTER PROJECT -
QA Response to NCR MO1-9-3-280
FILE: 16.0
CC RFBukoski
JPFoley

**Consumers
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INTERNAL
CORRESPONDENCE

RLO-019-84

Block 41 #1:

Soils QA performed a review of twenty-nine IR's which were signed-off by a Level II between May 1983 and January 1984.

This review showed that on IR UP-C-2.042-9 (Log No. 204709) Field Procedure FIG-1.111, Rev. 6, should have been Rev. 7 at the time of inspection. Rev. 7 was effective on May 17, 1983 - the same day that the inspection was performed. On IR C-2.22-42 (Log No. 197366), Spec. C-195, Rev. 2, should have been Rev. 3 at the time of inspection. On IR UP-C-1.005-16 (Log No. 203896), FCR #C-6140 for drawing C-1424(Q) was not listed but should have been.

In conclusion to this review, the discrepancies listed in NCR MO1-9-3-280, appear to be isolated cases and therefore no further review is recommended.

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MIDLAND, MICHIGAN

ACTION	ORIGINAL	PRINTS
INFO		
ROUTE		<i>RBC/KAM/K</i>
FILE	<i>16.0</i>	
COPIES SENT AS ADDRESSED		

ORIGINAL



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MIDLAND PROJECT
QUALITY ASSURANCE DEPARTMENT
QUALITY ACTION REQUEST

6. QAR Number RA-00193-V	
7. Date issued 4/17/84	8. Revision 0
9. Page <u>1</u> of <u>3</u>	
10. ASME Related <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

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APR 23 1984

C. P. Co. Legal

1. Requirement

- i. Procedure E-3M Rev. 2 Deviation Request #208 sub-paragraph (a) of the "NOTE" 6.b.(2) states: "On IDCN(s) that are stamped CWR required:
 - (a) If the CWR does not implement the use of the IDCN, the QCE shall revert back to the previous revision(s) of the design drawing and/or Design Change Package for inspection criteria and record the applicable document and revision in the Reference Criteria on the IR."

2. Deficiency

Contrary to E-3M Rev. 2 Deviation Request #208 Section 6 NOTE and AAPD/PSP G-6.1 Section 5.8, above:

QCE's implementing PQCI E-5.0, when they have an IR which has an IDCN that is stamped "POST T/O WORK CWR REQUIRED" are not reverting back to previous revisions of Drawing E-900 as required. QCE's have been instructed to "NCR" activity 3.9 of E-5.0 (1st shift), and "all" final activities.

11. Potential 50.55(e)

Yes No

3. QAR Originated by RASavoie <i>RJ</i>		4. Discipline/Division/Section PAD/IE - Electrical		5. Response Due Date 5/17/84		12. Date Reported to MPQA Mgr N/A	
13. Action Item No. S06705		15. Item Priority 2		17. S/U Code PGM00		19. Action Organization MPQAD - QC	
14. Discipline E		16. Trend Code ZE-60001		18. Resb Code BOPQC		20. QAR Reviewed by DANott <i>DANott</i>	
						21. Date 4/18/84	

22. Cause				23. Proposed Corrective Action			
24. Responsible Organization/Person				25. Proposed Completion Date			

26. Disposition Concurrence

QAR Reviewer	Date	PQAE (ASME Only)	Date
--------------	------	------------------	------

27. Disposition Action Taken

28. Method of Disposition Verification		29. QAR Closed by	
<input type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable <input type="checkbox"/> Superseding QAR		MPQAD _____ Date _____ PFGCE (ASME Only) _____ Date _____	

QUALITY ACTION REQUEST
CONTINUATION SHEET

QAR NO:
RA-00193-V

DATE:
4/17/84

REV:
0

PAGE 2 OF 3

1. REQUIREMENT (continued)

2. AAPD/PSP G-6.1 Section 5.8 states in part:

5.8 The QCE shall implement the activities described in the PQCI to verify

conformance of construction to requirements. The QCE shall confirm

acceptance of the activities described in the PQCI and document by

initialing and dating the appropriate sign-off blocks on the QCIR.

Once an inspection activity is initiated, the inspection activity shall

be carried to its completion and all associated attributes shall be inspected.

Prior to signing off an activity, all items scoped for that activity must

have been inspected and found to be acceptable in accordance with the

PQCI or identified and controlled in accordance with AAPD/PSP G-3.2/F-2M.

2. DEFICIENCY (continued)

(2nd shift). The Quality Verification Program (QVP) is to assess the quality of

existing equipment and materials. To NCR all applicable final activities is contrary

to E-3M NOTE (a) and AAPD/PSP G-6.1 (5.8) because not all final activities have

either E-900 or the IDCN as inspection criteria. These activities should be verified

for conformance to their specific construction requirements (Inspection Criteria).

QUALITY ACTION REQUEST
CONTINUATION SHEET

QAR NO: RA-00193-V

DATE: 4/17/84

REV: 0

PAGE 3 OF 3

2. DEFICIENCY (continued)

Examples of the above deficiencies:

1. Log #V2246

QCIR #V-2AB8910A-2

IDCN #22627

NCR #C-02212-V-T0

2. Log #V-342

QCIR #V-2AB5534A-2 Rev. 1

IDCN #22113

NCR #C-02377-V

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MIDLAND PROJECT
QUALITY ASSURANCE DEPARTMENT
QUALITY ACTION REQUEST

6. QAR Number RA-00196-V-T0	
7. Date Issued 04/17/84	8. Revision 0
9. Page 1 of 1	

1. Requirement
IR General Instructions, Block 4 states in part: The QCE shall identify the NCR Number on the IR/SSIR adjacent to the associated attributes.

10. ASME Related
 Yes No

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APR 23 1984
C. P. Co. Legal

2. Deficiency
Contrary to the above: On QCIR No. VM-7.00-0P-75A, NCRs C-02827V-T0 and C-02829V-T0 were not listed on the IR.

11. Potential 50.55(e)
 Yes No

3. QAR Originated by MSShealy <i>MSShealy</i>		4. Discipline/Division/Section PAD/IE		5. Response Due Date 05/17/84		12. Date Reported to MPQA Mgr N/A	
13. Action Item No. S06765		15. Item Priority 5		17. S/U Code OEAA		20. QAR Reviewed by <i>M. Merritt</i>	
14. Discipline M		16. Trend Code ZP-50002		18. Resb Code BOPQC		21. Date 04-18-84	

22. Cause				23. Proposed Corrective Action			
24. Responsible Organization/Person				25. Proposed Completion Date			

26. Disposition Concurrence

QAR Reviewer	Date	PQAE (ASME Only)	Date
--------------	------	------------------	------

27. Disposition Action Taken

28. Method of Disposition Verification		29. QAR Closed by	
<input type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable <input type="checkbox"/> Superseding QAR		MPQAD _____ Date _____ PFQCE (ASME Only) _____ Date _____	



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MIDLAND PROJECT
QUALITY ASSURANCE DEPARTMENT

QUALITY ACTION REQUEST
THIS REPLACES ORIGINAL

6. QAR Number RT 00026	
7. Date Issued 1/30/84	8. Revision 0
9. Page <u>1</u> of <u>1</u>	
10. ASME Related <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

1. Requirement
CIO NIR No. 014 lists the following discrepancy.

RECEIVED
APR 19 1984
C. P. Co. Legal

2. Deficiency
Field Procedure Number FPD-1.000 Paragraph Number 5.2 3.2.2 states "... A copy of all transmittals for "Q" listed items are transmitted to MPQAD and the Project Supplier Quality Representative."
During CIO Evaluation Number MP-MIS-074-001 it was determined that the above requirement was not being satisfied. Copies of "Q" transmittals were not being distributed to either MPQAD or Project Supplier Quality Representative.

3. QAR Originated by D M Turnbull		4. Discipline/Division/Section QSD		5. Response Due Date 2/6/84		11. Potential 50.55(e) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
13. Action Item No. SO 4381		15. Item Priority 06		17. S/U Code PGMOO		12. Date Reported to MPQA Mgr N/A	
14. Discipline N/A		18. Trend Code DNT		18. Resb Code CP CO SM		19. Action Organization Site Management Office	
						20. QAR Reported by GFEWERT	
						21. Date 1/30/84	

2. Cause
Per attached Bechtel Letter No. BCCC-8995 dated February 6, 1984.

23. Proposed Corrective Action ~~Per attached Bechtel Letter No. BCCC-8995 dated February 6, 1984. Subsequent to this letter, MPQAD has determined that "Q" transmittals do not need to be transmitted to MPQAD or Project Supplier Quality Representative. Procedure FPD-1.000 is being revised to delete this requirement. No impact on the project occurred in as much as this requirement has been determined unnecessary.~~
(See attached corrected response)

24. Responsible Organization/Person SMO/BPeck		25. Proposed Completion Date Complete.	
26. Disposition Concurrence			
QAR Reviewer	Date	MPQA (ASME Only)	Date


27. Disposition Action Taken
Procedure revised to delete the requirement for submittal to MPQAD, and impact on lack of submittal to the Project Supplier Quality Representative evaluated (see letter BCCC-9176, attached).

28. Method of Disposition Verification Reviewed procedure revision to verify change. Reviewed transmittals to Project Supplier Quality Representative to verify procedure compliance.		29. QAR Closed by G F Ewert 4/16/84 MPQA Date N/A 4/16/84 Date	
<input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable <input type="checkbox"/> Superseding QAR		PFQE (ASME Only) Date	

Corrected response to QAR RT-00026

The following letters (attached) provide a complete response to QAR RT-00026:

- 1) BPCo letter BCCC-8995 dated February 6, 1984,
G A Hierzer to D L Quamme.
- 2) CPCo letter CSC-7360 dated February 22, 1984,
D L Quamme to G A Hierzer.
- 3) BPCo letter BCCC-9176 dated March 26, 1984,
G A Hierzer to D L Quamme.


3/29/84

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640



February 6, 1984

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

Attention: D. L. Quamme
Site Manager

Midland Plant Units 1 & 2
Bechtel Job 7220
STONE AND WEBSTER NIR 014
MPQAD QAR RT-00026
BCCC-8995

This is a complete response to QAR RT-00026.

Cause: Upon review of FDCC operations it appeared transmittals for "Q" listed supplier documents were not being sent to MPQAD and the Project Supply Quality Representative at the time of engineering approval and return of the suppliers document to the vendor. This has been evaluated as a personnel error.

Corrective Action: FDCC processing activities have been changed to meet the procedural requirements of FPD-1.000. A copy of the transmittals are now being sent to MPQAD and the Project Supplier Quality Representative. The vendor document lead redirected document control personnel in the appropriate procedure.

If you have any questions concerning the above, please contact J. E. Russell at extension 7240.

G. A. Hierzer
G. A. Hierzer

GAH/JAB/tvm
020602T3
Written Response Requested: No
cc. N. Reichel



Consumers
Power
Company

Dean L. Quamme
Site Manager
Midland Project

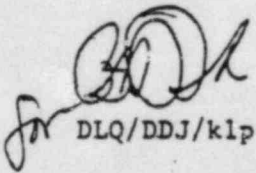
Midland Project: PO Box 1983, Midland, MI 48640 • (517) 631-8650

February 22, 1984

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

MIDLAND ENERGY CENTER GWO 7020
RESPONSE TO QAR RT-00026 (CIO NIR-014)
File: B1.1.7, 0655.3 UFI: 99*08, 53*50*04 Serial: CSC-7360

Your letter No. BCCC-8995 dated February 6, 1984 in response to the above QAR provided corrective action taken to prevent recurrence. However, the impact of not complying with the requirements of FPD-1.000, Section 5.2.3.2.2 in the past was not addressed. To provide a complete response, please provide us an evaluation of the impact of non compliance in the past.



DLQ/DDJ/klp

cc: RAWells, MPQAD
BHPeck, MEC
NIReichel, MEC
DDJohnson, MEC

Bechtel Power Corporation

Post Office Box 2167
Midland, Michigan 48640
March 26, 1984



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

Attention: D. L. Quamme
Site Manager

Midland Plant Units 1 & 2
Bechtel Job 7220
STONE & WEBSTER NIRO14
MPQAD QAR RT-00026
BCCC-9176

Dear Mr. Quamme:

Reference: 1. CPCo Letter CSC-7360, D.L. Quamme to G.A. Hierzer,
dated February 22, 1984.

This is Bechtel Construction's complete response to Reference 1.

Per MPQAD request, revision 20 to FPD-1.000 has deleted the requirement for MPQAD's receipt of copies on "Q" Listed Supplier Documents. No potential impact exists for failure to comply with the Procedure requirement.

No potential quality impact exists with the Project Supplier Quality Representative. Prior to supplier quality inspections a review is made to assure that all documentation has been approved.

Very truly yours,

G. A. Hierzer
G. A. Hierzer
Site Manager

GAH
GAH/JER/ajd

cc: N. Reichel



**Consumers
Power
Company**

MIDLAND PROJECT
QUALITY ASSURANCE DEPARTMENT
QUALITY ACTION REQUEST

6. QAR Number RT-00032	
7. Date Issued 4/13/84	8. Revision 0
9. Page <u>1</u> of <u>1</u>	
10. ASME Related <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

1. Requirement

CIO (S&W) N.L. 028 lists the following discrepancy: "Any method of making corrections to quality records which obliterates the original information cannot be condoned."

RECEIVED
APR 23 1984
C. P. Co. Legal

2. Deficiency

MPQAD Procedures do not contain guidance for the correction of records.

3. QAR Originated by D E Sands		4. Discipline/Division/Section QSD		5. Response Due Date 4/30/84		11. Potential 50.55(e) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
13. Action Item No. SO 6571		15. Item Priority 2		17. S/U Code PGM00		12. Date Reported to MPQA Mgr	
14. Discipline X		16. Trend Code ZX-50001		18. Resb Code QSD		19. Action Organization QSD - Management Services	
						20. QAR Reviewed by G F Ewert <i>[Signature]</i>	
						21. Date 4-13-84	

22. Cause

Guidance for record correction was not considered necessary when MPQAD Procedure F-12M was revised.

23. Proposed Corrective Action

Incorporate guidance in F-12M.

24. Responsible Organization/Person SEZeller/Program Development		25. Proposed Completion Date 4/23/84	
26. Disposition Concurrence G F Ewert <i>[Signature]</i> 4/17/84 QAR Reviewer Date		N/A PQAE (ASME Only) Date	

27. Disposition Action Taken

Deviation Request 237 prepared against MPQAD Procedure F-12M to describe how MPQAD records are to be corrected or revised.

28. Method of Disposition Verification Reviewed DR #237.		29. QAR Closed by <i>[Signature]</i> 4/18/84 MPQAD G F Ewert Date	
<input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable <input type="checkbox"/> Superceding QAR		N/A PFOCE (ASME Only) Date	

STONE AND WEBSTER MICHIGAN, INC.

NONCONFORMANCE IDENTIFICATION REPORT (NIR)

DATE NONCONFORMANCE OBSERVED 2-15-84	CHECKLIST NO. MP-MIS-072-0001	NIR NO. 028
IDENTIFICATION AND LOCATION OF ITEMS/DOCUMENTS/ACTIVITY: Response to NIR Number 015 - Changes to Quality Records		
DESCRIPTION OF NONCONFORMANCE The response to NIR Number 015--Changes to Quality Records--has been evaluated and determined unacceptable. Any method of making corrections to Quality Records which obliterates the original information cannot be condoned. While the actions described in the response to the NIR are acceptable practices, these requirements should be proceduralized.		
INITIATOR <u>NW Brown</u> DATE <u>4-9-84</u>	REVIEWER <u>A. Deane</u> DATE <u>4/9/84</u>	
CORRECTIVE ACTION TAKEN		
ACTION VERIFIED: SAT. <input type="checkbox"/> UNSAT. <input type="checkbox"/>	NEW NIR NO.	CONCURRENCE BY CIO PROGRAM MANAGER
CIO INSPECTOR: _____	_____	_____
DATE	DATE	DATE
CIO REMARKS		



Consumers Power Company
QA-50-2

AUDIT FINDING REPORT

RECEIVED

OBJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

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

APR 23 1984

C.P. Co. Legal

Final Safety Analysis Report Table 3.2-1 provides the applicable Codes and Standards, including AWS D1.1 Structural Welding Code.

Subcontract 7220-M-151, Exhibit D, includes Technical Specification 7220-M-151A(Q). M151A(Q), paragraphs 2.1e and 14.9 impose the Contractual requirements for Welding Procedure and Welder Qualifications, including the requirements of AWS D1.3-78.

AWS D1.3-78, paragraph 6.8.2.9 requires the welding procedure used in qualification of a welder to be qualified welding procedure. AWS D1.3-78, paragraph 6.6 establishes variables considered to be essential changes in a welding procedure which will require establishing a new procedure by qualification.

- a) 6.6 (11) states: "A change in Shielding Gas (For GMAW & FCAW)."
- b) 6.6 (14) states: "An increase of 25 percent or more in the rate of flow of shielding gas or mixture (for GMAW or FCAW)."

APR SER NO: MO1-336-2-01, REV. 1

PROJ/DEPT AUDITED: Photon Testing, Inc.

DATE OF ISSUANCE: December 17, 1982

FILE NUMBER: 46-0-13.4 CLOSED

DISTRIBUTION:

JGBalazer	TKSubra
WRBird	manian
JEBrunner	DATaggart
DECalkins	RAWells
JWCook	JLWood
MLCurland	MBMcLean
MADietrich	JJSelvidio
DWGrif	TWTate
GSKeeley	JLZimmerman
BWMarguglio	ALAB-2
RBMCarley	
JKMeisenheimer	SEE
DBMiller	ATTACHED
JAMooney	DISTRIB.
EJRiley	

4/18/84 RIM

RECOMMENDED CORRECTIVE ACTION:

- 1) Obtain and document the Engineer's evaluation of the change in Shielding Gas Mixture used during the testing of welders.
- 2) A) Determine and document what effect the use of an argon Flow Meter with a 25 percent (Continued on page 2)

CORRECTIVE ACTION COMMITMENT:

Corrective Action commitment will be determined by January 14, 1983.

4/18/84

DATE OF C/A COMPLETION: 4/13/84

DATE OF C/A EFFECTIVENESS: 4/13/84

ORG. RESP FOR C/A:

The Zack Company

PERSON MAKING C/A COMMITMENT:

EJRiley

METHOD OF VERIFICATION:

Reference interoffice correspondence to file dated April 13, 1984, Serial 19900.

IS AF REPORTABLE PER 50.55(*): 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>[Signature]</i> 12/17/82	APPROVED BY/DATE: <i>[Signature]</i> 12/17/82
C/A VERIFICATION SIGNATURE: <i>[Signature]</i>	VERIFICATION DATE: 4-13-84



AUDIT FINDING REPORT

CONTINUATION SHEET:

AFR: M01-336-2-01, REVISION 1

"AS IS" CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED):

The Zack Company WPS-7, Rev. 9, Test 7.1B (Attachment 2, page 16 or 58) specified a flow rate of 30 CFH utilizing Carbon Dioxide (CO_2) shielding gas.

Contrary to the above, a prospective Zack Welder was witnessed performing a qualification weldment for Zack WPS-7, Rev. 8, test number 7.1B (AWS D1.3) utilizing a Shielding Gas mixture of 25 percent CO_2 and 75 percent Argon at a flow rate of 24 CFH as measured on a straight Argon Flow meter. Similar conditions were also witnessed for test 7.1D given to the same welder.

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

CO_2 and 75 percent Argon mixture would have on the flow meter reading.

- B) Calculate the actual flow rate being utilized from the information obtained in A) above, and if this flow rate exceeds allowable tolerances, obtain the Engineer's evaluation of the effect this will have on a Welder Qualification Test.

CORRECTIVE ACTION (CONTINUED):



Consumers Power Company QA-50-2

AUDIT FINDING REPORT

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

Final Safety Analysis Report Table 3.2-1 provides the applicable codes and standards, including AWS D1.1 Structural Welding Code.

Subcontract 7220-M-151, Exhibit D, includes Technical Specification 7220-M-151A(Q). M151A(Q), paragraphs 2.1e and 14.9 impose the Contractual requirements for Welding Procedure and Welder Qualifications, including the requirements of AWS D1.1-79.

AWS D1.1-79, paragraph 5.2 requires the Joint Welding Procedures which are to be employed in executing contract work under this code to be qualified (or prequalified), prior to use, to the satisfaction of the engineer, by tests prescribed in Part B of Section 5.

AWS D1.1-79, paragraph 1.3.1 excludes GMAW short circuiting transfer from the provisions for a procedure to be deemed prequalified and therefore, requires procedure qualification tests to be performed. AWS D1.1-79, paragraph 5.25.1 requires the welder to follow a joint welding procedure specification applicable to the
(Continued on page 2)

AFR SER NO: M01-336-2-02, REV. 1

PROJ/DEPT AUDITED: Photon Testing, Inc.

DATE OF ISSUANCE: December 17, 1982

FILE NUMBER: 16:0 18.4 CLOSED

DISTRIBUTION:

JGBalazer	TKSubra-
WRBird	manian
JEBrunner	DATaggart
DECalkins	RAWells
JWCook	JLWood
MLCurland	MEMcLean
MADietrich	JJSelvidio
DWGraf	TWTate
GSKeeley	JLZimmerman
BWMargaglio	ALAB-2
RBMcCarley	
JKMeisenheimer	SEE
DBMiller	ATTACHED
JAMooney	DISTRIB.
EJRiley	

RECOMMENDED CORRECTIVE ACTION:

- 1) Qualify joint design used for welder qualifications to WPS-1.

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APR 23 1984

C. P. Co. Legal

CORRECTIVE ACTION COMMITMENT:

Corrective Action commitment will be determined by January 14, 1982- 1983.

DATE OF C/A COMPLETION: 4/13/84

DATE OF C/A EFFECTIVENESS: 4/13/84

ORG. RESP FOR C/A:

The Zack Company

PERSON MAKING C/A COMMITMENT:

EJRiley

METHOD OF VERIFICATION:

Reference interoffice correspondence to file dated April 13, 1984, Serial 19900.

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

N/A

AFR ORIGINATOR'S SIGNATURE/DATE: *[Signature]* 12/17/82

APPROVED BY/DATE: *[Signature]* 12/17/82

C/A VERIFICATION SIGNATURE: *[Signature]*

VERIFICATION DATE: 4-13-84



Consumers
Power
Company

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT

CONTINUATION SHEET:

Page 2 of 2
AFR: M01-336-2-02, REVISION 1

"AS IS" CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED):

joint design being used when performing a welder qualification test.

Contrary to the above, the Zack Company WPS-1, Rev. 11, does not contain a procedure qualification record to support the welder qualifications which have been performed in accordance with WPS-7, Rev. 9, Test 7.1D.

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

CORRECTIVE ACTION (CONTINUED):



Consumers Power Company
QA-50-2

AUDIT FINDING REPORT

OBJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

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

Requirement #2 of the Zack Company Purchase Order number C15496 issued to Photon Testing, Inc. for service to qualify welding procedures and welders, states "Base materials and filler metal is to be provided by the Zack Company".

Contrary to this, the review of filler metal inventory and issuance area, revealed that the E7018 and E70S-3 filler material being used, and in stock, could not be traced to the Zack Company records by production number. In addition, one of three production numbers for E6011 electrode in stock could not be traced to the Zack Company records. The electrodes, containers and storage areas did not contain identifying marks to readily segregate the Zack Company rod from Photon stock rod. No E7018 electrode qualification weldments were witnessed during the course of the Audit.

NOTE: This is a Zack Purchase Order requirement, not a Project or Welding Code requirement.

AFR SER NO:	M01-336-2-04, REV. 1
PROJ/DEPT AUDITED:	Photon Testing, Inc.
DATE OF ISSUANCE:	December 17, 1982
FILE NUMBER:	46-9 18.4 CLOSED
DISTRIBUTION:	
JGBalazer	TKSubra-
WRBird	manian
JEBrunner	DATaggart
DECalkins	RAWells
JWCook	JLWood
MLCurland	MEMcLean
MADietrich	JSelvidio
DWGrav	TWTate
GSKeeley	JLZimmerman
BWMargulio	ALAB-2
RBMccarley	
JKMeisenheimer	SEE
DBMiller	ATTACHED
JMooney	DISTRIB.
EJRiley	

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APR 23 1984

C. P. Co. Legal

RECOMMENDED CORRECTIVE ACTION:

- 1) Evaluate the impact of utilizing electrodes which were not traceable to Zack records for personnel qualification weldments.
- 2) Prior to performing any additional qualification weldments, provide method of (Continued on page 2)

CORRECTIVE ACTION COMMITMENT:

- 1) The proper AWS Specification/Classification filler metal was in stock and in use at Photon, during the Audit. There is no adverse impact upon the weldments produced.
- 2) Corrective Action Commitment will be determined by January 14, 1982-1983.

DATE OF C/A COMPLETION: 1) 10/16/82 4/21/83
DATE OF C/A EFFECTIVENESS: 4/21/83

ORG. RESP FOR C/A:	PERSON MAKING C/A COMMITMENT:
The Zack Company	E. Riley

METHOD OF VERIFICATION:

- 1) Review of information obtained during the Audit and Welding Code Requirements.
- 2) Review of Zack Co. response dated January 17, 1983, and Photon Testing, Inc. response dated December 15, 1982.
- 3) Review of Zack Co. procedures MB-FP-17 and 18.

IS AF REPORTABLE PER 50.55(e): YES NO

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

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

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

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

N/A

AFR ORIGINATOR'S SIGNATURE/DATE:
Bonino 12/17/82

APPROVED BY/DATE:
[Signature] 12/17/82

C/A VERIFICATION SIGNATURE:
Beir Fabner 4/21/83

VERIFICATION DATE:
4-21-83



Consumers
Power
Company

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT

Page 2 of 2

AFR: M01-336-04, REVISION 1

CONTINUATION SHEET:

"AS IS" CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED)

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

segregation and issuance to assure proper electrodes are used for Zack welder and procedure qualifications.

CORRECTIVE ACTION (CONTINUED):



Consumers Power Company
QA-50-2

AUDIT FINDING REPORT

OBJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

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Page 1 of 3

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

Final Safety Analysis Report Volume 14, Appendix 3A, page 3A-37 invokes Regulatory Guide 1.28, dated June 7, 1972 which applies ANSI N45.2-1971 Quality Assurance Program Requirements for Nuclear Facilities.

Contract 7220-M-151, Exhibit D includes specification 7220-G-23, Rev. 9. G-23, Rev. 9, paragraph 2.2 states in part, "For those items not within the scope of the (ASME B&PV) code, ANSI N45.2-1971 QA program requirements shall be applicable. These Quality Assurance requirements shall apply to all aspects of the work necessary for carrying out this contract."

ANSI N45.2-1971, paragraph 13 states in part, "Measures shall be established and documented to assure that tools, gages, instruments, and other inspection, measuring, and testing equipment and devices used in activities affecting quality are of the proper range, type, and accuracy to verify conformance to established requirements. To assure accuracy, inspection, measuring, and test equipment shall be controlled, calibrated, adjusted, and main-

(Continued on page 2)

APR 23 1984

AFR SER NO:	M01-33b-2-05, REV. 1
PROJ/DEPT AUDITED:	P. Co. Le... Photon Testing, Inc.
DATE OF ISSUANCE:	December 17, 1982
FILE NUMBER:	16-0 18.4 CLOSED
DISTRIBUTION:	
JGBalazer	TKSubra
WRBird	manian
JEBrunner	DAtaggart
DECalkins	RAWells
JWCook	JLWood
MLCurland	MBMcLean
MADietrich	JJSelvidio
DWGraf	TWTate
GSKeeley	JLZimmerman
BWMargaglio	ALAB-2
RBMcCarley	
JKMeisenheimer	SEE
DEMiller	ATTACHED
JAMooney	DISTRIB.
EJRiley	

RECOMMENDED CORRECTIVE ACTION:

- 1) Calibrate the thermometer with records traceable to NBS and then recalibrate the rod oven. Provide calibration records for the thermometer and rod oven for MPQAD review.
 - 2) Revise calibration frequency to meet the requirements of the Zack Co. Purchase Order
- (Continued on page 2)

CORRECTIVE ACTION COMMITMENT:

Corrective Action commitment will be determined by January 14, 1982- 1983.

4/18/84

DATE OF C/A COMPLETION: 4/13/84

DATE OF C/A EFFECTIVENESS: 4/13/84

ORG. RESP FOR C/A:	PERSON MAKING C/A COMMITMENT:
The Zack Company	EJRiley

METHOD OF VERIFICATION:

Reference interoffice correspondence to file dated April 13, 1984, Serial 19900.

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

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

AFR ORIGINATOR'S SIGNATURE/DATE: *[Signature]* 12/17/82

APPROVED BY/DATE: *[Signature]* 12/17/82

C/A VERIFICATION SIGNATURE: *[Signature]*

VERIFICATION DATE: 4-13-84



"AS IS" CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED)

tained at prescribed intervals or prior to use against certified equipment having known valid relationships to nationally recognized standards.....

The method and interval of calibration for each item shall be defined and shall be based on the type of equipment, stability characteristics, required accuracy, and other conditions affecting measurements control..."

Zack Co. Purchase Order number C15496 issued to Photon Testing, Inc. for service to qualify welding procedures and welders, requirement #5 states in part, "...Calibration of measuring and test equipment shall be performed at least once each year by an Agency whose standards
(Continued on page 3)

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

- 3) Revise calibration frequency to meet the requirements of the Zack Co. Purchase Order and have the Ammeter in question recalibrated. Provide these calibration records for MPQAD review.
- 4) Obtain a Calibrated Voltage Meter, calibrate the voltage meter(s) on the GMAW Power Source(s) used for testing, document the differences between the calibrated meter and the GMAW Power Source Meter, document the actual voltage readings for SMAW equipment being used for testing and provide these results for the Engineer's evaluation.

CORRECTIVE ACTION (CONTINUED):

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

are traceable to the National Bureau of Standards. Evidence of calibration agency's capability shall be in the form of a letter from that Agency."

Contrary to this:

- 1) The thermometer used to calibrate the rod oven did not have any calibration records to provide traceability to National Bureau of Standards (NBS). No identification number for this thermometer was available.
- 2) The Tinius Olsen Tensile Testing Machine (Serial No. R-7608) calibration records show calibration dates of 4/23/80 and 2/23/82, and a required calibration frequency not to exceed 24 months. The certification for this Tinius Olsen Tensile Machine could not be traced to NBS.
- 3) The Columbia AC-DC Tong Test Ammeter type AC, Serial No. AX 58040, scale range 0-200, calibration records show the last calibration being performed on August 11, 1980 and a calibration frequency not to exceed 36 months.
- 4) Review of measuring and test equipment provided by Photon revealed that no calibrated voltage meter was available to monitor voltage during qualification testing to assure the welder was performing the qualification weldments within the voltage parameters of the Welding Procedure Specification.



Consumers Power Company QA-50-2

AUDIT FINDING REPORT

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

Final Safety Analysis Report Table 3.2-1 provides the applicable codes and standards, including AWS D1.1 Structural Welding Code.

Subcontract 7220-M-151, Exhibit D includes Technical Specification 7220-M-151A(Q). M-151A(Q), paragraphs 2.1e and 14.9 impose the Contractual Requirements for Welding Procedure and Welder Qualifications, including the requirements of AWS D1.1-79.

AWS D1.1-79, paragraph 6.7.7, Personnel Qualification, states in part, "Personnel performing nondestructive testing shall be qualified in accordance with the current edition of American Society for Non-destructive Testing Recommended Practice No. SNT-TC-1A. Only individuals qualified for NDT Level I and working under NDT Level II or individuals qualified for NDT Level II may perform nondestructive testing."

- 1) Photon Testing, Inc. eye examination form states in part, "... The person administering the eye test must be either an optometrist, a medical doctor, or a registered nurse..."
(Continued on page 2)

AFR SER NO: MO1-336-2-06, REV. 1

PROJ/DEPT AUDITED: Photon Testing, Inc

DATE OF ISSUANCE: December 17, 1982

FILE NUMBER: 16-0 18.4 CLOSED

DISTRIBUTION:

JGBalazer	TKSubra-
WRBird	manian
JEBrunner	DATaggart
DECalkins	RAWells
JWCook	JLWood
MLCurland	MEMcLean
MADietrich	JSelvidio
DWGraf	TWTate
GSKeeley	JLZimmerman
BWMargوليو	ALAB-2
RBMCCarley	
JKMeisenheimer	SEE
DBMiller	ATTACHED
JAMooney	DISTRIB.
EJRiley	RECEIVED

RECOMMENDED CORRECTIVE ACTION:

- 1) Administer eye examinations to Photon Testing personnel as required. APR 23 1984
- 2) Provide previous eye examinations for Photon Testing personnel to support NDE qualifications for certifications. C.P. Co. Legal

CORRECTIVE ACTION COMMITMENT:

Corrective Action commitment will be determined by January 14, 1982-1983.
4/18/84

DATE OF C/A COMPLETION: 4/21/83

DATE OF C/A EFFECTIVENESS: 4/21/83

ORG. RESP FOR C/A:

The Zack Company

PERSON MAKING C/A COMMITMENT:

EJRiley

METHOD OF VERIFICATION:

Review of eye examinations provided in the Photon Testing, Inc. response dated December 12, 1982.

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

AFR ORIGINATOR'S SIGNATURE/DATE:

[Signature] 12/17/82

APPROVED BY/DATE:

[Signature] 12/17/82

C/A VERIFICATION SIGNATURE:

[Signature] 4/21/83

VERIFICATION DATE:

4-21-83



AUDIT FINDING REPORT

CONTINUATION SHEET:

AFR: M01-336-2-06, REVISION 1

"AS IS" CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED)

Page 2 of 3

- 2) ASNT recommended practice No. SNT-TC-1A (June 1975 edition), paragraph 8.2.a.1 states in part, "...An eye examination shall be given to assure natural or corrected near distance acuity..."
- 3) SNT-TC-1A, paragraph 8.2.a.2 states in part, "...Individual shall also be capable of distinguishing and differentiating contrast between colors used..."

(Continued on page 3)

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

CORRECTIVE ACTION (CONTINUED):

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

Contrary to the above:

- 1) Eye examination forms for currently employed inspector personnel were dated 9/1/82 and administered by Mr. Charles Garinger, President of Photon Testing, Inc. There is no evidence that the prerequisites for signing the form have not been met.
- 2) Color vision examinations were not administered. NOTE: This requirement exists for NDE qualification to review RT film for certifying procedures and personnel.
- 3) Mr. Charles Garinger administered his own eye examination.
- 4) No evidence of any previous eye examinations are on file for any Photon personnel (active or inactive), to support NDE qualification requirements.

NOTE: Four (4) Procedure Qualification Records (PQR's) for the Zack Company Weld Procedure Specifications (WPS) 3 and 4 (two PQR's for each WPS), and twenty three (23) Zack Welder Qualifications are effected by this finding.



Consumers Power Company
QA-50-2

AUDIT FINDING REPORT

OBJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

Page 1 of 3
APR 23 1984

"AS IS" CONDITION VERSUS "AS REQUIRED" / "AS NEEDED" CONDITION WITH REFERENCES:
Final Safety Analysis Report Table 3.2-1 provides the applicable codes and standards, including AWS D1.1 Structural Welding Code.

Subcontract 7220-M-151, Exhibit D includes Technical Specification 7220-M-151A(Q). M151A(Q), paragraph 2.1e and 14.9 impose the Contractual requirements for Welding Procedure and Welder Qualifications, including the requirements of AWS D1.1-79.

AWSD1.1-79, paragraph 6.7.7, Personnel Qualification states in part, "Personnel performing nondestructive testing shall be qualified in accordance with the current edition of American Society for Non-Destructive Testing Recommended Practice No. SNT-TC-1A. Only individuals qualified for NDT Level I and working under the NDT Level II or individuals qualified for NDT Level II may perform nondestructive testing."

ASNT Recommended Practice No. SNT-TC-1A (June 1975 edition), paragraph 9.4 states: "At the option of the employer, an outside agency may be engaged to provide NDT Level III services. In such instances, (Continued on page 2)"

AFR SER NO: M01336-2-07, REV. 1

PHOTO DEPT AUDITED: Photon Testing, Inc.

DATE OF ISSUANCE: December 17, 1982

FILE NUMBER: 18.0 18.4 CLOSED

DISTRIBUTION:	
JGBalazer	TKSubra
WRBird	manian
JEBrunner	DATaggart
DECalkins	RAWells
JWCook	JLWood
MLCurland	MBMcLean
MADietrich	JJSelvidio
DWGrav	TWTate
GSKeeley	JLZimmerman
BWMargulio	ALAB-2
RBMCarley	
JKMeisenheimer	SEE
DEMiller	ATTACHED
JAMooney	DISTRIB
EJRiley	

RECOMMENDED CORRECTIVE ACTION:

- 1) Certify Photon Testing personnel to existing Photon Testing procedure.
- 2) Photon Testing to audit Sperry Schools for NDT and maintain record of audit as required.

CORRECTIVE ACTION COMMITMENT:

Corrective Action Commitment will be determined by January 14, 1982. 1983.

4/13/84

DATE OF C/A COMPLETION: 4/13/84

DATE OF C/A EFFECTIVENESS: 4/13/84

ORG. RESP FOR C/A:
The Zack Company

PERSON MAKING C/A COMMITMENT:
EJRiley

METHOD OF VERIFICATION:

Reference interoffice correspondence to file dated April 13, 1984, Serial 19900.

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

N/A

AFR ORIGINATOR'S SIGNATURE/DATE:

APPROVED BY/DATE:

[Signature]

12/17/82

[Signature]

12/17/82

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:

[Signature]

4-13-84



Consumers
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Company

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT

CONTINUATION SHEET:

Page 2 of 3
AFR: MO1-336-2-07, REVISION 1

"AS IS" CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED):

the responsibility of certification must be retained by the employer utilizing the outside services."

SNT-TC-1A, paragraph 9.5 states in part, "...The purchaser of outside services is responsible for auditing the agency providing such services...He must maintain a written record of his audit."

Contrary to the above:

- 1) Photon Testing, Inc. is currently using Automation Industries, Inc. (Sperry Schools NDT) as an outside agency to provide certification of Photon NDE personnel.

(Continued on page 3)

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

CORRECTIVE ACTION (CONTINUED):

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

- 2) Photon Testing Inc. has not performed an audit of the Sperry Schools for NDT as required.
- 3) Photon Testing has not implemented and is not currently following their own certification program for NDE personnel.

- NOTE: 1) Photon's certification program manual was signed by Mr. Charles Garinger on 9/13/82 with a back date of 7/1/82.
- 2) Four (4) Procedure Qualification Records (PQR's) for the Zack Company Weld Procedure Specifications (WPS) 3 and 4 (two PQR's for each WPS), and twenty three (23) Zack Welder Qualifications are affected by this finding.



Consumers Power Company
QA-50-2

AUDIT FINDING REPORT

OBJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

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

Final Safety Analysis Report, Volume 14, Appendix 3A, page 3A-37 invokes Regulatory Guide 1.28 dated June 7, 1972 which applied ANSI N45.2-1971 Quality Assurance Program Requirements for Nuclear Facilities.

Contract 7220-M-151, Exhibit D includes specification 7220-G-23, Rev. 9. Specification 7220-G-23, Rev. 9, paragraph 2.2 states in part, "For those items not within the scope of the (ASME B&PV) code, ANSI N45.2-1971 QA Program Requirements shall be applicable. These Quality Assurance requirements shall apply to all aspects of the work necessary for carrying out this contract."

ANSI N45.2-1971, paragraph 7 states in part, "Measures shall be established and documented to control the issuance of documents, such as instructions, procedures, and drawings, including changes thereto, which prescribe activities affecting quality...those participating in an activity shall be made aware of and use proper and current instructions, procedures, drawings, and engineering requirements for performing the activity." The Zack Company Purchase Order
(Continued on page 2)

AFR SER NO:	M01-336-2-08, REV. 1
PROJ/DEPT AUDITED:	Photon Testing, Inc.
DATE OF ISSUANCE:	December 17, 1982
FILE NUMBER:	16-0 18.4 CLOSED
DISTRIBUTION:	
JGBalazer	TKSubra-
WRBird	manian
JEBrunner	DATaggart
DECalkins	RAWells
JWCook	JLWood
MLCurland	MBMcLean
MADietrich	JJSelvidio
DWGraf	TWTate
GSKeeley	JLZimmerman
BWMargوليو	ALAB-2
RBMCarley	
JKMiessenheimer	SEE
DBMiller	ATTACHED
JAMooney	DISTRIB.
EJRiley	RECEIVED

RECOMMENDED CORRECTIVE ACTION:

1) Evaluate and Document:

- A) The difference between WPS 7, Rev. 8 and WPS 7, Rev. 9.
- B) The effect using Rev. 8 in lieu of Rev. 9 would have on the Personnel Qualification/Certification Process.

APR 23 1984

C. P. Co. Legal

CORRECTIVE ACTION COMMITMENT:

Corrective Action commitment will be determined by January 14, 1983.

204
4/18/84

DATE OF C/A COMPLETION: 4/13/84

DATE OF C/A EFFECTIVENESS: 4/13/84

ORG. RESP FOR C/A:	PERSON MAKING C/A COMMITMENT:
The Zack Company	EJRiley

METHOD OF VERIFICATION:

Reference interoffice correspondence to file dated April 13, 1984, Serial 19900.

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: N/A
IF "YES", WHO MADE REPORT: N/A	
AFR ORIGINATOR'S SIGNATURE/DATE: <i>[Signature]</i> 12/17/82	APPROVED BY/DATE: <i>[Signature]</i> 12/17/82
C/A VERIFICATION SIGNATURE: <i>[Signature]</i>	VERIFICATION DATE: 4-13-84



Consumers
Power
Company

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT

Page 2 of 2

CONTINUATION SHEET:

AFR: M01-336-2-08, REVISION 1

AS IS" CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED):

Number C15496, Requirement G states in part, "Documentation of examinations and tests...will be on forms provided by the Zack Company."

Contrary to this:

- 1) The Zack Company Welding Procedure, provided by Zack and being used for Welder Qualifications by Photon during the Audit, was WPS 7, Rev. 8 (Rev. 8 was hand written on the top right hand corner of the form). WPS 7, Rev. 9 was in effect at the time of the Audit.

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

CORRECTIVE ACTION (CONTINUED):



Consumers Power Company
QA-50-2

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE **RECEIVED**

Page 1 of 3 APR 23 1984

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

Final Safety Analysis Report Table 3.2-1 provides the Applicable codes and Standards, including AWS D1.1 Structural Welding Code.

Subcontract 7220-M-151, Exhibit D includes Technical Specification 7220-M-151A(Q). M151A(Q), paragraph 2.1e and 14.9 impose the Contractual requirements for Welding Procedure and Welder Qualifications, including the requirements of AWS D1.1-79.

AWS D1.1-79, paragraph 6.7.7, Personnel Qualification states in part, "Personnel performing nondestructive testing shall be qualified in accordance with the current edition of American Society of Non-destructive Testing Recommended Practice No. SNT-TC-1A. Only individuals qualified for NDT Level I and working under the NDT Level II or individuals qualified for NDT Level II may perform nondestructive testing."

ASNT Recommended Practice No. SNT-TC-1A (June 1975 edition), paragraph 9.6.1 states in part, "... The personnel records of the certified individuals should include as a minimum the following: ...

(Continued on page 2)

AFR SER NO:
MO1-336-2-C.P. Co. Legal

PROJ/DEPT AUDITED:
Photon Testing, Inc.

DATE OF ISSUANCE:
December 17, 1982

FILE NUMBER: 16-0 18.4 CLOSED

DISTRIBUTION:

JGBalazer	TKSubra-
WRBird	manian
JEBrunner	DATaggart
DECalkins	RAWells
JWCook	JLWood
MLCurland	MBMcLean
MADietrich	JJSelvidio
DWGrif	TWTate
GSKeeley	JLZimmerman
BWMarguglio	ALAB-2
RMBcCarley	
JKMeisenheimer	SEE
DBMiller	ATTACHED
JMooney	DISTRIB.
EJRiley	

4/18/84 gm

RECOMMENDED CORRECTIVE ACTION:

- 1) Photon Testing, Inc. is to provide all missing documentation for NDE personnel.
- 2) Photon Testing, Inc. is to obtain supporting documentation from Delta College to attest to experience noted in attached letter, and provide an estimate of scope and magnitude of testing (hours per month).

CORRECTIVE ACTION COMMITMENT:

Corrective Action commitment will be determined by January 14, 1982-1983.

4/13/84

DATE OF C/A COMPLETION: 4/13/84

DATE OF C/A EFFECTIVENESS: 4/13/84

ORG. RESP FOR C/A:

The Zack Company

PERSON MAKING C/A COMMITMENT:

EJRiley

METHOD OF VERIFICATION:

Reference interoffice correspondence to file dated April 13, 1984, Serial 19900.

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

N/A

AFR ORIGINATOR'S SIGNATURE/DATE:

[Signature] 12/17/82

APPROVED BY/DATE:

[Signature] 12/17/82

C/A VERIFICATION SIGNATURE:

[Signature]

VERIFICATION DATE:

4-13-84



AUDIT FINDING REPORT

CONTINUATION SHEET:

5 15" CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED)

- c) Educational background and experience of certified individual.
- d) Statement indicating satisfactory completion of training in accordance with the employer's written procedure.
- e) Copies of current examination and of grades for all previous examinations and description of practical test objects..."

Contrary to the above:

(Continued on page 3)

COMMENDED CORRECTIVE ACTION (CONTINUED):

CORRECTIVE ACTION (CONTINUED):

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

- 1) Photon Testing, Inc. NDE personnel files did not contain a statement indicating completion of training in accordance with the employer's written procedure.
- 2) Mr. Charles Garinger's personnel file did not contain the following:
 - a) Level III examinations for Magnetic Particle or Penetrant Testing.
 - b) Evidence of required training for Magnetic Particle or Penetrant testing.
 - c) Documentation of sufficient experience to support the Level III certification in Radiography, Magnetic Particle or Penetrant Testing.

- NOTE: 1) Mr. Garinger prepared and typed an additional letter to his file on 9/15/82 to attest to additional experience at Delta College. Resume in file does not indicate this experience. SEE ATTACHED LETTER.
- 2) Four (4) Procedure Qualification Records (PQR's) for the Zack Company Weld Procedure Specification (WPS) 3 and 4 (two PQR's for each WPS), and twenty three (23) Zack Welder Qualifications are affected by this finding.



Consumers Power Company
QA-50-2

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

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

Final Safety Analysis Report Table 3.2-1 provides the applicable codes and standards, including AWS D1.1 Structural Welding Code.

Subcontract 7220-M-151, Exhibit ' include Technical Specification 7220-M-151A(Q). M151A(Q), paragraphs 2.1e and 14.9 impose the Contractual requirements for Welding Procedures and Welder Qualifications, including the requirements of AWS D1.1-79.

AWS D1.1-79, paragraph 6.7.7, Personnel Qualification states in part, "Personnel performing nondestructive testing shall be qualified in accordance with the current edition of American Society for Nondestructive Testing Recommended Practice No. SNT-TC-1A. Only individuals qualified for NDT Level I and working under the NDT Level II or individuals qualified for NDT Level II may perform nondestructive testing."

ASNT Recommended Practice No. SNT-TC-1A (June 1975 edition), Table 6.2.1 requires 60 hours of training and 12 months of experience as a part of the Qualification Requirement needed for an individual to
(Continued on page 2)

AFR SER NO:	M01-336-2-10, REV. 1
PROJ/DEPT AUDITED:	Photon Testing, Inc.
DATE OF ISSUANCE:	December 17, 1982
FILE NUMBER:	46-0 18.4 CLOSED
DISTRIBUTION:	
JGBalazer	TKSubra-
WRBird	manian
JEBrunner	DATaggart
DECalkins	RAWells
JWCook	JLWood
MLCurland	MBMcLean
MADietrich	JJSelvidio
DWGraf	TWTate
GSKeeley	JLZimmerman
BWMargaglio	ALAB-2
RBMCarley	
JKMeisenheimer	SEE
DBMiller	ATTACHED
JAMooney	DISTRIB.
EJRiley	

RECOMMENDED CORRECTIVE ACTION:

- 1) Certify individual in accordance with Photon Testing written practices dated 7/1/82
- 2) Provide supporting documentation to substantiate certifications.

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C. P. Co. Legal

CORRECTIVE ACTION COMMITMENT:

Corrective Action Commitment will be determined by January 14, 1983.

del
4/13/84

DATE OF C/A COMPLETION: 4/13/84
DATE OF C/A EFFECTIVENESS: 4/13/84

ORG. RESP FOR C/A:	PERSON MAKING C/A COMMITMENT:
The Zack Company	EJRiley

METHOD OF VERIFICATION:

Reference interoffice correspondence to file dated April 13, 1984, Serial 19900.

IS AF REPORTABLE PER 50.55(*): 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>[Signature]</i> 12/17/82	APPROVED BY/DATE: <i>[Signature]</i> 12/17/82
C/A VERIFICATION SIGNATURE: <i>[Signature]</i>	VERIFICATION DATE: 4-13-84



Consumers
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AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT

CONTINUATION SHEET:

AFR: M01-336-2-10, REVISION 1
Page 2 of 3

3 15" CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED)

be considered for Level II RT Certification.

Contrary to the above:

1) Personnel files of Scot M. Yesmunt indicate an employment start date of May 25, 1981 at Photon Testing, and that Photon Testing has been his only source of NDE work experience. The files also indicate that:

a) Mr. Yesmunt was certified Level II RT on January 26, 1982 (after eight (8) months of experience) by Sperry Schools.

(Continued on page 3)

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

CORRECTIVE ACTION (CONTINUED):

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

- b) Mr. Yesmunt conducts testing three (3) hours a day (see attachment). This does not specify in what category the three (3) hours are used, as Mr. Yesmunt is also certified in Magnetic Particle and Penetrant Inspection.
 - c) Mr. Yesmunt has been performing his daily testing functions since January 26, 1982 as a certified Level II RT Technician.
- 2) Personnel files of Laurel L. Firmingham indicate an employment start date of April 1, 1981 at Photon Testing and that Photon Testing has been her only source of NDE work experience.

The file also indicates that:

- a) Laurel L. Firmingham was certified Level II RT on February 26, 1982 (after 11 months of experience) by Sperry Schools.
- b) Insufficient training hours are recorded.
- c) Ms. Firmingham has been performing her daily testing functions since February 26, 1982 as a certified Level II RT Inspector.

NOTE: 1) During the audit, no testing of any kind was performed.

- 2) Four (4) Procedure Qualification Records (PQR's) for the Zack Company Weld Procedure Specifications (WPS) 3 and 4 (two PQR's for each WPS), and twenty three (23) Zack Welder Qualifications are affected by this finding.



Consumers
Power
Company
QA-50-2

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE **RECEIVED**

Page 1 of 3 APR 23 1984

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

Final Safety Analysis Report Volume 14, Appendix 3A, page 3A-88, in regard to offsite inspection, examination or testing personnel of supplies, states in part, "Bechtel procurement documents will require that the supplier's QA program provides measure to ensure that personnel performing safety-related inspections, examinations, and tests are qualified to perform these activities. Such measures include procedures for qualification of personnel describing the minimum experience, training, and proficiency testing required for qualification. The measures also include requirements for records documenting qualifications for each of the supplier's inspection, examination, and testing personnel."

Contract 7220-M-151, Exhibit D includes specification 7220-G-23, Rev. 9. Specification 7220-G-23, Rev. 9, paragraph 3.9.1 states in part, "The supplier's quality assurance program shall provide measures to assure that personnel performing safety-related inspections, examinations, and tests are qualified to perform these activities. Such measures include procedures for qualifications of personnel describing the minimum experience, training and proficiency testing required for qualification. The measures shall

(Continued on page 2)

APR SER NO:
M01-336-2-C.P.Co. Legal

PROJ/DEPT AUDITED:
Photon Testing, Inc

DATE OF ISSUANCE:
December 17, 1982

FILE NUMBER: 46:0 18.4 CLOSED

DISTRIBUTION:

JGBalazer	TKSubra-
WRBird	manian
JEBrunner	DATaggart
DECalkins	RAWells
JWCook	JLWood
MLCurland	MBMcLean
MADietrich	JJSelvidio
DWGraf	TWTate
GSKeeley	JLZimmerman
BWMargaglio	ALAB-2
RBMcCarley	
JKMeisenheimer	SEE
DBMiller	ATTACHED
JAMooney	DISTRIB.
EJRiley	

Handwritten: 4-13-84 QM

RECOMMENDED CORRECTIVE ACTION:

- 1) Certify individuals to the requirements of Photon's current written procedure or, revise procedure to meet needs based on contractual requirements.
- 2) Determine the effective date of each individuals certification based on Photon's Qualification/Certification Procedure(s).

CORRECTIVE ACTION COMMITMENT:

Corrective Action commitment will be determined by January 14, ^{QM 4-13-84} ~~1982~~ 1983.

DATE OF C/A COMPLETION: 4/13/84	ORG. RESP FOR C/A: The Zack Company	PERSON MAKING C/A COMMITMENT: EJRiley
DATE OF C/A EFFECTIVENESS: 4/13/84		

METHOD OF VERIFICATION:
Reference interoffice correspondence to file dated April 13, 1984, Serial 19900.

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: N/A
IF "YES", WHO MADE REPORT: N/A	
AFR ORIGINATOR SIGNATURE/DATE: <i>[Signature]</i> 12/17/82	APPROVED BY/DATE: <i>[Signature]</i> 12/17/82
C/A VERIFICATION SIGNATURE: <i>[Signature]</i>	VERIFICATION DATE: 4-13-84



AUDIT FINDING REPORT

CONTINUATION SHEET:

AFR: M01-336-2-11, REVISION 1

"AS IS" CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED):

also include requirements for records documenting qualifications for each of the suppliers' inspection, examination, and testing personnel.

Photon Testing, Inc. NDE Personnel Training Qualification and Certification Manual, Section II, Visual Examination outlines the scope and requirements for personnel to be certified inspectors. Paragraph 2.0 defines the levels of qualification. A Level II or III can independently evaluate or accept the results of a visual examination. Paragraph 3.0 defines education, training and experience, and shall be as outlined in the procedure. Training requirements specify that examinations be administered to candidates. Minimum education and experience requirements for a candidate to be considered for certification to a Level II are a high school graduate or equivalent GED, plus four (4) years of experience.

(Continued on page 3)

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

CORRECTIVE ACTION (CONTINUED):

"AS IS" CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED):

Contrary to the above:

- 1) Photon Testing personnel visually inspected weldments used for welder qualification and evaluated the completed samples for acceptance or rejection without being certified to their visual examination certification procedure.
- 2) Photon Testing, Inc. personnel files revealed no evidence of anyone certified as a visual inspector.

NOTE: Only Mr. Charles Garinger meets the qualification requirements for certification in accordance with the procedure submitted.



Consumers
Power
Company

AUDIT REPORT

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

PAGE 1 OF 5

DATE OF ISSUANCE 4/18/84

DISTRIBUTION: AHBaerren RJErhardt JKMeisenheimer PVanderVeer JABauer BTFoote JAMooney SSprague AEBice KGiI RLOliver DPreslar WRBird WDGreenwell DLQuamme/ JEBrunner GAHierzter BHPeck RBCameron DEHorn JARutgers JWCook GBJohnson RCSember MFDewitt JEKarr RAWells MADietrich BWMarguglio/ GREagle DJones ALPucci	AUDIT NO:	RECEIVED
	MSA-84-9	
	FILE NUMBER:	APR 23 1984
	18.4	C. P. Co. Legal
	DATE OF AUDIT:	3/14 - 28/84
	ORGANIZATION AUDITED:	BPCo Construction & FSO Welding
SIG. OF AUDIT TEAM LEADER/DATE:	APPROVED BY/DATE:	PLANT & PROJECT:
R D Davis <i>RDDavis</i> 4-18-84	R C Sember <i>RCSember</i> 4-18-84	Midland 1 & 2

I. OBJECTIVES & SCOPE

The objective of this audit was to evaluate the adequacy and implementation of the Bechtel Construction and FSO Welding programs including control of related records.

The scope of the audit included requisite procedures, specifications and codes associated with BPCo Construction and FSO for the performance of welding and the qualification of welders at the Midland project.

UU, AUDIT TEAM

The Consumers Power Company audit team consisted of the following personnel:

- R D Davis - Audit Team Leader
- E P Opelski - Audit Team Leader-in-Training
- A Notarmuzi - Auditor
- G Sweet - Auditor-in-Training
- D D Coppeler - Auditor-in-Training
- J A Nicholas - Auditor-in-Training
- P Lahoti - Auditor-in-Training

III. PERSONNEL CONTACTED DURING AUDIT

The following personnel were contacted during the course of the audit:

NAME	COMPANY	TITLE	ENTRANCE	AUDIT	EXIT
SSprague	BPCo	LFWE	X	X	X
KBarker	BPCo	FWE	X	X	X
JSelvidio	MPQAD	Soils QAE	X	X	X
DCKincaid	MPQAD	Soils QAE	X	X	X
MBlendy	BPCo/FSO	APFE	X		
FWieninger	SW&P	Proj. Eng.	X		
HJohnson	BPCo/FSO	LFWE	X	X	X
REDavis	BPCo/FSO	QE	X	X	X
LEdwards	BPCo/FSO	QE	X		



AUDIT REPORT

III. PERSONNEL CONTACTED DURING AUDIT (continued):

<u>NAME</u>	<u>COMPANY</u>	<u>TITLE</u>	<u>ENTRANCE</u>	<u>AUDIT</u>	<u>EXIT</u>
TGoedjem	Mergentime	Asst. Proj. Mgr.	X		
KTimmons	BPCo/FSO	QA Welding			X
JPope	BPCo	Supt. - Standish		X	X
WWilson	BPCo	FWE - Standish		X	
EBlocher	CP Co	Eng.			X
JArcher	BPCo/FSO	FWE		X	
PVanderVeer	BPCo/FSO	Q Lead		X	
RCSember	CP Co	Site Audit Branch Head	X		
ALPucci	CP Co	Site Audit Branch Gp. Supv.			X
DJones	CP Co	A&MS Sect. Head			X

IV. ENTRANCE MEETING

An entrance meeting was conducted on March 19, 1984 with those personnel identified in Section III. During the meeting, the audit purpose and scope were discussed, the audit plan was presented, the audit sequence was discussed and the audit communication channels were established.

V. AUDIT SUMMARY

A. Areas Audited

An audit checklist was developed from the following referenced documents:

- WFMC-1, Rev 6, Amdt. 8 - Welding Standard Procedure Spec.
- WD-1M, Rev 2 - Control and Documentation Procedure
- FIW-1.310, Rev 2 - Instruction for Welding Electrode Holding Oven Temperature Verification
- WQ-1, Rev 16 - Welding Standard Performance Specification
- WQ-2, Rev 2 - Welding Standard Performance Specification
- FIW-1.370, Rev 0 - Control of Welder Qualification Listing
- FPW-6.000, Rev 2 - Inprocess Measurement of Welding Arc Voltage and Amperage
- MCP-70.000, Rev 11 - Mergentime Corp. Integrated Construction Inspection Procedure for General welding Standards
- SCP-43.000(Q), Rev 8 - Spencer, White & Prentice, Inc. Procedure for Welding

Considered during this audit were portions of 10CFR50, Appendix B, Criteria I, II, V, VI, VIII, IX, X, XII, XIII, XV, XVI and XVII.

B. Findings and Unresolved Items

The audit identified eight (8) Findings and two (2) Unresolved Items which are summarized below and copies attached to this report.

(continued)



AUDIT REPORT

V. B. Findings and Unresolved Items (continued):

- MSA-84-9-01F - Uncontrolled filler material was found in the FSO shop office in violation of WFMC-1. Priority 2
- MSA-84-9-02F - FSO FWEs are not performing activities addressed in FIW-1.360, i.e. monthly welding voltage and amperage checks. Priority 4
- MSA-84-9-03F - Standish Shop FWE failed to perform monthly welding voltage and amperage checks as required by FPW-6.000. Priority 3
- MSA-84-9-04F - Inconsistencies between original welder qualification records and copies preclude their being termed duplicate records, in violation of ANSI N45.2.9. Priority 4
- MSA-84-9-05F - Changes made to ASME welder qualification records were not reviewed by the Authorized Nuclear Inspector as required by AAPD/PSP G-7.1. Priority 3
- MSA-84-9-06F - Changes were made to essential variables on welder qualification records without requalifying the welders in violation of AWS D1.1. Priority 2
- MSA-84-9-07F - 50 percent of the welder qualification records reviewed indicated qualification tests were performed to the wrong revision of the welder qualification procedure. Priority 3
- MSA-84-9-08F - Neither the NQAM nor BQAM addresses verification of personnel qualifications by QC as required by BQ-TOP-1. Priority 2
- MSA-84-9-01U - A changed essential variable on one welder's qualification records is different on both forms. Priority 3
- MSA-84-9-02U - Changes were made to welder qualification records after the date of qualification without any apparent justification for the changes. Priority 3

C. Observations

The following observations were made as a result of the audit:

Observation #1

Standish Shop (Weld Wire Control)

At one welding station, it was observed that a stub bucket contained a small amount of unused, undamaged, cold type E-7018, low hydrogen, covered electrodes. No use of the subject filler material was observed, all work in progress was non-Q and the filler material was immediately removed and destroyed by the FWE.



AUDIT REPORT

V. C. Observations (continued)

Observation #2

It was observed that the QCE's calibrated temperature probe (digital) #8325-12670, calibrated 7/19/83 and due on 7/19/84, provides a very erratic readout. This instrument is presently being utilized by the Standish QCEs to verify temperatures of welding rod holding ovens. Although these instruments are furnished with 2 probes and the QCEs are instructed to use an alternate probe if they suspect a problem with the one they are using, it is recommended that the subject instrument be recalibrated to determine accuracy of readings. The holding oven temperatures were within the required parameters.

Observation #3

Standish Shop (Drawing Control)

A random sample of six drawings from the shop area was reviewed to verify that the correct revision was being used for fabrication. Drawing C195-253, Rev 3 was being used in the shop area, however C195-253, Rev 4 had been issued at the Midland Project from Station 10 for use a month earlier. The records showed that the drawing had never been transmitted to Standish.

The condition was corrected by the site, along with two other drawings of the same status. Process corrective action will be verified during an audit of drawing control scheduled to commence on 4/30/84.

Observation #4

During the audit at the Standish Fabrication Shop, it was noted that certain welders interviewed could not answer some questions concerning the welding procedure they were using. The welding procedures are located in the shop office, but the welders were uncertain as to how to obtain a copy for review. Even though the procedures are not located in the immediate work area, the welders are supported by two Field Welding Engineers. No hardware problems were observed. No Q work was being performed at the time of the audit. Since the welders are under constant supervision, the above does not pose an immediate concern. The Audit Branch does recommend scheduling a training seminar with welders to assure they know how to determine the welding parameters and the establishment of a central location for welding procedures in the work area accessible to craft at the Standish Fabrication Shop.

It should be noted that while conducting a similar audit of the Spencer, White & Prentice/Mergentime Fabricating Shop on site, all welders answered all questions correctly and the procedures were located in the work area accessible to all craft personnel.



AUDIT REPORT

V. D. Exit Meeting

An exit meeting with those personnel identified in Section III of this report was conducted on 3/28/84. During this meeting, the results of the audit were presented.

VI. PROGRAM EVALUATION OF EFFECTIVENESS

The audit of in-process welding activities indicates, with few exceptions, that the welding program requirements are being implemented. However, problems identified in certain areas of the program do not assure full compliance with project commitments regarding the qualification and requalification of welders, the generation and maintenance of related documentation and procedures governing the activities of welding engineers and quality control personnel. The lack of program direction to Field Welding Engineering and Quality Control regarding the classification of welder qualification records as quality records has resulted in questionable changes to qualification documents. Changes to correct certain past records have occurred as recently as February, 1984, without proper justification. This practice is unacceptable; justification for all changes is required.

It is recommended that personnel responsible for generation, maintenance and retention of welder qualification records be instructed in basic concepts of quality record requirements.

Control of filler material seems adequate as far as present project commitments are concerned; however, it is recommended that project management review these commitments to assure they adequately address the requirements of ASME and Criterion VIII of 10CFR50, Appendix B.

VII. CLOSING ITEMS

Correspondence regarding this audit and associated Findings, Unresolved Items and observations requiring an action shall be forwarded to R C Sember, Branch Head, Audit Branch, who will be responsible for the review and verification of the corrective action.

Written responses are to be received no later than the dates noted on the individual AFRs and URIs.

VIII. ATTACHMENTS

Audit Finding Reports - MSA-84-9-01F through MSA-84-9-08F
Unresolved Items - MSA-84-9-01U and MSA-84-9-02U
Audit Checklists (File 18.4 Only)
Audit Plan (File 18.4 Only)
Audit Notification Letter (File 18.4)



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AUDIT FINDING REPORT

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

AREA: BFSOC DISCIP: G TREND: 50001 PRIORITY: 2 S/U: PGMOR

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

Spencer, White & Prentice Procedure SCP 43.000(Q), Rev 8 (Procedure for Welding), Para 8.3.3, which references Bechtel Procedure WFMC-1, Paras 7.1 and 7.3 states in part:

"At the end of each shift all unused filler material will be returned to the rod issue room and that the work area will be kept clear of all discarded filler material."

Contrary to the above, a plastic sack containing approximately 3/4 lb of uncontrolled stainless steel bare wire was observed in a metal gang box located in the Spencer, White & Prentice Fabrication Shop office. The sack contained both ER 308 and ER 309 wire of various sizes and lengths.

AFR SER NO:
MSA-84-9-01F

PROJ/DEPT AUDITED:
BPCo Const/FSO Welding

DATE OF ISSUANCE:
4/3/84

FILE NUMBER:
16.0

ACTION ITEM NO:
S05865

DISTRIBUTION:

SEE
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RECOMMENDED CORRECTIVE ACTION:

1. Generate a Nonconformance Report to disposition the uncontrolled filler material.
2. Provide process corrective action to prevent recurrence of this situation.
3. Retrain welding personnel in the requirements of the procedure.
4. Notify MPQAD Audit Branch of results of all actions.

CORRECTIVE ACTION COMMITMENT: Response due by 4/20/84

NOTE: Item 1 is complete - FSO FWE generated NCR #S00768 - the wire was destroyed - the NCR was closed 3/22/84.

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A:

BPCo - FWE

PERSON MAKING C/A COMMITMENT:

P VanderVeer

METHOD OF VERIFICATION:

#1 - Closed

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

N/A

AFR ORIGINATOR'S SIGNATURE/DATE:

J A Nicholas

James A. Nicholas RDD 4/3/84
April 2, 1984

ATL SIGNATURE/DATE:

E. P. ... RDD Davis 4/3/84

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:



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AUDIT FINDING REPORT

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

AREA: BFSOC DISCIP: G TREND: 50001 PRIORITY: 4

S/U: PGMOR

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

BPCo Field Instruction FIW 1.360(Q), Rev 1, Para 5.11 states:

"Monthly volt and amp readings are required to be recorded by the FWE in accordance with FPW-6.00J. Upon completion, the form will be transmitted to the LFWE for review and filing."

Contrary to the above, no objective evidence has been provided to substantiate that monthly volt and amp readings have been recorded by the FWE in accordance with FPW-6.000 in FSO work area.

AFR SER NO:

MSA-84-9-02F

PROJ/DEPT AUDITED:

BPCo Const/FSO Welding

DATE OF ISSUANCE:

3/30/84

FILE NUMBER:

16.0

ACTION ITEM NO:

S05866

DISTRIBUTION:

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RECOMMENDED CORRECTIVE ACTION:

1. Perform an evaluation to determine the necessity for this requirement.
 - A. If evaluation reveals monthly amperage and voltage checks are unnecessary, delete the requirement.
 - B. If evaluation reveals monthly amperage and voltage checks are necessary:

(continued)

CORRECTIVE ACTION COMMITMENT: Response due by 4/20/84.

DATE OF C/A COMPLETION:

ORG. RESP FOR C/A:

PERSON MAKING C/A COMMITMENT:

DATE OF C/A EFFECTIVENESS:

BPCo - FWE

S Sprague

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/DATE:

E P Opelski

E.P. Opelski 3-30-84

ATL SIGNATURE/DATE:

R. Davis
R.D. Davis 3/30/84

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:



AUDIT FINDING REPORT

CONTINUATION SHEET MSA-84-9-C2F

"AS IS" CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED):

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

1. B. (continued)
 - 1) Perform and document the required voltage and amperage readings in accordance with established procedures;
 - 2) LFWE to assure that checks on voltage and amperage not accomplished have no adverse affect on welding that has been performed.
2. Notify MPQAD Audit Branch of results of all actions.

CORRECTIVE ACTION (CONTINUED):



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AUDIT FINDING REPORT

MILITARY AND PROJECT
QUALITY ASSURANCE
DEPARTMENT

AREA: BCPCO

DISCIP: X

TREND: 50001

PRIORITY: 3

S/U: PGMOO

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

FPW-6.000, Rev 2, Para 2.3, 4.1, 4.2 and 4.3 require monthly checks of welding arc voltage and current (amperage). Checks are to be performed by the LFWE (Lead Field Welding Engineer) or his designees.

Contrary to the above, checks have not been performed or documented by the FWE at the Standish Fabrication Shop as his equipment is currently being calibrated. No record of performing checks were presented to the auditor.

AFR SER NO:

MSA-84-9-03F

PROJ/DEPT. AUDITED:

BPCo Const/FSO Welding

DATE OF ISSUANCE:

3/30/84

FILE NUMBER:

16.0

ACTION ITEM NO:

S05867

DISTRIBUTION:

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RECOMMENDED CORRECTIVE ACTION:

1. Perform required checks and document immediately.
2. FWE to assure that checks not made do not adversely affect welding that has been performed.
3. FWE should request additional calibrated equipment so above condition will not reoccur.

CORRECTIVE ACTION COMMITMENT: Response due by 4/20/84.

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A:

BPCo - FWE

PERSON MAKING C/A COMMITMENT:

S Sprague

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", WFO MADE REPORT:

N/A

AFR ORIGINATOR'S SIGNATURE/DATE:

D D Coppeler

DD 3/30/84

ATL SIGNATURE/DATE:

R Davis 3-30-84

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:



Consumers
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AUDIT FINDING REPORT

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

GG-
AREA: BCPCO DISCIP: X TREND: 60002 PRIORITY: 4 S/U: PGM00

"AS IS" CONDITION VERSUS "AS REQUIRED"/"AS NEEDED" CONDITION WITH REFERENCES:
ANSI N45.2.9 - 1974, Para 5.6 states in part:

"Permanent and temporary record storage facilities shall be so constructed or located as to protect contents from possible destruction by causes such as fire, flooding,..." "A satisfactory alternative to the establishing of a record storage facility is maintenance of duplicate records stored in a separate remote location."

Contrary to the above, welding personnel qualification records which are being stored in two (2) separate locations on the project contain certain inconsistencies between the two (2) records, which precludes their being termed duplicate records. Inconsistencies for the most part consist of changes made to one document (sometimes the original, sometimes a copy) which were not made on the other document, in some cases for as long as 2, 4, or 6 years later or in a few cases were not made at all.

AFR SER NO:
MSA-84-9-04F
PROJ/DEPT AUDITED:
BPCo Const/FSO Welding
DATE OF ISSUANCE:
3/30/84
FILE NUMBER:
16.0
ACTION ITEM NO:
S05868

DISTRIBUTION:

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ATTACHED
DISTRIBUTION

RECOMMENDED CORRECTIVE ACTION:

1. Review all active and inactive welder qualification files located in the welder test facility and in the QC Services Vault.
2. Identify all welder qualification files containing changes to documents.
3. Provide justification for all changes.
4. Insure all justified changes are reflected on both documents.

(continued)

CORRECTIVE ACTION COMMITMENT: Response due by 4/20/84.

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A:

BPCo - FWE

PERSON MAKING C/A COMMITMENT:

S Sprague

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/DATE:

E P Opelski

E.P. Opelski 3/30/84

ATL SIGNATURE/DATE:

R.D. Davis 3/30/84

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:



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AUDIT FINDING REPORT

CONTINUATION SHEET MSA-84-9-04F

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT
Page 2 of 2

"AS IS" CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED):

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

5. Transmit all justifiably changed, legible and complete records to QC Services Vault for storage.
6. Notify MPQAD Audit Branch of results in all actions.

CORRECTIVE ACTION (CONTINUED):



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AREA: BCPCO

AUDIT FINDING REPORT

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

GG-
TREND: 60032 PRIORITY: 3 ^{EPC 4-10-84} S/U: PGM00

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

AAPD/PSP G-7.1, Rev 9, Sect. 4.2 "Type of Quality Assurance Records and Documentation", Subsection d states:

"Additional records, i.e. personnel certification and training records..."

Section 5.3.2.d states:

"When corrections are made to QA Records that affect ASME items the authorized Nuclear Inspector shall review, initial and date those changes."

Contrary to the above, all 32 current welder packages reviewed contained numerous changes to Qualification Records (WR-1 forms). There is no objective evidence that the authorized Nuclear Inspector reviewed any of the changes made to these forms. The subject records attest to the qualification of ASME welders. Changes referred to were made as much as 8 years after the date of the qualification.

APR SER NO:
MSA-84-9-05F

PROJ/DEPT AUDITED:
BPCo Const/FSO Welding

DATE OF ISSUANCE:
4/3/84

FILE NUMBER:
16.0

ACTION ITEM NO:
S05869

DISTRIBUTION:

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RECOMMENDED CORRECTIVE ACTION:

1. Identify all ASME welder qualifications (active and inactive) which have had changes made to them after the date of certification.
2. Provide documented justification for all changes made after the date of qualification
3. Submit all ASME welder qualifications containing changes along with justification for the changes to the authorized Nuclear Inspector for his review in accordance with PSP G-7.1. (continued)

CORRECTIVE ACTION COMMITMENT: Response due by 4/20/84.

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A:

BPCo - FWE

PERSON MAKING C/A COMMITMENT:

S Sprague

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" WEC MADE REPORT:

N/A

AFR ORIGINATOR'S SIGNATURE/DATE:

G Sweet

G Sweet 4/2/84

AFR SIGNATURE/DATE:

E.P. Ouellet 4-2-84

R.D. Davis 4/3/84

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:



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AUDIT FINDING REPORT

CONTINUATION SHEET

MSA-84-9-05F

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT
Page 2 of 2

"AS IS CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED):

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

4. Provide measures to include a sign-off for MPQAD QC witnessing of the welder qualification test and review of the documentation.
5. Provide MPQAD Audit Branch with results of all actions.

CORRECTIVE ACTION (CONTINUED):



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AUDIT FINDING REPORT

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

AREA: BCPCO DISCIP: X TREND: 60001 PRIORITY: 2 ⁴⁻¹⁰⁻⁸⁴ S/U: PGM00

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

AWS D-1.1 - 1972 through present require:

"When the plate is in the vertical position, or the pipe or tubing is in the 5G or 6G position, a change in the direction of welding shall require requalification."

"A change from one diameter wall pipe grouping shown in Table 5.26.1 to another shall require requalification."

Contrary to the above, there is no objective evidence that at the time of the test the progression was verified in some of the qualification records. Inclusion of "Progression up" was added to these at a later date apparently based on procedural requirements. Procedure requirement is not objective evidence that progression had been verified as some records did have attestation of progression at time of test.

(continued)

AFR SER NO:
MSA-84-9-06F

PROJ/DEPT AUDITED:
BPCo Const/FSO Welding

DATE OF ISSUANCE:
3/30/84

FILE NUMBER:
16 0

ACTION ITEM NO:
S05870

DISTRIBUTION:

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RECOMMENDED CORRECTIVE ACTION:

1. Provide justification for those changes of essential variables on Weld Qual. Records.
2. Provide justification for addition or correction to essential variables on Weld Qual. Records.
3. Engineering to evaluate those changes to essential variables where justification can not be provided.

(continued)

CORRECTIVE ACTION COMMITMENT: Response due by 4/20/84.

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A:

BPCo - FWE

PERSON MAKING C/A COMMITMENT:

S Sprague

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

N/A

AFR ORIGINATOR'S SIGNATURE/DATE:

A Nourmuzi

A. Nourmuzi 3/30/84

ATL SIGNATURE/DATE:

R.D. Davis 3-30-84

R.D. DAVIS

R.D. Davis 3/30/84

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:



AUDIT FINDING REPORT

"AS IS CONDITION VERSUS" "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED):

In some cases, the statement "Progression up" was entered on the Welder Qualification Records as much as 8 years after test date.

Also, no objective evidence was provided to justify changes to pipe size and thickness ranges years after test date.

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

4. Requalify as necessary.
5. Perform impact evaluation on weld joints made by welders whose qualification records have changes that could not be justified.
6. Provide MPQAD Audit Branch with results of all actions.

CORRECTIVE ACTION (CONTINUED):



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AUDIT FINDING REPORT

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

AREA: BCPCO DISCIPL: X TREND: 50010 PRIORITY: ^{812 4-10-84} 3 S/U: PGM00

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

BPCo Procedure FPD-1.000, Rev 20, Para 3.0 "Responsibilities", Para 3.1.3 states in part:

"All Field Engineers and Superintendents shall be responsible for ascertaining that the work within their assignment is done in accordance with the latest revision of the drawings and project specifications. ..."

Contrary to the above requirement, 10 of the 19 Welder Packages reviewed were performed to an outdated revision of the WQ 1 or WQ 2 Procedure as applicable. In some cases, the procedure referenced was as much as 5 years out of date.

APR SER NO:
MSA-84-9-07F

PROJ/DEPT AUDITED:
BPCo Const/FSO Welding

DATE OF ISSUANCE:
3/30/84

FILE NUMBER:
16.0

ACTION ITEM NO:
S05871

DISTRIBUTION:

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RECOMMENDED CORRECTIVE ACTION:

1. Review all Welder Certification Packages and determine correct revision for each WQ 1 or WQ 2 in the Package.
2. Determine what impact each revision change had on the qualification listing the wrong revision.
3. Provide MPQAD with results of all actions.

CORRECTIVE ACTION COMMITMENT: Response due by 4/20/84.

DATE OF C/A COMPLETION:

ORG. RESP FOR C/A:

PERSON MAKING C/A COMMITMENT:

DATE OF C/A EFFECTIVENESS:

BPCo - FWE

S Sprague

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/DATE:

G Sweet

G Sweet 3/30/84

ATL SIGNATURE/DATE:

R.D. Davis 3-30-84

R.D. DAVIS

R.D. Davis 3/30/84

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:



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AUDIT FINDING REPORT

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

AREA: BPQAE DISCIP: L TREND: 90001 PRIORITY: 2

S/U: PGM00

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

Bechtel Topical, Section 9 (17.9) states in part:

"Current qualification records of procedures, equipment and personnel are maintained at the jobsite. Active files are maintained in the office and copies are provided to each affected project of qualification records covering special process and procedures. Projects are required to maintain up-to-date lists of personnel qualifications and/or applicable equipment qualifications for special processes. Controls are provided to assure that personnel qualification records are regularly reviewed and the appropriate requirements for re-qualification are implemented. Implementation of these controls is verified by Construction Quality Control personnel and audited by Quality Assurance with assistance of Materials, Fabrication and Quality Control Services."

(continued)

AFR SER NO:
MSA-84-9-08F

PROJ/DEPT AUDITED:
BPCo Const/FSO Welding

DATE OF ISSUANCE:
3/30/84

FILE NUMBER:
16.0

ACTION ITEM NO:
S05872

DISTRIBUTION:

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RECOMMENDED CORRECTIVE ACTION:

1. Revise subject NQAM and BQAM, Control of Spec. Proc. Section to meet or exceed subject BQ-TOP requirements. (MADietrich)
2. BPCo to develop procedure to implement above requirements. (MADietrich)
3. Review active WR'ls as required. Documented results to be made available for Site Audit Branch to review. (MPQAD)

(continued)

CORRECTIVE ACTION COMMITMENT: Response due by 4/20/84.

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A:

MPQAD
PQAE

PERSON MAKING C/A COMMITMENT:

D Preslar
MADietrich

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/DATE:

A Notarmuzi

A Notarmuzi 3/30/84

ATL SIGNATURE/DATE:

R.D. Davis 3/30/84

C/A VERIFICATION SIGNATURE:

VERIFICATION DATE:



AUDIT FINDING REPORT

CONTINUATION SHEET MSA-84-9-08F

"AS IS CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED):

Neither NQAM, Sect. 4, Policy 12, Controls of Special Processes, nor BQAM, Sect. 5000, Controls of Operations Examination Tests and Inspections, adequately address verification of personnel qualifications and/or applicable equipment qualifications for special processes by construction Quality Control personnel as required by BQ-TOP.

NOTE: AFRs MSA-84-9-04F, 05F, 06F and URIs MSA-84-9-01U and 02U document changes to welder qualification records including changes to essential variables which in accordance with ASME B&PV Code, Section IX, requires requalification of the welder.

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

4. MPQAD shall evaluate possible impact adverse to quality relative to PQRs not previously being reviewed as required. (DSPreslar)
5. MPQAD to determine need for PQCI for verifying controls required for welder qualification. (DSPreslar)
6. Send documented objective evidence to MPQAD Site Audit Branch for review. (MADietrich/DSPreslar)

CORRECTIVE ACTION (CONTINUED):



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UNRESOLVED ITEM

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

AREA: BCPCO DISCIP: X TREND: 8001 PRIORITY: *EPC 4-10-84* 3 S/U: PGM00 AI: S05873

6. DESCRIPTION OF UNRESOLVED ITEM:

One electrician's (E-48 - Welder Symbol) Qualification Record for Procedure No. P21-M (Bus Bar), Rev 1 received from the Vault had material specification entries of SB 210 to 209 (SB 210 originally whited out). Duplicate record received from Weld Booth Qualification Record Folder had Material specification entry of SB 210 to SB 210 (which also had been whited out). Material specification is an essential variable for welder qualification.

- 1. URI NO:
MSA-84-9-01U
- 2. PROJ/DEPT AUDITED:
BPCo Const/FSO Welding
- 3. DATE OF ORIGINATION:
3/30/84
- 4. FILE NO:
16.0
- 5. DISTRIBUTION:

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7. REQUIRED ACTION:

- 1. Provide objective evidence to substantiate material actually used for test.
- 2. Evaluate for conformance to licensing requirements.
- 3. Provide MPQAD Audit Branch with results of all actions.

BPCo - FWE

8. ACTION REQUIRED FROM: S Sprague 9. ACTION REQUIRED BY-DATE: 4/20/84

10. RESPONSE TO URI:

11. URI ORIGINATOR'S SIGNATURE/DATE:

A Notarmuzi *[Signature]* 3/30/84

12. ATL'S SIGNATURE/DATE:

[Signature] 3/30/84 R.D. Davis 3/30/84

13. URI CLOSURE-BASED ON:

RECEIPT OF
ACCEPTABLE
RESPONSE

ISSUANCE OF
AFR

14. AFR NO _____

15. CLOSED BY-SIGNATURE/DATE:



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UNRESOLVED ITEM

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

AREA: BCPCODISCIP: X TREND: GG-60032 PRIORITY: 3 *EPD 4-10-84* S/U: PGM00

AI: S05874

6. DESCRIPTION OF UNRESOLVED ITEM:

The following changes were noted on Qualification Records after issuance of Qualification Test:

1. Changes to procedure and procedure revision.
2. Changes to standard WQ 1 of 2 or revision of.
3. Changes to required preheat.
4. Changes to manufacturer of electrode.
5. Change to number of specimens used for Bond Test results.
6. Change to acceptance standard used for radiography.
7. Changes to date of qualification.

No objective evidence was found for justification of the changes noted above.

NOTE: Some of the changes were made as much as 8 years after the date of the welder's qualification test.

32 active Welding Qualification record files were audited. 100% of this sample had one or more of the above changes.

1. URI NO:

MSA-84-9-02U

2. PROJ/DEPT AUDITED:

BPCo Const/FSO Welding

3. DATE OF ORIGINATION:

3/30/84

4. FILE NO:

16.0

5. DISTRIBUTION:

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7. REQUIRED ACTION:

1. Perform an evaluation to determine the affect, if any, on the welder's qualifications.
2. Provide objective evidence to substantiate changes.
3. Evaluate for conformance to licensing requirements.
4. Provide MPQAD Audit Branch with results of all actions.

BPCo - FWE

8. ACTION REQUIRED FROM: S Sprague

9. ACTION REQUIRED BY-DATE: 4/20/84

10. RESPONSE TO URI:

11. URI ORIGINATOR'S SIGNATURE/DATE:

A Notarmuzi

[Signature] 3/30/84

12. ATL'S SIGNATURE/DATE:

[Signature] 3-30-84 *[Signature]* 3/30/84

13. URI CLOSURE BASED ON:

RECEIPT OF
ACCEPTABLE
RESPONSE

ISSUANCE OF
AFR

14. AFR NO _____

15. CLOSED BY-SIGNATURE/DATE:



Consumers
Power
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QA69-1

SAFETY CONCERN AND REPORTABILITY EVALUATION

PROJECTS, ENGINEERING
AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

PAGE 1 *J. Brunner*

4. HOW WAS CONCERN IDENTIFIED, WHEN, WHERE?

This problem was identified during inspection performed by Bechtel field welding engineering personnel and documented on NCR #C01006, Rev 0, issued on 1/20/84. The NCR was revised to Revision 1 on 3/2/84 and marked "Yes" in Block 20 - Potential 50.55(e).

The NCR Review Board (MPQAD/CPCo Eng/Bechtel Field Eng) has reviewed this NCR for significance and concluded on 3/9/84 that the NCR represents a significant condition.

RECEIVED

APR 23 1984

(CONTINUE ON NEXT PAGE)

C P Co Legal

TO MANAGER-MPQA

1. FROM: Don Harris
ORGANIZATION: NCR Review Bd

SCORE NO: 108
FILE NO: 15.1
DATE RECEIVED: 3/20/84
Rev 1
3/9/84

2. IS CONCERN A PART 21?
WHEN? YES NO
BY WHOM?

3. IS NRC AWARE OF THIS?
WHEN? YES NO
BY WHOM?

5. BRIEF DESCRIPTION OF CONCERN - SYSTEM, COMPONENT, ACTIVITY, POSSIBLE SAFETY IMPACT - (ATTACH SUPPORTING DOCUMENTS).

Thirty-one watertight doors and frames procured from Julius Mock & Sons, Brooklyn, NY fabricated in accordance with Technical Specification 7220-A-17(Q) for use in several locations in the Auxiliary Building had welding defects.

Attachment: NCR #C01006, Revision 1, with attachments (excluding drawings, pages 6 through 31).

(CONTINUE ON NEXT PAGE)

6. IMMEDIATE REPORTABILITY EVALUATION:

- a. REPORTABLE - GO TO 13
- b. POTENTIALLY REPORTABLE - GO TO 13
- c. NOT REPORTABLE, FURTHER EVALUATION
- d. NOT REPORTABLE

7. ORGANIZATION RESPONSIBLE FOR FURTHER EVALUATION/Response Due Date:
Bechtel Project Engineering 3/24/84

8. FINAL REPORTABILITY EVALUATION (IF 6.c. CHECKED):

- a. REPORTABLE
- b. NOT REPORTABLE

9. QA APPROVAL OF EVALUATION OF BLOCKS 1 TO 7:

SIGNATURE, MANAGER, MPQAD

DATE:

un Bud

3/14/84

10. JUSTIFICATION OF EVALUATION - (ATTACH SUPPORTING DOCUMENTS)

These doors and frames were subjected to ^{Bechtel specified} satisfactory hydrostatic tests (ISCO) at the vendor's plant, and based on this, Bechtel Field Engineering have stated that the welding defects due to poor workmanship would not prevent the doors from performing their intended function during plant operation.

The NCR will be reviewed by Bechtel Project Engineering and is expected to be dispositioned "use-as-is" and/or "rework".

(This was discussed with G Eichenberger of CPCo Site Engineering and Steve Harvey of Bechtel Site Resident Engineering on 3/13/84.)

(CONTINUE ON NEXT PAGE)

11. FINAL QA APPROVAL

SIGNATURE, MANAGER, MPQAD

DATE/TIME

un Bud

4/19/84 1635

12. NRC NOTIFICATION: HOW?

DATE:

TIME:

INDIVIDUAL NOTIFIED:

REFERENCE:



SAFETY CONCERN AND REPORTABILITY EVALUATION

4. CONTINUED

5. CONTINUED

10. CONTINUED

As concluded in the attached Bechtel Safety Evaluation, this concern would not affect safety and is, therefore, NOT REPORTABLE.

Consumers engineering has also reviewed this evaluation, and agree that there is no safety problem. Therefore, this SCRE is closed - NOT REPORTABLE.

WAB 4/19/84

14. MINIMUM DISTRIBUTION:

VICE PRESIDENT - MIDLAND PROJECT (JWCook)
DIRECTOR - E&QA (BWMarguglio)
*MIDLAND SITE MANAGER
MANAGER - SAFETY & LICENSING (DMBudzik)
GROUP SUPERVISOR - ADMINISTRATION (JAPucci)
EXECUTIVE MANAGER - MPQAD (RAWells)
NRC RESIDENT INSPECTOR (RJCook) \ -
MIDLAND FILE NO. 15.1
EXECUTIVE MANAGER - ENG & LIC (RJEhardt)

15. ADDITIONAL DISTRIBUTION:

DJones	RCHollar	DHarris
GFEwert	JTChristy	SHarvey
DLanham	HPLeonard	GDEichenberger
✓JEBrunner	DTPerry	MADietrich
EEPoser	GREagle	GLRichardson
JPKnight	HSGarcha	JAPastor
		FNShepard



**Consumers
Power
Company**

MIDLAND ENERGY
ORIGINAL
QUALITY ASSURANCE DEPARTMENT
QUALITY ACTION REQUEST

6. QAR Number
RA-00159

7. Date Issued
3/30/84

8. Revision
0

9. Page 1 of 3

1. Requirement
Procedure F-2M Rev 6, Section 5.1.6.b, requires the NCR Reviewer to ensure the Quail information is noted on the NCR in accordance with Procedure M-6. Procedure M-6 Rev 3, Section 5.2.1, requires the Quail Codes to be added per Attachment 7.3. Attachment 7.3, Section 7.3.1.f, requires one of the following codes to be entered:

A. A Testable Start-Up System Code
B. An Area Code
C. A Generic Code

10. ASME Related
 Yes No

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APR 24 1984
C. P. Co. Legal

2. Deficiency
Contrary to the above, the NCRs listed below do not have the correct Start-Up Codes as delineated by the System Turnover Status Report (Ref UFI: 55*20*50) dated 3/20/84. These errors were previously identified on QARs RA-00082 and RA-00099, but were not corrected as required.

(CONTINUED ON PAGE 2)

3. QAR Originated by A R Gort <i>ARG 3-30-84</i>		4. Discipline/Division/Section MPQAD/PAD/1AG		5. Response Due Date 4/12/84		11. Potential 50.55(e) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
13. Action Item No. S05806		15. Item Priority 03		17. S/U Code PGMOO		12. Date Reported to MPQA Mgr N/A	
14. Discipline N/A		16. Trend Code ZV-50029		18. Resb Code BOPQC STF-G		19. Action Organization MPQAD-QC (BOP)	
20. QAR Reviewed by <i>RE Field</i>		21. Date <i>3-30-84</i>					

22. Cause
1) Transposition errors in data.
2) Incorrect use of terms NA, various
3) Incomplete system numbers
4) Review errors.

23. Proposed Corrective Action
Send original code to discipline for correct startup system, up date Quail data base to match hard copy of NCRs
1) correct document hard copies items #1, 4, 8, 14, 15, 16, 18, 21, 23, 24, 25, 26, 27, 28, 29
2) correct Quail data base items # 1, 2, 3, 7, 5, 8, 12, 14, 15, 16, 17, 18, 25, 26, 27, 28, 29
3) No action required (data currently exists on document # 6, 7, 10, 13, 20, 22)

24. Responsible Organization/Person
MPQAD-QC

25. Proposed Completion Date
4-30-84

26. Disposition Concurrence
RE Field *4/23/84* *N/A*

QAR Reviewer Date PQAE (ASME Only) Date

27. Disposition Action Taken

28. Method of Disposition Verification

29. QAR Closed by
MPQAD Date
PFQCE (ASME Only) Date

Acceptable Unacceptable Superseding QAR

ORIGINAL
 QUALITY ACTION REQUEST
 CONTINUATION SHEET

QAR NO: RA-00159

DATE: 3/30/84

REV: 0

PAGE 2 OF 3

BLOCK 2 "DEFICIENCY" CONTINUED:

<u>NCR/QAR NO</u>	<u>PROBLEM</u>
1. C-00805	Code 1JGA is not a recognized S/U System Code
2. 5822	Code 1PRC is not a recognized S/U System Code.
3. 4778	Codes 1 & 2 RLN not recognized.
4. 4452	Codes 1 & 2 SAC not recognized.
5. 5106	Code 2BCC not recognized. Also, this NCR affects 1 Pipe hanger but is assigned 2 S/U codes.
6. 6278T0	No S/U code in Quail.
7: 6230	No S/U code in Quail.
8. C-00499	No S/U code in Quail.
9. 5294	Code ^{286E} 286E not recognized. <small>REF 3-30-84</small>
10. 6424	Codes 3BBB, 3BBC & 3BBD not recognized.
11. 5106	NCR affects 1 hanger but 2 S/U codes are assigned.
12. 5539	No S/U codes assigned.
13. C-00948	^{No} + S/U code assigned. <small>REF 3-30-84</small>
14. C-00970V	No S/U code assigned.
15. C-00717	No S/U code assigned.

ORIGINAL
QUALITY ACTION REQUEST
CONTINUATION SHEET

QAR NO: RA-00159

DATE: 3/30/84

REV: 0

PAGE 3 OF 3

BLOCK 2 CONTINUED:

- | | |
|--------------|-----------------------|
| 16. C-00355 | No S/U code assigned. |
| 17. C-00963 | No S/U code assigned. |
| 18. C-00925 | No S/U code assigned. |
| 19. C-00955 | No S/U code assigned. |
| 20. C-00954 | No S/U code assigned. |
| 21. C-00953 | No S/U code assigned. |
| 22. C-00952V | No S/U code assigned. |
| 23. C-00971 | No S/U code assigned. |
| 24. C-00972 | No S/U code assigned. |
| 25. RC-00086 | No S/U code assigned. |
| 26. RC-00100 | No S/U code assigned. |
| 27. RC-00169 | No S/U code assigned. |
| 28. RC-00162 | No S/U code assigned. |
| 29. RC-00170 | No S/U code assigned. |



**Consumers
Power
Company**

MIDLAND PROJECT
QUALITY ASSURANCE DEPARTMENT
QUALITY ACTION REQUEST

6. QAR Number RA-00199
7. Date Issued 4-20-84 8. Revision 0
9. Page 1 of 1

1. Requirement Procedure M-4, Attachment 7.4, Para 7.4.2.1
10. ASME Related Yes No

"The QAR Originator shall indicate concurrence with the decision to void the QAR by signing in the disposition block."

ORIGINAL

RECEIVED
APR 21 1984
C. P. Co. Legal

2. Deficiency QAR RA-00049 has been voided without the originator's concurrence.

3. QAR Originated by ERBachman <i>Eric Bachman</i>		4. Discipline/Division/Section Electrical PAE MPQAD		5. Response Due Date 5/4/84		11. Potential 50.55(e) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		12. Date Reported to MPQA Mgr N/A	
13. Action Item No. S06866		15. Item Priority 5		17. S/U Code PGMOO		19. Action Organization MPQAD P&P		20. QAR Reviewed by FOR <i>J. S. Huelshoff HJR</i>	
14. Discipline X		16. Trend Code BB-6-1		18. Resb Code PADSV		21. Date 4-20-84			

22. Cause

23. Proposed Corrective Action

24. Responsible Organization/Person

25. Proposed Completion Date

26. Disposition Concurrence

QAR Reviewer Date PQA (ASME Only) Date

27. Disposition Action Taken

28. Method of Disposition Verification

Acceptable Unacceptable Superseding QAR

29. QAR Closed by

MPQAD _____ Date _____
PFQCE (ASME Only) _____ Date _____

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

ORIGINAL

NONCONFORMANCE REPORT

16 NCR NO. S-00779

DATE ISSUED

3/28/84

18 REV

0

19

PAGE 1 OF 24 WK 4.16.84
RECEIVED

APR 21 1984

1 ITEM LOCATION

Mergentime Storage Area in the Poseyville Laydown Area

2 ITEM DRAWING/PART NO.

N/A

3 ITEM PART NAME

Structural Steel

4 ITEM SERIAL NO.

N/A

5 ITEM DESCRIPTION

1 piece of channel 12" deep by approximately 27' long.

6 ITEM STARTUP SYSTEM NO.

PGMOR

7 REFERENCE DOCUMENT

PSP G-3.2, Rev. 8

8 ASME A.N.I. REQUIRED

YES NO

9 INSPECTION RECORD NO.

N/A

LOG NO.

N/A

REV NO.

N/A

10 RESPONSIBLE ORGANIZATION

FSO

11 NONCONFORMANCE DISCOVERED DURING:

DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST INSPECT TURNOVER POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT Project Special Provision (PSP) G-3.2, Rev. 8, Control of Nonconforming Items, Section 5.2.1 states; "The Action Organization may request that work, other than corrective action, be performed on a nonconforming item covered by an MPQAD NCR by completing the appropriate parts of a Conditional Release form as illustrated in Attachment 7.7 and forwarding it to the Plant Assurance Engineering Supervisor or PFQCE of the appropriate discipline."

13 NONCONFORMANCE Contrary to the above, one 12" deep steel channel approximately 40' long, listed on NCR S-00771, was cut into two pieces without the Action Organization (FSO) obtaining a conditional release. (The corrective action on NCR S-00771 was to mark the channel with white paint.) One piece of this channel approximately 27' long is remaining in the Mergentime Storage Area where it was originally placed on hold. The 13' long (approximately) piece has been removed from the storage area and its current location is unknown.

14 NCR ORIGINATED BY (PERSON)

R L Damsel 3-28-84
DATE

15 NCR ORIGINATED BY (DISCIPLINE)

Civil

20 NUMBER OF HOLD TAGS (IF APPLIED)

1 tag

21 LOCATION OF HOLD TAGS

one tag on the 27' long 12" deep channel

22 POTENTIAL 50.55(e)

YES NO

24 ACTION ITEM NO.

U00684

26 ITEM PRIORITY CODE NO.

2

28 NCR REVIEWED BY:

Joseph P. Foley Jr.

23 REPORTED TO MPQA MANAGER

DATE N/A

25 DISCIPLINE:

G

27 TREND CODE

1(1)
R-5(1)
800 3-29-84

DATE:

3-29-84

CONTINUED ON REVERSE

F-2M/1A (Rev 1)

NCR S-00779 DFS F60 920 NCR 840328 N.

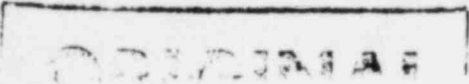
RSE COORD. CPCO MERG HANSON

APR 13 1984

SHTA05 4

29 CAUSE

SEE CONTINUATION PG 3



30 PROCESS CORRECTIVE ACTION

YES

NO

QAR NO. RS-00177

31 RECOMMENDED DISPOSITION

REMARK

SCRAP/REJECT

REPAIR

USE AS IS

32 CONDITIONAL RELEASE

YES

NO

31A ADDITIONAL INFORMATION

SEE CONTINUATION PG 3.

33 DISTRIBUTION FOR ACTION

N/A USE AS IS.

34 DISPOSITION CONCURRENCE

M.M. Blandy 4/17/84
PROJECT FIELD ENGINEER DATE

Joseph P. Polyz 4-17-84
MPOAD CONCURRENCE DATE

N/A
PFQCE (ASME) DATE

N/A
PQAE (ASME) DATE

Smart T. Cozad for N. SWANBERG 4/16/84
LEAD DESIGN ORG DATE

N/A
CP Co SMO (for turned over systems) DATE

N/A
A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

N/A

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE

UNACCEPTABLE

N/A

IF UNACCEPTABLE, REFERENCE SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

Joseph P. Polyz 4-17-84
MPOAD DATE

N/A
A.N.I. (ASME) DATE

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NONCONFORMANCE REPORT
CONTINUATION SHEET

NCR NO.

S-00779

DATE ISSUED

3/28/84

REV

0

PAGE 3 OF 4 wtk 4.16.84

BLOCK 29 (CONT'D.)

MERGENTIME REMOVED THE HOLD TAG TO
CARRY OUT THE PAINTING OF THE MEMBER AS
DESCRIBED IN THE DISPOSITION OF NCR S-00771.
MERGENTIME REPLACED THE HOLD TAG AFTER
THE PAINTING WAS COMPLETED BUT DID
NOT ATTACH IT SECURELY ENOUGH BECAUSE
WHEN THE CHANNEL WAS CUT THE TAG HAD
FALLEN OFF.

BLOCK 31A (CONT'D.)

FIELD ENGINEERING RECOMMENDS USE
AS IS. THE MISSING PIECE OF CHANNEL
HAS BEEN LOCATED ^{28. 4/13/84} BY AND FIELD ENGIN-
EERING HAS VERIFIED THAT THE PIECE
WAS PAINTED WHITE AS REQUIRED. SEE
CORRECTIVE ACTION ON GAR RS-00177.

Jane M Edwards 4/13/84
S. J. W. 4/13/84

SEE SH 4 FOR P.E. DISPOSITION

NONCONFORMANCE REPORT
CONTINUATION SHEET

NCR NO. S-00779

DATE ISSUED 4/16/84

REV 0

PAGE 4 OF 4

BLOCK 3A (CONT'D)

PROJECT ENGINEERING DISPOSITION:

THE MISSING CHANNEL HAS BEEN LOCATED AND IT WAS PAINTED AS REQ'D IN ACCORDANCE WITH NCR-500771 AND WAS VERIFIED BY FIELD ENGINEER.

PROJECT ENGINEERING RECOMMENDS — USE AS IS.

NO DWG/SPEC. CHANGE REQ'D

NO CALC. REQ'D.

NO CALC. CHANGE NOTICE LOG ANNOTATION REQ'D.

NO IMPACT ON QUAL. TEST.

REF REM 5.1882

J. Kwok 4.16.84

K.E. LEE for B DHAR 4/16/84

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

ORIGINAL

NONCONFORMANCE REPORT

15 MCR NO. 5-00792

17 DATE ISSUED

4-2-84

18 REV

0

RECEIVED

APR 21 1984

PAGE 1 OF 20 KAC
1/1/84

1 ITEM LOCATION
U S Testing Site Laboratory C. P. Co. Legal

2 ITEM DRAWING/PART NO. N/A	3 ITEM PART NAME N/A	4 ITEM SERIAL NO. Batch Ticket#66027-65932 65795-66064-66093- 66099-66187-66194- 66209
--------------------------------	-------------------------	--

5 ITEM DESCRIPTION
2" diameter X 4" grout compressive strength cylinders
UST specimen ID number Sp 185⁴, 1851, 1849, 1857, 1859, 1861, 1868, 1870, 1872

6 ITEM STARTUP SYSTEM NO. <u>4-3-84</u> N/A NTS00	7 REFERENCE DOCUMENT ASTM-C-39-71/Spec C-208(Q)	8 ASME A.N.I. REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
---	--	---

9 INSPECTION RECORD NO. N/A	LOG NO. N/A	REV NO. N/A	10 RESPONSIBLE ORGANIZATION U S Testing
--------------------------------	----------------	----------------	--

11 NONCONFORMANCE DISCOVERED DURING:
 DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST INSPECT TURNOVER POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT
Specification C-208(Q) requires compliance with ASTM-C39-71. ASTM-C39-71 requires that compressive strength cylinders be tested at a load rate of 20 to 50 psi/second
Reference UST-ICAR-7220-C-656 (copy attached)
(~~to Project Engineering copy of this NCR~~)

13 NONCONFORMANCE
US Testing had pre-set their compression testing machine for the required load rate for 6" diameter cylinders. This setting was at approximately 728 lbs/sec. (which is approximately 25.75 psi/sec. for the 6" diameter cylinder). However, this setting resulted in an unacceptable loading rate for the 2" diameter cylinders (approximately ~~25.15~~ ^{23.17} psi/sec.). This NCR is being generated as a comparison ~~to UST-ICAR-7220-C-656~~ ^{to UST-ICAR-7220-C-656}, in order to obtain Project Engineering's evaluation/disposition.

14 NCR ORIGINATED BY (PERSON)
JK. Adams 4-2-84
DATE
15 NCR ORIGINATED BY (DISCIPLINE)
MPQAD - Sales QA

20 NUMBER OF HOLD TAGS (IF APPLIED)
None

21 LOCATION OF HOLD TAGS
N/A

22 POTENTIAL 50.55(e) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	24 ACTION ITEM NO. U-00697	26 ITEM PRIORITY CODE NO. 5	28 NCR REVIEWED BY: Joseph P. Foley Jr.
--	-------------------------------	--------------------------------	--

23 REPORTED TO MPQA MANAGER DATE <u>N/A</u>	25 DISCIPLINE: C	27 TREND CODE F-2 (1)	DATE: 4-2-84
--	---------------------	--------------------------	-----------------

CONTINUED ON REVERSE

F-2M/1A (Rev 1)

NCR 84-04-001 NCR 5-00792 D FS RD 920 NCR 5-00792 D FS RD 920 NCR 5-00792 D FS RD 920

4/3/84 ALS

SHT 2 OF 20

29 CAUSE

OPERATOR ERROR

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REMARK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

F.E. TO PE FOR EVALUATION
Robert E. Davis 4/3/84

(CONT'D ON SHT 3)

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

Larry P. Ullman 4/17/84
PROJECT FIELD ENGINEER DATE

[Signature] 7-18-84
MPQAD CONCURRENCE DATE

PFQCE (ASME) DATE

PQAE (ASME) DATE

[Signature] 4/17/84
EAD DESIGN ORG DATE

CP Co SMD (for turned over systems) DATE

A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

N.A

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

N.A

IF UNACCEPTABLE, REFERENCE
SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

[Signature] 7-18-84
MPQAD DATE

A.N.I. (ASME) DATE

(BLOCK 31A CONT'D)

PROJECT ENGINEERING DISPOSITION:

AN INCREASE IN THE RATE OF LOADING FOR
GROUT COMPRESSIVE STRENGTH CYLINDERS
FROM A LOAD RATE OF 20 TO 50 PSI/SEC.
AS REQUIRED BY ASTM C39-71 TO A
LOAD RATE OF 231.7 PSI/SEC. MAY
INCREASE THE RESULTS OF THE COMPRESSIVE
STRENGTH OF THE CYLINDERS. PROJECT
ENGINEERING HAS EVALUATED THE
ATTACHED DATA AND FOUND THE 28
DAY STRENGTH TEST RESULTS TO BE
FROM 30-75% GREATER THAN THE
4000 PSI REQUIREMENT. ∴ PROJECT
ENGINEERING RECOMMENDS "USE AS IS".

Kathleen Adkins

4/17/84

K.F. LEE for B. DHAR 4/17/84

NO IMPACT ON QUAL TEST
ANNOTATION TO CALC CHANGE NOTICE LOG
NOT REQ'D

NO DWG/SPEC CHANGE

NO CALC REQ'D

REF REM 5-1884

REF CONCRETE CONSTRUCTION HANDBOOK BY WADDELL
2ND EDITION CHAPTER 26



INTERNAL CORRECTIVE ACTION REQUEST

Subject: (C)

Loading Rate for "UST-45" Comopression Testing Machine

Copies To: (0)

- J. Casey
- J. Speltz
- Subcontracts
- J. Worsley

Deficiency:

The deficient condition (s) described below requires Corrective Action by (date) 12-29-88 (L)

(E) The load rate for the compression testing machine has been pre-set at 20 to 50 PSI per second as required in ASTM-C-39-71. Contrary to these requirements 2" X 4" and 2" X 6" compressive strength specimens are to be tested in accordance ASTM-C-39-71, are broken at the same machine setting. Due to the reduced cross sectional area of these specimens the pre-set loading rate is incorrect. (APPROX. 728 LBS/SEC.)

Cause: Introduction of new size specimen for compression testing.

See Attached _____ sheets for continuation.

J. Worsley
Originators Signature and Date 10-30-88

Reviv (Fa) Deficiency Acknowledged
 Deficiency Not Acknowledged
See attached _____ sheets

12-5-88
Project Supervisors Signature

Review Agree Disagree (Fb)
See attached _____ sheets

Sign & Date N/A TGH 9/20/88

B. Hart 7220-C-656-3
R. Hart 7220-C-656-4
L. SINGTANA 7220-6-656-6

The below Corrective Action has been taken to resolve the Specific deficiency cited:

(G) Reports retrieved and sent to EPC Project Engineering for review/evaluation.
Compression machine unlocked from pre-set conditions (APPROX. 728 LBS/SEC.)

The below Corrective Action has been taken to prevent the Type of deficiency from recurring:

(H) Compression machine unlocked from pre-set conditions (APPROX. 728 LBS/SEC) and technicians trained in setting machine for the various required load rates.

See attached _____ sheets for continuation

See attached _____ shts. for cont.

CLOSE OUT

A. Rejection: The action taken is considered unsatisfactory
See attached _____ sheets for comments

Signature and Date (Ia)

Signature and Date (Ib)

B. Acceptance: The Corrective Action taken is considered satisfactory

Signature and Date (J)

Project Supervisor and Date

ACTION NOTICE

Subject: (D) COMPRESSION MACHINE LOADING RATE

ICAR Initiated by: J. WORSLEY (E)

Action Required (F)

EXTEND ICAR DUE DATE TO 12-29-83
FOR CLOSE OUT

See attached 0 sheets for continuation

R. Smith 12-5-83
Site Project Manager
Signature & Date

Action Accomplished (G)

DUE DATE EXTENDED

See attached 0 sheets for continuation

R. Smith
Signature & Date

Accession

Gary Worsley 12/5/83 (H)
Site QA Manager



UNITED STATES TESTING COMPANY, INC.

UST-CA-1, Rev. 3
Attachment C
Page 2 of 2

(A) AN NO. 7220-C-656-2

(B) DATE 12-29-83

(C) ISSUED TO Gangman

ACTION NOTICE

SUBJECT: (D) Compressor machine loading rate

ICAR initiated by: J. Morsley (E)

Action Required: (F) Extend ICAR due date to 1-27-84 for close out.

See attached -0- sheets for continuation

[Signature]
Site Project Manager
Signature & Date

Action Accomplished: (G) Due date extended

See attached -0- sheets for continuation

[Signature] 12-30-83
Signature & Date

Acceptance:

(H) [Signature]
Site QA Manager



UNITED STATES TESTING COMPANY INC.

UST-CA-1, Rev. 3
Attachment C
Page 2 of 2

(A) AN NO. 7220-C-656.5
(B) DATE 1-30-84
(C) ISSUED TO L. Smetana

ACTION NOTICE

SUBJECT: (D) Loading Rate for "UST-45" compressor testing machine.

ICAR initiated by: Joe Morsley (E)

Action Required: (F) Extend ICAR due date to 2-13-84 for close out.

Reason: continued debate over unlocking compressor machine controls versus specification change.

See attached 0 sheets for continuation

[Signature] 1-30-84
Site Project Manager
Signature & Date

Action Accomplished: (G) Due date extended

See attached 11 sheets for continuation

[Signature] 1-30-84
Signature & Date

Acceptance:

(H) Gary Mann 1-30-84
Site QA Manager



UNITED STATES TESTING COMPANY INC.

UST-CA-1, Rev. 3
Attachment C
Page 2 of 2

(A) AN NO. 7220-C-656.6
(B) DATE MARCH 13, 1984
(C) ISSUED TO L. SMETANA

ACTION NOTICE

SUBJECT: (D) LOADING RATE FOR "UST-45" COMPRESSION TESTING MACHINE

ICAR initiated by: JOE WORSLEY (E)

Action Required: (F) EXTEND ICAR DUE DATE TO MARCH 15, 1984 FOR CLOSE OUT.


REASON: ADDITIONAL TIME WAS REQUIRED TO RESEARCH ALL TEST REPORTS PERTAINING TO ~~THE~~^{THE} THIS ICAR.

See attached 0 sheets for continuation

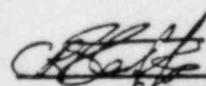

3-13-84
Site Project Manager
Signature & Date

Action Accomplished: (G) DUE DATE EXTENDED

See attached 0 sheets for continuation


3-13-84
Signature & Date

Acceptance:

(H) 
3-14-84
ACTING
IN LIEU OF KEV HOLLER
Site QA Manager



UNITED STATES TESTING COMPANY, INC.

UST-CA-1, Rev. 3
Attachment C
Page 2 of 2

(A) AN NO. 7220-C-664107.10 ^{656.3}
(B) DATE 1-20-84
(C) ISSUED TO R HART

NOTICE

SUBJECT: (D) *Loading Rate for "UST-45" Compression Testing Machine*

ICAR initiated by: J. Worsley (E)

Action Required: (F) *Hold a training session with all lab personnel, instructing them in the proper procedure to break compressive strength specimens to ASTM C-39 and C-109.*

Instruct them in how to set and adjust the rate of load, and the conditions when a higher rate of load (over 20 to 50 PSI/sec) may be utilized. Include in the instruction the rate of load, in pounds, for 6" x 12" and 2" x 4" cylinders

Note: after each break session the adjusting valve will be turned all the way down. This makes each technician readjust the machine to start breaking specimens.

Reference this ICAR on the Training sheet

See attached -0- sheets for continuation.


1-20-84
Site Project Manager
Signature & Date

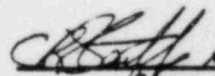
Action Accomplished: (G)

TRAINING SESSION HELD ATTACHED

See attached _____ sheets for continuation


14
3-7-84
Signature & Date

Acceptance:

(H)  ACTING 3-14-84
Site QA Manager

TRAINING RECORD
GROUP INSTRUCTION

Project or Location 7220 MIDLAND²⁶⁻⁸⁴
 Instructor J. Worsick, R. E. Sauer, B. Bolzman^{not taken} Date 2-24-84, 2-26-84, 2-28-84, 2-29-84, 3-1-84
 Subject Part of Load for Individual Specimens
 Description of Training

FOR CONCRETE 6x12 CYLINDERS THE RATE OF LOAD WILL BE 20 TO 50 PSI PER SECOND OR 565 TO 1414 LBS/PER SECOND
 FOR 2x4 CYLINDERS OF CONCRETE GRANT THE RATE OF LOAD WILL BE 20 TO 50 PSI PER SECOND OR 676 TO 1571 LBS/PER SECOND
 WHEN BREAKING THESE SPECIMENS THE MACHINIST WILL BE SET WITHIN THE ABOVE RANGE WITH THE CONTROLS
 SET IN THE 50 POSITION WHILE TESTING. MAKE NO ADJUSTMENTS TO THE CONTROLS WHILE THE SPECIMEN IS
 FAILING.

FOR SET-45 AND ALL OTHER 28 DAY CURE SPECIMENS RATE OF LOAD WILL BE 101 TO 554 PSI/SECOND OR 565 TO 1414 LBS/PER SECOND
 FOR 2-25-84 INITIAL CONTACT BETWEEN THE SPECIMEN AND THE COMPRESSION PLATE WILL
 BE AT THE LEAST 5 SECS FOR THAT SETTING. FOR SPECIMENS EXPECTED TO HAVE A MAXIMUM LOAD LESS
 THAN 3000 LBS, THE CONTROLS WILL REMAIN AT THE SLOWEST SETTING. IF THE SPECIMEN IS EXPECTED
 TO HAVE A MAXIMUM LOAD OF MORE THAN 3000 LBS, IT MAY BE LOADED UP TO 1/2 THE EXPECTED
 MAXIMUM LOAD (AFTER INITIAL CONTACT) AT ANY RATE NEEDED TO ENSURE FAILURE NOT LESS
 THAN 20 SECONDS AND NOT MORE THAN 80 SECONDS AFTER INITIAL LOADING.

Attendees:

NAME (PRINT)	SIGNATURE	DATE	NAME (PRINT)	SIGNATURE	DATE
BILL THOMPSON	BILL THOMPSON I	2-24-84			
GARY WHITTAKER	GARY WHITTAKER II	2-24-84			
STEVE FRIEND	Steve Friend	2-24-84			
THOMAS R TALASKA	THOMAS R TALASKA	2-24-84			
ROGER BUSTUP	ROGER BUSTUP	2-24-84			
R. HART	R. HART	2-24-84			
B. BOLZMAN	B. Bolzman	2-24-84			
L. HAKEN	L. HAKEN	2-24-84			
R. MAIDANS	R. MAIDANS	2-24-84			
B. WALKS	B. WALKS	2-26-84			
R. J. GALLAWAY	Ronald G. Gallaway	2-28-84			
YOUNG HART/KELVIN HART	Kelvin Hart	2-28-84			
NOEL STECH	NOEL STECH	2-29-84			
R. S. ZELNE	Richard S. Zilke	2-29-84			
W. McLEOD II	Walter McLeod II	2-29-84			
R. BELL	R. BELL	3-1-84			
chart	chart	2-29-84			



UNITED STATES TESTING COMPANY, INC.

NOTICE

UST-CA-1, Rev. 3
Attachment C
Page 2 of 2

(A) AN NO. 7220-C-656.4
(B) DATE 1-20-84
(C) ISSUED TO R. Hart

SUBJECT: (D) *Loading Rate for "UST-45" Compression Testing Machine*

ICAR initiated by: T Worsley (E)

Action Required: (F) *Compile copies of all strength reports for 2"x4" cylinders which are "a" related, and submit to BPCo Project Engineering for evaluation*

See attached - 0 - sheets for continuation

[Signature] 1-20-84
Site Project Manager
Signature & Date

Action Accomplished: (G) *Reports compiled + sent to Proj Eng.*

See attached _____ sheets for continuation

[Signature] 3-14-84
Signature & Date

Acceptance:

(H) *[Signature]* 3-14-84
Site QA Manager

BECHTEL POWER CORPORATION
 MIDLAND NUCLEAR POWER PLANT JOB 7220
 REPORT OF CONCRETE CYLINDERS (Q.C.P.-9 & 18 (Current revs.))

1. Placement Identification: **REG(611-8)V** 2. Date placed: **10-11-83**

3. Placement Location: **SOLDIER FILE NO. 16 AT S.W.P.S.**

3A. Source: **ALLIED CONCRETE** Cement brand & type: **AETNA TYPE I**

4. Mix: **C-10 GR07** 5. Class: **I** 6. °C Lat: **Yes** 7. Required Strength: **4000** PSI At **28** Day

8. Test Data: **FIELD (TC)** 9. Unit weight ASTM-C-138-74: **NA** Lbs/Ft³ 10. Yield: **NA**

11. Moisture: **2.1** % Stone: **Stone 2** 12. Water/Cement & Pozzolan Ratio: **0.42** Max **0.52**

13. Ticket No.: **C-C-27** 14. Truck No.: **17** 15. Time of Testing: **1217** Hrs at **3** Yards 16. Time of Molding: **1222**

17. Slump ASTM-C-143-74: **NA** Inches 18. Air Content ASTM-C-231-75: **NA** % 19. Temp: Concrete: **65** °C 20. Temp: Air: **72** °C 21. Initial Cure: **PTO SF**

22. Initial Curing ASTM-C-31-69: **10-11-83** 23. Stripped ASTM-C-31-69: **10-11-83** At **6957** Hrs 24. Final Cure: **11-13-83**

COMPRESSIVE STRENGTH DATA - ASTM-C-39-71 - ET 10-11-83

25. Specimen Identification	26. Date Moided	27. Date Tested	28. Age	29. Total Load in Pounds	30. Actual Cyl Diam	31. Actual Cyl Area	32. Type of Break	33. Cure Field	34. Strength PSI
SP1854-3124	10-11-83	10-18-83	7	13700	2x4	3.14	A	1	4360
SP1854-3125	10-11-83	10-18-83	7	13700	2x4	3.14	A	1	4360
SP1854-3126	10-11-83	10-18-83	7	13900	2x4	3.14	A	1	4430
SP1854-3127	10-11-83	11-8-83	28	17350	2x4	3.14	A	1	5530
SP1854-3128	10-11-83	11-8-83	28	17150	2x4	3.14	C	1	5460
SP1854-3129	10-11-83	11-8-83	28	17400	2x4	3.14	A	1	5540
SP1854-3130	10-11-83		* HOLD						
SP1854-3131	10-11-83		* HOLD						
SP1854-3132	10-11-83		* HOLD						

35. Standard Cylinder: 8" x 12" Cube Core Other **2x4 Cyl.** 40. Remarks: **Hold specimens until 11-13-83**

36. Age (Days): **7** Tested By: **RTB** Checked By: **ED** Reviewed by Q.C.: **RT Wilson 11-18-83**

36. Age (Days): **28** Tested By: **PB** Checked By: **GW** Reviewed by Q.C.: **RT Wilson 11-18-83**

41. Laboratory Supervisor Signature: **Randall C. West** 42. Date: **11-13-83**

Type of Break: A=Comp. Mortar Failure B=Comp. Aggregate Failure C=Shear, Mortar Failure D=Shear, Aggregate Failure E=Other

USTN44 @ 28



BECHTEL POWER CORPORATION
 MIDLAND NUCLEAR POWER PLANT JOB 7220
 REPORT OF CONCRETE CYLINDERS / C.C.P. - 4 & 18 (current work)

1. Placement Identification RSG (G.I.R.) U		2. Date Placed 10-5-83	
3. Placement Location SOLIDIER HILF NO. 18 AT S. W. P. C.			
3A. Source ALLIED CONCRETE		Cement Brand & Type NETNA TYPE I	
4. Mix C-10 GHEUT	5. Class I	6. "C" List Yes	7. Required Strength 4000 psi at 28 days
8. Test Data At: FIELD (TD)		9. Unit Weight ASTM-C-138-74 NA lbs/cu ft	10. Field: NA
11. Moisture Sand ASTM-C-568-67(72) 2.5 %		Stone 1 NA %	Stone 2 NA %
12. Water/Cement & Pozzolan Ratio 0.92 Max	13. Ticket No. 65932		14. Truck No. 15
15. Time of Testing 1435 Hrs at 3 Yards		16. Time of Molding 1445	
17. Slump ASTM-C-143-74 NA inches	18. Air Content ASTM-C-231-75 NA %	19. Temp: Concrete 69 °F	20. Temp: Air 58 °F
21. Initial Curing ASTM-C-31-69; Thermal Due Date 72°F To 70°F; 10-5-83 to 10-26-83		22. Stripped ASTM-C-31-69 10-5-83 At 1237 Hrs	23. Initial RG, NH

COMPRESSIVE STRENGTH DATA ASTM-C-39-71
 17 C-5-83

25. Specimen Identification	26. Date Mailed	27. Date Tested	28. Age	29. Total Load in Pounds	30. Actual Cyl Diam	31. Actual Cyl Area	Type of Break	Cure Field	34. Strength PSI
SPI851-3097	10-5-83	10-12-83	7	14,600	2x4	3.14	A	6	4650
SPI851-3098	10-5-83	10-12-83	7	14,950	2x4	3.14	A	6	4760
SPI851-3099	10-5-83	10-12-83	7	14,250	2x4	3.14	A	6	4540
SPI851-3100	10-5-83	11-2-83	28	18,900	2x4	3.14	A	27	6020
SPI851-3101	10-5-83	11-2-83	28	16,100	2x4	3.14	C	27	5130
SPI851-3102	10-5-83	11-2-83	28	19,700	2x4	3.14	A	27	6270
SPI851-3103	10-5-83		None						
SPI851-3104	10-5-83		None						
SPI851-3105	10-5-83		None						

35. Standard Cylinder <input type="checkbox"/> 8" x 12" <input type="checkbox"/> Cube <input type="checkbox"/> Core <input checked="" type="checkbox"/> Other		36. Age (Days) 7		37. Tested By RTR		38. Checked By (K)		39. Reviewed by Q.C. RT Wilson 11383		40. Remarks * Holds voided per J. Casdoo on 11-7-83 by SN	
		36. Age (Days) 28		37. Tested By PB		38. Checked By (K)		39. Reviewed by Q.C. RT Wilson 11383		41. Laboratory Supervisor Signature Randall C. Hart	
										42. Date 11-3-83	

Type of Breaks: A=Conc. Mortar Failure B=Conc. Aggregate Failure C=Shear, Mortar Failure D=Shear, Aggregate Failure E=Other

UST N17-A

FSO



BECHTEL POWER CORPORATION
MIDLAND NUCLEAR POWER PLANT JOB 7220
REPORT OF CONCRETE CYLINDERS (QCP-7 (current ver.))

1. Placement Identification: RSG (C11.9) T 2. Date Placed: 9-28-83

3. Placement Location: Soldier Pile #19 JT S11.05

3A. Source: PLANT DATA Cement Brand & Type: Antio, Type I

4. Mix: 10 Sp-1 5. Class: I 6. C₁₀₀ Lat: Yes 7. Required Strength: 4000 psi at 28 days

8. Test Data at: Truck discharge (5' dia) 9. Unit Weight ASTM-C-108-74: 142 lbs/ft³ 10. Field: NA

11. Moisture: Sand ASTM-C-968-97(72): 7.2 Stone 1: NA Stone 2: NA 12. Water/Cement & Pozzolan Ratio: 0.42 Max: 0.42

13. Ticket No.: 65795 14. Truck No.: 12 15. Time of Testing: 1332 Hrs at 3 Yards: 1343

17. Slump ASTM-C-143-74: NA inches 18. Air Content ASTM-C-231-75: NA % 19. Temp: Concrete: 75 °F 20. Temp: Air: 72 °F 21. Inflow: SF RH

22. Initial Curing ASTM-C-31-99: 7.3 to EC 23. Stripped ASTM-C-31-99: 4-29-83 At 0.98 Hrs 24. Inflow: 5000

COMPRESSIVE STRENGTH DATA ASTM-C-39-71

25. Specimen Identification	26. Date Moulded	27. Date Tested	28. Age	29. Total Load in Pounds	30. Actual Cyl Diam	31. Actual Cyl Area	Type of Break	Cure Field	Lab	34. Strength PSI
SP1849 3077	9-28-83	10-5-83	7	15000	2x4 3.14	A	1	6		4730
SP1849 3080	9-28-83	10-5-83	7	15700	2x4 3.14	A	1	6		5000
SP1849 3081	9-28-83	10-5-83	7	15900	2x4 3.14	A	1	6		5060
SP1849 3082	9-28-83	10-26-83	28	20650	2x4 3.14	A	1	27		6580
SP1849 3083	9-28-83	10-26-83	28	21550	2x4 3.14	A	1	27		6800
SP1849 3084	9-28-83	10-26-83	28	21450	2x4 3.14	A	1	27		6830
SP1849 3085	9-28-83									Hold
SP1849 3086	9-28-83									Hold
SP1849 3087	9-28-83									Hold

35. Standard Cylinder: 8" x 12" Cube Core Other 2x4 Cylinder 9-19-83

40. Remarks: Hold specimens voided per J. Gardes 10-26-83

36. Age (Days): 7 37. Tested By: TT 38. Checked By: Gu. 10-6-83 39. Reviewed by Q.C.: RT. Wilson 10-31-83

36. Age (Days): 28 37. Tested By: PB 38. Checked By: Gu. 10-26-83 39. Reviewed by Q.C.: RT. Wilson 10-31-83

41. Laboratory Supervisor Signature: Randall C. Hart 42. Date: 10-26-83/10-29

Type of Breaks: A=Cons. Mortar Failure B=Cons. Aggregate Failure C=Shear, Mortar Failure D=Shear, Aggregate Failure E=Other

01-213

45T-D-141.10 79

F50



BECHTEL POWER CORPORATION
MIDLAND NUCLEAR POWER PLANT JOB 7220
REPORT OF CONCRETE CYLINDERS / (CCP-9+18) (current rev.)

1. Placement Identification: P.S.G. (611.2) W
2. Date Placed: 10-13-83

3. Placement Location: Soldier Pile No. 15 + C.W.P.S.

3A. PLANT DATA: Source Allied Concrete; Cement brand & type Actva Type I

4. Mix: [blank]; 5. Class: [blank]; 6. 90° Lat: [] Yes [] No; 7. Required Strength: [blank] PSI At [blank] Days

8. Test Data At: [blank]; 9. Unit Weight ASTM-C-138-74: [blank] Lbs/Ft³; 10. Field: [blank]

11. Moisture Sand ASTM-C-566-67(72): Stone 1 [blank], Stone 2 [blank]; 12. Water/Cement & Pozzolan Ratio: [blank] Max [blank]

13. Ticket No. 606064; 14. Truck No. 18; 15. Time of Testing: 1518 Hrs at 4.00 Yards; 16. Time of Molding: 1526 Hr

17. Slump ASTM-C-143-74: NA Inches; 18. Air Content ASTM-C-231-75: NA %; 19. Temp: Concrete 62 °F; 20. Temp: Air 49 °F; 21. Incast: RTR

22. Initial Curing ASTM-C-31-89: Therml/due Date 70°F To 79°F; 757/2-21-84; 23. Stripped ASTM-C-31-89: ATD 10/14/83 At 1526 Hrs; 24. Incast: Jew TW

COMPRESSIVE STRENGTH DATA ASTM-C-39-74 R-E 10-26-83

25. Specimen Identification	26. Date Moulded	27. Date Tested	28. Age	29. Total Load in Pounds	30. Actual Cyl Diam	31. Actual Cyl Area	32. Type of Break	33. Cure Field	34. Strength PSI
SP1857-3151	10-13-83	10-20-83	7	14850	2x4	3.14	A	1	4730
SP1857-3152	10-13-83	10-20-83	7	15250	2x4	3.14	A	1	4860
SP1857-3153	10-13-83	10-20-83	7	14650	2x4	3.14	A	1	4670
SP1857-3154	10-13-83	11-10-83	28	18500	2x4	3.14	A	27	5890
SP1857-3155	10-13-83	11-10-83	28	18450	2x4	3.14	A	27	5880
SP1857-3156	10-13-83	11-10-83	28	18400	2x4	3.14	A	27	5860

35. Standard Cylinder: 5" x 12" Cube Core Other (2x4 cyl.)

40. Remarks: *REFERENCE QAR *RS-00062

36. Age (Days): 7; 37. Tested By: ATB; 38. Checked By: [blank]; 39. Reviewed by Q.C.: [blank]

41. Laboratory Supervisor Signature: Randall C. Hart; 42. Date: 11-11-83

Type of Breaks: A=Conc. Mortar Failure B=Conc. Aggregate Failure C=Shear, Mortar Failure D=Shear, Aggregate Failure E=Other

BECHTEL POWER CORPORATION
 MIDLAND NUCLEAR POWER PLANT JOB 7220
 REPORT OF CONCRETE CYLINDERS (RCP-9, RCP-18 (Current Rev))
 Great Cylinders

1. Placement Identification <u>RSG (11.9) X</u>		2. Date Placed <u>10-15-83</u>	
3. Placement Location <u>Service Water Pump Structure Soldier Beam #14</u>			
3A. PLANT DATA: Source <u>Allied Concrete</u>		Cement brand & type <u>Actna Type I</u>	
4. Mix <u>C10-Great</u>	5. Class <u>I</u>	6. Δ Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	7. Required Strength <u>4000 psi at 28</u>
8. Test Data ref. <u>Track 2nd Floor (Field)</u>		9. Unit Weight ASTM-C-138-74 <u>NA</u>	10. Field: <u>NA</u>
11. Moisture Sand ASTM-C-586-77(72) Stone 1 <u>3.2 NA</u>		Stone 2 <u>NA</u>	
12. Water/Cement & Pozzolan Ratio <u>0.42</u>		Max <u>0.45</u>	
13. Ticket No. <u>66093</u>	14. Truck No. <u>16</u>	15. Time of Test <u>1340</u> Hrs at <u>4</u> Yards	16. Time of Molding <u>1355</u>
17. Slump ASTM-C-143-74, 18. Air Content ASTM-C-231-75 <u>NA</u> Inches <u>NA</u> %		19. Temp: Concrete <u>58</u> °F	20. Temp: Air <u>55</u> °F
21. Incess <u>BB RS</u>		22. Initial Curing ASTM-C-31-89, 23. Stopped ASTM-C-31-89 <u>70°F To 80°F; 7551 4-21-84</u> <u>10-15-83</u> At <u>1215</u> Hrs	

COMPRESSIVE STRENGTH DATA ASTM-C-39-71

25. Specimen Identification	26. Date Moulded	27. Date Tested	28. Age	29. Total Load in Pounds	30. Actual Cyl Diam	31. Actual Cyl Area	Type of Break	Cure	34. Strength PSI		
SP-1859	3167	10-15-83	10-22-83	7	14150	2.4	3.14	C	1	6	4510
SP-1859	3170	10-15-83	10-22-83	7	13100	2.4	3.14	C	1	6	4170
SP-1859	3171	10-15-83	10-22-83	7	12600	2.4	3.14	C	1	6	4010
SP-1859	3172	10-15-83	11-12-83	28	17150	2.4	3.14	A	1	27	5460
SP-1859	3173	10-15-83	11-12-83	28	18735	2.4	3.14	C	1	27	5960
SP-1859	3174	10-15-83	11-12-83	28	18435	2.4	3.14	A	1	27	5870
SP-1859	3175	10-15-83	*	Hold							
SP-1859	3176	10-15-83	*	Hold							
SP-1859	3177	10-15-83	*	Hold							

36. Standard Cylinder <input type="checkbox"/> 6" x 12" <input type="checkbox"/> Cube <input type="checkbox"/> Core <input checked="" type="checkbox"/> Other		37. 2x4 cylinders		40. Remarks ① Water cement ratio exceeded Batch weights all	
38. Age (Days) <u>7</u>	39. Tested By <u>WM</u>	41. Checked By <u>GW</u>	42. Reviewed by Q.C. <u>RT Wilson 11-18-83</u>	within Tolerance, Reference Section 9.2.2 C-230-a	
<u>28</u>	<u>GW</u>	<u>RT Wilson 11-18-83</u>		* Void Holds Per J. Baydos F.E. RIG 11-13-83	
41. Laboratory Supervisor Signature <u>Paul C. Hart</u>				42. Date <u>11-14-83</u>	

Type of Break: A=Cons. Mortar Failure B=Cons. Aggregate Failure C=Shear, Mortar Failure D=Shear, Aggregate Failure E=Other

UST 244 @ 28

SHT 17 FSO
0230

BECHTEL POWER CORPORATION
MIDLAND NUCLEAR POWER PLANT JOB 7220
REPORT OF CONCRETE CYLINDERS (QCP-7 and QCP-18 (current revs))

1. Placement Identification: *RS6101912* Date Placed: *10-16-83*

2. Placement Location: *Solid in Pile #17 at SWPS*

3A. Source: *Allied Concrete* Cement Brand & Type: *ACTON Type I*

4. Mix: *5. C-444* 6. 10' Wet: *Yes* 7. Required Strength: *4000 psi at 28 days*

8. Test Data Ref: *Truck discharge (F-14)* 9. Unit Weight ASTM C-128-74: *NA* 10. Field: *NA*

11. Moisture Sand ASTM C-966-77(72): *NA* Stone 1: *NA* Stone 2: *NA* 12. Water/Cement & Pozzolan Ratio: *0.42 Max 0.43*

13. Ticket No: *66074* 14. Truck No: *13* 15. Time of Test: *1346* Hrs at *4* Years: *1355*

17. Slump ASTM C-143-74: *NA* Inches: *NA* 18. Air Content ASTM C-231-75: *57* % 19. Temp: Concrete: *60* °F 20. Temp: Air: *60* °F 21. Notes: *JEW JW*

22. Initial Curing ASTM C-31-79: *10-16-83* 23. Stripped ASTM C-31-79: *10-17-83* at *1211* hrs 24. Notes: *11-17-83*

COMPRESSIVE STRENGTH DATA ASTM C-39-71

25. Specimen Identification	26. Date Moded	27. Date Tested	28. Age	29. Total Load in Pounds	30. Actual Cr Diam	31. Actual Cr Area	32. Type of Break	33. Cure	34. Strength P
SP1861	3137 10-16-83	10-23-83	7	15725	2.4	3.14	A	1	4300
SP1861	3188 10-16-83	10-23-83	7	13500	2x4	3.14	A	1	4300
SP1861	3199 10-16-83	10-23-83	7	15650	2x4	3.14	A	1	4350
SP1861	3190 10-16-83	11-13-83	28	15500	2x4	3.14	A	1	5890
SP1861	3191 10-16-83	11-13-83	28	17175	2x4	3.14	A	1	5470
SP1861	3192 10-16-83	11-13-83	28	18350	2x4	3.14	A	1	5840
SP1861	3193 10-16-83	*	Hold	*					
SP1861	3194 10-16-83	*	Hold	*					
SP1861	3195 10-16-83	*	Hold	*					

35. Standard Cylinder: 6" x 12" Cube Core 2" x 4" Cylinders Other

36. Age (Days): *7* Tested By: *JEW* Checked By: *AW* Reviewed by Q.C.: *R.T. Wilson 11-18-83*

37. Age (Days): *28* Tested By: *WM* Checked By: *TSC* Reviewed by Q.C.: *R.T. Wilson 11-18-83*

38. Remarks: *Water cement ratio exceeded. Batch weights all within tolerance. Reference Section 9.2.2 C-230-a*

39. Laboratory Supervisor Signature: *[Signature]* 40. Date: *11-17-83*

Type of Break: A=Cons. Mortar Failure B=Cons. Aggregate Failure C=Shear, Mortar Failure D=Shear, Aggregate Failure E=Other

01-213

BECHTEL POWER CORPORATION
 MIDLAND NUCLEAR POWER PLANT JOB 7220
 REPORT OF CONCRETE CYLINDERS / GCP-9818 (Current vers.)

1. Placement Identification: RSG (634.0) BR
 2. Date placed: 10-20-83

3. Placement Location: LAGGING BACKFILL AT S.W. P. S.

3A. Source: ALLIED CONCRETE
 Cement Brand & Type: AFTNA TYPE I

4. Mix: C-1C (GROUT)
 5. Class: I
 6. C₁₀ List: Yes
 7. Required Strength: 4000 psi at 28 days

8. Test Date: TRUCK DISCHARGE
 9. Unit weight ASTM C-138-74: NA
 10. Field: NA

11. Moisture Sand ASTM C-566-97(72): 3.1%
 Stone 1: NA
 Stone 2: NA
 12. Water/Cement & Pozzolan Ratio ET: 0.42

13. Ticket No: C-6184
 14. Truck No: 12
 15. Time of Test: 1319 hrs at 4 Yards
 16. Time of Molding: 1318

17. Slump ASTM C-143-74: NA inches
 18. Air Content ASTM C-231-75: NA %
 19. Temp: Concrete: 64 °F
 20. Temp: Air: 40 °F
 21. Notes: RTB

22. Initial Cure: 73°F to 75°F
 23. Stripped: 10-21-83 at 1140 hrs
 24. Notes: ETP, DH

COMPRESSIVE STRENGTH DATA - ASTM C-39-77

25. Specimen Identification	26. Date Moulded	27. Date Tested	28. Age	29. Total Load in Pounds	30. Actual Cyl Diam	31. Actual Cyl Area	32. Type of Break	33. Cure Field	34. Strength PSI	
SP1868-3250	10-20-83	10-27-83	7	17875	2"x4"	3.14	C	1	6	5690
SP1868-3251	10-20-83	10-27-83	7	16800	2"x4"	3.14	C	1	6	5350
SP1868-3252	10-20-83	10-27-83	7	17425	2"x4"	3.14	C	1	6	5550
SP1868-3253	10-20-83	11-17-83	28	21900	2"x4"	3.14	A	1	27	6970
SP1868-3254	10-20-83	11-17-83	28	22250	2"x4"	3.14	A	1	27	7090
SP1868-3255	10-20-83	11-17-83	28	22050	2"x4"	3.14	A	1	27	7020
SP1868-3256	10-20-83		Hold		2"x4"	3.14				
SP1868-3257	10-20-83		Hold		2"x4"	3.14				
SP1868-3258	10-20-83		Hold		2"x4"	3.14				

36. Standard Cylinder: 8" x 12" Cube Core Other (2 x 4 CYL.)

40. Remarks: Holds Void per J. Gaydos 11-18-83

38. Age (Days): 7
 39. Tested By: WM
 40. Checked By: RB
 41. Reviewed by Q.C.: R.T. Wilson 11/21/83

42. Age (Days): 28
 43. Tested By: PR
 44. Checked By: GW
 45. Reviewed by Q.C.: R.T. Wilson 11/21/83

46. Laboratory Supervisor Signature: Randolph C. Hart
 47. Date: 11-19-83

Type of Break: A = Conc. Mortar Failure B = Conc. Aggregate Failure C = Shear, Mortar Failure D = Shear, Aggregate Failure E = Other

G. 213



BECHTEL POWER CORPORATION
 MIDLAND NUCLEAR POWER PLANT JOB 7220
 REPORT OF CONCRETE CYLINDERS / QCP - 9 #18 (current rev.)

1. Placement Identification RSG (6.34.0) BS		2. Date Placed 10-21-83	
3. Placement Location LAGGING BACKFILL AT S.W.P.S.			
3A. Source PLANT DATA ALLIED CONCRETE		Cement brand & type AETNA TYPE I	
4. Mix C-1C GROUT	5. Class I	6. 10' Test <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7. Required Strength 4000 psi at 28
8. Test Data At: TRUCK DISCHARGE		9. Unit weight ASTM C-138-74 NA lbs/cu ft	10. Yield: NA
11. Moisture Sand ASTM C-566-87(72) 3.2 %		Stone 1 NA %	Stone 2 NA %
12. Water/Cement & Pozzolan Ratio 0.42			ET 10-21-83 0.35
13. Ticket No. 66194	14. Truck No. 12	15. Time of Testing: 0900 Hrs at 6 Yards	16. Time of Molding 0911
17. Slump ASTM C-143-74 11B NA inches	18. Air Content ASTM C-231-75 NA %	19. Temp: Concrete 60 °F	20. Temp: Air 43 °F
21. Release DH		22. Initial Curing ASTM C-31-89 74 °F To 77 °F ET 10-21-83	23. Stripped ASTM C-31-89 10-22-83 At 0721 Hrs New

COMPRESSIVE STRENGTH DATA - ASTM C-39-74
ET 10-21-83

25. Specimen Identification	26. Date Molding	27. Date Tested	28. Age	29. Total Load in Pounds	30. Actual Cyl Diam	31. Actual Cyl Area	32. Type of Break	33. Cure Field	34. Strength PSI
SP1870-3268	10-21-83	10-28-83	7	15,725	2.14	3.14	A	1 6	5010
SP1870-3269	10-21-83	10-28-83	7	16,150	2.4	3.14	A	1 6	5140
SP1870-3270	10-21-83	10-28-83	7	15,700	2.4	3.14	A	1 6	5000
SP1870-3271	10-21-83	11-18-83	28	18,300	2.4	3.14	A	1 27	5830
SP1870-3272	10-21-83	11-18-83	28	20,450	2.4	3.14	A	1 27	6510
SP1870-3273	10-21-83	11-18-83	28	20,200	2.4	3.14	A	1 27	6430
SP1870-3274	10-21-83		None						
SP1870-3275	10-21-83		None						
SP1870-3276	10-21-83		None						

35. Standard Cylinder <input type="checkbox"/> 6" x 12" <input type="checkbox"/> Cube <input type="checkbox"/> Core <input type="checkbox"/> Other		36. Age (Days) 7		37. Tested By WM		38. Checked By AT Wilson 11/2/83		39. Reviewed by Q.C. AT Wilson 11/2/83		40. Remarks * 6.0" Hold specimens per J Guides - PE BH	
35. Standard Cylinder		36. Age (Days) 28		37. Tested By PB		38. Checked By AT Wilson 11/2/83		39. Reviewed by Q.C.		41. Laboratory Supervisor Signature [Signature]	
										42. Date 11.10.83	

Type of Break: A=Conc. Mortar Failure B=Conc. Aggregate Failure C=Shear, Mortar Failure D=Shear, Aggregate Failure E=Other

25-6

11-1-85 @ 28

SHT 20 OF 20
F.S.O.



BECHTEL POWER CORPORATION
MIDLAND NUCLEAR POWER PLANT JOB 7220
REPORT OF CONCRETE CYLINDERS / GCP-9 & 18 (Current revs.)

1. Placement Identification: RESG (Call. 8) AP
2. Date Placed: 10-21-83
3. Placement Location: SOLDIER PILE NO. 12 AT S.W. P.S.
4A. PLANT DATA: ALLIED CONCRETE
5. Source: CEMENT BRAND & TYPE: AETNA TYPE I
6. Mix: C-10 GROUT
7. Required Strength: 4000 psi at 28 days
8. Test Data Method: TRUCK DISCHARGE
9. Unit Weight ASTM C-138-74: NA
10. Field: NA
11. Moisture Sand ASTM C-566-97(72): Stone 1: NA, Stone 2: NA
12. Water/Cement & Pozzolona Ratio: 0.42 Max, 0.42
13. Ticket No.: 66209
14. Truck No.: 14
15. Time of Test: 1409 Hrs at 4 Yards
16. Time of Molding: 1415
17. Slump ASTM C-143-74: NA
18. Air Content ASTM C-231-79: NA
19. Temp: Concrete: 58 °C
20. Temp: Air: 56 °C
21. Ingress: R2
22. Initial Cure: 74 °F To 77 °F
23. Stripped: 10-22-83
24. Ingress: 1255 Hrs

COMPRESSIVE STRENGTH DATA - ASTM C-39-71

25. Specimen Identification	26. Date Moulded	27. Date Tested	28. Age	29. Total Load in Pounds	30. Actual Cyl Diam	31. Actual Cyl Area	Type of Break	Cure	34. Strength PSI
SP1872-3286	10-21-83	10-28-83	7	12,500	2.4	3.14	A	1	3900
SP1872-3287	10-21-83	10-28-83	7	12,650	2.4	3.14	A	1	4030
SP1872-3288	10-21-83	10-28-83	7	12,200	2.4	3.14	A	1	3890
SP1872-3289	10-21-83	11-18-83	28	17,400	2.4	3.14	A	1	5540
SP1872-3290	10-21-83	11-18-83	28	17,300	2.4	3.14	A	1	5510
SP1872-3291	10-21-83	11-18-83	28	17,350	2.4	3.14	A	1	5530
SP1872-3292	10-21-83		HOLD						
SP1872-3293	10-21-83		HOLD						
SP1872-3294	10-21-83		HOLD						

35. Standard Cylinder: 6" x 12" Cube Core Other (2 x 4 Cyl.)
40. Remarks: * Hold specimens per J. Gardos FE - AH 11-19-83
38. Age (Days): 7, 28
39. Tested By: W/M, P/B
41. Checked By: T.W., G.L.
42. Reviewed by Q.C.: R.T. Wilson 11-21-83, R.T. Wilson 11-21-83
41. Laboratory Supervisor Signature: Randall C. Hart
42. Date: 11-19-83

Type of Break: A = Conc. Mortar Failure B = Conc. Aggregate Failure C = Shear, Mortar Failure D = Shear, Aggregate Failure E = Other

G-213

6. QAR NO: RS-00064
 7. DATE ISSUED: 11-15-83 8 REV: 0
 9. PAGE 1 OF 2 RECEIVED
 10. ASME RELATED APR 21 1984
 YES NO Legal

1. REQUIREMENT: U.S. Testing Procedure UST-TQ-1, "Training and Qualification of Inspection Test and Audit Personnel", Section V, Para. 3.2.2 states; "Level II Requirements: To be considered for certification, a candidate must (subject to the conditions of 3.1.2) satisfy one of the following requirements: (1) One year of satisfactory performance as Level 1, or (Cont'd. page 2)

2. DEFICIENCY: Contrary to the above, during a review of three (3) qualification folders revealed the following:

1. The qualification folder for S. Laurich indicated the individual was certified as a Level II in QCP-14, "Quality Control Procedure of Forms", QCP-22, "Control of Specifications and Procedures", QCP-23, "Onsite Document Control Procedure", and UST-CA-1, "Internal Corrective Action" (for Document Control), however, there is no evidence on the individual's document of Qualification Record (Cont'd. page 2)

11. POTENTIAL 50.55(e)
 YES NO

3. QAR ORIGINATED BY: [Signature]
 4. DISCIPLINE/DIVISION/SECTION: Quality
Civil-MPQAD Soils-Services
 5. RESPONSE DUE DATE: 11/21/83
 12. REPORTED TO MPQA NUMBER: N/A
 DATE: N/A

13. ACTION ITEM NO: <u>U-00389</u>	15. ITEM PRIORITY: <u>4</u>	17. S/U CODE: <u>PGMOO</u>	19. ACTION ORGANIZATION: <u>Bechtel Subcontracts</u>	20. QAR REVIEWED BY: <u>Joseph P. Polyz</u>
14. DISCIPLINE: <u>G</u>	16. TREND CODE: <u>F-5</u>	18. RESB CODE: <u>BSC</u>	21. DATE: <u>11-15-83</u>	

22. CAUSE:
Management error in classification.

23. PROPOSED CORRECTIVE ACTION:
 1. The Level II status of S. Laurich will be deleted and replaced by the title: "Senior Document Controller".
 2. The Level II status of Jan Hollingshead will be deleted and replaced by the title, "Senior Document Controller". Receipt inspection will in addition be deleted from the DOQ along with ANSI reference.

24. RESPONSIBLE ORGANIZATION/PERSON:
R.E. Clark 12-16-83

25. PROPOSED COMPLETION DATE:
12-19-83

26. DISPOSITION CONCURRENCE: See RFI/A Nos. AS-0003 and AS-0029 for additional corrective action

<u>JK Adachi 4-17-84</u> QAR REVIEWER	<u>4-17-84</u> DATE	<u>N/A</u> PQAE (ASME ONLY)	<u>N/A</u> DATE
--	------------------------	--------------------------------	--------------------

27. DISPOSITION ACTION TAKEN:
CORRECTIVE ACTION COMPLETED PER BLOCK 23, RFI AS-0003 AND RFI AS-0029.
Jane M. Edwards 4/17/84

28. METHOD OF DISPOSITION VERIFICATION:
Reviewed the affected qualification records and verified that the above corrective action (as delineated in block 23, RFI/A-AS-0003 and 0029) has been satisfactorily completed.
JK Adachi 4-18-84

29. QAR CLOSED BY:
Joseph P. Polyz 4-19-84
 MPQAD DATE
N/A
 PFQCE (ASME ONLY) DATE

ACCEPTABLE UNACCEPTABLE SUPERCEDING QAR _____

QUALITY ACTION REQUEST
CONTINUATION SHEET

QAR NO:	RS-0006A	
DATE:	11-15-83	REV: 0
PAGE 2 OF 2		

BLOCK 1 REQUIREMENT (Cont'd.)

- (2) High school graduate plus three years of related experience in equivalent testing, examination or inspection activities at power plants, heavy industrial facilities or other similar facilities, or
- (3) Completion of college level work leading to an Associates degree in a related discipline plus one year or related experience in equivalent testing examination or inspection activities at power plants, heavy industrial facilities or other similar facilities, or
- (4) Four-year college degree plus six-months of related experience in equivalent testing, examination of inspection activities at power plants, heavy industrial facilities or other similar facilities.

BLOCK 2 DEFICIENCY (Cont'd.)

to show the Level II Requirements have been met.

- 2. The qualification folder for J. Hollinghead indicated the individual was certified as a Level II in QCP-5, "Quality Control Procedure for Receipt Inspection of Laboratory Material and Equipment", however, there is no evidence on the individual's ^{document} of Qualification Record to show the Level II Requirements have been met. _{SPD 11-15-83}

RS-00064

RON CLAREY
RS-00064



REPLACEMENT COPY
REQUEST FOR INFORMATION/ACTION

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

This copy replaces ~~lost~~ original
lost 4-2-84

Page 1 of 23

ASSIGNED ORGANIZATION Bechtel Subcontracts	RFI/A NO. AS-0003
ORIGINATOR SPDePillo	FOR FURTHER INFORMATION, CONTACT SPDePillo PHONE 6503
DATE RESPONSE REQUESTED BY 01/19/84	
DISTRIBUTION DEHorn/BJJohnson	INITIATING ORGANIZATION MPQAD - Soils

DESCRIPTION OF INFORMATION/EVALUATION/CLARIFICATION/ACTION

The proposed corrective action provided in QAR RS-00064 dated 12/16/83 is not acceptable for the following reasons:

- The Level II status for S. Laurich and J. Hollingshead will be deleted and replaced by the title "Senior Document Controller" on what form? Provide justification for why the Level II status was deleted and an evaluation of previous work was not performed. If no justification can be provided for why an evaluation was not performed, then conduct an evaluation of previous work performed as a Level II.

(See Page 2 for continuation.)

SIGNATURE OF SUPERVISOR/DATE
Donald E Horn 1/11/84

RESPONSE
SEE PAGE 3

SIGNATURE OF RESPONDENT/DATE <i>Robert E. D... for</i> RE. CLAREY 3/29/84	SIGNATURE OF RESPONDER/DATE <i>JK Alachi</i> 4-16-84 See RFI/A - AS-0029 for further information
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Continued from DESCRIPTION OF INFORMATION/EVALUATION/CLARIFICATION/ACTION Block:

2. Why was the ANSI reference not deleted from S. Laurich Document of Qualification Form?
3. For J. Hollingshead, provide justification for why an evaluation of receipt inspections was not conducted to ascertain if J. Hollingshead has performed any receipt inspections. If no justification can be provided, then conduct an evaluation of previous inspections as a Level II receipt inspector.

Additional Response to QAR #00064

AND RFI # AS-0003

Item #1

The level II status for S. Laurich and J. Hollingshead have been deleted and replaced by the title "Senior Document Controller" on the Document of Qualification Supplement for (USTF-TQ-1.4.1) and on the Proficiency evaluation record (USTF-TQ-1.1)

A management error in classification of these individuals has made this change necessary.

Since the Document Control category does not require a "Level" certification, no evaluation of work performed by these individuals in this area is necessary.

Item #2

The ANSI reference on the Document of Qualification form is there due to the fact that this form is taken from ANSI N45.2.6. This reference is made on all US Testing D.O.Q.'s and will remain on both of the above mentioned individuals recorded.

Item #3

After an assessment of the situation and a review of the receipt inspection process it has been determined that J. Hollingshead has not performed receiving inspection for any materials or equipment used in testing safety related materials.

ORIGINAL



REQUEST FOR INFORMATION/ACTION

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

Page 1 of 1

ASSIGNED ORGANIZATION Bechtel FSO - REDavis	RFI/A NO. <p style="text-align: center; font-size: 1.2em;"><i>AS 0029</i></p>
ORIGINATOR JKAdachi	FOR FURTHER INFORMATION, CONTACT JKAdachi
DATE RESPONSE REQUESTED BY 4-13-84	PHONE <u> </u> Ext. <u>6915</u>
DISTRIBUTION JPFoley - MPQAD - Soils QA GBJohnson - MPQAD - Soils QA JWerner - FSO	INITIATING ORGANIZATION MPQAD - Soils QA

DESCRIPTION OF INFORMATION/EVALUATION/CLARIFICATION/ACTION
 Item #2 of the additional response to QAR-RS-00064 (dated 12/16/83) provided through the response to RFI/A-AS-0003 is unacceptable because the reference to ANSI on the Document of Qualification form for S. Laurich has not been deleted. The reason for this presented in the response in RFI/A-AS-0003 which states that the ANSI reference was not deleted because the form is taken from ANSI-N45.2.6 is unacceptable because ANSI-N45.2.6 does not contain the subject form. Since the document control work does not require "level" certification, as presented in Item No. 1 of the response to RFI/A-AS-0003, the qualifications of these document control individuals cannot be said to be in accordance with ANSI-N45.2.6. Therefore, their qualification records cannot contain reference to ANSI-N45.2.6.

SIGNATURE OF SUPERVISOR/DATE
Joseph P. Foley Jr 4-10-84

RESPONSE
A REVIEW OF DOCUMENT OF QUALIFICATIONS FORMS HAS BEEN PERFORMED BY UST. FOR THOSE INDIVIDUALS WHOSE JOB DESCRIPTION DOES NOT REQUIRE A "LEVEL" CERTIFICATION, FOR THOSE UNIQUE INSTANCES A NOTE TO THE FORM HAS BEEN ADDED TO INDICATE THAT THE REFERENCE TO ANSI-N45.2.6 IS NOT APPLICABLE. UST WILL CONTINUE THE USE OF THE SUBJECT FORM, HOWEVER NOTATION OF THE ABOVE WILL BE MADE IN LIKE INSTANCES.

SIGNATURE OF RESPONDER/DATE <i>Robert E Davis</i> 4/16/84 <i>FOR: B. WILSON / J. WERNER</i>	ACCEPTANCE SIGNATURE/DATE <i>JKAdachi</i> 4-16-84 <i>Joseph P. Foley Jr</i> 4-16-84
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**Consumers
Power
Company**

ORIGINAL
MIDLAND PROJECT
QUALITY ASSURANCE DEPARTMENT
QUALITY ACTION REQUEST

6. QAR Number RS-00157	
7. Date Issued 3/26/84 3/15/84	8. Revision 1 8
9. Page 1 of 456 594/5/84	
10. ASME Related <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

1. Requirement
U.S. Testing QA Manual 7220-C-208, Revision 12, Section 18.2 states in part "The records shall be adequate, legible, identifiable and retrievable..."

RECEIVED
APR 21 1984
C. P. Co. Legal

2. Deficiency
Contrary to the above, during the verification of the disposition of QAR RS-00021 the following was noted: After comparing the Training Group Instruction Record shown on Page 3 to that shown on Page 4, ~~three~~^{two} deficiencies were noted between the Training Record Group Instruction records. ~~The first deficiency noted was several dates following the signatures on the Training Record Group Instruction shown on Page 3 did not match those of the same individuals shown in the Training Record Group Instruction on Page 4.~~
(See Continuation Sheet)

3. QAR Originated by S. P. DePillo	4. Discipline/Division/Section Quality Civil/MPQAD Soils/Services	5. Response Due Date 03/28/84	11. Potential 50.55(e) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
13. Action Item No. U-00667	15. Item Priority 3	17. S/U Code PMGOR PGMOR	12. Date Reported to MPQA Mgr NA
14. Discipline G	16. Trend Code R-G 3/23/84	18. Resb Code BFSOC	20. QAR Reviewed by Donald E. Horn
22. Cause TYPOGRAPHICAL ERROR IN TRANSFER OF INFORMATION.		21. Date 3/23/84	

23. Proposed Corrective Action
THE ORIGINAL TYPED TRAINING RECORD AFFECTED BY THIS QAR HAS BEEN CORRECTED TO REFLECT THE HANDWRITTEN SIGNATURES ON THE ORIGINAL GROUP TRAINING RECORD. CORRECTED COPIES HAVE BEEN INSERTED IN PERSONNEL FILES OF THOSE WHO ATTENDED TRAINING. U.S.T. HAS IMPLEMENTED A NEW TRAINING RECORD GROUP INSTRUCTION FORM. SEE ATTACHED FORM UST-T2-1.6.1. ATTENDEES NAMES WILL NO LONGER BE TYPED ON TRAINING RECORDS.

24. Responsible Organization/Person J. WERNER BECHTEL FSO	25. Proposed Completion Date 4-3-84
26. Disposition Concurrence Joseph P. Polych 4-10-84 QAR reviewer Date	POAE (ASME Only) N/A Date

27. Disposition Action Taken
CORRECTIVE ACTION COMPLETED PER BLOCK 23.
James M. Edwards
4/11/84

28. Method of Disposition Verification Verified that subject typed training record has been corrected and inserted in affected personnel's training files. - Tichelski 4-16-84	29. QAR Closed by Joseph P. Polych 4-16-84 Date
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Acceptable Unacceptable Superseding QAR

PFQCE (ASME Only) N/A Date

MIDLAND PROJECT
QUALITY ASSURANCE DEPARTMENT

ORIGINAL
QUALITY ACTION REQUEST
CONTINUATION SHEET

QAR NO:	RS-00157	
DATE:	3/26/84 3/15/84	REV: 1/8
PAGE	2	OF 256 300 4-16-84 59 4/5/84

Continued from Block 2.

The ~~second~~ ^{FIRST 3/26/84} deficiency noted was that C R Stauffis was shown on the Training Record Group Instruction on Page 3 to have attended training sessions on 08/29/83, and 08/31/83. However the Training Record Group Instruction found on Page 4 shown C R Stauffis attending training on 08/29/83. △

The ~~third~~ ^{second} deficiency noted was that R J Harbour signed the Training Record Group Instruction on Page 3 but did not indicate the date of attendance after his signature. However the Training Record Group Instruction found on Page 4 indicates that R J Harbour attended training on 08/30/83. △

ORIGINAL

5945/84
PAGE 3 of 4 5 6
QAR RS-00157

**TRAINING RECORD
GROUP INSTRUCTION**

Project or Location 7220/Midland

Instructor C. Anderson Date 8-29-83, 8-30-83, 8-31-83

Subject Reports and Records

Description of Training:

- 1) Timeliness and accuracy of test reports (Lesson Plans) See attachment 1
- 2) ICAR Administrative Instruction (interim) (August 29, 1983) See attachment 2
- 3) Accessibility of records (QCP-23 Rev. 1) See attachment 3

Attendees:

<i>John Doe 8-31-83</i>	<i>B. Cullen 8-29-83</i>	<i>John K. White 8-31-83</i>
<i>Thom Dock 8-30-83</i>	<i>Gary Whittaker 8-29-83</i>	
<i>Bill W. Wood 8-30-83</i>	<i>Jan Hollingshead 8-29-83</i>	
<i>Danny Baker 8-30-83</i>	<i>Julie Seamater 8-29-83</i>	<i>R. Zeller 8-31-83</i>
<i>Robert Stephens 8-30-83</i>	<i>Richard Bell 8-29-83</i>	<i>RTM 8-31-83</i>
<i>Clark 8-29-83</i>	<i>Charles E. Cornack 8-29-83</i>	
<i>Yarns Stall 8-29-83</i>	<i>Judy Chen 8-29-83</i>	
<i>Thomas T. Tolstok 8-29-83</i>	<i>Ken Howell 8-29-83</i>	
<i>P. Bynali 8-29-83</i>	<i>Randy Hart 8-29-83</i>	
<i>J. Howey 8-29-83</i>	<i>Edward Tuttle 8-29-83</i>	
<i>Douglas Lee Smith 8-29-83</i>	<i>Bill Thompson 8-29-83</i>	<i>Blatt 8-31-83</i>
<i>John Engeman 8-29-83</i>	<i>H. Enos 8-29-83</i>	
<i>Robert Rose 8-29-83</i>	<i>R. Mair 8-29-83</i>	
<i>Steve Smith 8-29-83</i>	<i>Dean L. Laurich 8-29-83</i>	
<i>Ronald J. Gillenay 8-29-83</i>	<i>Allyson Hunt 8-29-83</i>	
<i>Stephen A. Threlkoff 8-29-83</i>	<i>CR Layth 8-29-83</i>	
<i>R. T. Harbaw</i>	<i>John H. H. 8-29-83</i>	
	<i>John H. H. 8-29-83</i>	
	<i>Walter M. Ford 8-29-83</i>	
	<i>Helmer Hart 8-30-83</i>	

ORIGINAL

TRAINING RECORD
GROUP INSTRUCTION

SA 4/5/84
PAGE 4 of KB 6
WAR 25-00157

Project or Location 7220/Midland

Instructor C. Anderson

Date 8-29-83, 8-30-83, 8-31-83

Subject Reports and Records

Description of Training:

- 1) Timeliness and accuracy of test reports (Lesson Plans) See attachment 1
- 2) ICAR Administrative Instruction (interim) (August 29, 1983) See attachment 2
- 3) Accessibility of records (QCP-23 Rev. 1) See attachment 3

Attendees:

J Speltz 8-31-83
K. Doyle 8-30-83
B. Weeks 8-30-83
L. Haken 8-30-83
R. Stephens 8-30-83
R. Clark 8-29-83
J. Stull 8-29-83
T. Talaska 8-29-83
P. Bujalski 8-29-83
D. Howey 8-29-83
D. Stech 8-29-83
J. Engelman 8-29-83
R. Rose 8-29-83
S. Friend 8-29-83
R. Gallaway 8-29-83
S. Thurlow 8-29-83
R. Harbour ~~8-30-83~~
B. Oldham 8-29-83
G. Whittaker 8-29-83
J. Hollingshead 8-29-83
J. Seamster 8-29-83
R. Beli. 8-29-83
C. Cornack 8-29-83

T. Green 8-29-83
R. Howell 8-29-83
R. Hart 8-29-83
E. Tubbs 8-29-83
B. Thompson 8-29-83
H. Eno 8-29-83
R. Maidens 8-29-83
S. Laurich 8-29-83
A. Hunter 8-29-83
C.R. Stauffis 8-29-83
G. Louchart 8-29-83
J. Lalk 8-29-83
W. McCord 8-29-83
K. Hart 8-30-83
J. Worsley 8-30-83
K. Kehrer 8-31-83
R. Zielke 8-31-83
R. Smith 8-31-83

TRAINING RECORD
GROUP INSTRUCTION

Saf 6
972
4-16-84

Project or Location _____

Instructor _____ Date _____

Subject _____

Description of Training:

SAMPLE

Attendees:

NAME (PRINT)	SIGNATURE	DATE	NAME (PRINT)	SIGNATURE	DATE

TRAINING RECORD
GROUP INSTRUCTION

Project or Location 7220/Midland
 Instructor C. Anderson Date 8-29-83, 8-30-83, 8-31-83
 Subject Reports and Records

Description of Training:

- 1) Timeliness and accuracy of test reports (Lesson Plans) See attachment 1
- 2) ICAR Administrative Instruction (interim) (August 29, 1983) See attachment 2
- 3) Accessibility of records (QCP-23 Rev. 1) See attachment 3

Attendees:

J Speltz 8-31-83
 K. Doyle 8-30-83
 B. Weeks 8-30-83
 L. Haken 8-30-83
 R. Stephens 8-30-83
 R. Clark 8-29-83
 J. Stull 8-29-83
 T. Talaska 8-29-83
 P. Bujalski 8-29-83
 D. Howey 8-29-83
 D. Stech 8-29-83
 J. Engelman 8-29-83
 R. Rose 8-29-83
 S. Friend 8-29-83
 R. Gallaway 8-29-83
 S. Thurlow 8-29-83
 R. Harbour ~~8-30-83~~ VOID DATE
 B. Oldham 8-29-83 CR5 3-13-84
 G. Whittaker 8-29-83
 J. Hollingshead 8-29-83
 J. Seamster 8-29-83
 R. Bell. 8-29-83
 C. Cornack 8-29-83

T. Green 8-29-83
 R. Howell 8-29-83
 R. Hart 8-29-83
 E. Tubbs 8-29-83
 B. Thompson 8-29-83
 H. Eno 8-29-83
 R. Maidens 8-29-83
 S. Laurich 8-29-83
 A. Hunter 8-29-83
 C.R. Stauffis 8-29-83
 G. Louchart 8-29-83
 J. Lalk 8-29-83
 W. McCord 8-29-83
 K. Hart 8-30-83
 J. Worsley 8-30-83
 K. Kehrer 8-31-83
 R. Zielke 8-31-83
 R. Smith 8-31-83
 C.R. STAUFFIS 8-31-83 CR5 3-13-84



Consumers
Power
Company

ORIGINAL

MIDLAND PROJECT

QUALITY ASSURANCE DEPARTMENT

QUALITY ACTION REQUEST

6. QAR Number <i>RS-00165</i>	
7. Date Issued <i>3/27/84</i>	8. Revision <i>0</i>
9. Page <i>1</i> of <i>1</i>	

1. Requirement *CORRECTIVE ACTION FOR MPQAD QAR NO. RS-00088 REQUIRED IMPLEMENTATION OF A CHECK OUT PROCEDURE FOR CLOSED FSO-NCR'S FROM THE QC VAULT. OUT CARDS ARE REQUIRED WHEN NCRS ARE CHECKED OUT OF THE QC VAULT.*

10. ASME Related Yes No

RECEIVED
APR 21 1984
C. P. Co. Legal

2. Deficiency *CONTRARY TO THE REQUIREMENTS STATED IN BLOCK NO. 1 OF THIS QAR, TEN (10) CLOSED FSO-NCR'S (388, 413, 425, 440, 441, 446, 449, 453, 454, 457) ARE NOT IN THE QC VAULT AND NO OUT CARDS ARE USED TO TRACK RECORD REMOVAL. (TOTAL NO. OF FSO-NCR'S IS 459. ALL NCR'S WERE INCLUDED IN REVIEW.)*

11. Potential 50.55(e) Yes No

3. QAR Originated by <i>Joseph McMaster</i>		4. Discipline/Division/Section <i>MPQAD 301AS</i>		5. Response Due Date <i>4-20-84</i>		12. Date Reported to MPQA Mgr <i>NA</i>	
13. Action Item No. <i>U-00678</i>		15. Item Priority <i>5</i>		17. S/U Code <i>PGM OR</i>		20. QAR Reviewed by <i>Donald E. Horv</i>	
14. Discipline <i>G</i>		16. Trend Code <i>R-5</i>		18. Resb Code <i>BOP QC</i>		21. Date <i>3/27/84</i>	
19. Action Organization <i>M. ALLARD</i>				20. QAR Reviewed by <i>Donald E. Horv</i>			

22. Cause *Due to clerical error during cross training of new employees.*

23. Proposed Corrective Action *To retrieve the NCRs identified above and return to the vault files, or replace with "outcard" identifying who has the NCR checked out.*

24. Responsible Organization/Person <i>MPQAD-QC VAULT</i>		25. Proposed Completion Date <i>5-11-84</i>	
26. Disposition Concurrence <i>Fay B. Johnson</i>		Date <i>4/17/84</i>	
QAR Reviewed		Date	
		Date	

27. Disposition Action Taken

28. Method of Disposition Verification		29. QAR Closed by	
<input type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable <input type="checkbox"/> Superceding QAR		MPQAD _____ Date _____ PFQCE (ASME Only) _____ Date _____	



Consumers Power Company

ORIGINAL RECEIVED QUALITY ASSURANCE DEPARTMENT QUALITY ACTION REQUEST

6. QAR Number RS-00172	
7. Date Issued 4-3-84	8. Revision 0
Page 1 of 24 24 Jan 4/17/89 15 Jan 4/17/89	

1. Requirement

C. P. Co. Legality ASME Related
 Yes No

Requirement 1) FPD-1.000, Rev 20, Sec. 7.1.3 states in part, "The recipient organization is responsible for maintaining up-to-date 'Controlled Sticks' in the work locations....In no case shall superseded... drawings be retained on 'Controlled Sticks'."

Requirement 2) FPD-1.000, Rev 20, Sec. 6.1 states in part, "Upon receipt of a DCN... controlled copies of the applicable document will be marked with a change paper stamp (see Attachment K)...the DCN will be attached to the controlled document." (continued on page 2)

2. Deficiency

Deficiency 1) Contrary to requirement 1 above, Dwg. C-1417-1, Rev 5 was found at the UAT Work Print Station, while Rev 6 is the current revision.

Deficiency 2) Contrary to requirement 2 above, DCN 7 was not written in the change document stamp of DWG. C-1424-9 at the UAT Workprint Station and DCN 10 was not attcd. to Dwg. C-1424-12 at the UAT Workprint Station.

(continued on page 2)

11. Potential 50.55(e)
 Yes No

3. QAR Originated by <i>Joseph M. Masto</i>	4. Discipline/Division/Section MPQAD Soils	5. Response Due Date 4-20-84	12. Date Reported to MPQA Mgr NA
--	---	---------------------------------	-------------------------------------

13. Action Item No. U-00699	15. Item Priority 2	17. S/U Code PGMOR	19. Action Organization D Lavelle	20. QAR Reviewed by <i>J.K. Misenheimer</i>
--------------------------------	------------------------	-----------------------	--------------------------------------	--

14. Discipline G	16. Trend Code R-5	18. Resb Code BFSOC	21. Date 1/3/89
---------------------	-----------------------	------------------------	--------------------

22. Cause 20 4/1/84 SEE BLOCK PAGE 3 <i>Paul Vander Veer</i> 4/1/84	23. Proposed Corrective Action SEE PAGE 3 & 4 <i>Paul Vander Veer</i> 4/1/84
--	--

24. Responsible Organization/Person FSO / PAUL VANDER VEER	25. Proposed Completion Date 4/18/84
---	---

26. Disposition Concurrence <i>James K. Misenheimer</i> 1/13/89 QAR Reviewer Date	NA PQAE (ASME Only) Date
---	-----------------------------

27. Disposition Action Taken

CORRECTIVE ACTION HAS BEEN COMPLETED AS STATED ON PAGE 3 & 4 PER BLOCK 23. *Carla Fenwick* 4-16-84

28. Method of Disposition Verification See page 5 of 5	29. QAR Closed by <i>J.K. Misenheimer</i> 9/17/89 MPQAD Date NA PFOCE (ASME Only) Date
---	--

Acceptable Unacceptable Superseding QAR

MIDLAND PROJECT
QUALITY ASSURANCE DEPARTMENT

QUALITY CONTROL REQUEST
ORIGINAL
CONTINUATION SHEET

QAR NO: RS-00172	
DATE: 4-3-84	REV: 0
PAGE 2 OF 2-4/15 4/11/84 15 9m 4/11/84	

(Continuation of Block 1)
Requirement 3) FPD-1.000, Rev 20, Section 6.3.3 states in part, "FCRs shall be controlled the same as specified for DCNs in 6.1 of this procedure" (see Requirement 2 above).

(Continuation of Block 2)
Deficiency 3) Contrary to requirement 3 above, FCR 7612 was not attached to Dwg. C-1492-6 at the UAT Workprint Station.

NOTE: Reference Soils I.A.T. NIR #24

Jm
4/17/84RESPONSE TO QAR RS-00172 (NIR 024)Block 22 - Cause:

- Deficiency 1) FSO Document Control error. The workprint was illegible in the lower right hand corner and someone (unidentified) hand wrote the number "6" in the revision block. We cannot determine the exact circumstances or timing when this happened, although we suspect that it was done prior to the conversion of Mergentime workprints and the takeover of Mergentime Document Control by FSO. During conversion and subsequent audits, FSO Document Control failed to check the drawing carefully to determine if, in fact, it was Rev. 6.
- Deficiency 2) a. FSO Document Control error. The clerk properly attached DCN 7 to the back of Drawing C-1424-9, but failed to write in the DCN in the attachment block on the front of the drawing.
- b. FSO Document Control error. The controlled copy of DCN 10 to Drawing C-1424-12 had been received, but the workprint copies had not. FSO clerks failed to follow-up to ensure the workprint copies were requested, received, and attached to the workprints within the three day time limit.
- Deficiency 3) On March 29, 1984, the time of the audit, FCR C-7612 was not supposed to be on the drawing. This FCR had been superseded by a later FCR, and a pullback notice had been issued on March 28, 1984. At the time of the audit, this was not an error. However, we cannot verify that this FCR was ever attached to this workprint, since the number C-7612 did not appear in the attachment block on the front of the workprint. FCR C-7612 was distributed during the night shift on March 21, 1984, but was superseded by FCR C-7624, which was also distributed on March 21, 1984. We cannot determine the exact circumstances of which FCR was distributed first. We concur that an error was made somewhere during the processing of this FCR, but at the time of the audit, the workprint was correct.

Block 23 - Proposed Corrective Action:

Deficiencies 1 and 2a were corrected immediately upon discovery - Rev. 5 of C-1417-1 was replaced with Rev. 6, and DCN 7 was written in the attachment block on the front of Drawing C-1424-9. All other copies of these drawings were checked in other locations, and no duplication of these errors was found.

Deficiency 2b was corrected on Friday, March 30, 1984, when workprint copies of DCN 10 were received. This error was duplicated on all other copies of Drawing C-1424-12, since no workprint distribution had been received. All copies were corrected at the same time.

gm
4/17/84

RESPONSE TO QAR
RS-00172 (NIR 024)
Page Two

There was no corrective action required on Deficiency 3, since the FCR was not required to be attached to the drawing. However, FSO checked all other copies of Drawing C-1492-6 in other areas and found that C-7612 was attached. Subsequently, in accordance with Procedure FPD-1.000, FCR C-7612 was removed from all drawings after a pull-back notice was issued on March 28, 1984.

All FSO Document Control clerks have been instructed to exercise extreme care in attaching addenda to drawings and to follow all established criteria. They have also been instructed to monitor legibility more closely and all illegible documents are to be replaced, not marked by hand, even if the document can be verified as correct. And lastly, all clerks have been instructed to follow only direction received from Field Document Control (FDC) with regard to distribution and pullback of attachments. Attachments will be removed only upon receipt of a pullback notice from FDC.

RQAR/JK

QUALITY ACTION REQUEST
CONTINUATION SHEET

QAR NO: RS-00172	
DATE: 4-3-84	REV: 0
PAGE <u>5</u> OF <u>5</u>	

Continuation of Block 28)
Drawings C-1417-1, C-1424-9, C-1424-12 and C-1492-6 (where the original deficiencies were identified by NIR 24) were reviewed and found to be in compliance with the present Design Document Register.

A sample audit of design drawings at the UAT Workprint Station was performed to verify administrative accuracy of this station.

The sample audit was based on Military Standard, Sampling Procedures and Tables for Inspection by Attributes, MIL-STD-105D (3/20/64).

The following are a list of the audit parameters.

- 1) Station drawing distribution - 69 design drawing.
- 2) Four attributes checked - Existence, Revision No., Stamps (include "R" stamps) and Attachments.
- 3) Attributes total 276 (69drawings X 4).
4. Sample size - 32 attributes (32/4=8 drawings).
- 5) Accept/Reject rate of 1/2 respectfully.

The following design drawings were chosen at random and no deficiencies were found.

C-1418-3	C-1424-4	C-1426-5	C-1433
C-1445-2	C-1492-1	C-1492-9	C-1493-1

Station distribution of 69 design drawings was also correct.

Verification of Corrective Action is found acceptable. *Jm 4/17/84*



**Consumers
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MIDLAND PROJECT
QUALITY ASSURANCE DEPARTMENT

QUALITY ACTION REQUEST

ORIGINAL

6. QAR Number

RS-00177

7. Date Issued

4/5/84

8. Revision

0

9.

Page 1 of 12 21
4-1984

1. Requirement

Project Special Provision (PSP) G-3.2, Rev. 8,

Control of Nonconforming Items, Section 5.2.1 states; "The Action Organization may request that work, other than corrective action, be performed on a nonconforming item covered by an MPQAD NCR by completing the appropriate parts of a Conditional Release form as illustrated in Attachment 7.7 and forwarding to the Plant Assurance Engineering Supervisor or PFQCE of the appropriate discipline."

10. ASME Related

Yes No

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APR 21 1984

C. P. Co. Legal

2. Deficiency Contrary to the above, one 12" deep steel channel approximately 27' long, listed on NCR S-00779, was cut into pieces without the Action Organization (FSO) obtaining a Conditional Release. (No corrective action had yet been proposed for NCR S-00779.)
Note: The hold tag was no longer attached to the piece and could not be found, but has since been replaced. One 2'-5" piece and one 18'-9" piece of channel remain with the replaced hold tag. The location of the remaining 5'-10" (approximately) piece of the channel is unknown.

11. Potential 50.55(e)

Yes No

3. QAR Originated by

KLDamrel 4-5-84

4. Discipline/Division/Section

Civil/MPOAD QA-Soils-Yard

5. Response Due Date

4-20-84

12. Date Reported to MPQA Mgr

N/A

13. Action Item No.

U-00705

15. Item Priority

2

17. S/U Code

PGMOR

19. Action Organization

Bechtel FSO

20. QAR Reviewed by

Joseph P. Deyh

14. Discipline

G

16. Trend Code

R-5

18. Resb Code

BFSOC

21. Date

4-6-84

22. Cause

SEE PAGE 2

23. Proposed Corrective Action

SEE PAGE 2

24. Responsible Organization/Person

BECHTEL FSO / PAUL VANDER VEER

25. Proposed Completion Date

4.20.84

26. Disposition Concurrence

Joseph P. Deyh 4-19-84

QAR Reviewer

Date

N/A

PFQAE (ASME Only)

Date

27. Disposition Action Taken

28. Method of Disposition Verification

Acceptable

Unacceptable

Superseding QAR

29. QAR Closed by

MPQAD

Date

PFQCE (ASME Only)

Date

QUALITY ACTION REQUEST
CONTINUATION SHEET

QAR NO: RS-00177

DATE: 4/5/84

REV: 0

PAGE 2 OF 2

BLOCK 22 (CONT.) - NCR S-00779 WAS WRITTEN WHEN MERGENTIME REMOVED THE HOLD TAGS TO APPLY PAINT TO THE CHANNELS IN ACCORDANCE WITH THE NCR DISPOSITION. ^{(OF NCR 25-00771) N 4/18/84} MERGENTIME HAS STATED THEY DID REPLACE THE TAGS, BUT IT PROBABLY WASN'T ATTACHED SECURELY ENOUGH BECAUSE SOMETIME LATER, WHEN THE WORK CREW CUT THE CHANNEL, THEY STATED NO HOLD TAG WAS VISABLE.

IN THE INSTANCE NOTED ON THIS QAR, THE HOLD TAG FOR NCR S-00779 WAS ORIGINALLY ATTACHED, BUT AGAIN, AT SOME POINT IN TIME, THE HOLD TAG WAS DISPLACED, DESTROYED OR REMOVED BY PERSONS OR FORCES UNKNOWN AND THUS WHEN THE WORK CREW (WHO WERE PART OF A "TEAM" THAT HAD JUST RETURNED TO THE JOBSITE AFTER THEIR "OFF" SHIFT) PROCEEDED TO CUT A PIECE FROM THE CHANNEL THERE WAS NO EVIDENCE OF A HOLD TAG.

BLOCK 23 (CONT.) - TO ALLEVIATE SIMILAR PROBLEMS IN THE FUTURE THE FOLLOWING MEASURES HAVE BEEN IMPLEMENTED:
a) MERGENTIME HAS BEEN NOTIFIED OF THE REQUIREMENTS GOVERNING THE PLACEMENT AND REMOVAL OF HOLD TAGS AS SPECIFIED IN PSP G-3.2 WITH SPECIAL EMPHASIS HAVING BEEN PLACED ON THE CONSEQUENCES ^{N 4/18/84} OF NOT STRICTLY ^{ADHERING} TO ^{R 4/18/84} THE REQUIREMENTS; b) MERGENTIME HAS BEEN INSTRUCTED TO CONDUCT DAILY "WALK-THROUGH" CHECKS OF THE POSSYVILLE LAYDOWN AREA FOR COMPLIANCE TO SPECIFICATION AND PROCEDURAL REQUIREMENTS, AS WELL AS THE STATUS OF NCRs AND NCR HOLD TAGS; c) BECHTEL FSD WILL PROVIDE EXTRA COPIES OF THE DAILY NCR STATUS SHEET TO MERGENTIME SO THAT THE PERSON IN CHARGE OF THE LAYDOWN AREA CAN BE COGNIZANT OF ANY ADDITIONS OR DELETIONS ON THE ACTIVE NCR LIST.

N/A
FIELD ENG.
Rose Jw 4/18/84
QUALITY ENG.

M M Blendy 4/18/84
A.R.E.E.



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ORIGINAL
QUALITY ASSURANCE DEPARTMENT
QUALITY ACTION REQUEST

6. QAR Number <i>RS-00182</i>	
7. Date Issued 4-13-84	8. Revision 0
9. Page <u>1</u> of <u>1</u>	

1. Requirement

Per MPQAD Procedure F-12M R/5 Appendix A which states in part:
The records listed below shall be retained for the time period indicated in accordance with the requirements of MPQAD Procedure F-12M... Performance Demonstration record - P...
P- Permanent - retained for the life of the plant.

10. ASME Related <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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APR 21 1984
C. P. Co. Legal

2. Deficiency

Contrary to the above requirements, candidates personnel certification package is missing the Performance Demonstration dated 1-25-84 for certification to UP-C-1.019, R/8. Candidate was certified to this plan on 2-8-84.

11. Potential 50.55(e) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

3. QAR Originated by <i>WJKist</i>		4. Discipline/Division/Section <i>CIVIL/SOILS</i>		5. Response Due Date <i>4-27-84</i>		12. Date Reported to MPQA Mgr <i>N/A</i>	
13. Action Item No. <i>U-10725</i>	15. Item Priority <i>5</i>	17. S/U Code <i>PGMOR</i>	19. Action Organization <i>Soils Quality Services</i>		20. QAR Reviewed by <i>Darryl B. Johnson</i>		21. Date <i>4/13/84</i>
14. Discipline <i>G</i>	16. Trend Code <i>R-5</i>	18. Resb Code <i>SOILS-S</i>					

22. Cause	23. Proposed Corrective Action
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24. Responsible Organization/Person	25. Proposed Completion Date
-------------------------------------	------------------------------

26. Disposition Concurrence			
QAR Reviewer	Date	PQAE (ASME Only)	Date

27. Disposition Action Taken

28. Method of Disposition Verification		29. QAR Closed by	
<input type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable <input type="checkbox"/> Superseding QAR		MPQAD _____ Date _____	
		PFQCE (ASME Only) _____ Date _____	



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MIDLAND PROJECT
QUALITY ASSURANCE DEPARTMENT
QUALITY ACTION REQUEST

6. QAR Number RS-00183	
7. Date Issued 4/18/84	8. Revision 0
9. Page <u>1</u> of <u>1</u>	
10. ASME Related <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

1. Requirement Field Instruction FIT-1.100, Rev. 7, Control of the Contractor Work Request (CWR), section 7.2.3 states; "The CGSO Lead Discipline Supervisor will indicate "Q" program, in-scope/out-of-scope, scheduled start, and completion date (Section II).

RECEIVED
APR 21 1984
C. P. Co. Legal

2. Deficiency
Contrary to the above, Section II of CWR serial no. C-1010 indicates that the work is out of the scope of the Q program, however a portion of the work is Q-listed. (Drilling of the hole for installation of the settlement marker in the Q-listed. Borated Water Storage Tank foundation is a Q-listed activity.) See NCR S-00751 for the hardware nonconformance caused by improper completion of the CWR.

11. Potential 50.55(e) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
12. Date Reported to MPQA Mgr N/A	20. QAR Reviewed by <i>Joseph P. Blaylock</i>
21. Date 4-19-84	

3. QAR Originated by KLDamrel <i>K.L. Damrel</i> 4-18-84	4. Discipline/Division/Section CIVIL/MPQAD Soils/QA Yard	5. Response Due Date 5/4/84
13. Action Item No. U-00734	15. Item Priority 2	17. S/U Code JPD 4-15-84
14. Discipline F	16. Trend Code R-6	18. Resb Code BC-GSO
19. Action Organization Construction General Services Organization		

22. Cause	23. Proposed Corrective Action
24. Responsible Organization/Person	25. Proposed Completion Date

26. Disposition Concurrence	QAR Reviewer _____ Date _____	PQAE (ASME Only) _____ Date _____
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27. Disposition Action Taken

28. Method of Disposition Verification	29. QAR Closed by
<input type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable <input type="checkbox"/> Superseding QAR	MPQAD _____ Date _____
	PFOCE (ASME Only) _____ Date _____

NONCONFORMANCE REPORT

ORIGINAL

H00011-ZZ

17 DATE ISSUED

9-22-83

18 REV

0A

19

PAGE 1 OF 2

165943
 9/17/84
 (X) 2

ITEM LOCATION

10'10" WEST OF T. 9 & 2'9" SOUTH OF A LINE B.O.D. EL. 609'3" AUX BLD. FLOOR EL. 599'0"

ITEM DRAWING/PART NO.

(one)

3 ITEM PART NAME

4 ITEM SERIAL NO.

HANGER-I V035HZ REV. 6

HVAC HANGER

N/A

ITEM DESCRIPTION

ONE 2"X2"X1/4"X48" LONG ANGLE IRON ATTACHED TO WALL WITH ANCHOR BOLTS

RECEIVED

APR 21 1984

C. P. Co. Legal

ITEM STARTUP SYSTEM NO.

0 GLB

7 REFERENCE DOCUMENT

7220-M-151A(Q) REV. 15 SECTION 5.19

8 ASME A.N.I. REQUIRED

YES NO

INSPECTION RECORD NO.

H-7-A

LOG NO.

1615

REY NO.

1

10 RESPONSIBLE ORGANIZATION

ZACK SUBCONTRACTOR

NONCONFORMANCE DISCOVERED DURING:

POST INSPECT

TURNOVER

DESIGN

RECEIVING

CONST

RELEASE FOR INSPECT

PRE-OP TEST

FINAL TURNOVER

OVERINSPECT

REQUIREMENT

7220-M-151A(Q) REV. 15 SECTION 5.19 STATES IN PART: CERTIFICATION OF MATERIALS SHALL BE IN ACCORDANCE WITH SECTIONS 17.4, 17.5 AND 17.6 OF THIS SPECIFICATION.

NONCONFORMANCE

ANCHOR BOLT INSPECTION REPORT #3 DATED 4-28-81 ^{#E3313} DOCUMENTS THE ANGLE IRON ATTACHED TO THE WALL AS 3"X3"X1/4". THE ANGLE PIECE INSTALLED NOW IS 2"X2"X1/4" & THEREFORE LACKS TRACEABILITY AS TO MATERIAL CERTIFICATIONS OF THIS PIECE.

14 NCR ORIGINATED BY (PERSON)

RON THURSTON

9-22-83

DATE

15 NCR ORIGINATED BY (DISCIPLINE)

HVAC

NUMBER OF HOLD TAGS (IF APPLIED)

ONE

21 LOCATION OF HOLD TAGS

ATTACHED TO BOTTOM MEMBER OF HANGER

POTENTIAL 50.55(e)

YES NO

24 ACTION ITEM NO.

Z0526
 ZACK 9-7093

26 ITEM PRIORITY CODE NO.

5

28 NCR REVIEWED BY:

Ronald Miller

REPORTED TO MPQA MANAGER

25 DISCIPLINE:

M

27 TREND CODE

N-6

DATE:

9-30-83

CONTINUED ON REVERSE

NONCONFORMANCE REPORT

ORIGINAL

17 DATE ISSUED 9-22-83	18 REV <input type="checkbox"/>
19 PAGE 1 OF 3 4 197/90/3/83	

1 ITEM LOCATION
 12' 1" W of 7.8 line, 4' 10" N. of Kc. line, EL. 682' 11", 7.8-Chase

2 ITEM DRAWING/PART NO. V22-2B Rev. 5 HANGER 40
 3 ITEM PART NAME HVAC HANGER
 4 ITEM SERIAL NO. N/A

5 ITEM DESCRIPTION
 Hanger Detail 12/C864 Rev 11

RECEIVED
 APR 24 1984
 C.P. Co. Legal

6 ITEM STARTUP SYSTEM NO. OGLH
 7 REFERENCE DOCUMENT 7220-M-151A(Q) REV. 15
 8 ASME A.N.I. REQUIRED
 YES NO

9 INSPECTION RECORD NO. H-7-A
 LOG NO. 72
 REV NO. 1
 10 RESPONSIBLE ORGANIZATION ZACK CO.

11 NONCONFORMANCE DISCOVERED DURING:
 DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST INSPECT TURNOVER POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT
 Item #1: 7220-M-151A(Q) REV. 15 SECTION 10.2.1 STATES: DUCT, HANGERS & SUPPORTS shall be fabricated as shown on the drawings. Drawing 7220-DETAIL 7/C849 Rev. 12.
 Item #2: 7220-M-151A(Q) Rev. 15 Section 16.7 States: Subcontractor's Plans and procedures shall include the means by which Subcontractor ensures that work is COMPLETE and correct prior to Subcontractor's request for inspection by MPQAD. See Continuation Sheet Page 2

13 NONCONFORMANCE
 Item #1: Welds required at locations as indicated on attached sketches are missing. Reference ^{Attachments} ~~pages 3 of 4, 4 of 4.~~ 197/93/83 1 of 2, 2 of 2.
 Item #2: Material identified on attached page ~~1 of 2~~ was removed without specific authorization on a conditional release or correct action plan.

14 NCR ORIGINATED BY (PERSON)
 Robert Vogel 9/22/83
 DATE
 15 NCR ORIGINATED BY (DISCIPLINE)
 MPQAD-HVAC

20 NUMBER OF HOLD TAGS (IF APPLIED) 1
 21 LOCATION OF HOLD TAGS Reference Block #1 Hanger #40

22 POTENTIAL 50.55(e)
 YES NO
 24 ACTION ITEM NO. 20557
 26 ITEM PRIORITY CODE NO. 5
 28 NCR REVIEWED BY: RAB

23 REPORTED TO MPQA MANAGER TE _____
 25 DISCIPLINE: M
 27 TREND CODE
 ① N-3
 ② N-6
 DATE: 10/3/83

ITEMS WERE OVERLOOKED BY BOTH CRAFTSMEN AND FIELD ENGINEER.

ORIGINAL

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

① WELDS SHALL BE ADDED AT ALTERNATE LOCATIONS PER NOTE 6 DRWG C864 WPS 2-1-1 or 2-1-2 (SEE ATTACHED SKETCH). ② PERSONNEL HAVE BEEN RETAINED.

33 DISTRIBUTION FOR ACTION

ZACK CONSTRUCTION

34 DISPOSITION CONCURRENCE

<u>[Signature]</u> 10-17-83 PROJECT FIELD ENGINEER DATE	<u>Ron Miller</u> 10-20-83 MPQAD CONCURRENCE DATE	_____ PFQCE (ASME) DATE
_____ LEAD DESIGN ORG DATE	_____ CP Co SMO (for turned over systems) DATE	_____ PQAE (ASME) DATE
		_____ A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

WELDS ADDED WPS 2-1-1 & 2-1-2 WELDER ID HV068

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

Visual and Documentation

IF UNACCEPTABLE, REFERENCE SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

David L Miller H32 4-11-94
MPQAD DATE

A.N.I. (ASME) DATE

ORIGINAL

NONCONFORMANCE REPORT
CONTINUATION SHEET

NCR NO.	H-00012-ZZ	
DATE ISSUED	9-22-93	REV 0
PAGE	3	OF 3
	3/10/93	

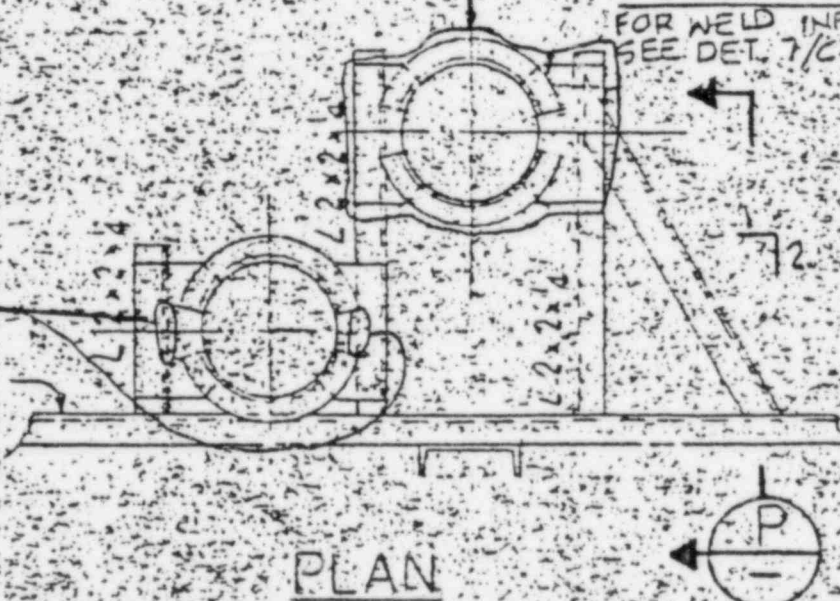
(Block 12 Continuation of item #2) Zack Co. Procedure MB-FP-8 Rev 2 section 8.2 states in part that "The NCR TAG by its application prevents any further work on or relocation of the item, except as specifically authorized by either an approved corrective action plan or an approved Conditional Release."

1/2" = 1'-0"

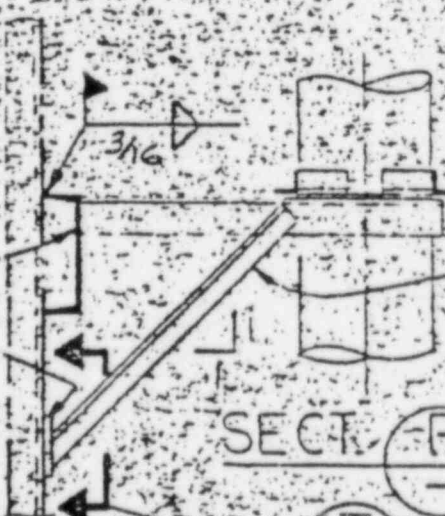
C-864

Plates & rings missing from #2

SEE DETAIL 5 FOR WELD INFO. SEE DET. 7/C-849



PLAN



SECT. P

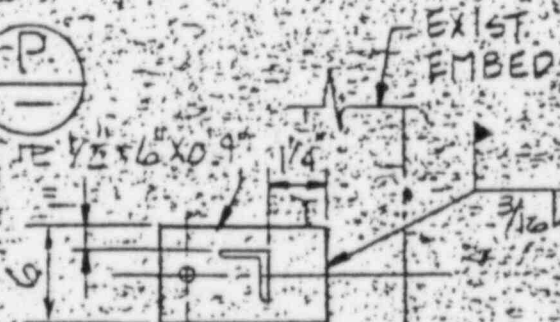
T.O.S. EL. WHEN CALLED OUT ON PLAN DWG.

L BRACING EA. SIDE OF EAST DUCT

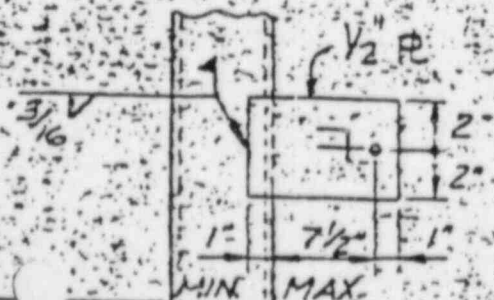
SEE DET. F SECT. A THIS SH. OR THIS DET. SECT. T

DETAIL 12

1/2" = 1'-0" C-864



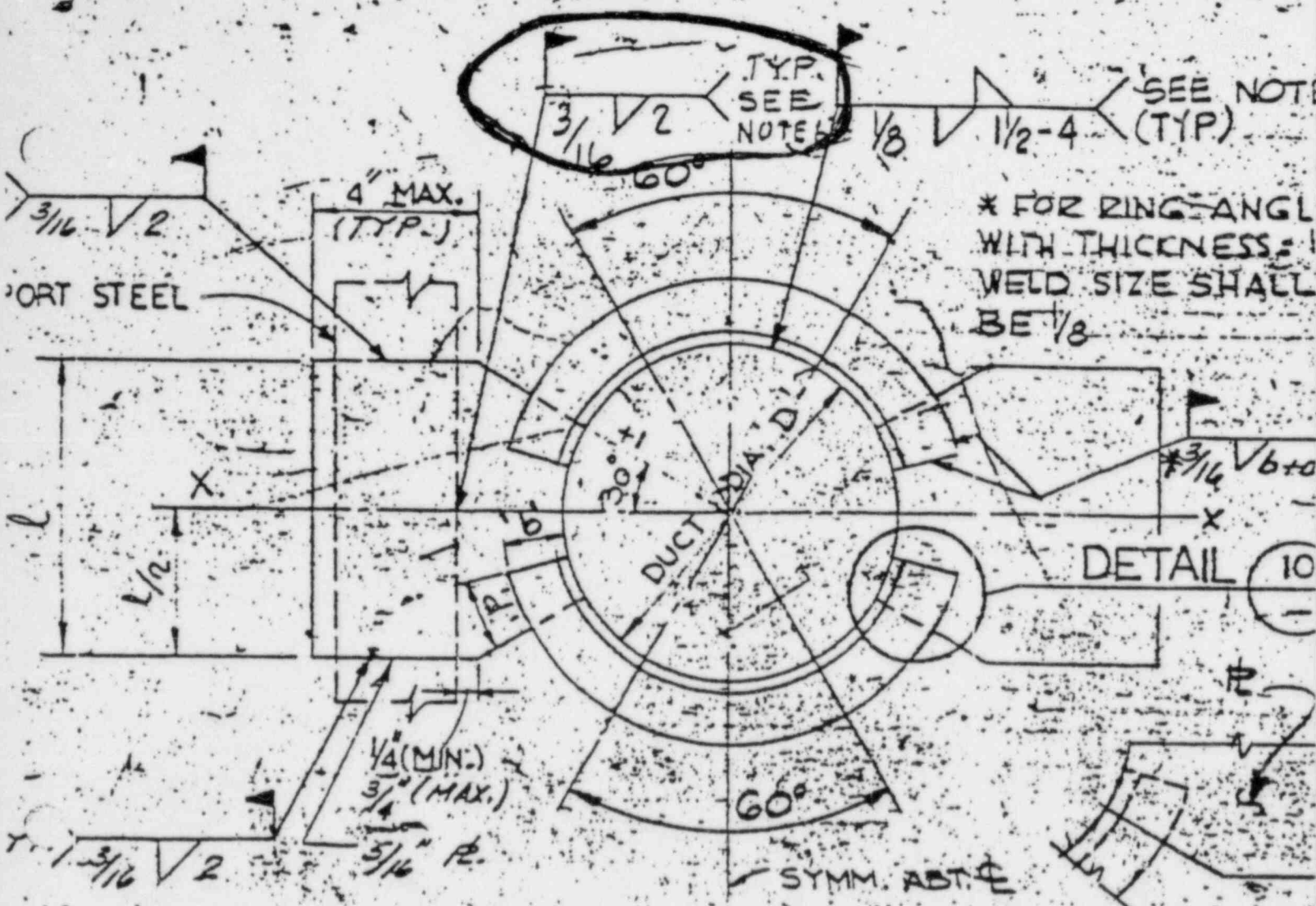
SECTION T



ALTERNATE BASE R TO BE USED WHEN SPACING BETWEEN EMBED AND EXPANSION ANCHOR IS LESS THAN 2 3/16"

FOR DETAIL 2 (3A) ONLY

ATTACHMENT TO NCR H-00019-2 INITIALS *BM* DATE 7/27/83 PG. 2 OF 4



SEE NOTE 7

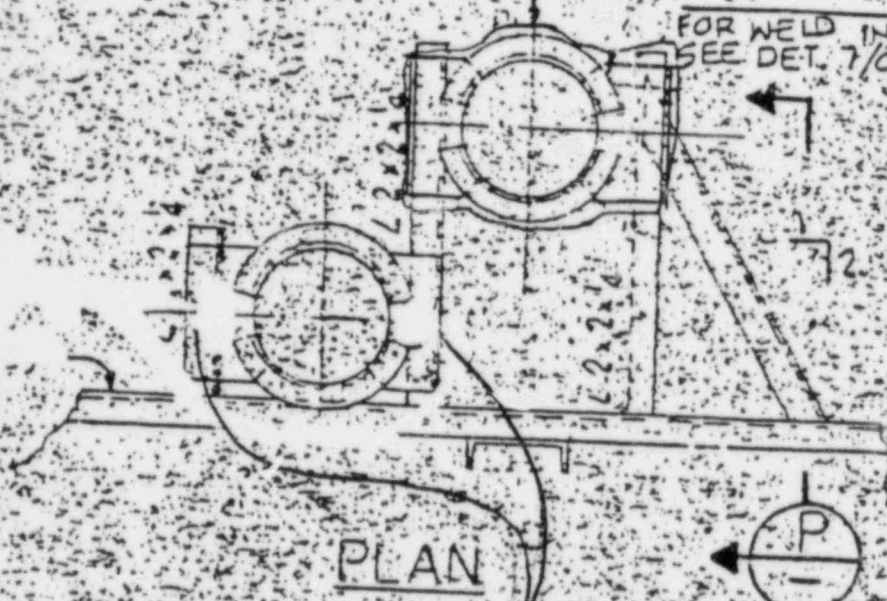
7
 DUCT RING SUPPORT
 TYPE 1

THIS WELD MAY BE DELETED IF WELD IS INACCESSIBLE (AUX. BLDG. CHASES ONLY) BETWEEN COL. LINES 5, 3 & 7-8 COL. LINES 1 & 2; EL. 632.6 TO EL. 744.0. WELD EITHER SIDE OF SUPPORT MEMBER (FIELD & OPTIMAL)

ATTACHMENT TO RCR H-000 12-2
 INITIALS MM DATE 9/20/83
 PG. 4 OF 4 MM 10/9/83

Plating & rings missing
K-400 #2

202 RING L 3 2
SEE DETAIL 5
FOR WELD INFO
SEE DET. 7/C-849



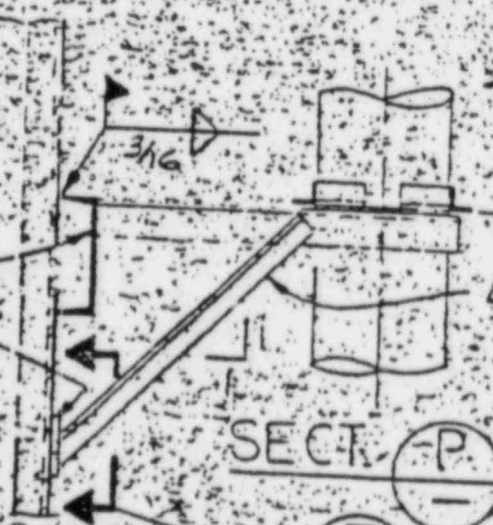
PLAN

ALTERNATE LOCATIONS

T.O.S. EL. WHEN CALLED
OUT ON PLAN DWG.

L BRACING
EA. SIDE OF
EAST DUCT

SEE DET. F
ECT. A THIS SHIT.
OR THIS DET.
ECT. T



SECT. P

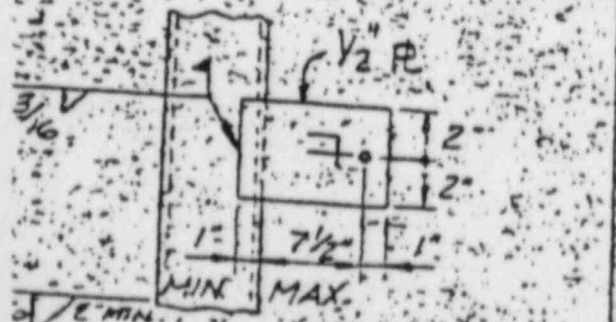
EXIST. EMBED

DETAIL 12

C-862



SECTION T



NATE BASE R TO BE
ED WHEN SPACING BETWEEN
BED AND EXPANSION
VCHOR IS LESS THAN 2 1/4

FOR DET. R
13A ONLY
C-866

ATTACHMENT TO NCR H-00013-ZZ
INITIALS *BM* DATE 7/22/53
PG. 3 OF 4 10/3/50

ROTA
REQ
NOTE
C-850
C

G MA
DET.

LONG
BRACE
CONN.

FOR DET. R
C-866

THE ZACK CO.

QUALITY ASSURANCE TRAINING REPORT

1. DATE _____

THE BELOW LISTED INDIVIDUAL(S) RECEIVED QUALITY ASSURANCE TRAINING IN ACCORDANCE WITH THE ZACK COMPANY QUALITY ASSURANCE TRAINING PROGRAM

PRINT: Last Name, First Initial;

POSITION

	<u>PRINT: Last Name, First Initial;</u>		<u>POSITION</u>
2.	GROHMAN M	MG	FOREMAN
3.	Jim Jones	JJ	G.F.
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			

DESCRIPTION OF TRAINING SESSION CONDUCTED

12. Complete training session on
MBFP - 8 - Control of Nonconforming
Conditions

13. *D. J. Hawley* 10/13/83
G.A. TRAINING INSTRUCTOR

CC: G. A. MANAGER
FILE-SITE, QC DEPARTMENT

NONCONFORMANCE REPORT RECEIVED

H-0001422

17 DATE ISSUED

9/22/83

18 REV

0

APR 21 1984

PAGE 1

OF 1

3

10/11/83

C P Co Legal

NCR H-0001422 D C 090.140 NCR 830922 N

1 ITEM LOCATION DIESEL GENERATOR BLDG, BAYS 1 THRU 4, BOB ELEVATIONS 656'-2" & 656'-7"

2 ITEM DRAWING/PART NO. V85 A(Q) REV 5
V85B(Q) REV 4

3 ITEM PART NAME DUCT PIECE 3, 20;
103, 120; 203, 220; 303, 320.

4 ITEM SERIAL NO. N/A

5 ITEM DESCRIPTION 8-54x54" "T-FITTINGS" WITH INTERNAL BAFFLE AND TURNING VANES
INSTALLED BELOW 1VV85D & 1VV85B; 1VV85C & 1VV85A; 2VV85A &
2VV85C; 2VV85B & 2VV85D.

6 ITEM STARTUP SYSTEM NO. IGMA & ZGMA

7 REFERENCE DOCUMENT TECH SPEC M-151 A(Q)

8 ASME A.N.I. REQUIRED YES NO

9 INSPECTION RECORD NO. PIPRH7B

LOG NO. 69

REV NO. 1

10 RESPONSIBLE ORGANIZATION BECHTEL PROJECT ENGINEERING

11 NONCONFORMANCE DISCOVERED DURING:

DESIGN RECEIVING CONST RELEASE FOR INSPECT

POST INSPECT TURNOVER POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT TECH SPEC M-151 A(Q) REV 15 SECTION 10.1.1 STATES IN PART: "DUCTWORK SHALL BE FABRICATED ... AS SHOWN ON THE DRAWINGS. STANDARD HVAC DUCT CONSTRUCTION DETAILS ARE IDENTIFIED ON DRAWINGS 7220-C-843 (Q) THROUGH C-849 (Q)." DRAWING M-585 Q REV 15 INDICATES THAT THE FOLLOWING DUCT PIECES 3 & 20; 103 & 120; 203 & 220; 303 & 320 (SHOWN ON V85-B(Q) REV 4 & V85 A(Q) REV 5) SHOULD BE FABRICATED AS A "T-FITTING" WITH INTERNAL BAFFLE & TURNING VANES.

13 NONCONFORMANCE CONTRARY TO THE ABOVE REQUIREMENT, NO DUCT DETAIL EXISTS FOR THESE PIECES TO BE FABRICATED IN ACCORDANCE WITH DETAIL 5-C 844 (TYPICAL RETURN AND SUPPLY AIR - 90° BRANCH / T-JOINT) REQUIRES A LONGITUDINAL STIFFENER TO BE INSTALLED BETWEEN DUCT CORNERS WHENEVER THE "H" DIMENSION EXCEEDS 48". CONTRARY TO THIS, THE DUCT PIECE HAS BEEN FABRICATED WITHOUT THE INCORPORATION OF THE LONGITUDINAL STIFFENERS. ADDITIONALLY, A TRANSVERSE STIFFENER, WHICH IS TO BE USED ONLY AS AN ALTERNATE IN CONJUNCTION WITH ALTERNATE CORNER STIFFENERS, HAS BEEN INCORPORATED INTO THE FABRICATED PIECE. CONSIDERING THE ABOVE MENTIONED DISCREPANCIES BETWEEN THE DESIGN DOCUMENTS AND THE EXISTING

14 NCR ORIGINATED BY (PERSON) Michael D. Grubik 9/22/83
DATE

15 NCR ORIGINATED BY (DISCIPLINE) MPQAD HVAC

20 NUMBER OF HOLD TAGS (IF APPLIED) 8 TAGS (ONE ON EACH PIECE OF DUCT)

21 LOCATION OF HOLD TAGS NORTH SIDE 9/22/83 VERTICAL FACE OF DUCT.

22 POTENTIAL 50.55(e) YES NO

24 ACTION ITEM NO. 20571

26 ITEM PRIORITY CODE NO. 5

28 NCR REVIEWED BY: Ron Thurston

23 REPORTED TO MPOA MANAGER DATE _____

25 DISCIPLINE: M

27 TREND CODE N-9

DATE: 10-13-83

INDOTERM
ORIGINAL

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REMOVE ^{DOCUMENT} SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

PROJECT ENGINEERING TO RESOLVE.
SEE PG 3 OF 5 FOR PROJECT ENGINEERING
DISPOSITION 756 12/27/83

Paul M. Neal 12-5-83

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

E. Krumpalder 3/23/84
E. Krumpalder 1/13/84
PROJECT FIELD ENGINEER DATE MPOAD CONCURRENCE DATE

PFQCE (ASME) DATE

PQAE (ASME) DATE

J.M. Lee / E.B. Poan 12/14/84
LEAD DESIGN ORG DATE CP Co SMO (for turned over systems) DATE

A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKER

See block 31 A for disposition results
Dattoli 4/4/84

DEC 07 1983
Midland Project
C

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION IF UNACCEPTABLE, REFERENCE SUPERCEDING MCR NUMBER
 ACCEPTABLE UNACCEPTABLE

PER M-585Q HAVING BEEN REVISED TO EXCLUDE THE STIFFENER REQUIREMENTS. THE TAGS WERE PULLED IN BAYS 1 & 2 BUT WERE INACCESSIBLE FOR REMOVAL IN BAYS

3 & 4. MC (H8) 4/12/84
TAGS WERE PULLED IN BAYS 3 & 4. RLC (H8) 4/12/84

37 MCR CLOSED BY

R. Gordon (H8) 4/15/84
MPOAD DATE

A.N.I. (ASME) DATE

ORIGINAL

NONCONFORMANCE REPORT

CONTINUATION SHEET

FORM NO. H-00014 ZZ	REV 0
DATE ISSUED 9/22/83	
PAGE 3 OF 3	

CONTINUED FROM PART 13 (NONCONFORMANCE) CONDITION OF THE FABRICATED DUCTWORK, IT HAS BEEN DETERMINED THAT THE CONFORMANCE TO DESIGN CONFIGURATION IS THEREFORE INDETERMINATE.

31A ADDITIONAL INFORMATION (CONTINUED FROM PG 2)

BECHTEL PROJECT ENGINEERING HAS EVALUATED THE SUBJECT NONCONFORMANCE AND DISPOSITIONS IT ^{USE AS IS} ~~DOCUMENT~~ ^{GET 3-20-83 DCN #15 TO} ~~WORK~~ ^{ADWG M-585(C)} HAS BEEN ^{ISSUED} ~~REVISED~~ ^{SSB} TO EXCLUDE THE LONGITUDINAL AND TRANSVERSE STIFFENER REQUIREMENTS OF DET 5/1-B44 FOR THE 8- DUCT PIECES IDENTIFIED. (REFER CALC. #35(3.11)(C) REV 0.)

SSB
12/27/83

[Signature]
APPROVED PUR 12-30-83

NONCONFORMANCE REPORT

ORIGINAL

H00017-ZZ

17 DATE ISSUED

9-23-83

18 REY

0

19

PAGE 1 OF 2 RECEIVED

1 ITEM LOCATION

Aux. EL. 659'0" 4'0" W/5.1 Line; 12'6" S/AA Line

APR 21 1984

C.P. Co Legal

2 ITEM DRAWING/PART NO.

C881 Rev. 14; V07 sh 3 Rev. 6

3 ITEM PART NAME

Hanger # 4A/1/C957

4 ITEM SERIAL NO.

N/A

5 ITEM DESCRIPTION

HVAC Duct Support
 V07 sh. 3 Hgr. # 4A
 Trav. # F13244

6 ITEM STARTUP SYSTEM NO.

OGLF

7 REFERENCE DOCUMENT

7220-M-151A Rev. 15

8 ASME A.N.I. REQUIRED

YES NO

9 INSPECTION RECORD NO.

H-7-A

LOG NO.

833

REV NO.

1

10 RESPONSIBLE ORGANIZATION

Zack Co.

11 NONCONFORMANCE DISCOVERED DURING:

- DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST INSPECT TURNOVER POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT

Per 7220-M-151A Rev. 15, para. 14.8.6 "No prior project engineering approval is required for scratches, nicks, gouges, and grooves over the length of the support member... provided the following requirements are met...
 a. Up to 5% of the length may have gouges not to exceed 1/32" in depth."

13 NONCONFORMANCE

Contrary to the above requirements, there are two saw cuts present in the north W8X31, one being 1/4" deep and the other being 7/8" deep. See the attached drawing for location.

14 NCR ORIGINATED BY (PERSON)

Todd Johnson

9-23-83

DATE

15 NCR ORIGINATED BY (DISCIPLINE)

MPQAD-HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED)

1

21 LOCATION OF HOLD TAGS

On North W8X31

22 POTENTIAL 50.55(e)

YES NO

24 ACTION ITEM NO.

20558

26 ITEM PRIORITY CODE NO.

5

28 NCR REVIEWED BY: RLB

[Signature]

23 REPORTED TO MPQA MANAGER

TE _____

25 DISCIPLINE:

M

27 TREND CODE

N-8

DATE:

10/6/83

THE ORIGIN OF THE SAW CUTS ARE INDETERMINATE.

ORIGINAL

30 PROCESS CORRECTIVE ACTION
 YES NO QAR NO. _____

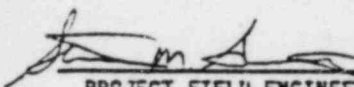

31 RECOMMENDED DISPOSITION
 REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE
 YES NO

31A ADDITIONAL INFORMATION
 REWORK WIDE FLANGE AS REQUIRED PER WPS GENERAL REV 4.
 SECTION 4.6.2 USE WPS 2-1-1 OR WPS 2-1-2


33 DISTRIBUTION FOR ACTION
 THE ZACK COMPANY

34 DISPOSITION CONCURRENCE

	10-19-83		10/25/83	_____	_____
PROJECT FIELD ENGINEER	DATE	MPQAD CONCURRENCE	DATE	PFQCE (ASME)	DATE
_____	_____	_____	_____	_____	_____
LEAD DESIGN ORG	DATE	CP Co SMO (for turned over systems)	DATE	PQAE (ASME)	DATE
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	A.N.I. (ASME)	DATE

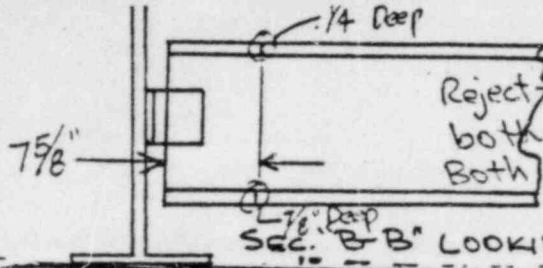
35 DISPOSITION ACTION TAKEN
 REWORKED USING WPS 2-1-2 WELDER I.D. HV-068

36 METHOD OF DISPOSITION ACTION VERIFICATION
 PER VISUAL INSPECTION
 RESULT OF DISPOSITION ACTION VERIFICATION
 ACCEPTABLE UNACCEPTABLE
 IF UNACCEPTABLE, REFERENCE SUPERCEDING NCR NUMBER _____
 TAG PULLED ON 4/11/84

37 NCR CLOSED BY
 (H8) 4/11/84
 MPQAD DATE

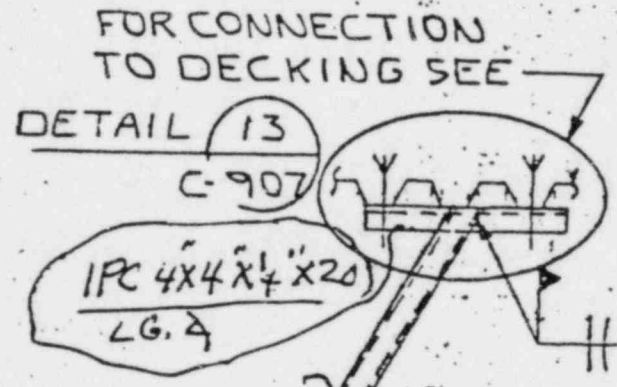
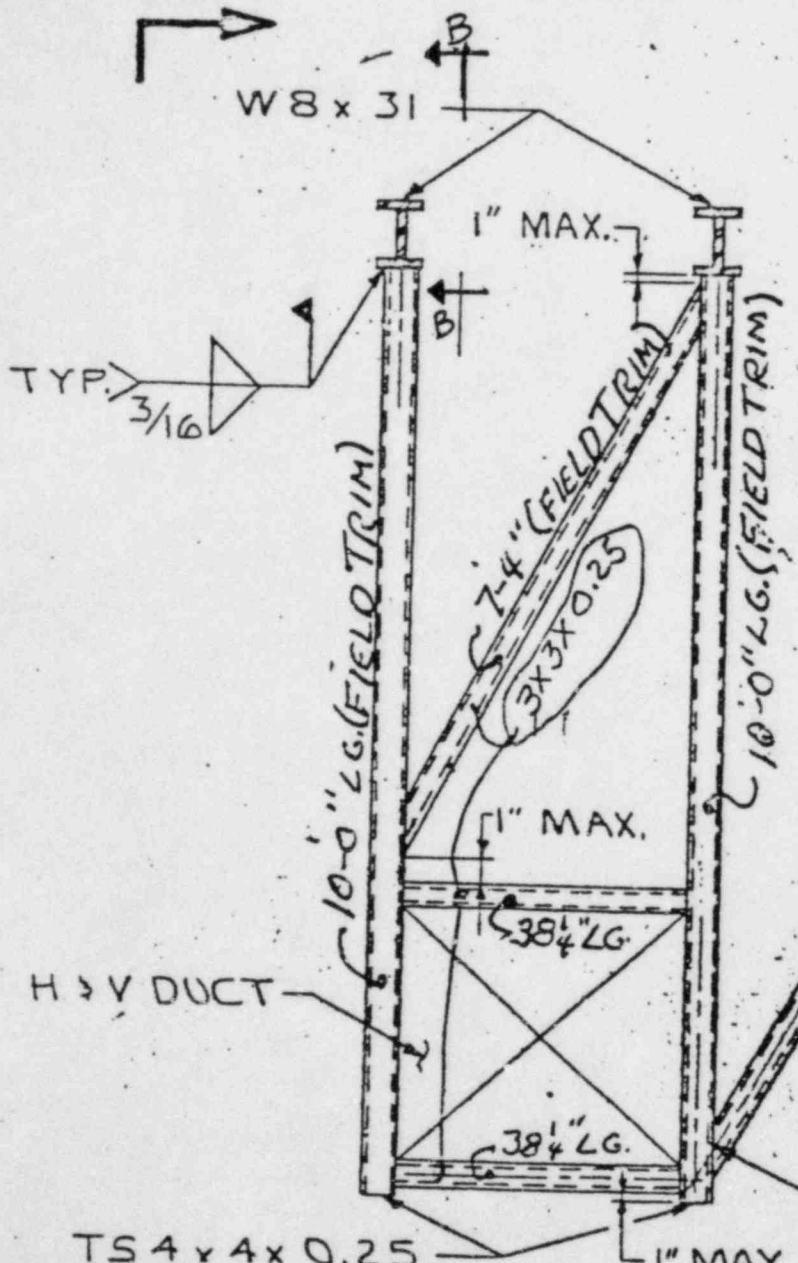
 A.N.I. (ASME) DATE

757Q



2 saw cuts in south edge of top & bottom flanges of W8x31. located 7 5/8" from the west end of the beam
19 9-20-83

ORIGINAL



ATTACHMENT TO NCR H00017-22
INITIALS *[Signature]* DATE 9-20-83
OF 1 OF 1
9-23-83

V-075H-39)R

TS 4x4x0.25
1" MAX. TYP.
3/16

~~QC INSPECTION ONLY
ATTACHMENT TO PIR
INITIALS _____ DATE 9-20-83~~

TYP. 3/16
F13P44
4A
1
C957

ATTACHMENT TO NCR H00017-22
INITIALS *[Signature]* DATE 9-23-83
PG. 81 OF 81
2-OF-3

DETAIL 1
SEE DWG. C-801 C-957

NONCONFORMANCE REPORT

ORIGINAL

H00018-ZZ

17 DATE ISSUED

9-23-83

18 REV

0

19

PAGE 1 OF RECEIVED

APR 21 1984

1 ITEM LOCATION

Aux. EL. 659'0" 4'0" W/S.1 Line ; 12'6" S/AA Line

C. P. Co. Legal

2 ITEM DRAWING/PART NO.

C881 Rev.14 ; V07 sh.3 Rev.6

3 ITEM PART NAME

Hanger # 4A / 1 / C957

4 ITEM SERIAL NO.

N/A

5 ITEM DESCRIPTION

HVAC Duct Support
 V07 sh. 3 Hgr. #4A
 Trav. #F13244

6 ITEM STARTUP SYSTEM NO.

OGLF

7 REFERENCE DOCUMENT

7220-M-151A Rev.15, MB-FP-7 Rev.1

8 ASME A.N.I. REQUIRED

YES NO

9 INSPECTION RECORD NO.

H-7-A

LOG NO.

833

REV NO.

1

10 RESPONSIBLE ORGANIZATION

Zack Co.

11 NONCONFORMANCE DISCOVERED DURING:

- DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST INSPECT TURNOVER POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT

7220-M-151A Rev.15 para. 10.2.1 states: "Duct hangers and supports shall be fabricated as shown on the drawings."
 Zack Procedure MB-FP-7 Rev.1 para. 7.1.3.1 states in part: "The DD draws the new "V" Drawing [and] adds pertinent hanger information from the related "C" Drawings. The DD assigns the duct and hanger piece/part numbers."
 FP-7 Rev.1 para. 7.1.9 states in part: "The PE reviews each new or revised "V" Drawing or "D" plate for completeness, accuracy, and clarity."

13 NONCONFORMANCE Contrary to the above requirements, on V07 sh.3 Rev.6, hgr. #4A is shown south of "A" Line and hgr. #9A is shown north of "A" Line. "D" plate #3869 switched the hanger ID's such that hgr. #4A is north of "A" Line and hgr. #9A is south of "A" Line. This coincides with the inspection documentation and the field conditions; however, "D" plate #4031 made another change placing hgr. #9A north of "A" line again. This renders the field conditions and the inspection documentation in conflict with the "V" Drawing.

14 NCR ORIGINATED BY (PERSON)

Roll Johnson 9-23-83
 DATE

15 NCR ORIGINATED BY (DISCIPLINE)

MPQAD-HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED)

1

21 LOCATION OF HOLD TAGS

On North W8X31

22 POTENTIAL 50.55(e)

YES NO

24 ACTION ITEM NO.

Z0559

26 ITEM PRIORITY CODE NO.

5

28 NCR REVIEWED BY:

[Signature]

23 REPORTED TO MPQA MANAGER

TE _____

25 DISCIPLINE:

M

27 TREND CODE

N-9

DATE

10/6/83

CONTINUED ON REVERSE

WHEN THE DETAILER INITIATED D-PLATE 4031, HE
FAILED TO SUCCESSFULLY ~~REASE~~ RESEARCH THE D-PLATES ON V07SH3
FOR THE CURRENT LOCATION OF HGR 4A F13244

ORIGINAL

30 PROCESS CORRECTIVE ACTION
 YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION
 REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE
 YES NO

31A ADDITIONAL INFORMATION
ISSUE D-PLATE TO V07SH3 TO SHOW CORRECT
LOCATION OF HGR 4A F13244

33 DISTRIBUTION FOR ACTION
THE ZACK COMPANY

34 DISPOSITION CONCURRENCE

PROJECT FIELD ENGINEER DATE 10-19-93

MPQAD CONCURRENCE DATE 10/25/83

LEAD DESIGN ORG DATE CP Co SMO (for turned over systems) DATE

PFQE (ASME) DATE

PQAE (ASME) DATE

A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN
V07SH3 HAS BEEN REVISED AS NECESSARY

36 METHOD OF DISPOSITION ACTION VERIFICATION
RESULT OF DISPOSITION ACTION VERIFICATION IF UNACCEPTABLE, REFERENCE
 ACCEPTABLE UNACCEPTABLE SUPERCEDING NCR NUMBER _____
PER V7SH3 Q REV. 8 BEING CORRECTLY
REVISED TO SHOW THE ACTUAL LOCATIONS
OF HANGERS 4A AND 9A. R3C (H8) 4/11/84
TAG PULLED ON 4/11/84

37 NCR CLOSED BY
R. Gordon (H8) 4/11/84
MPQAD DATE

A.N.I. (ASME) DATE

V07/3 Rev. 6

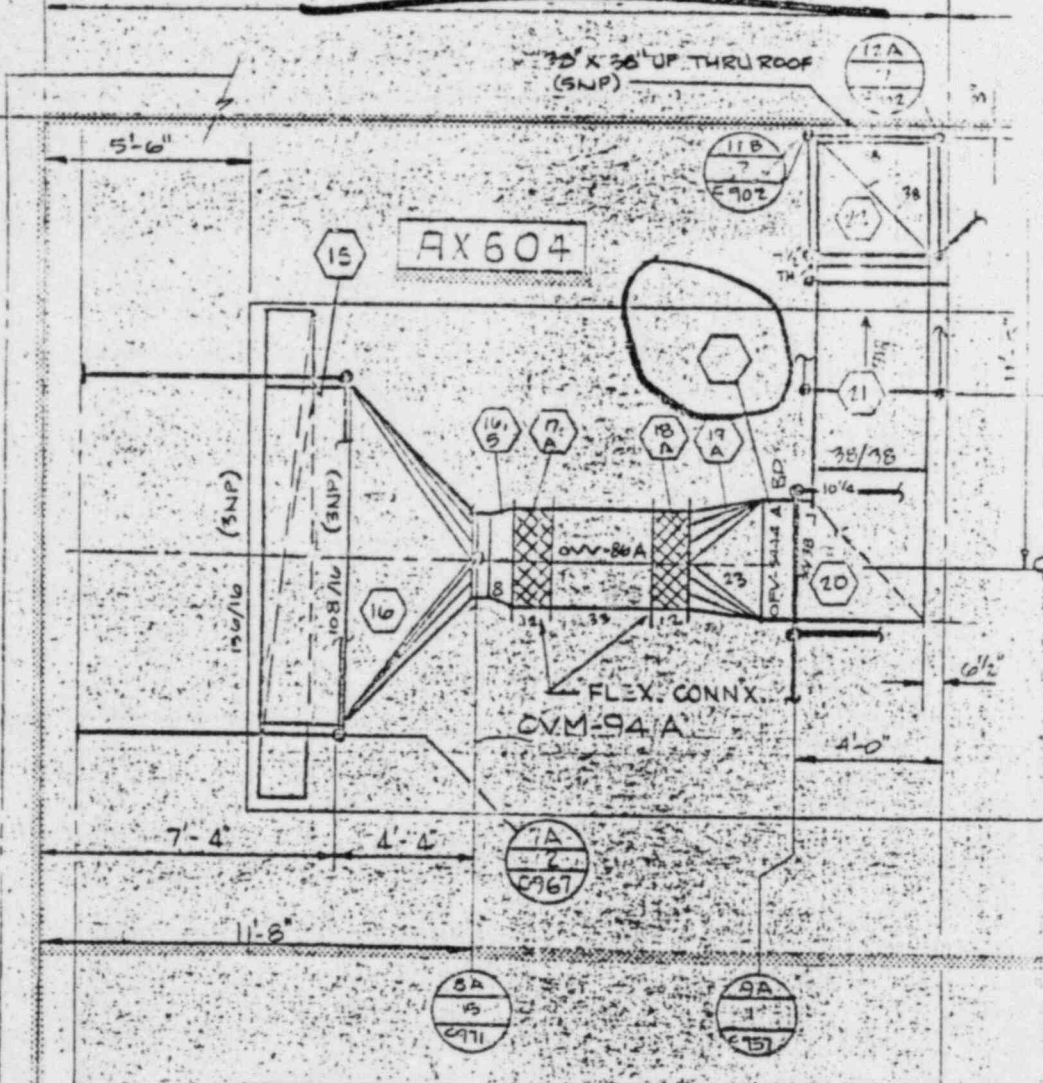
4.55

5.1

ORIGINAL

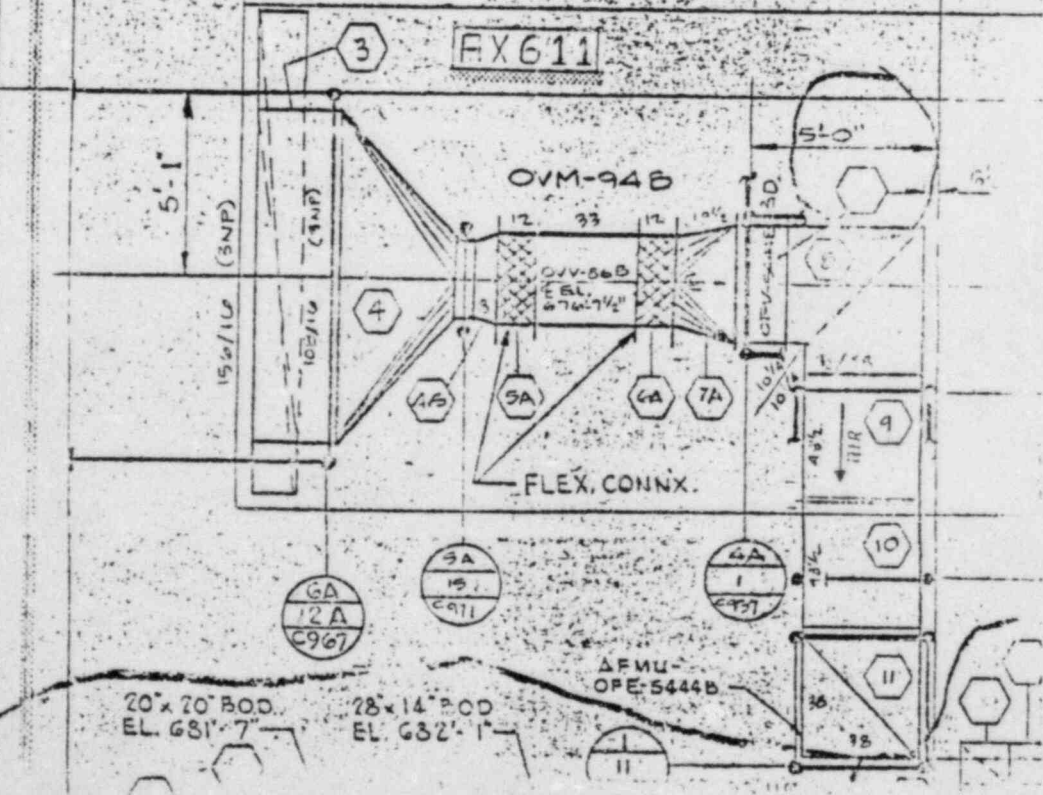
AA

28'-0"



A

27'-3"



ATTACHMENT TO NCR H00018-23

INITIALS DATE 9-23-83

PG. 4 OF 83

10-1-83

9-23-83

ATTACHMENT TO NCR

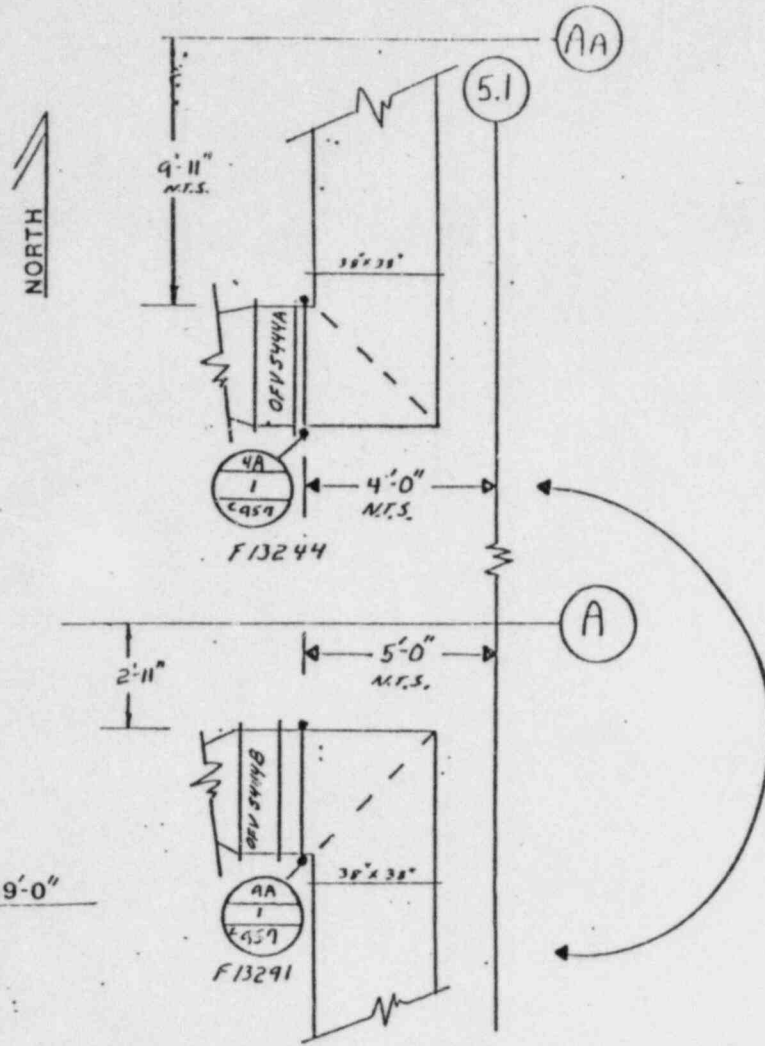
INITIALS DATE 9-20-83

PG. 4 OF 6

20'x 20' BOD. EL. 681'-7"

28'x 14' BOD. EL. 682'-1"

AFMU-OPE-5444B



New		Void	Existing	
Pc.	Traveler		Pc.	Traveler
			4A	F13244
			9A	F13291

Q.C.
RECEIVED
 JUL 06 1983
ZACK CONTROLLED

EXIST. LOCATIONS
 OF HANGERS 4A & 9A

PART PLAN @ ELEV. 659'-0"
 N.T.S.
 SNP

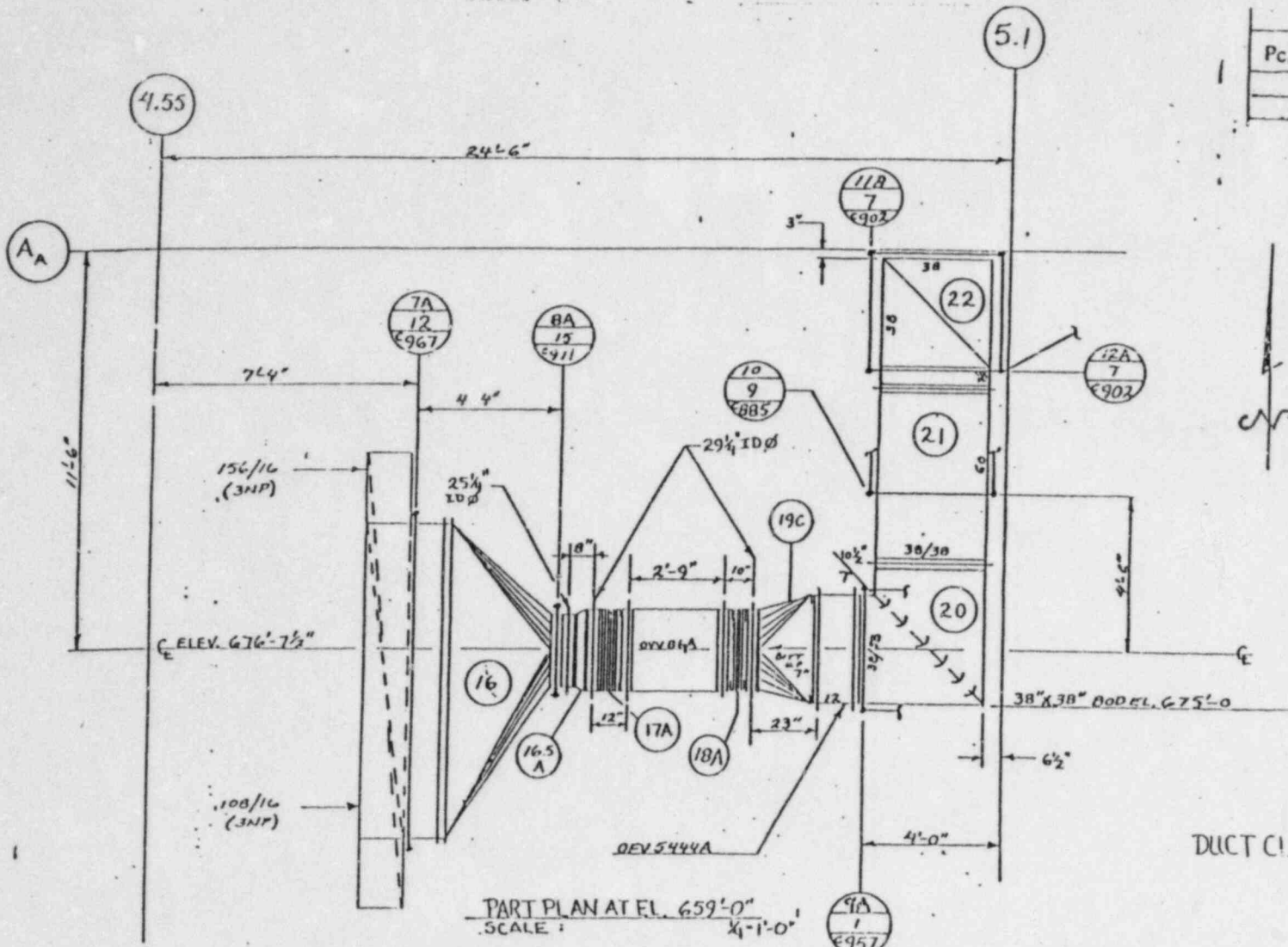
NO REMOVAL REQ.

Des. By: AR	Date: 6-25-83	Chk'd By: A.C.	Date: 6-29-83	Appr'd By: [Signature]	Date: 7-6-83	M- 507SH3QR21	C- 881QR14	V- 07SH3QR5	D- 2869
Bldg: AUX	Elev: 659'-0"	Area: 1	System: 0VM74A16	SUS: OGLF	Reason: TO CORRECT ALLIED REV. ERRORS				

ORIGINAL

ATTACHMENT TO NCR H00018-22
 INITIALS **[Signature]** DATE **9-23-83**
 PG. **25** OF **30**
 EM 10-1-83

ATTACHMENT TO NCR **[Signature]**
 INITIALS **[Signature]** DATE **9-20-83**
 PG. **5** OF **6**
 9-23-83



PC.	Travolor	VOID	PC.	Travolor
		✱	19B	F1498
		✱	16.5	F1905
			16	F1247
			17A	F1909
			18A	F1909
			20	F1244
			21	F292
			22	F1244
			19C	F2101
			16.5	F1244
HANGERS				
			9A	F1324
			7A	F1909
			8A	F1915
			10	F244
			11B	F1916
			12A	F1916
EQUIPMENT				
			0VY96A	F2002
			0FV544A	F1432

RECEIVED

AUG 12 1983

ZACK CONTROLLED

DUCT CLASS 5NP (EXCEPT AS NOTED)

OC

VOIDS & INCORPS DR# 2400

GS	Date: 8-9-83	Chk'd. By: <i>[Signature]</i>	Date: 8/11/83	App'vd. By: <i>[Signature]</i>	Date: 8/11/83	M-5075H3QR22	C-881QR14	V-075H3QR5	D-7001
	Elev. 659'-0"	Area: 1	System: 0VY96A/R	Start Up Code: OGLE	Reason: FIELD COND.				

ORIGINAL

ATTACHMENT TO NCR H00018-22
 INITIALS *[Signature]* DATE 9-23-83
 PG. 3 OF 6

ATTACHMENT TO NCR
 INITIALS *[Signature]* DATE 9-20-83
 PG. 6 OF 6

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NONCONFORMANCE REPORT

ORIGINAL

16 NCR NO.
H00045-ZZ

17 DATE ISSUED
10-1-83

18 REV

19 PAGE 1 OF 5

3-5-84
JWO 3-5-84

1 ITEM LOCATION

CONTAINMENT NO. 2

2 ITEM DRAWING/PART NO.

V35 Rev 3 Hanger 36A

3 ITEM PART NAME

Duct Support

4 ITEM SERIAL NO.

N/A RECEIVED

5 ITEM DESCRIPTION

Hanger 36A

APR 24 1984

C. P. Co. Legal

6 ITEM STARTUP SYSTEM NO.

ZGTB

7 REFERENCE DOCUMENT

7220-C-305 (D) Rev 16; AWS D1.1

8 ASME A.N.I. REQUIRED

YES NO

9 INSPECTION RECORD NO.

H-6
H7A

LOG NO.

545
1578

REV. NO.

1

10 RESPONSIBLE ORGANIZATION

ZACK Co.

11 NONCONFORMANCE DISCOVERED DURING:

DESIGN

RECEIVING

CONST

RELEASE FOR INSPECT

POST INSPECT

TURNOVER

POST TURNOVER

PRE-OP TEST

FINAL TURNOVER


OVERINSPECT

12 REQUIREMENT

Item-1 Spec 7220-C-305 (D) Rev 16 Para 5.1.2 States in Part:
Post-installation testing and inspection shall be performed according to the requirements of Sections 6.2, 4.3 and requirement d (Embedment length)

13 NONCONFORMANCE

Item-1 Embedment length of anchor #1, (1/2" Hilti-Kwik-BOLT) cannot be verified due to obliteration of length code typically stamped on the visible end.

Note: See sketch on page 5 of 5. 
3-5-84
JWO 3-5-84

14 NCR ORIGINATED BY (PERSON)

Walter Steph 10-1-83
DATE

15 NCR ORIGINATED BY (DISCIPLINE)

MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED)

ONE

21 LOCATION OF HOLD TAGS

ON HANGER

22 POTENTIAL 50.55(e)


YES NO

24 ACTION ITEM NO.

Z0553

26 ITEM PRIORITY CODE NO.

5

28 NCR REVIEWED BY: 
Ron Miller JWO 3-5-84

REPORTED TO MPQA MANAGER

DATE _____

25 DISCIPLINE:

M

27 TREND CODE

① N-8 ④ N-3
② N-4 (1 weld) ⑤ N-6
③ N-5

DATE:

10-6-83

CONTINUED ON REVERSE

F-24/LA (Rev 1)

29 CAUSE

AT THE TIME THIS NCR WAS WRITTEN IT WAS UN CLEAR WHICH ORGANIZATION IS TO REQUEST A "UT" INSPECTION PER SPEC C305.

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. N/A

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

HAVE "UT" INSPECTION PERFORMED TO DOCUMENT BOLT LENGTH.

33 DISTRIBUTION FOR ACTION

MPQAD

34 DISPOSITION CONCURRENCE

<u>[Signature]</u>	<u>4-11-84</u>	<u>[Signature]</u>	<u>4-11-84</u>	PFQCE (ASME)	DATE
PROJECT FIELD ENGINEER	DATE	MPQAD CONCURRENCE	DATE		
				PQAE (ASME)	DATE
LEAD DESIGN ORG	DATE	CP Co SMO (for turned over systems)	DATE	A.N.I. (ASME)	DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION
 ACCEPTABLE UNACCEPTABLE
IF UNACCEPTABLE, REFERENCE SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

MPQAD DATE

A.N.I. (ASME) DATE

Block 12 Requirement

Item 2 SPEC 7220-M-151A (Q) REV 15 SEC 14.8.3 e.
"Undercut shall not exceed $\frac{1}{32}$ "

Block 13 Nonconformance

Item 2 The horizontal support welded to the embed has APPROX $\frac{3}{8}$ " OF UNDERCUT WHICH EXCEEDS $\frac{1}{32}$ " IN DEPTH ON THE VERTICAL OUTSTANDING ANGLE LEG.

Block 12 Requirement

Item 3. SPEC 7220-M-151A (Q) REV 15 SEC 14.9.2 STATES. EACH (WELDING) PROCEDURE MUST BE PREPARED AND QUALIFIED (UNLESS PREQUALIFIED TO AWS D1.1) IN ACCORDANCE WITH THE REQUIREMENTS OF THE CODE AND THIS SPECIFICATION.

Block 13 Nonconformance

Item 3 The transverse brace meets the horz. support at a 34° angle, the longitudinal brace meets the horz. support at a 45° angle. (AWS D1.1 defines fillet welds as HAVING AN ANGLE NOT LESS THAN 60° , OTHERWISE IT IS TO BE CONSIDERED TO BE A PARTIAL PENETRATION GROOVE WELD) AND WPS-2 HAS NO APPARENT PROCEDURE FOR THIS JOINT CONFIGURATION.

Block 12 Requirement

Item 4 SPEC 7220-M-151A (Q) REV 15 SEC 10.2.1

ORIGINAL
NONCONFORMANCE REPORT

CONTINUATION SHEET

H00045-22

DATE ISSUED
10-1-83

REV

PAGE 4 OF

415
12 3 5 84
JWD 3-584

states " Duct hangers and supports shall be fabricated as shown on the drawings. Drawing 6 7220-C919 Rev 13 requires a 4x7x1/2" R. (mounted to wall with expansion anchors) to be used.

Block 13 Nonconformance
A 3/8" R was used.

Block 12 Requirement.
Item 5 MB-FP-7 Rev 1 Sec 7.6 Requires a correct MCN number to be entered on the traveller.

Block 13 Nonconformance
Item 5 MCN NO. 831-2 (1/2" RARE) listed on traveller, 3/8" R installed with no applicable MCN NO.

Date 10/1/83 Component ID No 3LA
Project Inspection Record No 545

ORIGINAL

Washer - Type

- A = One flat washer
- B = One thickened washer
- C = One flat + one thickened washer
- D = One spherical washer
- E = Two flat washers
- F = One flat + one spherical washer

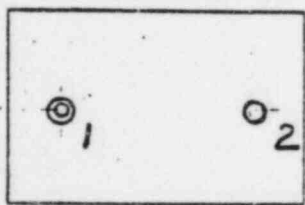
Maximum thickness for thickened washer not to exceed 1/2".

A spherical washer is always a two piece washer and is construed to be equal to one washer.

ANCHOR BOLT LAYOUT SKETCH


Mounted On: NNW DWING WALL

PLATE A



UP

Direction

ATTACHMENT TO NCR H00045-ZZ 
 INITIALS JWO DATE 3-5-84
 PG. 5 OF 5 3-5-84

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NONCONFORMANCE REPORT

16 NCR NO. H-00050-77

17 DATE ISSUED 10-3-83 18 REV RECEIVED

19 PAGE 1 OF 3 APR 21 1984
C. P. Co. Legal

1 ITEM LOCATION Aux. Building 2'4" East of 5 line, 4'3" South of J line. Elevation 668'6 1/2"

2 ITEM DRAWING/PART NO. V25 Sh3 Rev. 5, Hanger #700 3 ITEM PART NAME HVAC Duct HANGER 4 ITEM SERIAL NO. N/A

5 ITEM DESCRIPTION HVAC Hanger No. 700 Drawing detail 13JC892 Rev. 9 Zack traveler No. F20030

6 ITEM STARTUP SYSTEM NO. DGLH 7 REFERENCE DOCUMENT 7220-M151A(D) Rev. 15 8 ASME A.N.I. REQUIRED YES NO

9 INSPECTION RECORD NO. PIPR H-7-A LOG NO. 1413 REV NO. 1 10 RESPONSIBLE ORGANIZATION Zack Co.

11 NONCONFORMANCE DISCOVERED DURING:
 DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST INSPECT TURNOVER POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT 7220-M151A(D) Rev. 15 Section 10.2.1 States: Duct hangers and supports shall be fabricated as shown on the drawings. Drawing 7220-C-892 Rev. 9 detail 13 requires, Weld duct to top and bottom members with 1/8" fillet weld 1/2" long on 4" centers staggered on both sides of members. This NCR is being written on previously accepted item (a. iv.) Hanger to duct welds on PIPR H-7-A #1413 dated 12-6-82 per the above criteria.

13 NONCONFORMANCE Hanger to Support welds exist at 4 corners of duct as shown on Page 3 of 3. These welds do not meet above stated requirement.

14 NCR ORIGINATED BY (PERSON) CW Prober 10-3-83
DATE

15 NCR ORIGINATED BY (DISCIPLINE) MPQAD - HVAC

20 NUMBER OF HOLD TAGS (IF APPLIED) 1 21 LOCATION OF HOLD TAGS Hanger #700 at location listed in block 1

22 POTENTIAL 50.55(e) YES NO 24 ACTION ITEM NO. 20548 26 ITEM PRIORITY CODE NO. 5 28 NCR REVIEWED BY: Rel

23 REPORTED TO MPQA MANAGER DATE NA 25 DISCIPLINE: M 27 TREND CODE N-3 DATE: 10/5/83

CONTINUED ON REVERSE

ORIGINAL

F-2M/LA (Rev 1)

29 CAUSE HANGER TO DUCT WELDS ^{PWD} 10-11-83 REQUIREMENTS ON
DETAIL 131C-892(Q) WERE MISINTERPRETED AND THUS WELDS
WERE NOT INSTALLED TO DETAIL. THESE WELDS WERE INAD-
VERTENTLY ACCEPTED BY MPOAD.

30 PROCESS CORRECTIVE ACTION
 YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION
 REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE
 YES NO

31A ADDITIONAL INFORMATION REWORK HANGER TO DUCT WELDS USING
WELD PROCEDURE(S) WPS 1-3-3, 2-3-3, 2-1-1.

33 DISTRIBUTION FOR ACTION
ZACK CONSTRUCTION

34 DISPOSITION CONCURRENCE
[Signature] 10-11-83 PROJECT FIELD ENGINEER DATE
[Signature] 10-11-83 MPOAD CONCURRENCE DATE
PFQE (ASME) DATE
PQAE (ASME) DATE
LEAD DESIGN ORG DATE CP Co SMO (for turned over systems) DATE
A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN
WELDS REWORKED WPS 2-3-3, 2-1-1.
WELDER ID HV024

36 METHOD OF DISPOSITION ACTION VERIFICATION Visual Inspection
RESULT OF DISPOSITION ACTION VERIFICATION
 ACCEPTABLE UNACCEPTABLE
IF UNACCEPTABLE, REFERENCE SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY
[Signature] 4-4-84 MPOAD DATE
A.N.I. (ASME) DATE

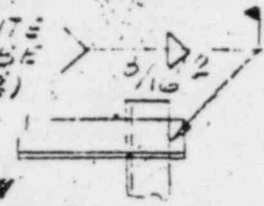
ORIGINAL

1/4 V 4

SECTION

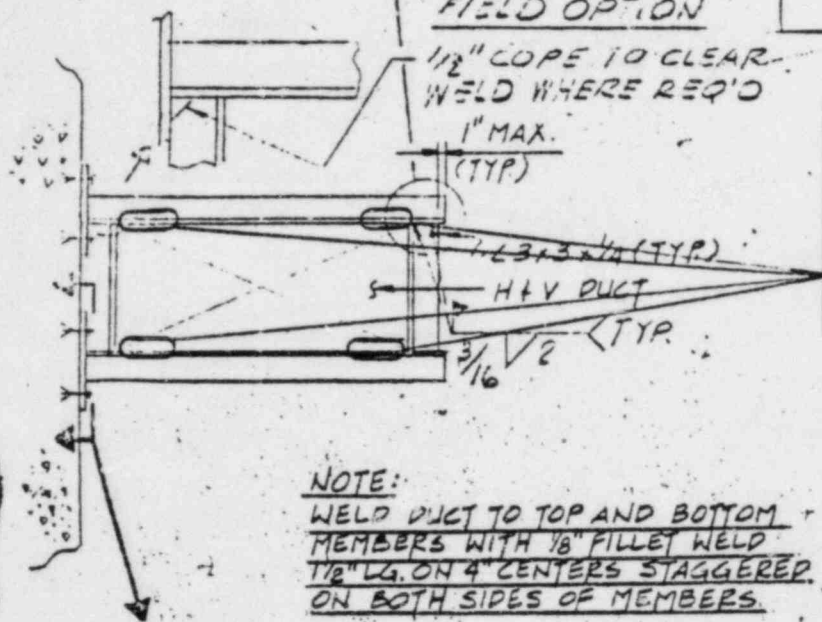
DETAIL 5
C-892

TWO OPPOSITE SIDES MAY BE WELDED (TYP)

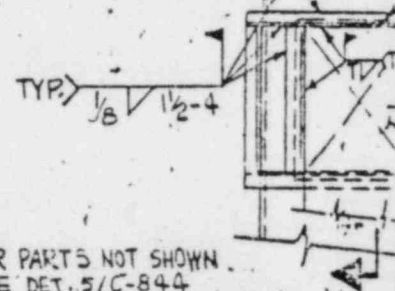


ALT. CONN. FIELD OPTION

1/2" COPE TO CLEAR WELD WHERE REQ'D
1" MAX. (TYP)



Welds indicated are 1/8" fillets 3" to 4" in length, 1 (one) side of support member only.

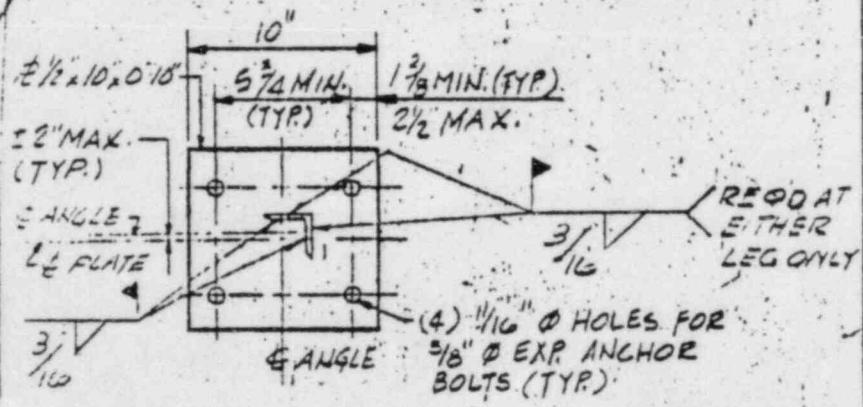


FOR PARTS NOT SHOWN SEE DET. 5/C-844

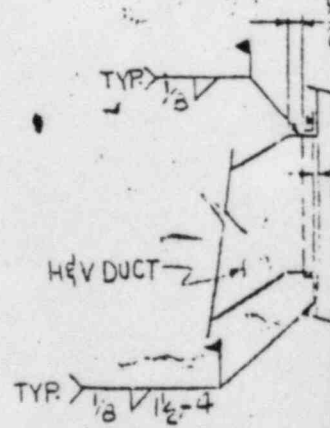
DETAIL

NOTE:

WELD DUCT TO TOP AND BOTTOM MEMBERS WITH 1/8" FILLET WELD 1/2" LG. ON 4 CENTERS STAGGERED ON BOTH SIDES OF MEMBERS.



NOTE: T IS THE THICKNESS OF PART JOINED TO THE THROAT OF FILLET



DETAIL 13
C-892

SECTION

ATTACHMENT TO NCR H-00050-ZZ
INITIALS *CPC* DATE 10/3/83
PG. 3 OF 3

ORIGINAL

ORIGINAL

1 ITEM LOCATION

9'5" S. of K, 9'10" W. of S.9. ELV 662'8"

APR 21 1984

C. P. Co. Legal

2 ITEM DRAWING/PART NO.

V22 sh 1B, HGR10

3 ITEM PART NAME

HVAC HANGER

4. ITEM SERIAL NO.

N/A

5 ITEM DESCRIPTION

DUCT Support #10 ZACK TRAVELER # F11982

6 ITEM STARTUP SYSTEM NO.

OGLH

7 REFERENCE DOCUMENT

7220-M-151A(Q) REV 15 MB-FP-7 Rev 1

8 ASME A.N.I. REQUIRED

YES NO

9 INSPECTION RECORD NO.

P.I.P.R H-7-A

LOG NO.

938

REV NO.

1

10 RESPONSIBLE ORGANIZATION

ZACK Co.

11 NONCONFORMANCE DISCOVERED DURING:

DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST INSPECT TURNOVER POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT 151A(Q) 16.7 STATES, SUBCONTRACTORS PLANS AND PROCEDURES SHALL INCLUDE THE MEANS BY WHICH SUBCONTRACTOR ENSURES THAT WORK IS COMPLETE AND CORRECT PRIOR TO SUBCONTRACTORS REQUEST FOR INSPECTION BY MPQAD. MB-FP-7 7.6.3.11 STATES, IN PART, THE DETAIL SHOWN INCLUDES PIECE/PART NUMBER, REFERENCE TO "C" AND/OR "M" DRAWING TAILS AND OTHER APPLICABLE DRAWINGS

13 NONCONFORMANCE THESE REQUIREMENTS HAVE NOT BEEN MET. TRAVELER # F11982 REF. C-875 REV 19 DETAIL 1 AS THE CONST DETAIL. DRAWING C-882 REV 21 REQUIRES THE HANGER TO BE BUILT TO C-3714 REV.0.

14 NCR ORIGINATED BY (PERSON)

Oliver Longworth

10-7-83
DATE

15 NCR ORIGINATED BY (DISCIPLINE)

MPQAD/HVAC

20 NUMBER OF HOLD TAGS (IF APPLIED)

1

21 LOCATION OF HOLD TAGS

ON HANGER #10 LOCATION AS NOTED BLOCK # 1

22 POTENTIAL 50.55(e)

YES NO

24 ACTION ITEM NO.

26583

26 ITEM PRIORITY CODE NO.

5

28 NCR REVIEWED BY:

Ron Thurston

23 REPORTED TO MPQA MANAGER

TE N/A

25 DISCIPLINE:

M

27 TREND CODE

N-6

DATE:

10-12-83

HGR DETAIL WAS INADVERTENTLY CHANGED TO C 3714 IN ERROR.

ORIGINAL

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REMARK SCRAP/REJECT REPAIR USE AS IS
DMA 12-14-83

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

HANGER DETAIL HAS BEEN CHANGED BACK TO 1/C875 PER DCN 35/C882

33 DISTRIBUTION FOR ACTION

BECHTEL ENGINEERING

34 DISPOSITION CONCURRENCE

<i>[Signature]</i> 12-14-83 PROJECT FIELD ENGINEER DATE	<i>[Signature]</i> 12-16-83 KPOAD CONCURRENCE DATE	_____ PFQCE (ASME) DATE
_____ LEAD DESIGN ORG DATE	_____ CP Co SMO (for turned over systems) DATE	_____ PQAE (ASME) DATE
		_____ A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

DCN 35 TO C-882 ISSUED TO REVISE HANGER COUNT.

36 METHOD OF DISPOSITION ACTION VERIFICATION

Document Review

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

[Signature] 4-12-84
KPOAD DATE

A.N.I. (ASME) DATE

DOES NOT APPLY TO
HAWLEY'S GROUP

DRAWING CHANGE NOTICE (DCN) SUS# OGLJ
OGLB
OGLH
UGLF
IGLC

DRAWING NO	SHEET NO	REV	DCN NO
C-882(9)	-	22	35

JOB NO. 7220 PAGE 1 OF 2

REQUESTED BY: CLIENT ENGINEERING FIELD SUPPLIER/CONTRACTOR

ON FOR CHANGE: CHANGE DETAIL CALLOUT

PROCUREMENT RESPONSIBILITY	AFFECTED PURCHASE ORDERS	PM OR MR PREPARED FOR DCN CHANGE
<input type="checkbox"/> OFFICE <input type="checkbox"/> SUPPLIER/CONTRACTOR <input checked="" type="checkbox"/> FIELD <input checked="" type="checkbox"/> NONE REQUIRED	NONE	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>

DESCRIPTION OF CHANGE

SECT 'C' EL 666'-0" IN 4E
 1 OFF HAND 2" MIN GAP N. SIDE DUCT TO TS WELD DUCT ON E&W FACE TO TS PER NOTE II-III, C-851 TO C-3600 AT 2'-11" E/5G & AT G

AND AS SHOWN ON PAGE 2 OF 2

ACTIVITY OF CHANGE
UPON ISSUE

RECEIVED

RECEIVED
DEC 06 1983

DWG REVISED NO.	22
STARTUP SYSTEMS OR AREAS ≤ 90 DAYS OF TURNOVER, OR AFTER TURNOVER IF AFFECTED BY CHANGES:	
System/Area No	Hardware Change (Yes or No)
N/A	NO
7220 242	PE

ACTIONS REGARDING USED MATERIAL/EQUIPMENT:

N/A

INITIATOR	CHECKED	APPROVAL	DATE
1-83	wdf	[Signature]	12/15/83
		GA SUPVR	PE

Incorporates the following change documents:
N/A

MIDLAND UNITS 1 & 2	DWG NO	SHEET	REV	DCN NO	PAGE
JOB NO. 7220	C-882(9)	22	22	35	2 OF 2

CHANGE C-3309 TO C-12 AT 7'-0" W/5.3 & 4'-0" N/11

DELETE CALLOUT OF C-3537 AT 5.6 & 4'-0" S/G

CHANGE C-3659 EL 673'-0" TO C-871 EL 673'-0" AT 9'-7" E/5.3 & 4'-11" N/KC

CHANGE C-3660 EL 668'-10" TO C-871 EL 668'-10" AT 9'-7" E/5.3 & 4'-11" N/KC

CHANGE C-3661 EL 662'-4" TO C-871 EL 662'-4" AT 9'-7" E/5.3 & 4'-11" N/KC

CHANGE C-3668 TO C-3716 AT 11'-7" E/5.3 & 5'-6" N/KC

CHANGE C-3714 TO C-875 TOS EL 662'-8" AT 5'-2" N/KC & 9'-10" W/5.9

ISSUES FOR ONLY

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

ORIGINAL
NONCONFORMANCE REPORT

ORIGINAL

16 NCR NO.

H-00074-ZZ

17 DATE ISSUED

10-7-83

18 REV

RECEIVED

19

PAGE 1 OF 2 APR 24 1984

C. P. Co. Legal

1 ITEM LOCATION

Aux building, Area 1 B.O.D. 680'-3" 3'-6" South of 'A' - East-West run between 7.9 & 8.7

2 ITEM DRAWING/PART NO.

M509 SH2 R23/V9 SH2 R5

3 ITEM PART NAME

Duct piece 705.5

4 ITEM SERIAL NO.

F23087

5 ITEM DESCRIPTION

Rectangular standard construction 20x24x47 18 ga. duct

6 ITEM STARTUP SYSTEM NO.

OGLF

7 REFERENCE DOCUMENT

MISIA R15

8 ASME A.N.I. REQUIRED

YES NO

9 INSPECTION RECORD NO.

H7B-1866

LOG NO.

1866

REV NO.

3

10 RESPONSIBLE ORGANIZATION

The Zack Co.

11 NONCONFORMANCE DISCOVERED DURING:

POST INSPECT

TURNOVER

DESIGN

POST TURNOVER

RECEIVING

PRE-OP TEST

CONST

FINAL TURNOVER

RELEASE FOR INSPECT

OVERINSPECT

12 REQUIREMENT

① MISIA R15 Sect. 14.8.4 h states in part, "... porosity less than 1/32 inch dia. is not rejectable.

13 NONCONFORMANCE

① Contrary to the above stated criteria, two (2) porosity holes exist within 1/8" of weld length, over 1/32" dia to 1/16" dia. in size, which are Reference attachment 2

14 NCR ORIGINATED BY (PERSON)

Donald J. Infinite

10-7-83
DATE

15 NCR ORIGINATED BY (DISCIPLINE)

MPOAD HVAC

20 NUMBER OF HOLD TAGS (IF APPLIED)

1

21 LOCATION OF HOLD TAGS

South face of duct

22 POTENTIAL 50.55(e)

YES NO

24 ACTION ITEM NO.

Z0592

26 ITEM PRIORITY CODE NO.

5

28 NCR REVIEWED BY: PMS

Ron Thurston

REPORTED TO MPOA MANAGER

DATE N/A

25 DISCIPLINE:

M

27 TREND CODE

① N4 (1 weld)

DATE:

10-13-83

CONTINUED ON REVERSE

F-2M/1A (Rev 1)

ORIGINAL

TOOL INSTALLATION OF LONGITUDINAL SPLICE WELD DURING FABRICATION

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. N/A

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

REWORK WELD TO ACCEPTABLE CONDITION PER WPS 1-3-1 ^{OR 1-3-2}

33 DISTRIBUTION FOR ACTION

BACK CONSTRUCTION

34 DISPOSITION CONCURRENCE

PHL FOR SMS 3-16-84
~~12-22-85~~ 12-22-85
PROJECT FIELD ENGINEER DATE MPQAD CONCURRENCE DATE

PFQCE (ASME) - DATE

PQAE (ASME) DATE

LEAD DESIGN ORG DATE CP Co SMO (for turned over systems) DATE

A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

WELDED BY HV-068 ON MARCH 16, 1984 WITH WPS 1-3-2

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE SUPERCEDING NCR NUMBER

PER VISUAL INSPECTION TAG PULLED ON 4/12/84

37 NCR CLOSED BY

PR Condon H8 4/12/84
MPQAD DATE

A.N.I. (ASME) DATE

2 x to x corner welds each corner typ - 8 places (16 welds total)

ORIGINAL

5 C.F. to duct

5 C.F. to duct

top of duct (looking down)

starter welds as required typ.

Reject 2 Porosity holes $\frac{1}{32}$ to $\frac{1}{16}$ in dia.

4 C.F. to duct

4 C.F. to duct

South face of duct (looking north)

5 C.F. to duct

5 C.F. to duct

Bottom of duct (looking up)

4 C.F. to duct

4 C.F. to duct

North face of duct

ORIGINAL

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NONCONFORMANCE REPORT

16 NCR NO.
H-00076-22 REV 1 2-1-84
2-2-84
2-1-84
2-2-84

17 DATE ISSUED
10-8-83 18 REV
2-2-84

19
PAGE 1 OF RECEIVED

1 ITEM LOCATION
Diesel Generator Building Bay 4 APR 21 1984
C. P. Co. Legal

2 ITEM DRAWING/PART NO.
V85B, HGR 10

3 ITEM PART NAME
DETAIL 9/1956

4 ITEM SERIAL NO.
N/A

5 ITEM DESCRIPTION
HVAC HANGER

6 ITEM STARTUP SYSTEM NO.
ZGMA

7 REFERENCE DOCUMENT
7220-M-151A(Q) R15 / 7220-C-305 REV 16

8 ASME A.N.I. REQUIRED
 YES NO

9 INSPECTION RECORD NO.
47A

LOG NO.
999

REV NO.
1

10 RESPONSIBLE ORGANIZATION
ZACK

11 NONCONFORMANCE DISCOVERED DURING:

DESIGN RECEIVING CONST RELEASE FOR INSPECT

POST INSPECT TURNOVER POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT 7220-M-151A(Q) R15, PARA 10.2.1 STATES "DUCT HANGERS AND SUPPORTS SHALL BE FABRICATED AS SHOWN ON THE DRAWINGS." DETAIL 9/1956 REV 11 REQUIRES THAT THE LONGITUDINAL BRACE BE MADE OF 2"x3"x1/4" ANGLE IRON.

~~7220-C-305(Q) REV 16 APPENDIX "I" REQUIRES THAT CONNECTION BETWEEN PLATES AND CONCRETE SURFACE BE VERIFIED TO CONFORM TO PAR 110 BY USING SHIMS (SEE 220 Rev 1) PAR 37. KDB 2-1-84~~

~~DELETED PER 7220-C-305(Q) REV 17~~

13 NONCONFORMANCE ① CONTRARY TO THE ABOVE REQUIREMENT ZACK HAS FABRICATED HGR 10 LONGITUDINAL BRACING OUT OF 3"x3"x1/2" ANGLE IRON.

~~② CONTRARY TO THE ABOVE REQUIREMENT NO TEST PROBES ARE AVAILABLE TO VERIFY EXTENT OF GAP ON TOP HORIZONTAL ANCHOR PLATE, THEREFORE MAKING THIS ATTRIBUTE INDETERMINATE.~~

14 NCR ORIGINATED BY (PERSON)
[Signature] 10-8-83
DATE

15 NCR ORIGINATED BY (DISCIPLINE)
MPCOAD HUAC A

20 NUMBER OF HOLD TAGS (IF APPLIED)
1

21 LOCATION OF HOLD TAGS
HGR 10 V85B D6 BUILDING

22 POTENTIAL 50.55(e)
 YES NO

24 ACTION ITEM NO.
20596

26 ITEM PRIORITY CODE NO.
5

28 NCR REVIEWED BY:
[Signature] 2-2-84

23 REPORTED TO MPQA MANAGER
DATE N/A

25 DISCIPLINE:
M

27 TREND CODE
① N-3
② N-1

DATE:
10-14-83

BOS 428

HOOD 76 ZZ

PG 2 of 2

29 CAUSE

BDSA

06 30F3

4 TAP
319.94

FAILURE OF CRAFT TO INSTALL HANGAR PER
DESIGN REQUIREMENTS.

30 PROCESS CORRECTIVE ACTION:

YES

NO

QAR NO. N/A

31 RECOMMENDED DISPOSITION

REMARK

SCRAP/REJECT

REPAIR

INVALID

USE AS IS ^{JLH 4-10-84}

32 CONDITIONAL RELEASE

YES

NO

31A ADDITIONAL INFORMATION

REFER TO BPCO FOR REVIEW "USE-AS-IS" SEE SUPPLEMENTAL SH 10F3.

SEE PAGE 4 OF 4 FOR PROJECT ENGINEERING DISPOSITION

33 DISTRIBUTION FOR ACTION

BPCO

34 DISPOSITION CONCURRENCE

PROJECT FIELD ENGINEER

DATE

MPQAD CONCURRENCE

DATE

PFQCE (ASME)

DATE

PQAE (ASME)

DATE

JM Ca. l. E. B. P. 4/13/84
LEAD DESIGN ORG

DATE

CP Co SMO (for turned over systems)

DATE

A.N.I. (ASME)

DATE

35 DISPOSITION ACTION TAKEN

RECEIVED

MAR 15 1984

Midland Project

C
HVAC

VOID

DUE TO INSPECTOR MISS
OF SECTION "D" C955-2 REV 1
AND NOTE "4" ON C955-1 REV 1
THIS ITEM IS NOT A NON-CONFORMANCE

Kenneth B. Beniquez H3 4-19-84
F. L. ... 4-19-84

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE

UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

F. L. ...
MPQAD

DATE

A.N.I. (ASME)

DATE

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NONCONFORMANCE REPORT
CONTINUATION SHEET

NCR NO. H-00076-ZZ

DATE ISSUED

REV

PAGE 4 OF 4

BECHTEL PROJECT ENGINEERING HAS EVALUATED THE
SUBJECT NONCONFORMANCE AND DISPOSITIONS IT AS FOLLOWS:
"INVALID - NO NONCONFORMANCE EXISTS"


REFERENCES : DWG C-955-1 (Q), REV. 1 9/9/83 NOTE 4
DWG C-955-2 (Q), REV. 1 9/9/83 SECTION D
FCR C-4514


THD GAT 3/22/84 *Jem. C. L.*
3.19.84
g. J. Hackwater for PV Regulators
3.22.84

ORIGINAL ORIGINAL

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NONCONFORMANCE REPORT

16 NCR NO.	H-00078-EE	
17 DATE ISSUED	12-22-83	18 REV 
19	PAGE 1 OF 2	

THIS NCR WAS WRITTEN ON PREVIOUSLY ACCEPTED ITEMS ON HANGER INSPECTION REPORT DATED 11-26-80  ~~AT 12-22-83~~

1 ITEM LOCATION SERVICE WATER BLD. 30'6" S.E. OF N.W. WALL & 5'8" S.W. OF N.E. WALL 8.00 EL. 648'0"			
2 ITEM DRAWING/PART NO.	3 ITEM PART NAME	4 ITEM SERIAL NO.	
V83 Rev. 6 #6A	HANGER	N/A	
5 ITEM DESCRIPTION DUCT HANGER SUPPORT			

RECEIVED
APR 24 1984
C. P. Co Legal

6 ITEM STARTUP SYSTEM NO.	7 REFERENCE DOCUMENT		8 ASME A.N.I. REQUIRED
OGDL	AWS D1.1-79, 7820-M-151A REV. 15		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
9 INSPECTION RECORD NO.	LOG NO.	REV NO.	10 RESPONSIBLE ORGANIZATION
H-7-A	895	1	ZACK SUBCONTRACTOR

11 NONCONFORMANCE DISCOVERED DURING:			
<input type="checkbox"/> DESIGN	<input type="checkbox"/> RECEIVING	<input type="checkbox"/> CONST	<input checked="" type="checkbox"/> RELEASE FOR INSPECT
<input type="checkbox"/> POST INSPECT	<input type="checkbox"/> TURNOVER	<input type="checkbox"/> POST TURNOVER	<input type="checkbox"/> PRE-OP TEST
			<input type="checkbox"/> FINAL TURNOVER
			<input type="checkbox"/> OVERINSPECT

12 REQUIREMENT

① AWS D1.1-79 SECTION 3.3.1 STATES IN PART: THE SEPARATION BETWEEN FAYING SURFACES OF LAP JOINTS SHALL NOT EXCEED 1/16" INCH.

② MSISA REV. 15 SECTION 10.2.1 STATES: DUCT HANGERS AND SUPPORTS SHALL BE FABRICATED AS SHOWN ON THE DRAWINGS.

13 NONCONFORMANCE


① CONTRARY TO THE STATED REQUIREMENT, THE EAST SIDE TOP HORIZONTAL MEMBER LAPS THE VERTICAL SUPPORT MEMBER AND HAS A 5/32" INCH GAP.

② CONTRARY TO THE STATED REQUIREMENT, ON DRAWING C961 DETAIL B CALLS OUT A 3/16 FILLLET WELD 2" LONG ON THE TOP AND BOTTOM OF THE HORIZONTAL MEMBERS WHERE THEY LAP THE VERTICAL MEMBERS, ON THE BOTTOM WEST SIDE ~~(2) WELDS ARE NOT LOCATED PER THIS REQUIREMENT.~~

~~NON CONFORMING ITEMS~~
~~AT 12-22-83~~

14 NCR ORIGINATED BY (PERSON)	DATE
<u>Ron Thurston</u> RON THURSTON	10-10-83
15 NCR ORIGINATED BY (DISCIPLINE)	
<u>MPQAD - HVAC</u>	

20 NUMBER OF HOLD TAGS (IF APPLIED)	21 LOCATION OF HOLD TAGS
ONE	ATTACHED TO INTERIOR TRANSVERSE BRACE

22 POTENTIAL 50.55(e)	24 ACTION ITEM NO.	26 ITEM PRIORITY CODE NO.	28 NCR REVIEWED BY:
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	20610	5	
REPORTED TO MPQA MANAGER	25 DISCIPLINE:	27 TREND CODE	DATE:
DATE <u>N/A</u>	M	① N-4 ② N-3	10/17/83

CONTINUED ON REVERSE

ORIGINAL

29 CAUSE

- 1.) THE HORIZONTAL MEMBER HAS SOME WARPAGE AND THEREFORE WAS THE CAUSE OF EXCESSIVE GAP BETWEEN THE HORIZONTAL AND VERTICAL ANGLES.
- 2.) ZACK FIELD WELDED HORIZONTAL MEMBER TO VERTICAL MEMBER ON THE VERTICAL LEG AND NOT THE HORIZONTAL LEG AS WAS REQUIRED

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. N/A

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

- 1.) REWORK MEMBERS AS REQUIRED PER WPS 2-1-1, WELDER ID HV SEE BLANK 35
- 2.) ADD WELDS AS REQUIRED PER DWG C-961 DETAIL B USING WPS 2-1-1, WELDER ID HV SEE BLANK 35.

33 DISTRIBUTION FOR ACTION

ZACK CO.

34 DISPOSITION CONCURRENCE

[Signature] 1-10-84 PROJECT FIELD ENGINEER DATE

[Signature] 1/12/84 MPOAD CONCURRENCE DATE

PFQE (ASME) _____ DATE _____

PQAE (ASME) _____ DATE _____

LEAD DESIGN ORG _____ DATE _____ CP Co SMO (for turned over systems) DATE _____

A.N.I. (ASME) _____ DATE _____

35 DISPOSITION ACTION TAKEN

REWORKED USING WPS 2-1-1 WELDER I.D. HV-011

36 METHOD OF DISPOSITION ACTION VERIFICATION

Visual Inspection

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE SUPERCEDING NCR NUMBER _____

The welds were reworked and now are in accordance with the stated requirements
4/16/84

37 NCR CLOSED BY

[Signature] 4-16-84 MPOAD DATE

A.N.I. (ASME) _____ DATE _____

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NONCONFORMANCE REPORT

ORIGINAL

16 NCR NO. H00152 22	17 DATE ISSUED 12-5-83	18 REV 0
19 PAGE <u>1</u> OF <u>X3</u>		BB 3/5/84

1 ITEM LOCATION *Module 800D Service Water 8109 634'S*
23'1" N.E. of Hdq & 2'3" S.E. of NW wall 651'3"

2 ITEM DRAWING/PART NO. V83 rev. 7 OUV90F	3 ITEM PART NAME HVAC FAN OUV90F	4 ITEM SERIAL NO. NA
--	-------------------------------------	-------------------------

5 ITEM DESCRIPTION
HVAC FAN

RECEIVED
APR 21 1984
C.P. Co. Legal

6 ITEM STARTUP SYSTEM NO. CGDR	7 REFERENCE DOCUMENT V83 M151A rev. 16	8 ASME A.N.I. REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
-----------------------------------	---	---

9 INSPECTION RECORD NO. H2C	LOG NO. 81	REV NO. C	10 RESPONSIBLE ORGANIZATION Bechtel
--------------------------------	---------------	--------------	--

11 NONCONFORMANCE DISCOVERED DURING:

DESIGN RECEIVING CONST RELEASE FOR INSPECT

POST INSPECT TURNOVER POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT *Bechtel tech spec M151A rev 16 appendix "D"*
(List of contractor furnished equipment and accessories for
INSTALLATION) STATES THAT EQUIPMENT WITH THE ID NUMBER
OUV 90 F (ZACK TRAVELER NUMBER F2447) IS A "Q" ITEM.

13 NONCONFORMANCE *CONTRARY TO THE ABOVE; Bechtel equipment list*
Dwg. 7220-M485 Q H5376 rev. 22 STATES THAT EQUIPMENT
WITH THE ID NUMBER OUV 90 F (ZACK TRAVELER NUMBER F2447)
IS A "NON-Q" ITEM, THIS CONFLICT HAS CREATED AN
INDETERMINATE CONDITION.

14 NCR ORIGINATED BY (PERSON)
John W. Or 12-5-83
DATE

15 NCR ORIGINATED BY (DISCIPLINE)
MPQAD-HVAC

20 NUMBER OF HOLD TAGS (IF APPLIED) 1	21 LOCATION OF HOLD TAGS <i>visible side of fan</i>
--	--

22 POTENTIAL 50.55(e) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	24 ACTION ITEM NO. <i>20814</i>	26 ITEM PRIORITY CODE NO. 5	28 NCR REVIEWED BY: <i>rlb</i> <i>John W. Or</i>
--	------------------------------------	--------------------------------	---

23 REPORTED TO MPQA MANAGER DATE <i>N/A</i>	25 DISCIPLINE: <i>M</i>	27 TREND CODE <i>N-6</i>	DATE: <i>1-26-84</i>
--	----------------------------	-----------------------------	-------------------------

29 CAUSE

30 PROCESS CORRECTIVE ACTION
 YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION
 REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE
 YES NO

31A ADDITIONAL INFORMATION: FOR ENGINEERING DISPOSITION SEE CONTINUATION SHEET 3
PROJECT ENGINEERING TO RESAVE. B.B 3/5/84
Paul Munk 2-2-84

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE
E. Krueger 3/21/84 PROJECT FIELD ENGINEER DATE
[Signature] 3/26/84 MPQAD CONCURRENCE DATE
[Signature] 3/12/84 LEAD DESIGN. ORG DATE
CP Co SMO (for turned over systems) DATE
PFQCE (ASME) DATE
PQAE (ASME) DATE
A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN
See block 31A for disposition results [Signature] 4/4/84
RECEIVED
FEB 06 1984
Midland Project
14

36 METHOD OF DISPOSITION ACTION VERIFICATION
RESULT OF DISPOSITION ACTION VERIFICATION
 ACCEPTABLE UNACCEPTABLE
IF UNACCEPTABLE, REFERENCE SUPERCEDING NCR NUMBER _____
PER SCN'S 44 AND 38 TO M151A & B.
TAG PULLED 4/12/84

37 NCR CLOSED BY
[Signature] (H8) 4/12/84
MPQAD DATE
A.N.I. (ASME) DATE

31A: ADDITIONAL INFORMATION (CONT'D)

PROJECT ENGINEERING RECOMMENDS A "USE AS B"
DISPOSITION. SPECS 7220-M-151 A(Q) AND M-151 B
HAVE BEEN CHANGED BY SCN'S 44 & 38 DATED
3/5/84 TO RESOLVE THE DOCUMENT CONFLICT & LIST
FAN QVV-90F AS A "NOW-Q" ITEM

Bassam *Polina* 3-5-84
SRE DIS
W Shelley 3-12-84

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NONCONFORMANCE REPORT

ORIGINAL

16 NCR NO.

H00153-ZZ

17 DATE ISSUED

12-5-83

18 REV

0

19

PAGE 1 OF X3⁸⁸
RECEIVED
3/5/84

1 ITEM LOCATION *Module 800D Service water 610g 634'6"* APR 21 1984
23'1" NE of 610g & 10' SE of NW wall 651'3" C.P. Co. Legal

2 ITEM DRAWING/PART NO. *V83 rev. 7 OUV90G* 3 ITEM PART NAME *HVAC FAN OUV90G* 4. ITEM SERIAL NO. *NA*

5 ITEM DESCRIPTION
HVAC FAN

6 ITEM STARTUP SYSTEM NO. *OSDB* 7 REFERENCE DOCUMENT *V83 M151A rev. 16* 8 ASME A.N.I. REQUIRED
 YES NO

9 INSPECTION RECORD NO. *H2C* LOG NO. *82* REV NO. *0* 10 RESPONSIBLE ORGANIZATION *Bechtel*

11 NONCONFORMANCE DISCOVERED DURING:
 DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST INSPECT TURNOVER POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT *Bechtel tech. spec. M-151A rev. 16 Appendix "D" (List of Contractor furnished equipment and accessories for installation) states that equipment with the ID number OUV90G, (ZACK TRAVELER number F2447) is a "Q" item.*

13 NONCONFORMANCE *Contrary to the above; Bechtel equipment list Dwg. 7220-M485 Q H537E rev. 22 states that equipment with the ID number OUV90G (ZACK TRAVELER number F2447) is a "NON-Q" item. This conflict has created an indeterminate condition.*

14 NCR ORIGINATED BY (PERSON)
Jim Clinton 12/5/83
DATE

15 NCR ORIGINATED BY (DISCIPLINE)
MPGAD-HVAC

20 NUMBER OF HOLD TAGS (IF APPLIED)
1

21 LOCATION OF HOLD TAGS
Visible side of fan

22 POTENTIAL 50.55(e)
 YES NO

24 ACTION ITEM NO.
Z0813

26 ITEM PRIORITY CODE NO.
5

28 NCR REVIEWED BY
John W. Orin

23 REPORTED TO MPQA MANAGER
DATE *N/A*

25 DISCIPLINE:
M

27 TREND CODE
N-6

DATE:
1-26-84

BB 3/5/84

29 CAUSE

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION: FOR ENGINEERING DISPOSITION SEE CONTINUATION ON PAGE 3
PROJECT ENGINEERING TO RESOLVE. BB 3/5/84

Paul J. Novali 2-2-84

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

E. Krampfelder 3/21/84 PROJECT/FIELD ENGINEER DATE
J. Jones 3/26/84 MPQAD CONCURRENCE DATE
PFQCE (ASME) DATE

J. M. ... 3/13/84 LEAD DESIGN ORG DATE CP Co SMO (for turned over systems) DATE
PQAE (ASME) DATE
A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

See block 31A For disposition results. *Paul J. Novali 4/4/84*

RECEIVED

FEB 06 1984

Midland Project

Q. M.

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION IF UNACCEPTABLE, REFERENCE SUPERCEDING NCR NUMBER _____
 ACCEPTABLE UNACCEPTABLE

PER SCN'S 44 AND 38 TO MISIA E B
TAG PULLED ON 4/12/84

37 NCR CLOSED BY

R. J. ... (H8) 4/12/84
MPQAD DATE

A.N.I. (ASME) DATE

NONCONFORMANCE REPORT
CONTINUATION SHEET

NCR NO.	H-000153 ZZ		
DATE ISSUED	12-5-83	REV	0
PAGE <u>3</u> OF <u>3</u>			

31 A ADDITIONAL INFORMATION

PROJECT ENGINEERING RECOMMENDS "USE-AS-IS"
DISPOSITION. SPECS. 7220 - M-151A(Q) AND M-151B
HAVE BEEN CHANGED BY SCN'S 44 & 38 DATED 3/5/84
TO RESOLVE THE DOCUMENT CONFLICT AND LIST FAN
OVV-90 G AS "NON-Q" ITEM

Bassan *Bolsa* 3-5-84
SME DIS

W.A. Shelly 3-12-84

ORIGINAL

NONCONFORMANCE REPORT

16 MCR NO.

H-00176-22

17 DATE ISSUED

12/12/83

18 REV

RS C (HR)
3/29/84

19

PAGE 1 OF 89

REC 27 1983 NCR-H00017622-D-CS-C90-120 NCR-83/12 N

1 ITEM LOCATION

RB #1 39'-9" E/C And 33'-7" S/C, Elevation 640'-0"

2 ITEM DRAWING/PART NO.

Plan Dwg C-935(Q) Detail 7/6/82

3 ITEM PART NAME

HVAC Seismic Support

4 ITEM SERIAL NO.

RECEIVED

5 ITEM DESCRIPTION

APR 21 1984

HVAC Duct support #30 Dwg V116(Q) Reels, Traveler F5965 C.P. Co. Legal

6 ITEM STARTUP SYSTEM NO.

2760 3/24/84 GTB

7 REFERENCE DOCUMENT

ANSI N 45.2 1971

8 ASME A.N.I. REQUIRED

YES NO

9 INSPECTION RECORD NO.

N/A

LOG NO.

N/A

REV NO.

N/A

10 RESPONSIBLE ORGANIZATION

Bechtel Project Engineering

11 NONCONFORMANCE DISCOVERED DURING:

- DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST INSPECT TURNOVER POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT

Ansi N45.2 Section 7, Document Control, Paragraph 2 States In Part... Participating Organizations Shall Have Procedures For Control Of The Documents And Changes There To To Preclude The Possibility Of Use Of Outdated Or Inappropriate Documents...

13 NONCONFORMANCE

Contrary To The Above Requirements FCN C-878 Notes Revisions To Be Made To Plan Drawing C-935(Q) But The Changes Have Not Been Incorporated.

14 MCR ORIGINATED BY (PERSON)

George Kayser 12/12/83

15 MCR ORIGINATED BY (DISCIPLINE)

RS, London 12/12/83
BPCO Civil Resident Engineering 3/29/84

20 NUMBER OF HOLD TAGS (IF APPLIED)

N/A None Applied

21 LOCATION OF HOLD TAGS

N/A

22 POTENTIAL 50.55(e)

YES NO

24 ACTION ITEM NO.

Z0652

26 ITEM PRIORITY CODE NO.

5

28 MCR REVIEWED BY

John W. [Signature] 3/29/84

23 REPORTED TO MPQA MANAGER

DATE

25 DISCIPLINE:

M

27 TREND CODE

K-5

DATE:

12-13-83

29 CAUSE

Flow document control procedures of Project Engineering procedures were not consistent in determining which attachments were placed on referenced drawings.

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS ~~INVALID~~ GRT/2/84

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

Recommend Project Engineering evaluate discrepant condition and incorporate appropriate information on drawings per disposition of FCN C-878. See pages 3 thru 8 of 8 for copy of FCN. For Eng. Rationale See pg 9 of 9 Paul M. Smith 12-19-93

33 DISTRIBUTION FOR ACTION

See pg 9 of 9 For Project Engineering Disposition H.C. 4/20/84

34 DISPOSITION CONCURRENCE

E. J. [Signature] 3/30/84 PROJECT FIELD ENGINEER DATE
John W. [Signature] 3/30/84 MPQAD CONCURRENCE DATE
John [Signature] 4/2/84 LEAD DESIGN ORG DATE CP Co SMO (for turned over systems) DATE
[Signature] 4/16/84 PQA (ASME) DATE
A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

See block 31A for Project Engineering rationale of Paul M. Smith 4/16/84

36 METHOD OF DISPOSITION ACTION VERIFICATION

DOCUMENTATION REVIEW
RESULT OF DISPOSITION ACTION VERIFICATION
 ACCEPTABLE UNACCEPTABLE IF UNACCEPTABLE, REFERENCE SUPERCEDING NCR NUMBER _____

PER FCN HAVING BEEN INCORPORATED INTO C935 Q.

37 NCR CLOSED BY

R. J. [Signature] (H8) 4/12/84
MPQAD DATE

A.N.I. (ASME) DATE

654742L

FIELD CHANGE NOTICE

RESIDENT ENGR

COMM. COMMENT PAGE 10

RESIDENT ENGR NO. 878

JOB NO. 7220 DRAWING OR SPECIFICATION NO. C-929 Q SHEET NO. N/A REV. SYM. 1 Q ITEM YES NO TITLE OF DWG OR SPEC. SEISMIC DUCT DETAILS

CHANGE PROPOSED FCN PREPARED BY AND DATE P.H. SH 1/23/81 Paul Skiff CHANGE APPROVED YES NO PFE SIGNATURE AND DATE [Signature] 1/28/81 DISPOSITION OF FCN REQUIRED BY DATE X 1

REASON FOR CHANGE DRAFTING ERRORS
RESIDENT ENGRS RKH COMMENT RW5 C-82039

EXISTING CONDITION
DETAILS 7 & 10 ON C-929 LACK ANGLE IRON MEMBERS. 7/C-929 LACKS TOP & BOTTOM ANGLE IRON ON TOP DUCT, 10/C 929 LACKS SIDE ANGLE IRON

DESCRIPTION OF CHANGE
SEE DRAWINGS REV. 3
1. PAGE 2 THIS FCN IS VOID.
2. REVISE DWG. C-929(Q) PER PAGES 3, 4 & 5 THIS FCN
ATTACHMENT TO NCR H-00176-22 INITIALS PSC DATE 12/18/83 PG. 3 OF 89
ON PLAN DWG. C-935(Q) REV. 3 APPROX. LOC. 39'-8" E / 1/2" OF RB1 AND 33'-7" S / 1/2", CHANGE CALLOUT TO READ:
7 REVISE PER C-929 FCN C-818 SHT. 6
RESIDENT ENGRS COMMENT

OTHER DWGS OR SPECS AFFECTED	CIVIL 935(Q) N/A R3	ELECTRICAL N/A	INSTRUMENTATION N/A	MECHANICAL N/A	PIPING N/A	WELDING OR OTHERS N/A
CHECKED BY FIELD LDE	Paul Skiff 1/27/81	N/A	N/A	[Signature]	N/A	N/A
CHECKED BY PE GR SUPV	[Signature]			[Signature]		

FCR APPROVED YES NO PROJECT ENGINEER SIGNATURE AND DATE [Signature] 2/5/82

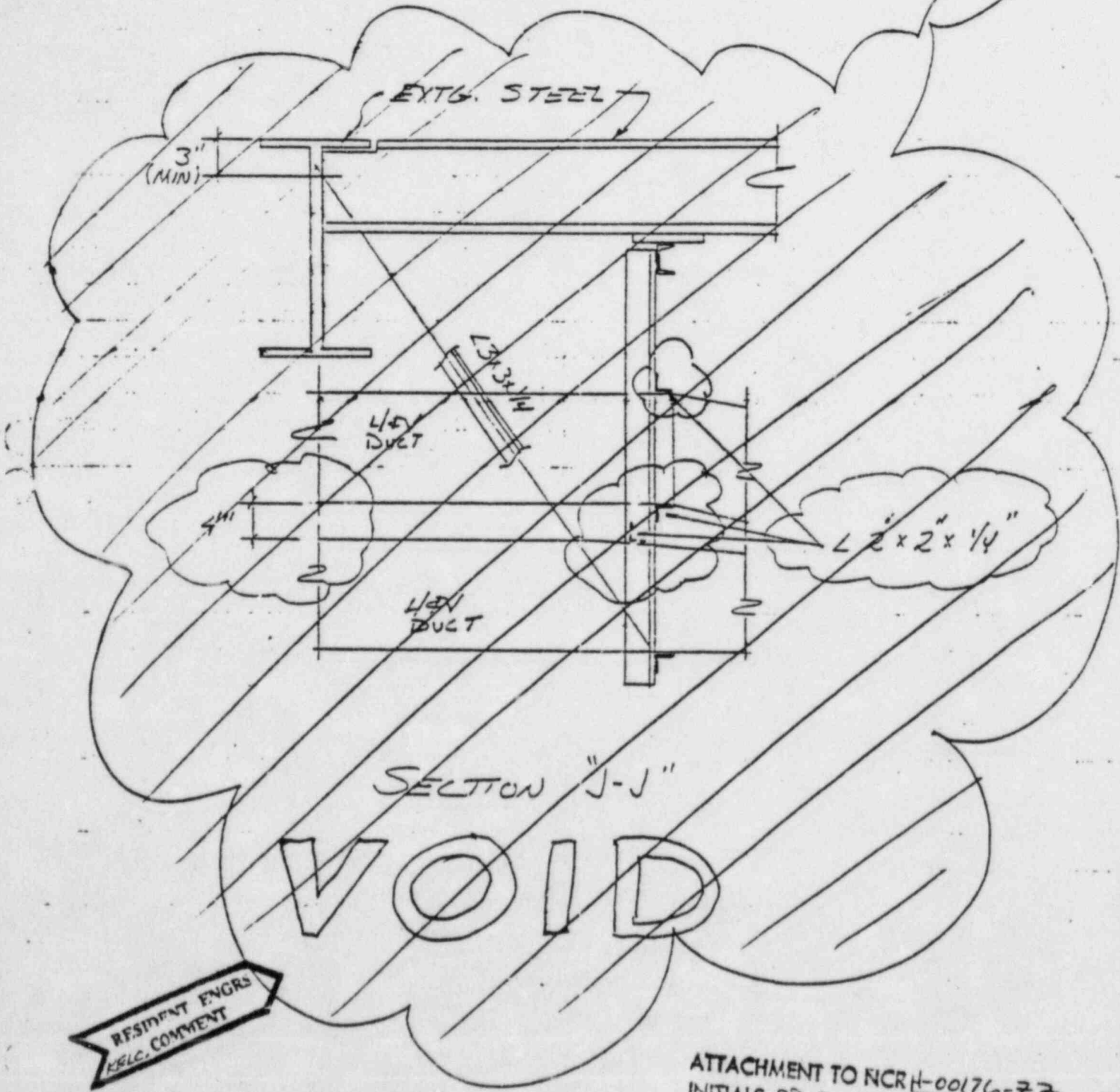
REMARKS APPROVED WITH COMMENTS. DRAWING C-929 (Q) WILL BE REVISED. NO DRVC ISSUED. BC
Tel. 625-2500 AQ 12/30/81

CALCULATION SHEET



ORIGINATOR P. Kelly DATE 1-20-81 CALC. NO. _____ REV. NO. _____
PROJECT C-920 R1 JOB NO. _____ CHECKED _____ DATE _____
SUBJECT DETAIL 7/C-920 SECT "J-J" SHEET NO. FENC 878 2057

NO COMMENT



RESIDENT ENGRS
RELC. COMMENT

ORIGINAL

ATTACHMENT TO NCR H-00176-22
INITIALS PJC DATE 12/12/83
PG. 4 OF 8

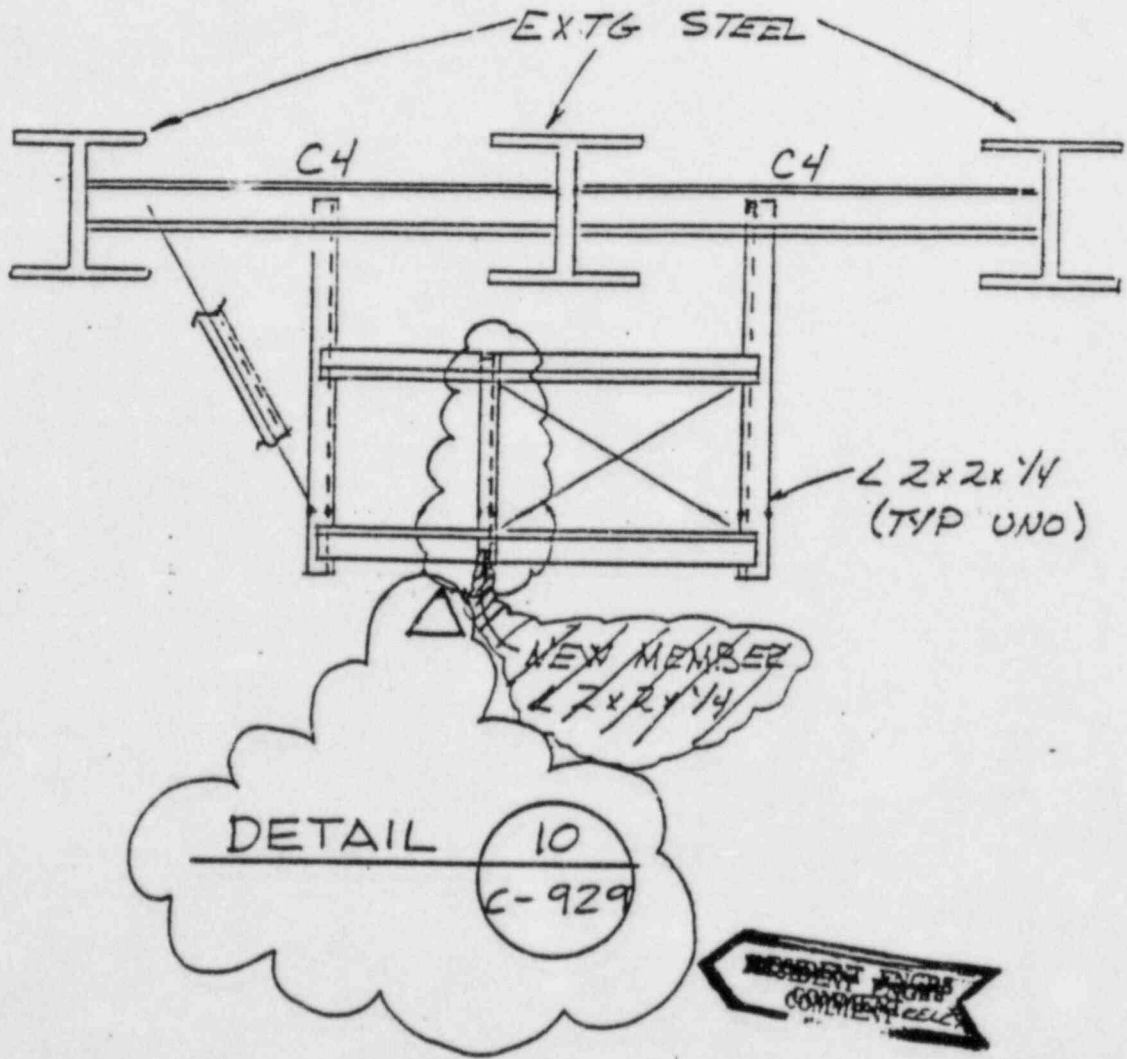


FIELD CHANGE NOTICE

— SUPPLEMENT —

PAGE 5 OF 9

FCN NO.
C-878



ATTACHMENT TO NCR 11-00176-22
INITIALS *BC* DATE 12/12/83
PG. 5 OF 9

ORIGINAL



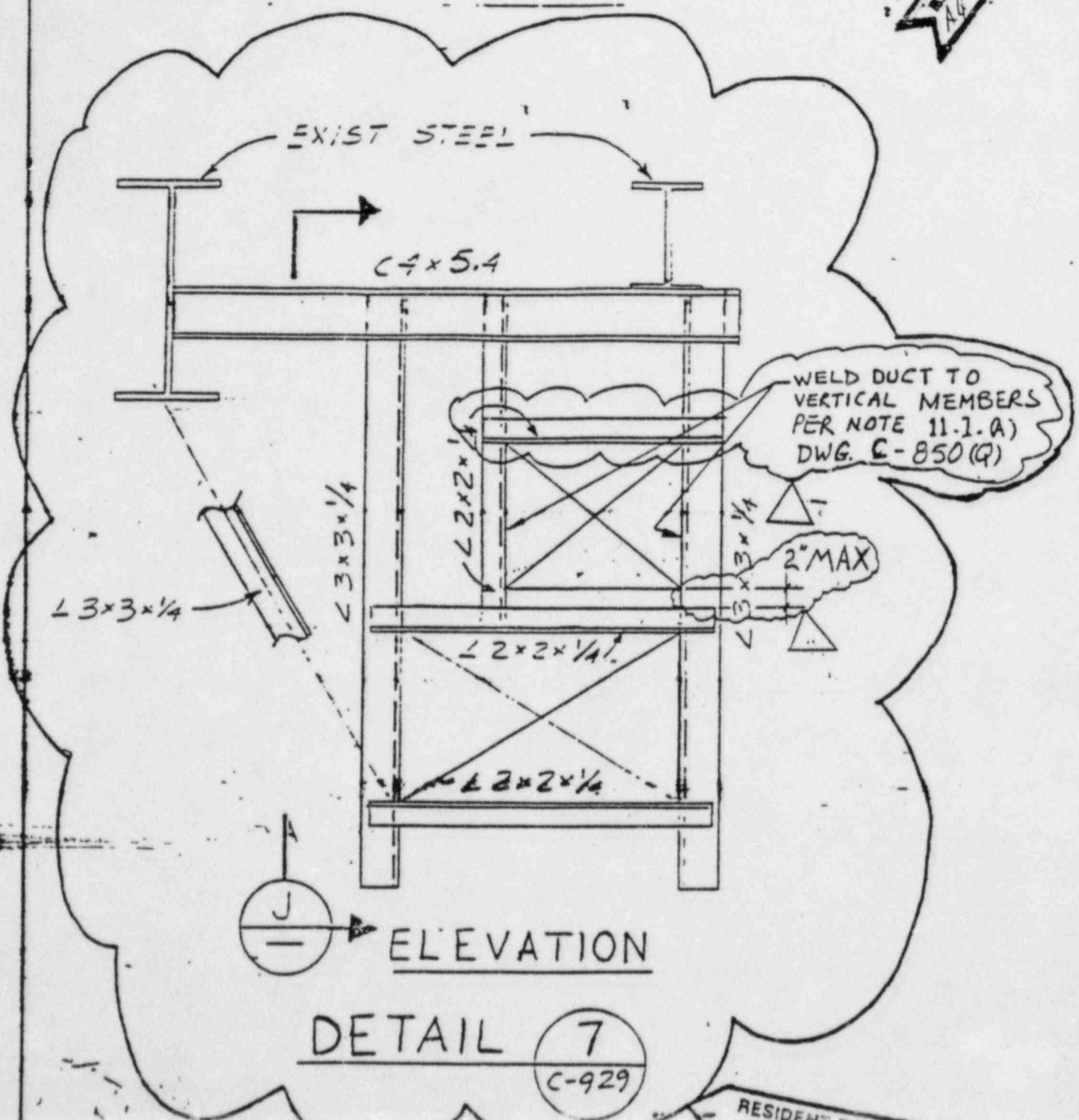
FIELD CHANGE NOTICE

— SUPPLEMENT —

PAGE 4 OF 8

FCN NO. 100

RESIDENT ENGRS COMMENT
AG



ELEVATION

DETAIL 7
C-929

RESIDENT ENGRS COMMENT
AG
RS-198-01

ORIGINAL

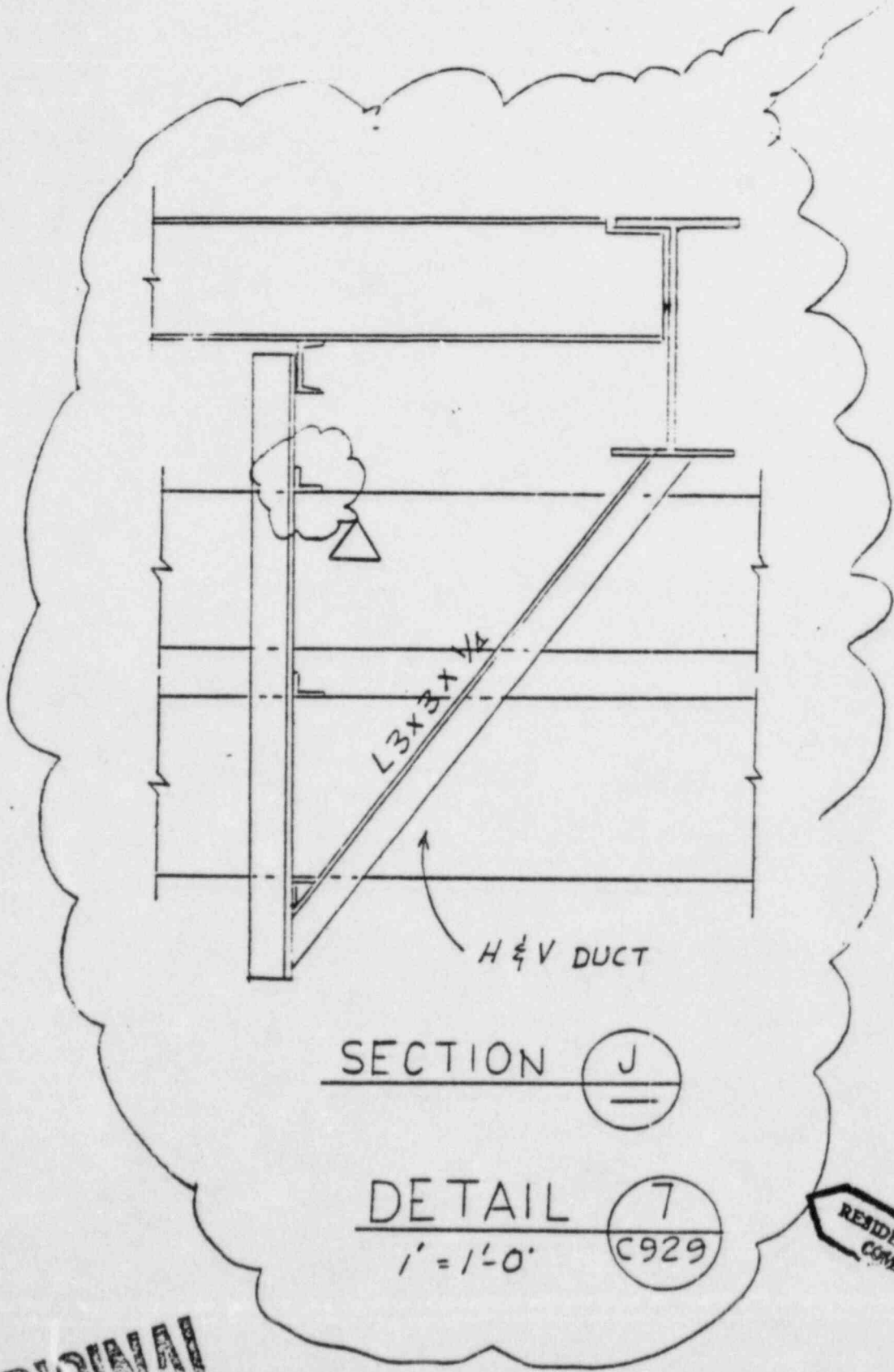
ATTACHMENT TO NCR H-00176-22
INITIALS RJC DATE 12/12/83
PG. 6 OF 8

RECHIE

FIELD CHANGE NOTICE - SUPPLEMENT -

7220

PAGE 5	OF 8
FCN NO C-578	



SECTION J

DETAIL 7
1" = 1'-0" C929

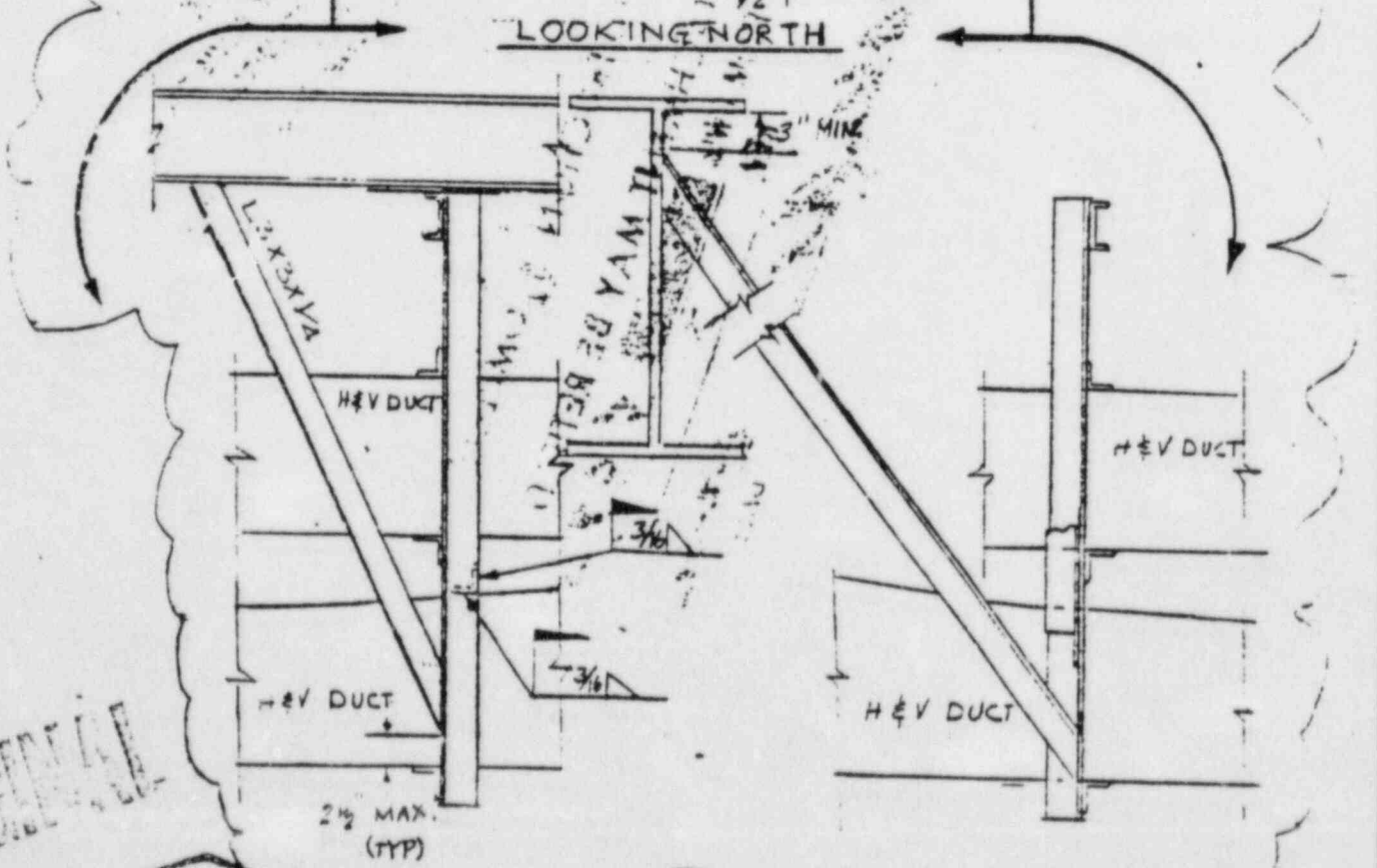
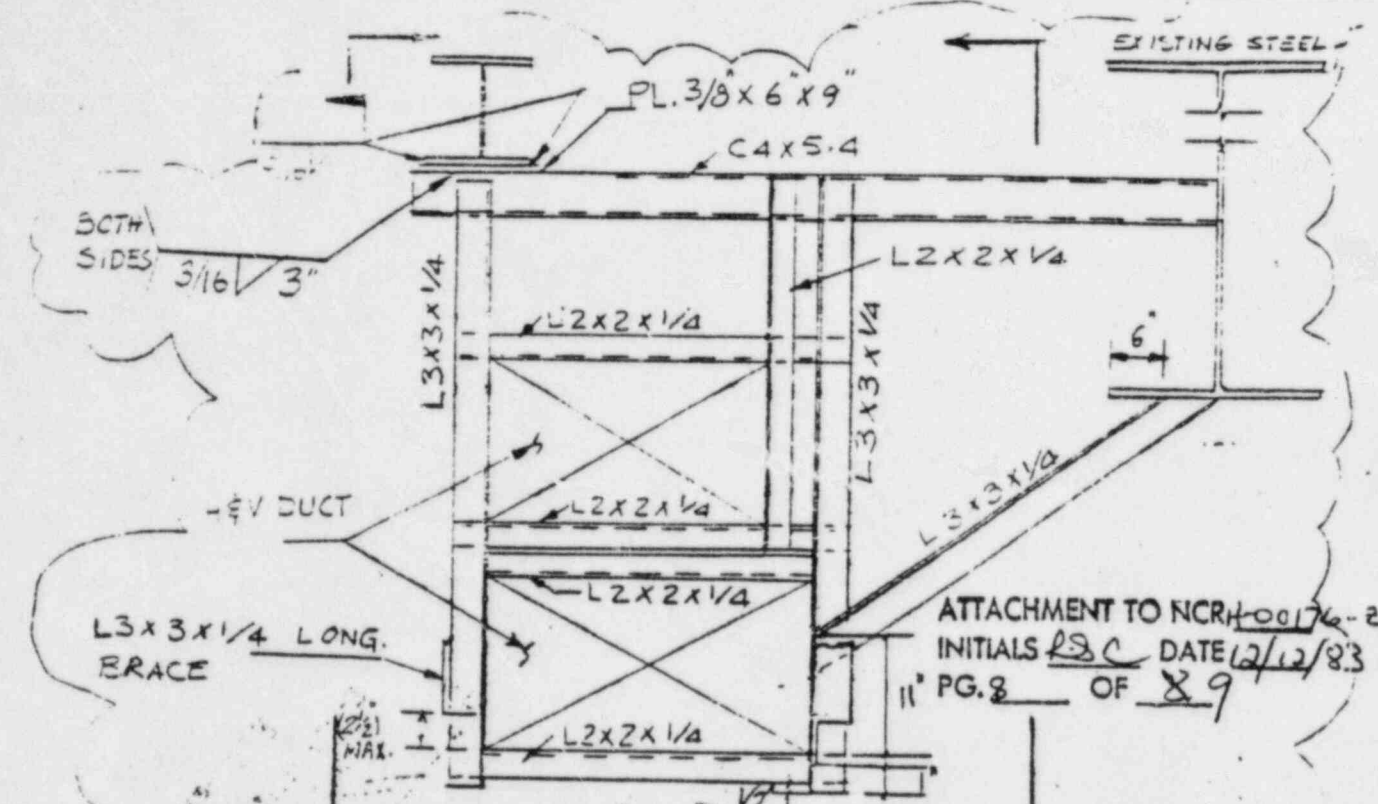
RESIDENT ENGINEER
COMMENT

ORIGINAL

ATTACHMENT TO NCR 4-00176-22
INITIALS DC DATE 2/12/83
PG. 7 OF 8

FIELD CHANGE NOTICE -SUPPLEMENT-

7220



ORIGINAL

DETAIL 7 FOR LOCATION APPROX
C-929 39-5 E / E RBL AND BE-7 S, E

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NONCONFORMANCE REPORT
CONTINUATION SHEET

NCR NO. H-000176-ZZ

DATE ISSUED 1/26/84

REV 0

PAGE 9 OF 9

(Item 31A Cont.)

This NCR is invalid since Project Engineering and Field Engineering have a program to control the distribution of design documents, i.e. the distribution of FCR's and FCN's to drawings affected by their disposition. In this specific case the FCN was attached to dwg C-935(9) even though it had not been incorporated. Therefore any changes to the hardware would have had to have been made in accordance with the FCN.

ART. 1/26/84

The FCN has since been incorporated into C-935(9).
ART for PIR 1-26-84

ORIGINAL



No 41421
PLEASE RECEIPT AND RETURN
BLUE COPY IMMEDIATELY

ORIGINAL

BECHTEL POWER CORP.
TRANSMITTAL FORM

84 APR 9 AM 7 19

DATE 4/6/84

*** ACTION**

SUBJECT

CODE

ACTION FOR VENDORS

1. APPROVED - MFG. MAY PROCEED
2. **APPROVED**
SUBMIT FINAL DWG. MFG. MAY PROCEED
3. APPROVED EXCEPT AS NOTED, MAKE CHANGES AND SUBMIT FINAL DWG. MFG MAY PROCEED AS APPROVED
4. NOT APPROVED. CORRECT AND RESUBMIT
5. REVIEW NOT REQUIRED MFG. MAY PROCEED.

ACTION FOR OTHERS

6. FOR APPROVAL
7. CONSTRUCTION
8. PRELIMINARY USE
9. REFERENCE
10. Closure

<input type="checkbox"/> BECHTEL DRAWINGS	B
<input type="checkbox"/> VENDOR DRAWINGS	V
<input type="checkbox"/> MATERIAL REQUISITION	MR
<input type="checkbox"/> SPECIFICATIONS	S
<input type="checkbox"/> BID REQUEST	BR
<input type="checkbox"/> QUOTATIONS	Q
<input type="checkbox"/> PURCHASE ORDER	PO
<input type="checkbox"/> CONFERENCE NOTES	CN
<input type="checkbox"/> BID SUMMARY	BS
<input type="checkbox"/> SUBCONTRACTS	SC
<input checked="" type="checkbox"/> <u>NCR</u>	X
<input type="checkbox"/>	Y

ATTENTION VENDORS: ALL FINAL DRAWINGS SUBMITTED TO BECHTEL MUST BE CERTIFIED TRANSPARENCIES.

QTY.	F. P. PREFIX	BECHTEL FOREIGN PR. NO. <input type="checkbox"/>	REV. NO.	TITLE	VENDOR NO.	ACTION	CODE
				NCR #			
				H-00176 ZZ			
				<i>closed 4-12-84</i>			
				<i>Returned 4-17-84</i>			
				<i>Bechtel</i>			

COMMENTS: _____

TO John Orr
MPGAD

FROM D. Fredianelli
BPCo slc

VENDOR PRINT
 OTHER

BY _____

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NOTE: THIS NCR SUPERSEDES ZACK
COMPANY NCR C906 ISSUED
BY T. JOHNSON ON 9-12-83.
NONCONFORMANCE REPORT

16 NCR NO.
H-00 192-ZZ

17 DATE ISSUED
12-19-83

18 REV 3/13/83
0

19
PAGE 1 OF 4
12-19-83

ORIGINAL

ORIGINAL

1 ITEM LOCATION

Bottom of duct Elevation 669'-7"
6'-9" West of 5.9 line and 1'-9" South of K line Auxillary Building Control Room

2 ITEM DRAWING/PART NO.

C884 (Q) Revision 25/Hanger 90A
V25 Sh 3 (Q) Revision 5

3 ITEM PART NAME

V25 Sh 3 Revision 5/Hanger 90A/F15863

4 ITEM SERIAL NO.

N/A

5 ITEM DESCRIPTION

HVAC Duct Support

RECEIVED

APR 21 1984

6 ITEM STARTUP SYSTEM NO.

OGLH

7 REFERENCE DOCUMENT

Bechtel Tech Spec
7220-M-15 1A (Q) Revision 15

8 ASME R.A.P. REQUIRED

YES NO

9 INSPECTION RECORD NO.

H-7-A

LOG NO.

1069

REV NO.

1

10 RESPONSIBLE ORGANIZATION

The Zack Company

11 NONCONFORMANCE DISCOVERED DURING:

DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST INSPECT TURNOVER POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT

1. Bechtel Technical Specification 7220-M-15 1A (Q) Revision 15 Paragraph 10.2.1 states,
"Duct hangers and supports shall be fabricated as shown on the drawings." (Detail 7/C898
(Q) Revision 16) (see attached sketch)

13 NONCONFORMANCE

1. Contrary to above, there is no welding detail for installing the new W6 x 12 at location
of Hanger 90A. (see attached sketches)

NOTE: Reference Zack NCR # C906 for previous Bechtel disposition.

14 NCR ORIGINATED BY (PERSON)

CH11

15 NCR ORIGINATED BY (DISCIPLINE)

MPQAD-HVACA

12/19/83

DATE

12/20/83

20 NUMBER OF HOLD TAGS (IF APPLIED)

1

21 LOCATION OF HOLD TAGS

V25 Sh 3 Revision 5/Hanger 90A/F15863

22 POTENTIAL 50.55(e)

YES NO

24 ACTION ITEM NO.

20683

△

5/12/84

04 3-1384

26 ITEM PRIORITY CODE NO.

5

28 NCR REVIEWED BY: RLB

Ron Thurston

3/12/84
3-15

23 REPORTED TO MPQA MANAGER

DATE N/A

25 DISCIPLINE:

M

27 TREND CODE

N-9

DATE:

12-29-83

CONTINUED ON REVERSE

F-2M/LA (Rev 1)

INSUFFICIENT DESIGN INFORMATION PROVIDED

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. N/A

31 RECOMMENDED DISPOSITION

REMARK - SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

REFER TO BPCO FOR REVIEW "USE-AS-IS". SEE NCR # C-906, BDS # 376 FOR BPCO DISPOSITION OF THIS NCR CONDITION.

Paul J. ... 2-2-84

33 DISTRIBUTION FOR ACTION

BPCO BACK 3-5-84

34 DISPOSITION CONCURRENCE

3-13-84
3-9-84
3-12-84
PROJECT FIELD ENGINEER DATE MPQAD CONCURRENCE DATE

PFQCE (ASME) DATE

PQAE (ASME) DATE

A.N.I. (ASME) DATE

LEAD DESIGN ORG DATE CP Co SMO (for turned over systems) DATE

35 DISPOSITION ACTION TAKEN

SENT TO EPCO FOR "USE AS IS," REF. BDS # 376. SEE PAGE 4 OF 4 ON BDS # 376 FOR SKETCH OF INSTALLED

RECEIVED CONDITION.

FEB 07 1984

Midland Project

ADDITIONAL NOTE ADDED TO CIVIL PLAN C-884 (Q), AT HGR. CALL-OUT TO SUPPLY WELD DETAIL FOR NEW BEAM, CREF DCN # 58 AGAINST C-884.

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION IF UNACCEPTABLE, REFERENCE SUPERCEDING NCR NUMBER

ACCEPTABLE UNACCEPTABLE

Documentation Review, BPCO #376, C884 Rev 29, C892 Rev 10
Dot "Alt. Cond New Beam", Dot. 7/898.

37 NCR CLOSED BY

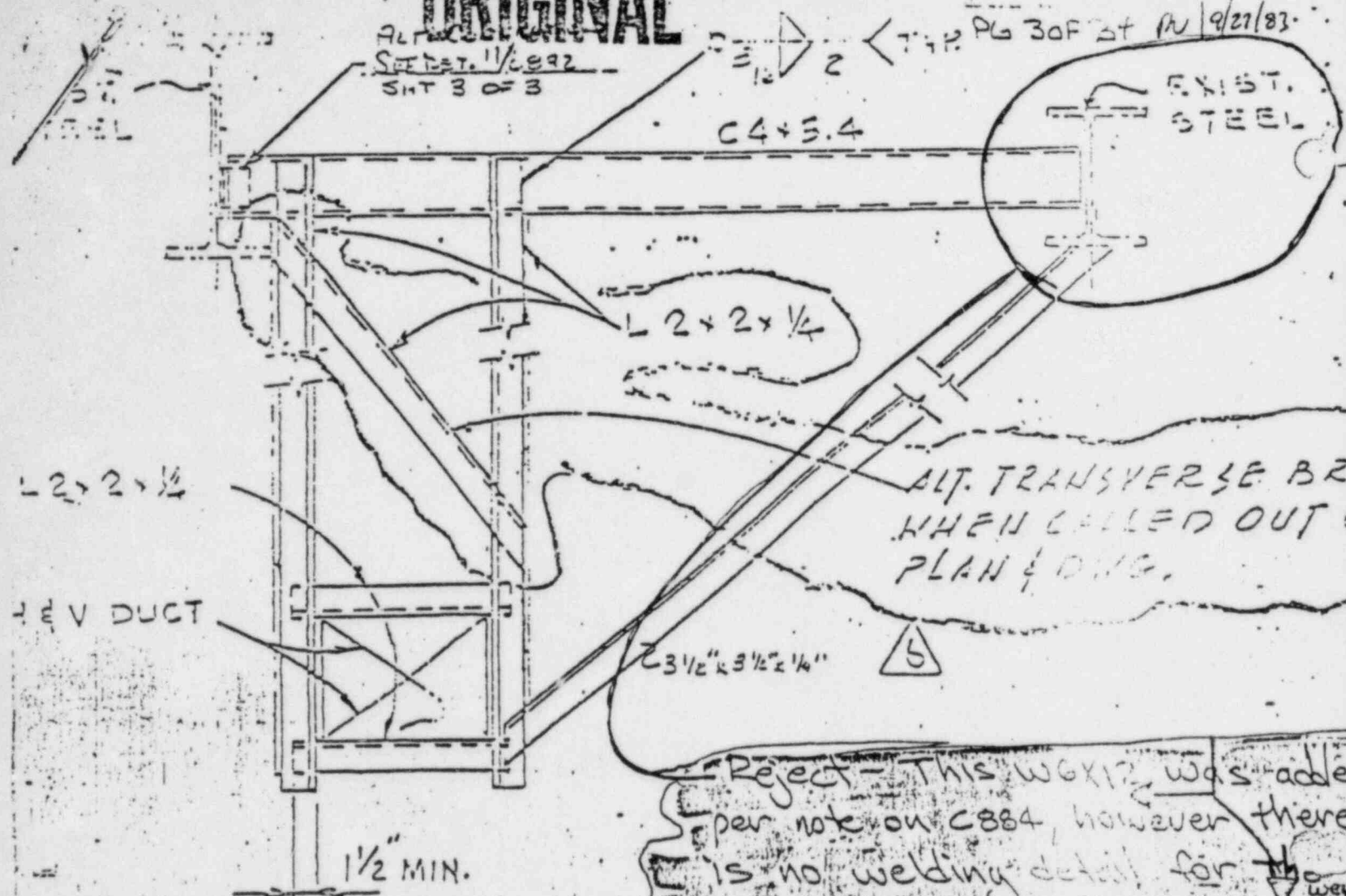
David L. ... 4-9-84
MPQAD DATE

A.N.I. (ASME) DATE

ORIGINAL

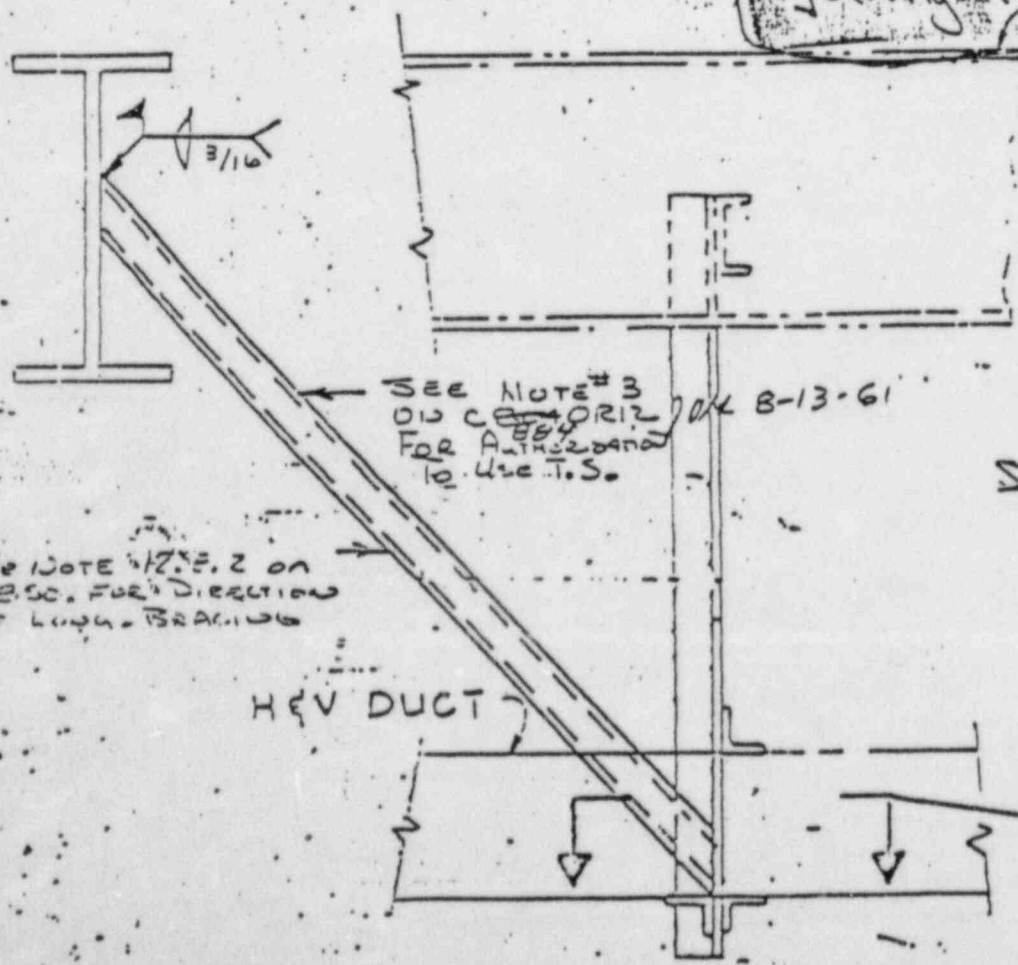
ALP
SET. 11/1/82
SHT 3 OF 3

PG 3 OF 3
9/21/83



Reject - This WGX12 was added per note on C884, however there is no welding detail for the joining this pipe to existing steel.

CH
12/19/83

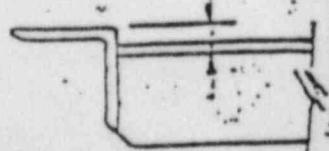


SECTION ONLY
ATTACHMENT TO PBR H-7A#
INITIALS CH DATE 9-12-83
CH
12/19/83

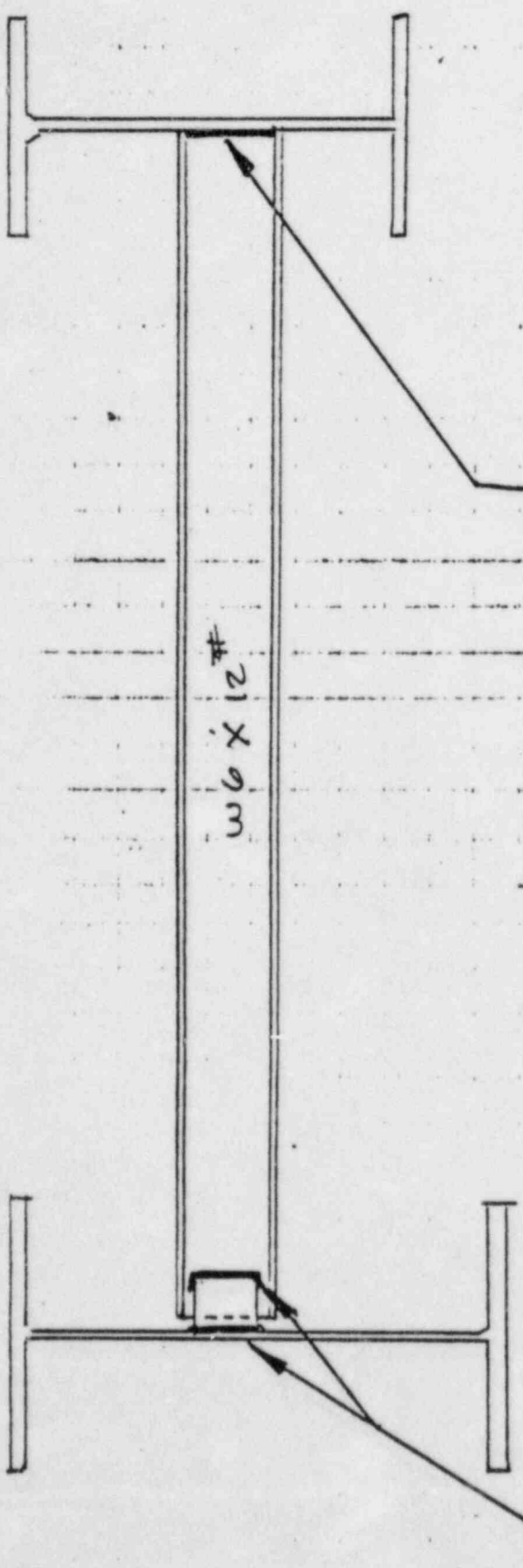
SHT 2 OF 3
90A
7
C698
F15863

FIELD TRIM

ATTACHMENT TO NCR H-00192-2
INITIALS CH DATE 2/19/83
PG. 3 OF 4



NCR C-9010
BDS # 376
PAGE 4 OF 4



WELDED WITH 5" OF
VERTICAL WELD EACH
SIDE. 3/16" FLUGT

WELDED TO CLIP ANGLE
ATTACHMENT. WITH A
MIN. OF 1/2" RETURNS
(TYPICAL 4 PLACES)

HANGER 90 A

LOOKING SOUTH

ATTACHMENT TO NCR H-00192-22
ENTRUS CM DATE 12/19/83
NO. 4

ORIGINAL

OATH

B.D.S. # 316

PG 1 OF 34

PN 9/22/83

THE ZACK COMPANY

ENGINEERING DISPOSITION REQUEST

NCR - C906DCS C90130 NCR 830927N

1. NCR# C 906 5. Date 9-22-83
2. Refer to NCR Item # ① 6. Building/Area AUX 3 CONTROL ROOM
3. Bechtel Drawing # C 884 (Q) R 25
C 892 (Q) R 16 7. Location 6'-9" W / 5.9' ± 1'-9" SLK B.O.D EL 4.9'-7"
4. Zack Recommendation: Repair Use-As-Is

10.

DISPOSITION CONCURRENCE			
REWORK	REJECT	REPAIR	USE-AS-IS
			X

BECHTEL DISPOSITION

SEP 26 1983

11.

Paul T. ... 9/27/83 Date
Bechtel Field Engineering

12.

B. McCall for E. Poser 11/9/83 Date
Bechtel Project Engineering

8 a. Bechtel Field Engineering Disposition _____

b. Bechtel Field Engineering Recommended Disposition To Project Engineering:

EVALUATE EXISTING CONDITION FOR ACCEPTABILITY TO
"USE-AS-IS". SEE PAGE 4 OF 4 FOR SKETCH OF
INSTALLED CONDITION.

9. Bechtel Project Engineering Disposition:

BECHTEL PROJECT ENGINEERING HAS EVALUATED THE SUBJECT NONCONFORMANCE &
DISPOSITIONS IT "USE-AS-IS". DCN 58 TO DWG C-884(Q) REV 26 HAS BEEN
ISSUED TO REFLECT THE EXISTING CONDITIONS. REF CALL 35(1.95)(Q) REV 0,
DISCUSSED W/ T. JOHNSON ON 10/31/83

J. B. Schneider 10/31/83

NONCONFORMANCE REPORT

1. ACTION ITEM NO. 20518 3. S.U.S. OGLH 5. TREND CODE(S) N-9
2. DISCIPLINE CODE M 4. PRIORITY CODE 5

6. REPORT NO. C906 10. TRAVELER NO. F15863
7. DATE 9-12-83 11. BECHTEL SUPPLIED - YES NO
8. ITEM NO. Hgr. 90A 12. BLDG./FLOOR ELEVATION Control Room
9. V-DRAWING NO. V25 sh. 3 Rev. 5 13. TAG NO. 8309 (Placed on W6X12)

14. DESCRIPTION OF NONCONFORMANCE: ⁹⁻¹²⁻⁸³
Contrary to MISIA ⁹⁻¹²⁻⁸³ Rev. 15, para. 10.2.1, there is no detail for
installing the new W6X12 at the location of hgr. #90A.
15. [Signature] 9-12-83 16. [Signature] 9-12-83
INITIATOR / DATE HVAC QA SEC. GROUP SUPERVISOR / DATE

17. CORRECTIVE ACTION PLAN: REFER TO BPCo FOR "USE AS IS"

18. [Signature] 11-21-83 ZACK COMPANY PROJECT ENG. / DATE
19. [Signature] 11-23-83 HVAC QA SEC. GROUP SUPERVISOR / DATE

20. CONDITIONAL RELEASE:
21. _____ ZACK COMPANY PROJECT ENG. / DATE
22. _____ BECHTEL FIELD ENG./ DATE ACCEPT REJECT
23. _____ HVAC QA SECTION GROUP SUPER. / DATE ACCEPT REJECT

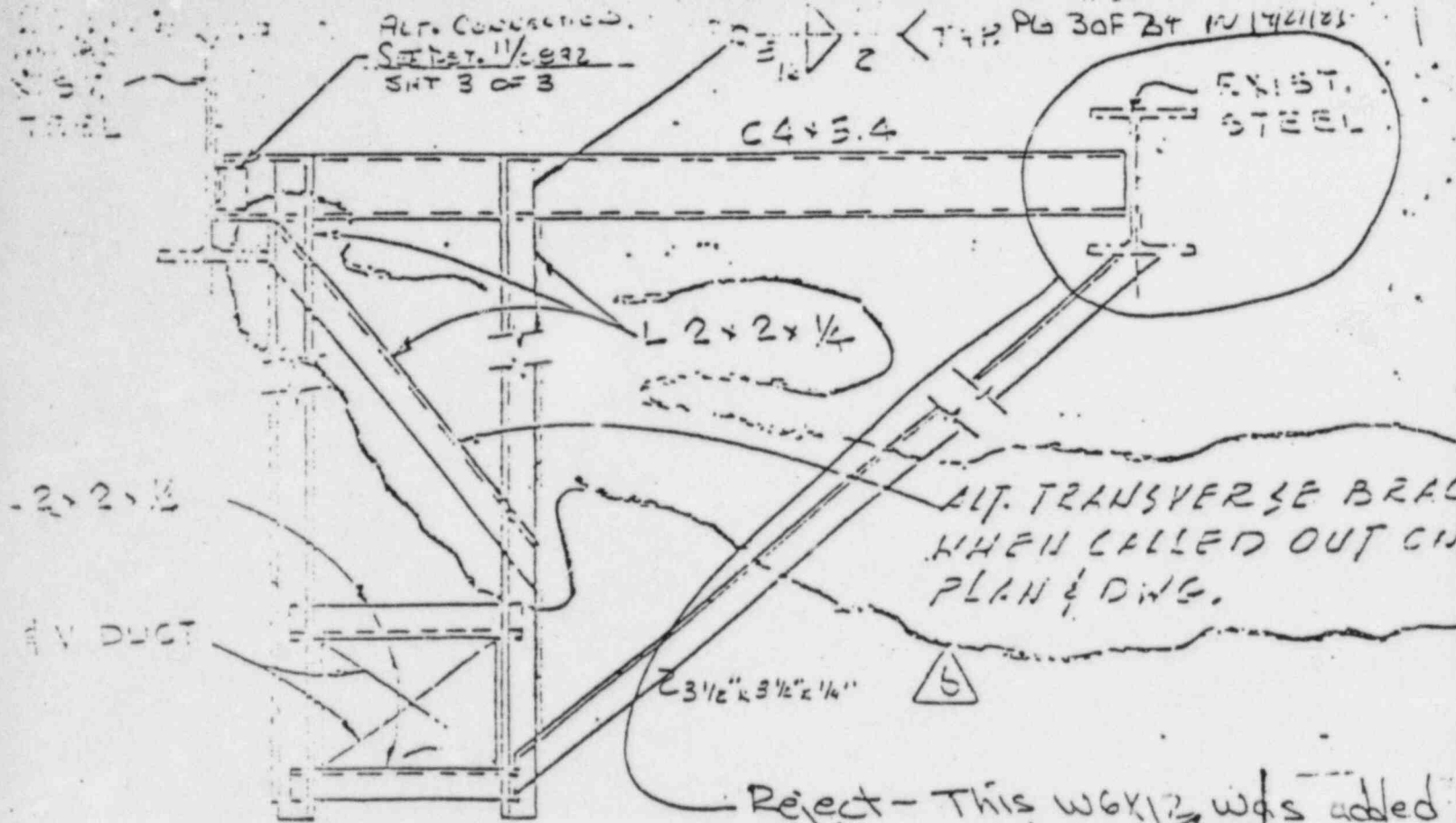
24. CORRECTIVE ACTION COMPLETE: [Signature] 11-23-85 ZACK COMPANY PROJECT ENG./DATE

25. CORRECTIVE ACTION VERIFICATION: ITEM 1 HAS BEEN TRASFERED TO
MPQAD NCR# H-00142-22 FOR DISPOSTION

26. ACCEPT:
27. [Signature] 12/19/83 INSPECTOR / DATE 12/20/83
28. [Signature] 12-29-85 HVAC QA SECTION GROUP SUPERVISOR / DATE

ALT. CONNECTION.
SHEET 11/892
SHT 3 OF 3

TRIP PG 30F BT IN 1741181

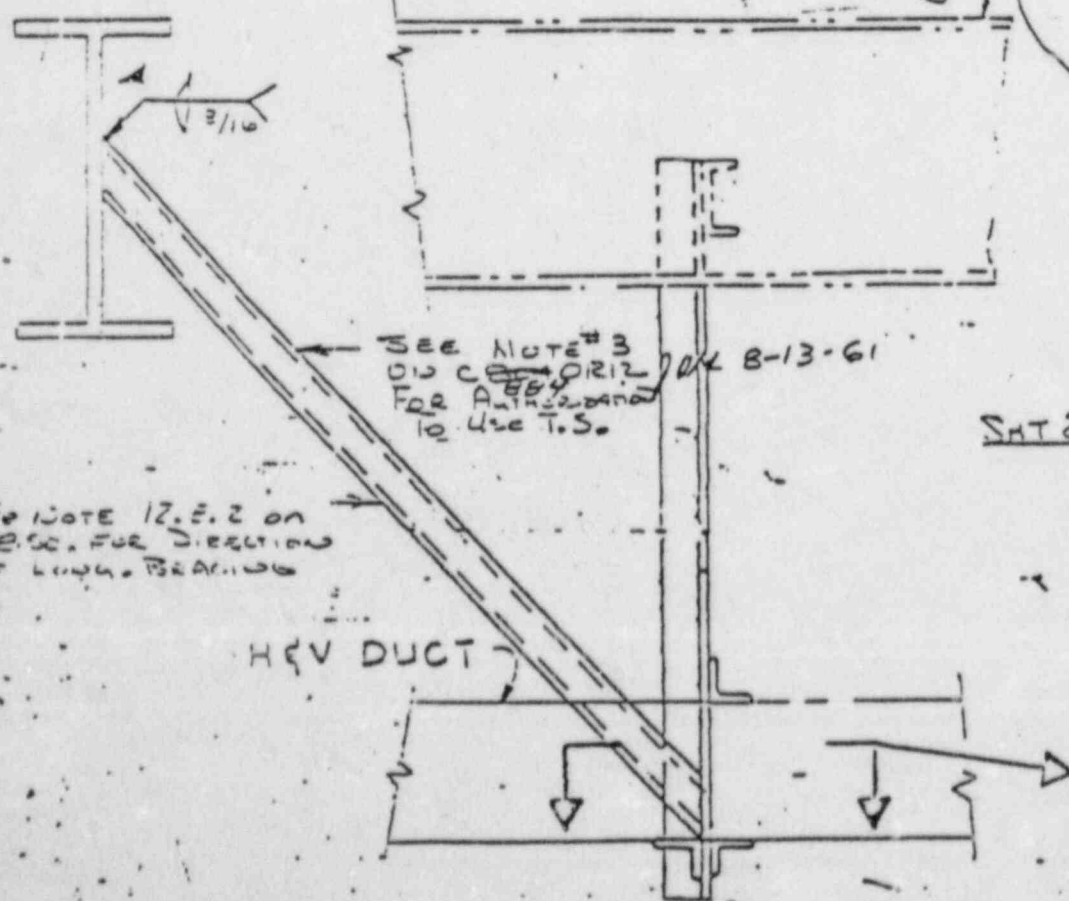


Reject - This W6x12 was added per note on C884, however there is no welding detail for the we joining this W6 to existing steel

EXIST. STEEL

9-12-83

1/2" MIN.



QC INSPECTION ONLY
ATTACHMENT TO PIR H-7A#1065
INITIALS CA DATE 9-12-83

SHT 2 OF 3

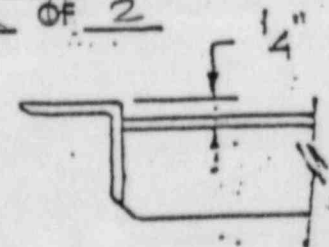
90A
7
C898

F15863

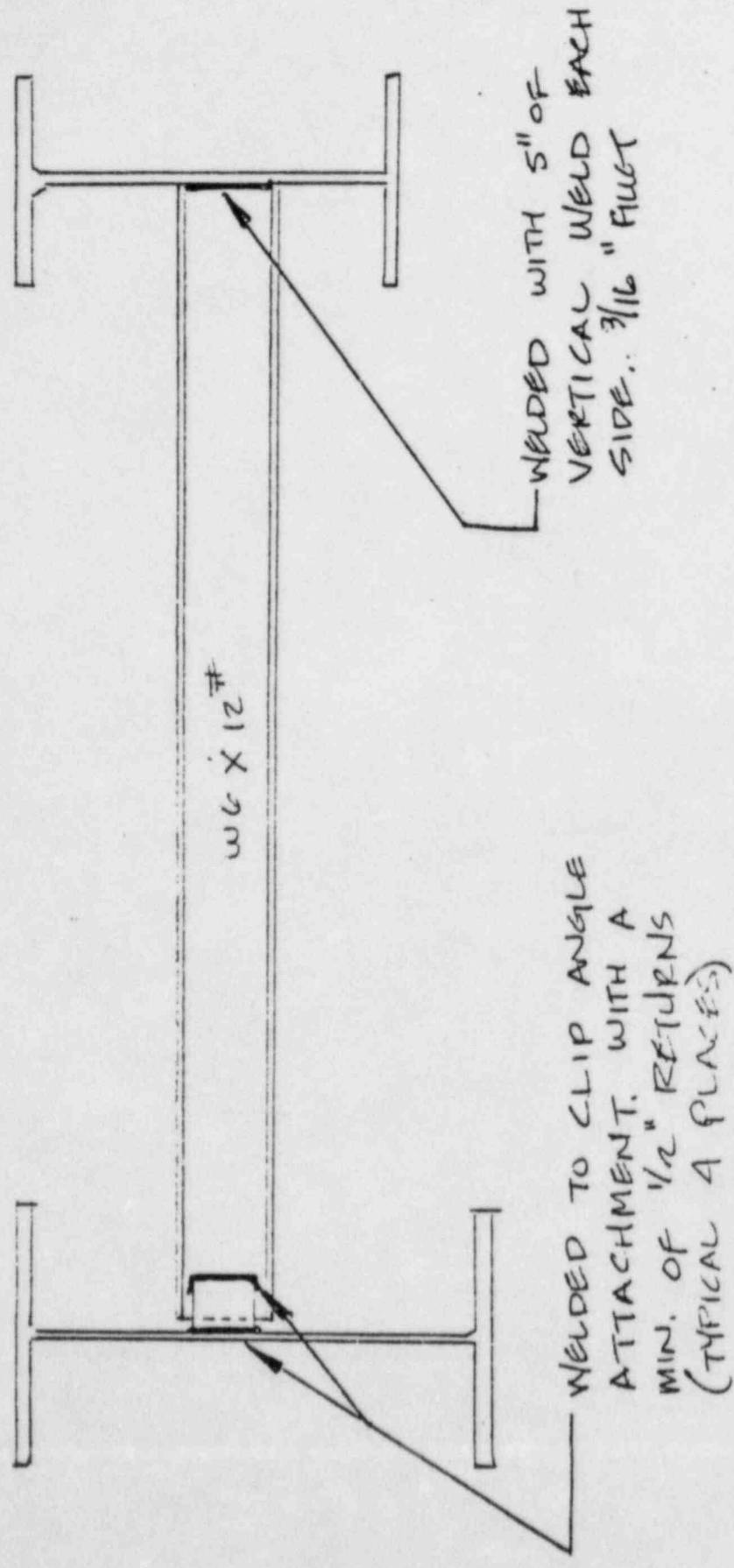
NOTE 12.E.2 ON P. 50 FOR DIRECTIONS OF LOAD BRACING

FIELD TEAM AS A

ATTACHMENT TO NCR C886
INITIALS CA DATE 9-12-83
PG. 2 OF 2



NCR C-906
BDS # 376
PAGE 4 of 4



HANGER 90A
LOOKING SOUTH

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NOTE: THIS NCR SUPERSEDES ZACK
COMPANY NCR C904 ISSUED
BY JWORR ON 8-24-83

NONCONFORMANCE REPORT

ORIGINAL

16 NCR NO.
H-00193-ZZ

17 DATE ISSUED
12-19-83

18 REV
0

19
PAGE 1 OF RECEIVED

APR 21 1984

C. P. Co. Legal

1 ITEM LOCATION Module 210E
Top of Steel 629'-0" Elevation 614'-0"
7'-9" North of K line and 1'-0" East of 7.2 Room 361 Auxillary Building

2 ITEM DRAWING/PART NO. C863 Revision 20 V22 Sh 2 Revision 5/Hanger 10	3 ITEM PART NAME V22 Sh 2 Revision 5/Hanger 10/P6342	4 ITEM SERIAL NO. N/A
--	---	--------------------------

5 ITEM DESCRIPTION

HVAC Duct Support

6 ITEM STARTUP SYSTEM NO. 2GLC	7 REFERENCE DOCUMENT Bechtel Tech Spec 7220-M-151A (Q) Revision 15	8 ASME A.N.I. REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
-----------------------------------	--	---

9 INSPECTION RECORD NO. H-7-A	LOG NO. 1781	REV NO. 1	10 RESPONSIBLE ORGANIZATION The Zack Company
----------------------------------	-----------------	--------------	---

11 NONCONFORMANCE DISCOVERED DURING:

<input type="checkbox"/> DESIGN	<input type="checkbox"/> RECEIVING	<input type="checkbox"/> CONST	<input checked="" type="checkbox"/> RELEASE FOR INSPECT
<input type="checkbox"/> POST INSPECT	<input type="checkbox"/> TURNOVER	<input type="checkbox"/> POST TURNOVER	<input type="checkbox"/> PRE-OP TEST
		<input type="checkbox"/> FINAL TURNOVER	<input type="checkbox"/> OVERINSPECT

12 REQUIREMENT

1. Bechtel Technical Specification 7220-M-151A (Q) Revision 15 Paragraph 10.2.1 states, "Duct hangers and supports shall be fabricated as shown on the drawings." *Due to omission on Zack NCR C904, the above criteria has been added. Detail 7/C898 Revision 16 requires channel to be welded to existing steel with 3/16" fillet weld 2" long on two sides.

13 NONCONFORMANCE

1. Contrary to above, Hanger 10 has the channel welded to a 2" x 2" x 1/4" angle clip and the clip welded to existing steel. Neither Detail 7/C898 Revision 16 or Floor Plan Drawing C863 Revision 20 references the clip used. (see attached sketch)

NOTE: Reference Zack NCR C904 for previous Bechtel disposition.

14 NCR ORIGINATED BY (PERSON)
E Hill 12/19/83
C Hill [Signature] DATE
15 NCR ORIGINATED BY (DISCIPLINE) 12/19/83
MPQAD-HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED) 1	21 LOCATION OF HOLD TAGS V22 Sh 2 Revision 5/Hanger 10/P6342
--	---

22 POTENTIAL 50.55(e) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	24 ACTION ITEM NO. Z0740	26 ITEM PRIORITY CODE NO. 5	28 NCR REVIEWED BY: <u>[Signature]</u>
--	-----------------------------	--------------------------------	---

23 REPORTED TO MPQA MANAGER DATE <u>N/A</u>	25 DISCIPLINE: <u>M</u>	27 TREND CODE <u>N-3</u>	DATE: <u>1-13-84</u>
--	----------------------------	-----------------------------	-------------------------

CONTINUED ON REVERSE

F-2M/1A (Rev 1)

29 CAUSE

CRAFT USED THE ALTERNATE ATTACHMENT DETAIL,
BUT IT WAS NOT REFERENCED ON THE CIVIL
PLAN DRAWING

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. N/A

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

REFER TO BPCO ENGINEERING DISPOSITION OF ZACK NCR C904,
BDS 367 FOR "USE-AS-IS".

33 DISTRIBUTION FOR ACTION

ZACK COMPANY

34 DISPOSITION CONCURRENCE

<u>Blair H. ...</u>	<u>3-22-84</u>	<u>[Signature]</u>	<u>3/26/84</u>	_____	_____
PROJECT FIELD ENGINEER	DATE	MPQAD CONCURRENCE	DATE	PFQCE (ASME)	DATE
_____	_____	_____	_____	_____	_____
LEAD DESIGN ORG	DATE	CP Co SMO (for turned over systems)	DATE	PQAE (ASME)	DATE
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	A.N.I. (ASME)	DATE

35 DISPOSITION ACTION TAKEN

REFER TO BLOCK 31A

36 METHOD OF DISPOSITION ACTION VERIFICATION PER ATTACHED (BDS 367) DOCUMENTATION

RESULT OF DISPOSITION ACTION VERIFICATION IF UNACCEPTABLE, REFERENCE SUPERCEDING NCR NUMBER _____

ACCEPTABLE UNACCEPTABLE

TAG PULLED ON 4/10/84

37 NCR CLOSED BY

Randy Carlson (HS) 4/10/84

MPQAD DATE

A.N.I. (ASME) DATE

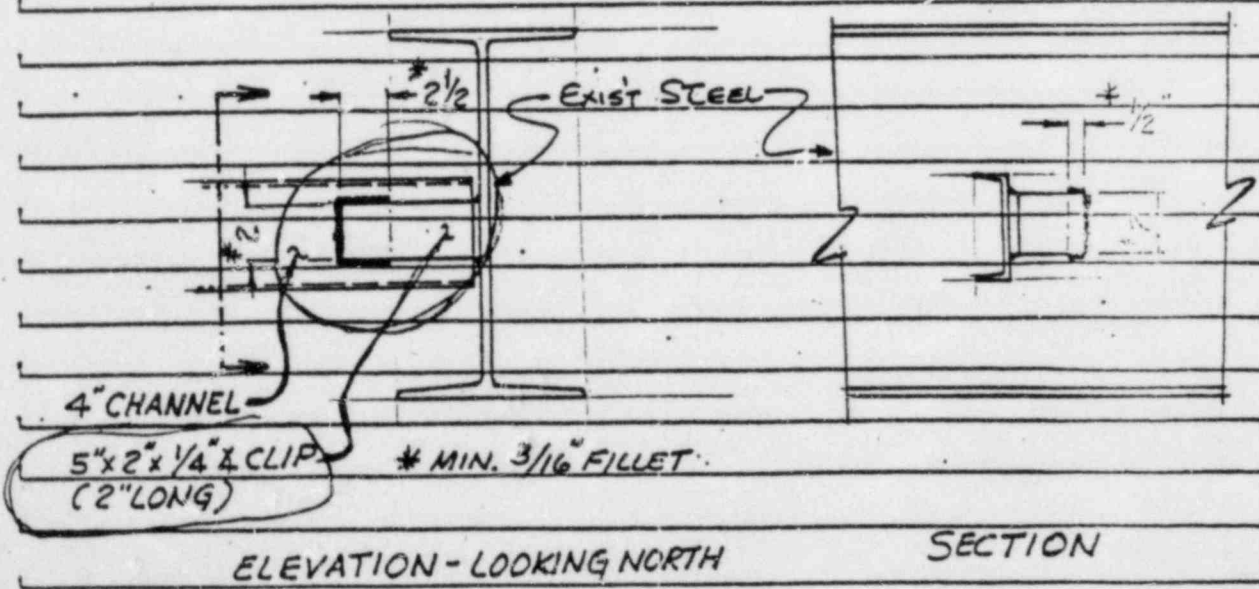
MIDLAND SITE - FIELD ENGINEERS REPORT

Page 5

Originator M.B Date 9/13/83 Report No. 186 Sheet of

TOPIC	ROUTE TO	ACTION	INFO CC
<u>HGR # 10 F6342</u>	<u>Site Proj. Eng.</u>	<u> </u>	<u> </u>
<u>NCR # C 904</u>	<u>Site Proj. Mgr.</u>	<u> </u>	<u> </u>
<u> </u>	<u>Chicago Proj. Mgr.</u>	<u> </u>	<u> </u>
<u> </u>	<u>Chicago Q.A. Dept.</u>	<u> </u>	<u> </u>

THIS NCR WAS A RESULT OF AN OVER INSPECTION OF A PREVIOUSLY ACCEPTED HANGER. ITEMS ON THIS NCR WERE LISTED ON A PREVIOUS NCR (NCR# A 885, CLOSED 4/15/81). THE ACTUAL CUP SIZE IS 2"x5"x 1/4" & 2" LONG.



4" CHANNEL
5"x2"x 1/4" CLIP (2" LONG)
* MIN. 3/16" FILLET.

ELEVATION - LOOKING NORTH

SECTION

ATTACHMENT TO NCR H-00193-22
INITIALS CA DATE 12/19/83
PG. 3 OF 3

Response Ref.

To: TOLLIER CORP

From: PAUL L. ESTER

MPGAD

ZACK CO.

Subject: NCR HCO 24222 + HCO 19322

MESSAGE

PLEASE REVISE THE ABOVE MENTIONED NCR TO INDICATED PREVIOUSLY ACCEPTED STATUS AS DISCUSSED WITH YOU THIS DATE.

Date 2-2-84

Signed

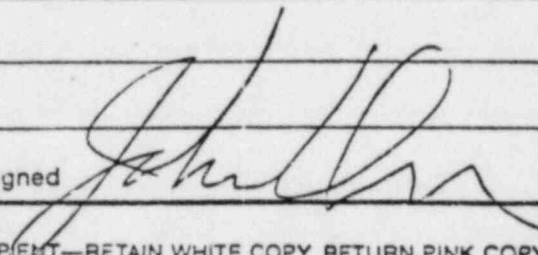


REPLY

No Revision will be made at this time.

Date 2-7-84

Signed



Wilson Jones Company
BRAYLINE FORM 44-800 3-PART
© 1978 - PRINTED IN U.S.A.

RECIPIENT—RETAIN WHITE COPY, RETURN PINK COPY

DRAWING CHANGE NOTICE (DCN)

DRAWING NO.	SHEET NO.	REV.	DCN NO.
C-865(a)	-	9	14

SUS #2GLC

JOB NO. 7220 PAGE 1 OF 2

CHANGE REQUESTED BY: CLIENT ENGINEERING FIELD SUPPLIER/CONTRACTOR

REASON FOR CHANGE: ADD DETAIL TO REFLECT AS BUILT CONDITION
(REF. NCR C-904)

PURCHASE RESPONSIBILITY		AFFECTED PURCHASE ORDERS	PM OR MR PREPARED FOR DCN CHANGE
OFFICE	<input type="checkbox"/> SUPPLIER/CONTRACTOR	N/A	YES
FIELD	<input checked="" type="checkbox"/> NONE REQUIRED		NO

DESCRIPTION OF CHANGE: ADD DETAIL 17 AS SHOWN ON PG. 2 OF 2.

IMPACT OF CHANGE UPON ISSUES

DWG REVISION NO.	9
STARTUP SYSTEMS OR AREAS ≤ 90 DAYS OF TURNOVER, OR AFTER TURNOVER IF AFFECTED BY CHANGES:	
System/Area No.	Hardware Change (Yes or No)
N/A	NO
7220-243	RB

SCG # N/A etc

INSTRUCTIONS REGARDING USED MATERIAL/EQUIPMENT:

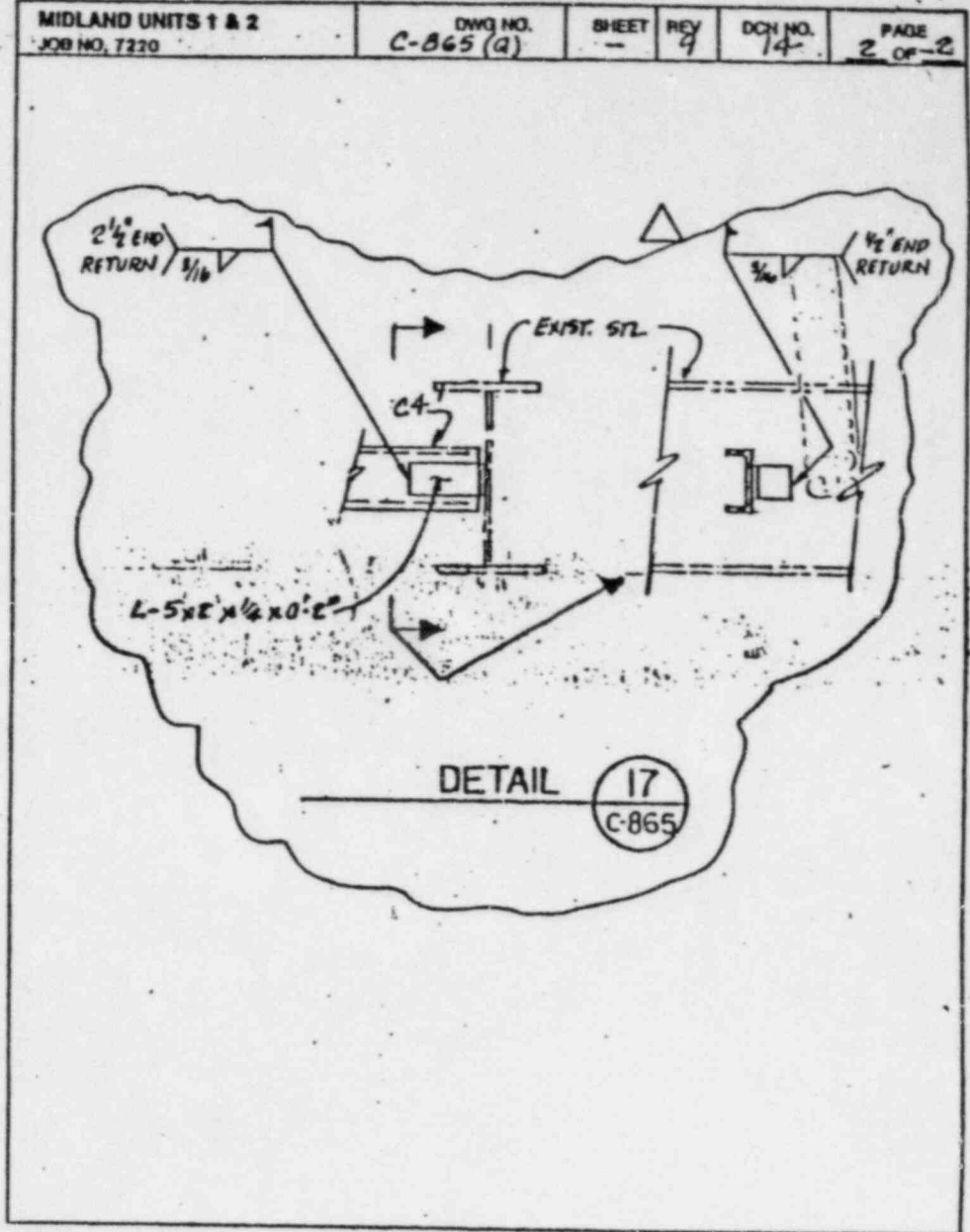
N/A **RECEIVED**
NOV 10 1983

BECHTEL POWER CORP.

JOB 7220
PER 201250 (R) (P) (W)

Incorporates the following change documents:
N/A

ORIGINATOR	APPROVAL	DATE
10-4-83	<i>[Signature]</i> FVR OR SUPVR	11/9/83
CHECKED	<i>[Signature]</i> PE	



7220-187

RECEIVED
NOV 14 1983
700K CONTROLLED

"ZACK"

830824 Y

THE ZACK COMPANY
ENGINEERING DISPOSITION REQUEST

- 1 NCR# C-904
 - 2 Refer to NCR Item # All
 - 3 Bechtel Drawing # C-863, M-522-2
 - 4 Zack Recommendation: Repair Use-As-Is
 - 5 Date 9-14-83
 - 6 Building/Area Aux Room 361
 - 7 Location 7'-9" N/R
13'-6" S/W 1'-0" E / 7.2 APP 629'-0" T
BR 10-26-83
- REFER TO ATTACHED ENR REPORT FOR ACTUAL EXISTING CONDITION

10.

DISPOSITION CONCURRENCE			
REWORK	REJECT	REPAIR	USE-AS-IS
			X

BECHTEL DISPOSITION

11.

Paul J. Walsh 9/20/83
Bechtel Field Engineering Date

12.

B. McCall for C. Hughes 11/4/83
Bechtel Project Engineering Date

- a Bechtel Field Engineering Disposition
- b Bechtel Field Engineering Recommended Disposition To Project Engineering:
EVALUATE ACCEPTABILITY OF EXISTING INSTALLATION TO "USE-AS-IS". SEE PAGE 5 OF 5 FOR SKETCH OF ACTUAL FIELD CONDITIONS.

Project Engineering Disposition:

SEE SHEET 6 OF 6.

DE-STATUS REQUEST

① DATE 8-24-83

Drawing No. C863R20/V22&2R5

Item No. Hg 10

Traveler No. F 6342

- ⑤
- Hanger
 - Duct
 - Equipment
 - Accessories

Reason for Request: Not built per detail - clip used for attaching channel to existing steel is not referenced on detail drawing or the plan drawing.

Originator/Date John W. Orr 8-24-83

Department MPQAD/HVAC/Verification

Received: <u>830831</u>
System: _____
Inspection Complete: <u>830824</u>
Inspection Results Returned: <u>830831</u>
Additional Information: _____
Service Code: <u>1</u>
<u>C863</u> <u>C904</u>

Approved

⑩ Disapproved

MPQAD-HVAC GA Group Supervisor/Date Ron Miller 8-26-83

Alert Item No: 1646X 9283
Priority Code 5 8 vs 2GLC
Trend Code(s) _____
Discipline Code M

THE ZACK CO.

DDS # 26 L 2
PAGE 3 OF 56 P.

NONCONFORMANCE REPORT Pg. 1 of 2

1. REPORT NUMBER C904
1890
1-31-83
2. DATE Aug 24, 1983
3. ITEM/IDENTIFICATION NO. Hg 10 F6342
4. BUILDING & ELEVATION 614 AUX
7'9 N of K ? 1' E of 7.2
5. DRAWING NUMBER C863 Rev 10 / V22 Stc
6. BECHTEL SUPPLIED - YES NO
7. TAG NO. 8260

8. DESCRIPTION OF NONCONFORMANCE:
This NCR has been initiated as a result of overinspection findings. The Non-conformance was not identified at the time ^{cont} page
9.(a) John W. Orr 8-24-83 INITIATOR / DATE
9.(b) Ken Miller 8-26-83 HVAC QA SEC. GROUP SUPERVISOR / DATE

10. CORRECTIVE ACTION PLAN: REFER TO BPEC TO "USE AS IS" w/f
8/12/83

11. [Signature] 11-21-83 ZACK COMPANY PROJECT ENG. / DATE
12. NA ZACK COMPANY PROJECT ADMIN. / DATE
13. [Signature] 11/23/83 HVAC QA SEC. GROUP SUPERVISOR / DATE

14. CONDITIONAL RELEASE: _____
15.(a) _____ ZACK COMPANY PROJECT ENG. / DATE
15.(b) _____ BECHTEL FIELD ENG / DATE ACCEPT REJECT
15.(c) _____ HVAC QA SECTION GROUP SUPER. / DATE ACCEPT REJECT

16. CORRECTIVE ACTION COMPLETE: [Signature] 11-23-83 ZACK COMPANY PROJECT ADMIN. / DATE

17. CORRECTIVE ACTION VERIFICATION: ITEM TRANSFERED TO MPQAD
NCR# H-00193-22 FOR DISPOSITION

18. ACCEPT:
19. [Signature] 12/19/83 INSPECTOR / DATE
20. John W. Orr 1-13-84 HVAC QA SECTION GROUP SUPERVISOR / DATE

Action Item No. 20-1130 ~~X~~ ^{12/83}
 Priority Code 5 Sus 26K
 Trend Code(s) _____
 Discipline Code M

THE ZACK COMPANY
 NONCONFORMANCE REPORT
 (Continuation Sheet)

1. REPORT NUMBER C904
~~C898~~ ⁸⁻³¹⁻⁸³
2. DATE Aug 24, 1983
3. ITEM IDENTIFICATION NO. Hg 10. F6342
4. BUILDING/AREA 614' AUX
5. DRAWINGS C863 Rev 20/V22h2 Rev 3B BECTEL SUPPLIED YES NO

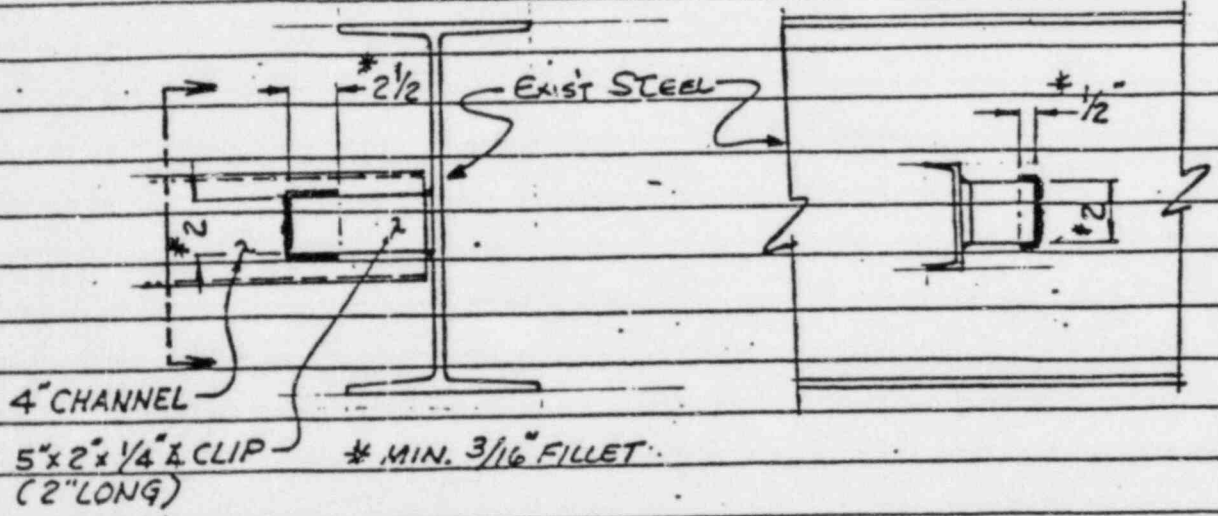
8. DESCRIPTION OF NONCONFORMANCE of inspection. ① Detail 7/C898 requires the channel to be welded to the existing steel with a 3/16" fillet weld 2" long on two sides.
② Contrary to the above, Hanger 10 V22h2 F6342 has the channel welded to a 2x2x1/4" clip and the clip welded to existing steel. Neither the detail drawing (detail 7/C898 Rev 16) nor the floor plan drawing (C863 Rev 20) references the clip used.

10. CORRECTIVE ACTION PLAN _____

Originator M.B Date 9/13/83 Report No. 186 Sheet 10A of 6

TOPIC	ROUTE TO	ACTION	INFO. COF
HGR # 10 F6342	Site Proj. Eng.	<input type="checkbox"/>	<input type="checkbox"/>
NCR # C 904	Site Proj. Mgr.	<input type="checkbox"/>	<input type="checkbox"/> 1-
	Chicago Proj. Mgr.	<input type="checkbox"/>	<input type="checkbox"/>
	Chicago O.A. Dept.	<input type="checkbox"/>	<input type="checkbox"/>

THIS NCR WAS A RESULT OF AN OVER INSPECTION OF A PREVIOUSLY ACCEPTED HANGER. ITEMS ON THIS NCR WERE LISTED ON A PREVIOUS NCR (NCR# A 885, CLOSED 4/15/81). THE ACTUAL CLIP SIZE IS 2"x5"x 1/4" & 2" LONG.



ELEVATION - LOOKING NORTH

SECTION

Response Ref.

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NOTE: THIS NCR SUPERSEDES ZACK
COMPANY NCR A903 ISSUED
BY DSHAAS ON 12-10-80.
NONCONFORMANCE REPORT

ORIGINAL

16 NCR NO. H-00218-ZZ	
17 DATE ISSUED 12-28-83	18 REV 0
19 PAGE <u>1</u> OF <u>4</u>	

1 ITEM LOCATION Module 340J
Reactor Building Unit #2 Elevation 640'-0" Bottom of duct 648'-7"
50'-3" South of Reactor centerline and 26'-6" West of centerline to centerline of duct

2 ITEM DRAWING/PART NO. C919 Revision 4 Hanger 8A V35 (Q) Revision 1	3 ITEM PART NAME V35 (Q) Revision 1/Hanger 8A/F10430	4 ITEM SERIAL NO. N/A RECEIVED
--	---	---

5 ITEM DESCRIPTION
HVAC Duct Support
APR 21 1984
C. P. Co. Legal

6 ITEM STARTUP SYSTEM NO. 2GTC	7 REFERENCE DOCUMENT Bechtel Tech Spec 7220-M151A (Q) Revision 8 FQCP-5 Revision 2	8 ASME A.N.I. REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
-----------------------------------	---	---

9 INSPECTION RECORD NO. H-7-A	LOG NO. 1840	REV NO. 1	10 RESPONSIBLE ORGANIZATION The Zack Company
----------------------------------	-----------------	--------------	---

11 NONCONFORMANCE DISCOVERED DURING:

<input type="checkbox"/> DESIGN	<input type="checkbox"/> RECEIVING	<input type="checkbox"/> CONST	<input checked="" type="checkbox"/> RELEASE FOR INSPECT
<input type="checkbox"/> POST INSPECT	<input type="checkbox"/> TURNOVER	<input type="checkbox"/> POST TURNOVER	<input type="checkbox"/> PRE-OP TEST
		<input type="checkbox"/> FINAL TURNOVER	<input type="checkbox"/> OVERINSPECT

12 REQUIREMENT

- FQCP-5 Revision 2 Paragraph 7.24.1 states in part, "Weld procedures used have been recorded on the traveler." (Blank 12 of ZQF-30)
- Bechtel Technical Specification 7220-M151A (Q) Revision 8 Paragraph 5.18 states, "Marking material: Carboline Company X-1000-90, Amero Company 2032 or Nissen metal marker by Nissen Company."

(continued on page 3)

13 NONCONFORMANCE

- Contrary to above, there is no weld procedure on the traveler for hanger to duct welds.
- Contrary to above, Hanger 8A has black markings with non-traceable material on it.
- Contrary to above, no 10% hanger to duct contact on one side of duct. (see attached sketch)
- Contrary to above, there is no welder identification number on the traveler.
- Contrary to above, there is no traceability for pieces of 2' x 2" x 1/4" (continued on page 3)

14 NCR ORIGINATED BY (PERSON) <i>E Hill</i> 12/28/83
15 NCR ORIGINATED BY (DISCIPLINE) CH11 <i>Rod</i> 12/28/83 MPQAD-HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED) 1	21 LOCATION OF HOLD TAGS V35 (Q) Revision 1/Hanger 8A/F10430
--	---

22 POTENTIAL 50.55(e) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	24 ACTION ITEM NO. Z0719	26 ITEM PRIORITY CODE NO. 5	28 NCR REVIEWED BY: <i>John W. Orr</i>
--	-----------------------------	--------------------------------	--

REPORTED TO MPQA MANAGER DATE <u>N/A</u>	25 DISCIPLINE: M	27 TREND CODE 1) N-6 4) N-6 2) N-3 5) N-6 3) N-3	DATE: 1-11-84
---	---------------------	---	------------------

29 CAUSE

NOT ALL THE REQUIRED INFORMATION WAS PROVIDED ON THE TRAVELER AND CRAFT FAILED TO INSTALL HANGER PER DESIGN REQUIREMENTS.

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. N/A

31 RECOMMENDED DISPOSITION

REMORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

13/84
ITEMS ①, ②, ③ REVIS TRAVELER AS REQUIRED TO PROVIDE NECESSARY INFORMATION.
ITEMS ④, ⑤ REWORK HANGER AS REQUIRED. ⑥ REMOVE ALL HGR. MEMBERS EXCEPT SFT 4/17/84
3" x 3" x .25" F.S. SFT 4/17/84
SEE NCR # A-903 FOR CORRECTIVE ACTION TAKEN TO CORRECT THESE NONCONFORMING CONDITIONS. CONTINUED ON SHEET 3 OF 4

33 DISTRIBUTION FOR ACTION

BACK

34 DISPOSITION CONCURRENCE

<u>[Signature]</u> PROJECT FIELD ENGINEER	<u>4-17-84</u> DATE	<u>[Signature]</u> MPQAD CONCURRENCE	<u>4-3-84</u> DATE	<u>[Signature]</u> PFQCE (ASME)	<u>4-17-84</u> DATE
				<u>[Signature]</u> PQAE (ASME)	<u> </u> DATE
<u> </u> LEAD DESIGN ORG	<u> </u> DATE	<u> </u> CP Co SMO (for turned over systems)	<u> </u> DATE	<u> </u> A.N.I. (ASME)	<u> </u> DATE

35 DISPOSITION ACTION TAKEN

SFT 4/13/84
ITEMS ①, ②, ③ TRAVELER HAS BEEN REVISED AS REQUIRED.

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE SUPERCEDING NCR NUMBER

37 NCR CLOSED BY

MPQAD DATE

A.N.I. (ASME) DATE

ORIGINAL

NONCONFORMANCE REPORT
CONTINUATION SHEET

NCR NO.
H-00218-ZZ

DATE ISSUED
12-28-83

REV
0

PAGE 3 OF 4

12. REQUIREMENT (continued from page 1)

3. C850 Revision 12 Note 9 states in part, "For rectangular ducts, the hanger supporting members shall be in contact with each face of the duct. The contact shall be either at least 10% of a face in line contact with the hanger or both corners of a face in line contact with the hanger."

4. FQCP-5 Revision 2 Paragraph 7.24.1 states in part, "Welder identification numbers, and weld procedures used have been recorded on the traveler."

5. FQCP-5 Revision 2 Paragraph 7.24.1 states in part, "The MCN's for material used have been recorded on the traveler."

13. NONCONFORMANCE (continued from page 1)

5. angle iron as shown on the traveler.

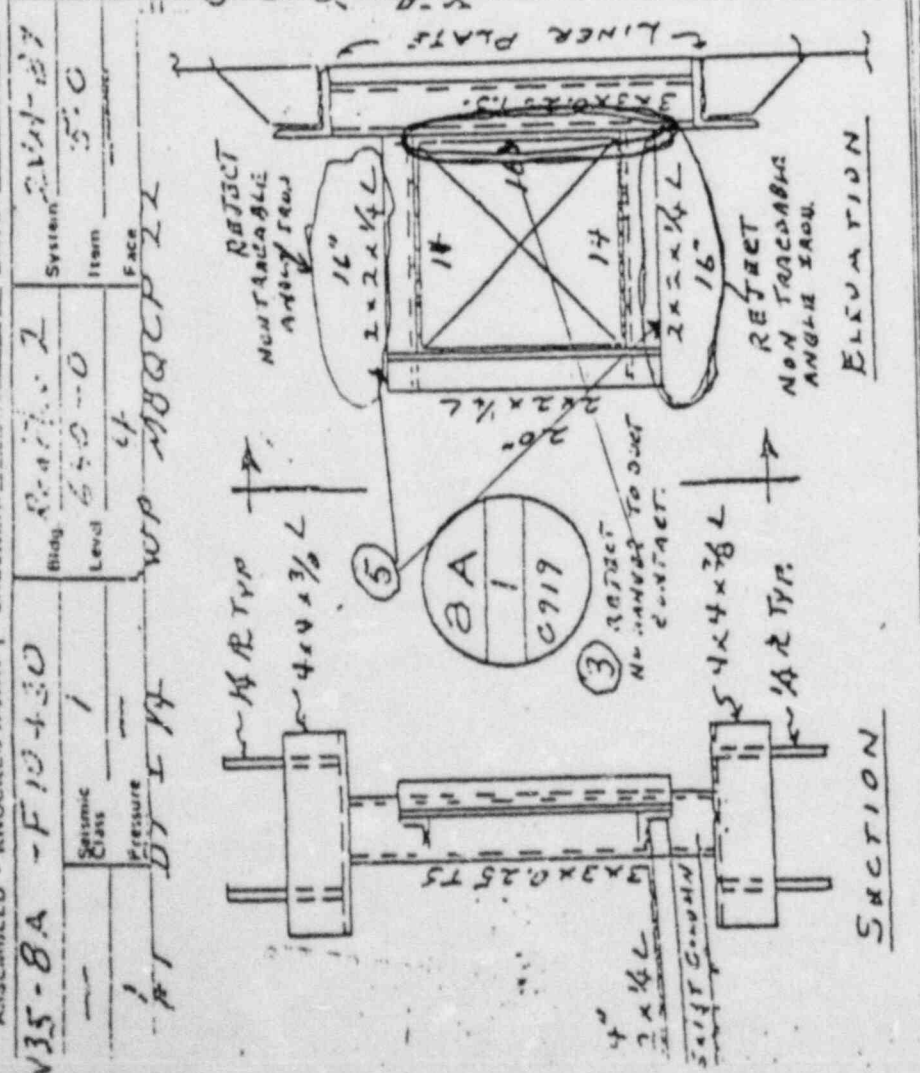
NOTE: See Zack NCR A903 for disposition of nonconforming items.

BLOCK 31A (CON'T)

SFT 4/17/84

(3) REMOVE 2" x 2" x 1/4" (CAPTURE 4'S)

CUTTING LIST	QUANTITIES	
	SHEET	ANGLE
① NO WELD PROCEDURE FOR HANGER TO DUCT WELDS		
② HAS BLACK MARKER MARKINGS		
③ NO HANGER TO DUCT CONTACT ON SOUTHWEST SIDE OF DUCT		
④ NO WELDER I.D. ON TRAVELER		
⑤ NO TRAKABILITY FOR PIECES MARKED 2x2x $\frac{1}{4}$ x16"		



QUALITY ASSURANCE	OFFICE USE ONLY			
	QUANTITY	@	WEIGHT	FABRICATION PRICE AMOUNT
TICKET NO. <u>F10430</u>				
BL NO. <u> </u>				
RON L. NO. <u> </u>				
DATE <u>12-11-79</u>				
FINAL COPY <u> </u>				
BY TICKET <u> </u>				
TOTALS				\$ <u> </u>

REJECT
 DSA 12-11-79

DESCRIPTION
 2x2x $\frac{1}{4}$ I.S. 2584
 2x2x $\frac{1}{4}$ A 2587

DSA 12-11-79

REPORT NUMBER R A903

"CONDITIONALLY RELEASED" To remove long. burr and rework add. panel welds JSC 1-5-83

2. DATE 12-5-80

3. ITEM PART NUMBER Hanger 84

4. AREA / BUILDING 640 REACTOR II

5. DRAWING NUMBER V35

6. OWNER FURNISHED MATERIAL OR EQUIPMENT YES NO

7. Q. LISTED YES NO

8. DESCRIPTION OF NON CONFORMANCE: ① NO WELD PROCEDURE ON TRAVELER - FOR WELDER TO DUCT
WELDER 7.24.11 ② HANGER HAS BLACK MARKING MARKINGS (M151.5 15) ③ NO ICS: HANGER
TO DUCT ON ONE SIDE OF DUCT (CSG) W/IC 9 ④ NO WELDER I.D. ON TRAVELER (7.24)
⑤ NO TRAVELER ICS PIECE MARKED 2x2x1/4 x 16" ON TRAVELER (FILES 7.24.1)

9. REPORTED BY D. H. ... TRD 12-10-82

10. RECOMMENDED CORRECTIVE ACTION ① PUT PROCEDURE ON TRAVELER ② REMOVE black
markings ③ HANGER TO MAKE CONTACT REQ. ④ PUT WELDER I.D. ON
TRAVELER ⑤ ICS OF MATERIAL, TRACEABILITY, OR SCRAP

11. QC INSPECTOR / DATE D. H. ... 12-5-80

12. QC MANAGER / DATE R. L. ... 11/10/80

13. PROJECT MANAGER / DATE D. S. ... 12/11/80

14. CORRECTIVE ACTION TAKEN: ① WELD PROCEDURES ADDED TO TRAVELER.
② REMOVE BLACK MARKINGS. ③ REWORK HANGER TO MEET
CONTACT REQUIREMENT. WPS-3, WELDER'S I.D. H 13 MRI ④ WELDER'S
I.D. ADDED TO TRAVELER. ⑤ MCH FOR ALL 60x2x1/4 IN
THIS HANGER IS 887. RWH 12.16.80
RBW 12-16-80

15. PROJECT ENGINEER / DATE [Signature] 11/10/80

16. PROJECT MANAGER / DATE

17. VERIFICATION OF CORRECTIVE ACTION TAKEN:

18. ACCEPTED REJECTED

19. QC INSPECTOR / DATE

20. MANAGER / DATE

THE ZACK CO.

Pg. ____ of ____

NONCONFORMANCE REPORT

(SUPPLEMENTAL SHEET)

(For use with NCR's issued per QCP-8 or FQCP-8 only)

1. REPORT NUMBER A 903

2. through 9 intentionally omitted.

10. CORRECTIVE ACTION PLAN: ⑤ CONT'D A 2x2x1/4x24" LONG BRAKE REMOVED AND
REWORKED. INSTALL NEW 2x2x1/4x36" LONG BRAKE PER DET 1/C919(G) R10
WPS 2-1-2 WELDED L.D. HV CS4 M.P. 7/12/83

11. [Signature] 7-13-83 12. NA
ZACK COMPANY PROJECT ENG. / DATE

13. [Signature] 7-14-83
HVAC QA SEC. GROUP SUPERVISOR / DATE

14. CONDITIONAL RELEASE: _____

15.(a) _____ ZACK COMPANY PROJECT ENG. / DATE

15.(b) _____ BECHTEL FIELD ENG. / DATE ACCEPT
REJECT

15.(c) _____ HVAC QA SECTION GROUP SUPER. / DATE ACCEPT
REJECT

16. CORRECTIVE ACTION COMPLETE: _____
ZACK COMPANY PROJECT ENG./DATE

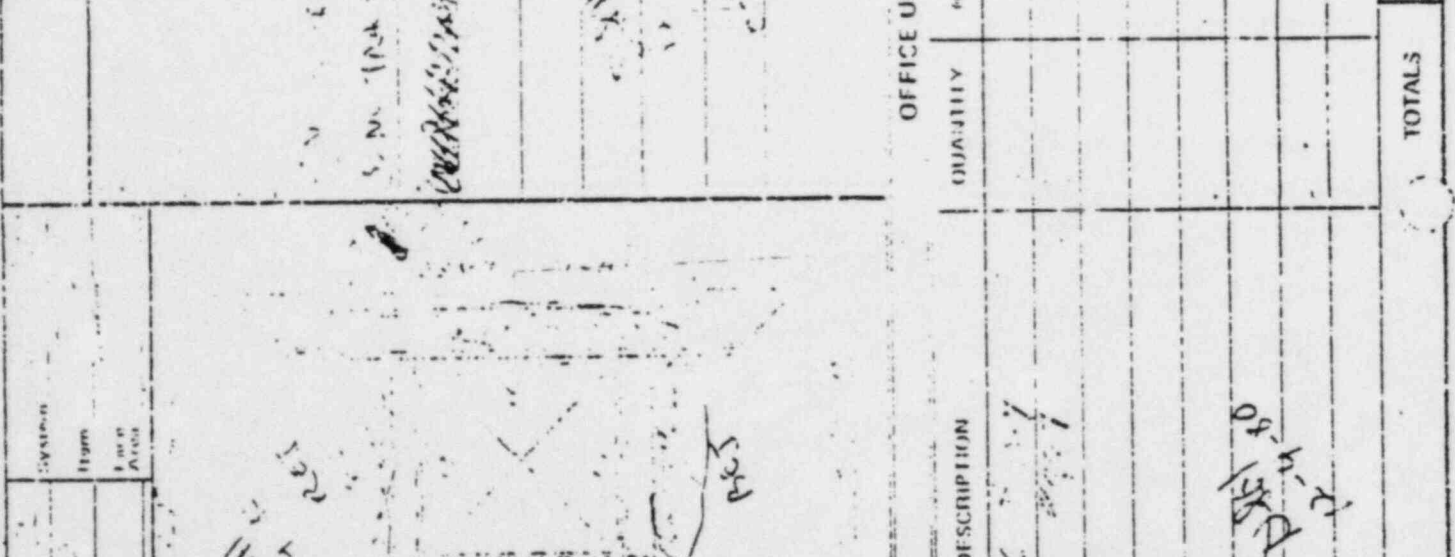
17. CORRECTIVE ACTION VERIFICATION: _____

18. ACCEPT:

19. _____ INSPECTOR / DATE

20. _____ HVAC QA SECTION GROUP SUPERVISOR / DATE

ASSEMBLED - KNOCKED DOWN | CHECKER: _____
V. S. - 8
HYDRA-CLASS
PRESSURE CLASS



CUTTING LIST		QUANTITIES	
ITEM	ANGLE	QUANTITY	PRICE
1/2" x 1/8" x 16"			
NO. 1 P&S QUALITY FOR P&S MARKED 2X 2 1/4 X 16"			

OFFICE USE ONLY

QUANTITY	PRICE	FABRICATION AMOUNT	EJECTION AMOUNT	TOTALS

QUALITY ASSURANCE
TICKET (VOID)
CATHOD NO.
SOLE FROM CATHOD NO.
LDH
P-FEEDOR
P-FING, FINAL ECTION
P-FITY TICKET
P-FIFE CEIVING

RET
P&S 12-4-86

REASON

REASON	RET	ACC	WELD
	0	2	2
	0	2	2
	0	4	4
	0	2	2
	0	10	10
	0	10	10
	0	2	2

32 WELD
 32 ACC
 0 RET

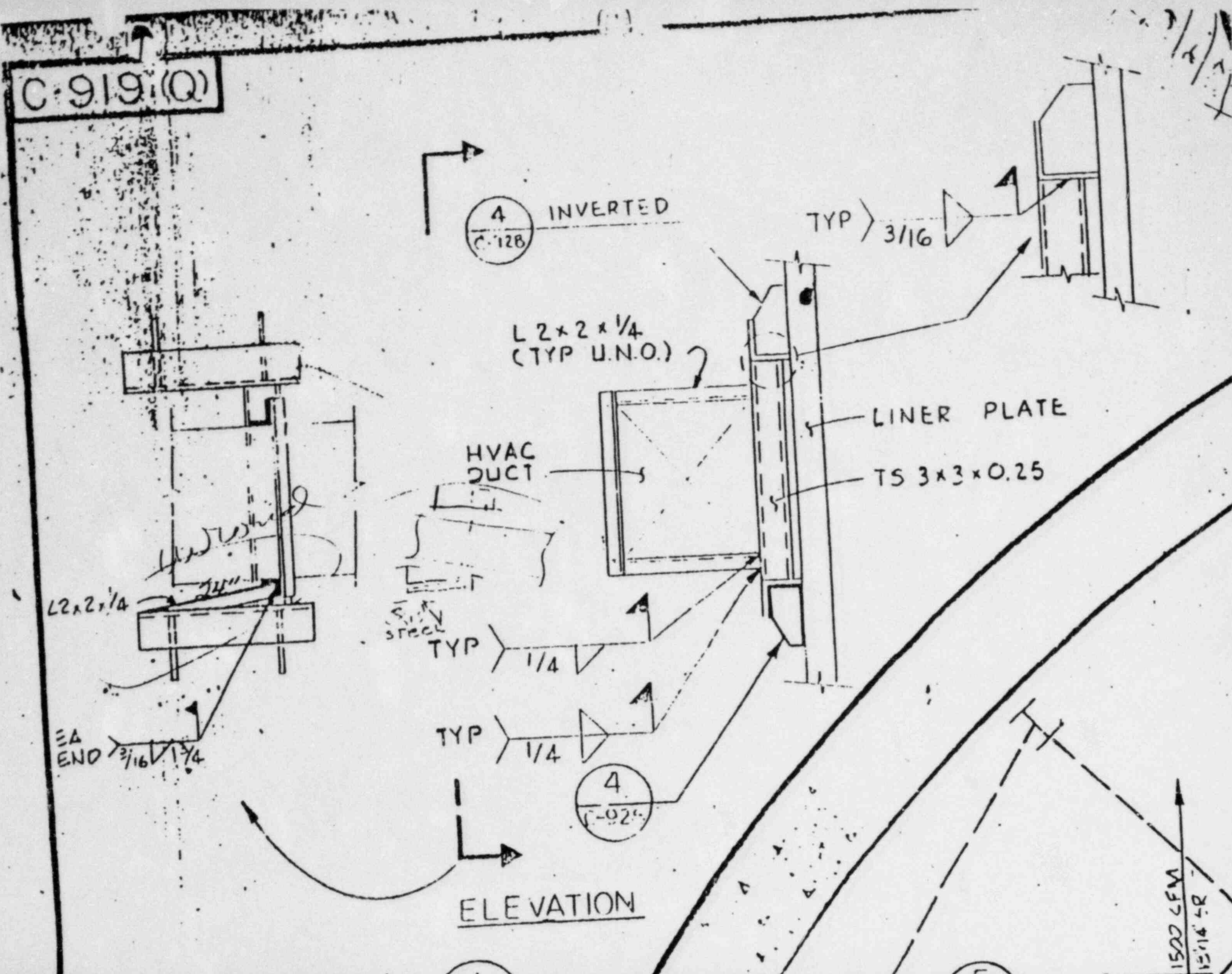
PH
 12-4-80

HANGER TO DUCT WELD

5 WELD
 5 ACC
 0 RET



C-919 (Q)



ELEVATION

1500 CFM
15'14" 4R

202

S.U.S. # 2GTC

DRAWING CHANGE NOTICE (DCN)

DRAWING NO.	SHEET NO.	REV	DCN NO.
C-919(Q)	—	6	11

JOB NO. 7220 PAGE 1 OF 3

CHANGE REQUESTED BY: CLIENT ENGINEERING FIELD SUPPLIER/CONTRACTOR

REASON FOR CHANGE: DISCONNECTION OF HVAC SUPPORT FROM STRUC. STEEL

MATERIAL PROCUREMENT RESPONSIBILITY <input type="checkbox"/> BECHTEL OFFICE <input type="checkbox"/> SUPPLIER/CONTRACTOR <input type="checkbox"/> BECHTEL FIELD <input checked="" type="checkbox"/> NONE REQUIRED <input type="checkbox"/> CLIENT	AFFECTED PURCHASE ORDERS	PM OR MR PREPARED FOR DCN CHANGE
	N.A.	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
		No

DESCRIPTION OF CHANGE:
 REMOVE HOLD FROM DET 1/C-919
 REVISE DET. 1/C-919 AS SHOWN ON SHT 2 OF 3
 REVISE PLAN AS SHOWN ON SHT'S 2, 3 OF 3

EFFECTIVITY OF CHANGE: UPON ISSUE

DRAFTING PRINT

RWS # N/A

DWG REVISED NO.	<u>6</u>
STARTUP SYSTEMS ≤ 90 DAYS OF TURNOVER, OR AFTER TURNOVER IF AFFECTED BY CHANGES:	
System No.	Hardware Change (Yes or No)
<u>N.A.</u>	<u>No</u>
_____	_____
_____	_____
_____	_____

7220-242

INSTRUCTIONS REGARDING USED MATERIAL/EQUIPMENT: N.A.

RECEIVED

MAY 27 1982

ZACK CONTROLLED

RECEIVED

MAY 25 1982

ZACK CO.
FIELD USE PRINT
MIDLAND

BECHTEL POWER CORP.
JOB 7220
PER 155598

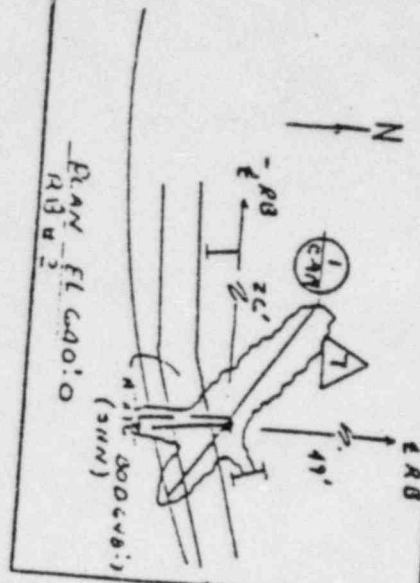
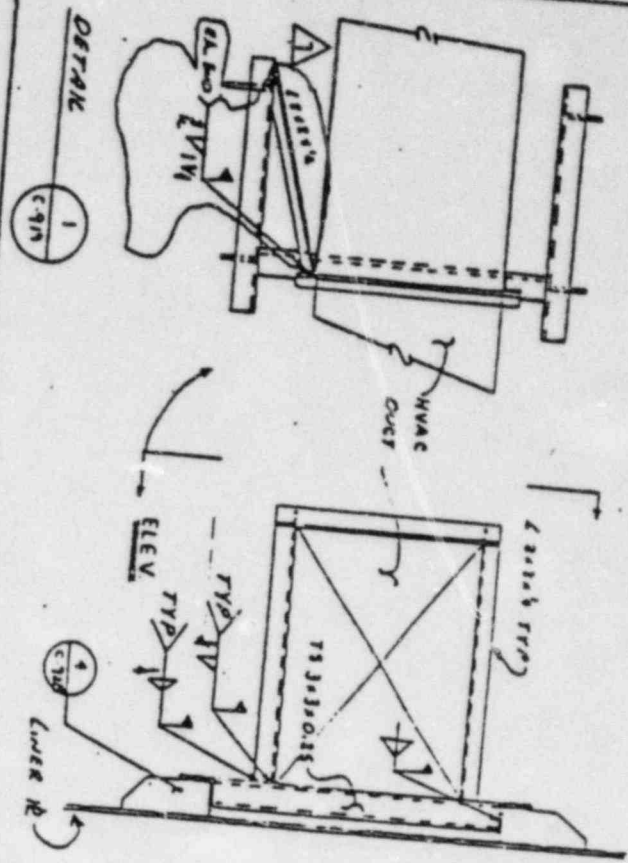
CONTROLLED

ORIGINATOR	APPROVAL	DATE
W. JESSIE MAY 62	J.A.S. 5-4-82 S.S. CHECKED	5/4/82
	GR SUPVR	PE

SG APPROVED
JAC

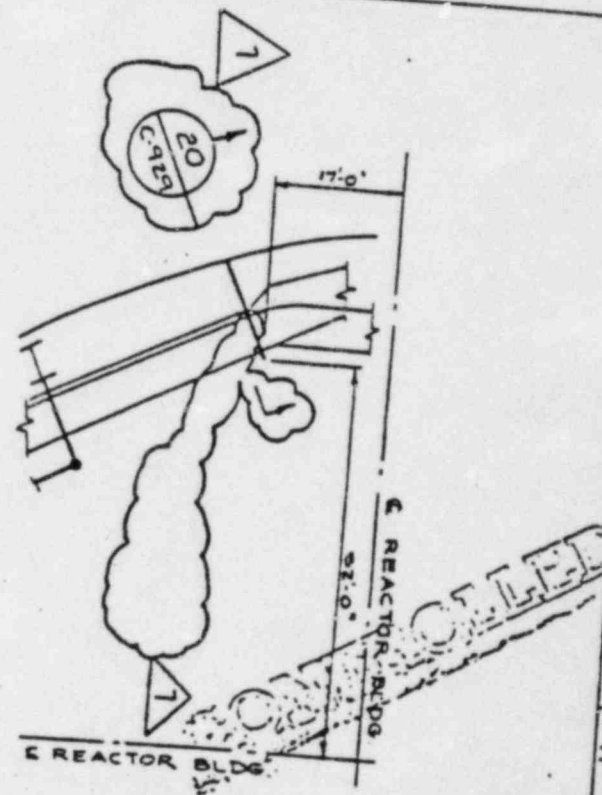
MIDLAND UNITS 1 & 2
JOB NO. 7220

DWG. NO. C-919(a)
SHEET 6
REV. 6
DCN. NO. 11
PAGE 2 OF 2



MIDLAND UNITS 1 & 2
JOB NO. 7220

DWG. NO. C-919(a)
SHEET 6
REV. 6
DCN. NO. 11
PAGE 2 OF 2



PLAN BETWEEN EL. 640'-0" & 659'-0"

DRAFTING PRINT

RECEIVED

MAY 27 1982

ACK. CONTROLLED

ZACK CO.
FIELD USE PRINT
MIDLAND

7220-117

THE ZACK CO.

Pg. ____ of ____

NONCONFORMANCE REPORT

(SUPPLEMENTAL SHEET)

(For use with NCR's issued per QCP-8 or FQCP-8 only)

1. REPORT NUMBER

A90

2. through 9. _____ omitted.

10. CORRECTIVE ACTION PLAN: ADDITIONAL ACTION: ...

11. ZACK COMPANY PROJECT ENG. / DATE

12. _____

13. HVAC QA SEC. GROUP SUPERVISOR / DATE

14. CONDITIONAL RELEASE: _____

15.(a) ZACK COMPANY PROJECT ENG. / DATE

15.(b) _____
BECHTEL FIELD ENG. / DATE

ACCEPT
REJECT

15.(c) _____
HVAC QA SECTION GROUP SUPER. / DATE

ACCEPT
REJECT

16. CORRECTIVE ACTION COMPLETE: _____

ZACK COMPANY PROJECT ENG./DATE

17. CORRECTIVE ACTION VERIFICATION: _____

18. ACCEPT:

19. _____
INSPECTOR / DATE

20. _____
HVAC QA SECTION GROUP SUPERVISOR / DATE

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NOTE: THIS NCR SUPERSEDES ZACK
COMPANY NCR D75 ISSUED BY
GFMORGAN ON 9-11-82.
NONCONFORMANCE REPORT

ORIGINAL

16 NCR NO.
H-00259-ZZ

17 DATE ISSUED
1-10-84

18 REV
0

19

PAGE 1 OF 2

1 ITEM LOCATION Module 260C

11'-7" North of "Kc" line 7'-2" East of 5.9 695'-6" Bottom of duct

2 ITEM DRAWING/PART NO. Equipment
V27 Sh 3 Revision 8 OMO-
M527 Sh 3 Revision 12 6509A

3 ITEM PART NAME

F14375

4 ITEM SERIAL NO.

OMO6509A/ OMO6509A
RECEIVED

APR 21 1984

C. P. Co. Legal

6 ITEM STARTUP SYSTEM NO.
OGLH

7 REFERENCE DOCUMENT Zack Field Procedures
MB-FP-7 Revision 1

8 ASME A.N.I. REQUIRED
 YES NO

9 INSPECTION RECORD NO.
H-7-C

LOG NO.
40

REV NO.
1

10 RESPONSIBLE ORGANIZATION
The Zack Company

11 NONCONFORMANCE DISCOVERED DURING:

DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST INSPECT TURNOVER POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT

MB-FP-7 Revision 1 The Zack Company Procedure for document control Part 7.6 titled Zack Company travelers, sub-part 7.6.3.11, which states in part, "...enter in blank 22 a drawing or reference to a drawing of sufficient detail to facilitate fabrication and/or installation..."

13 NONCONFORMANCE

Contrary to the requirement, Equipment OMO6509A has been installed without the proper vendor drawing being referenced on the traveler (F14375). The reference of vendor drawing M347-55-5 on traveler F14375 is to a Bechtel Company data sheet (attachment 2, 7220-M347 (Q) Revision 3) which does not detail installation parameters, tolerances, clearances, etc...

14 NCR ORIGINATED BY (PERSON)

KM Clements 1/29/84
DATE

15 NCR ORIGINATED BY (DISCIPLINE)

MPQAD-HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED)

1

21 LOCATION OF HOLD TAGS

V27 Sh 3 Revision 8/Equipment OMO6509A/F14375

22 POTENTIAL 50.55(e)

YES NO

24 ACTION ITEM NO.

20760

26 ITEM PRIORITY CODE NO.

5

28 NCR REVIEWED BY: Rob

23 REPORTED TO MPQA MANAGER

DATE 1/17

25 DISCIPLINE:

M

27 TREND CODE

N-6

DATE:

1-17-84

CONTINUED ON REVERSE

F-2M/1A (Rev 1)

29 CAUSE

INCORRECT VENDOR DRAWING WAS REFERENCED ON THE TRAVELER

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. N/A

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

REVISE TRAVELER AS REQUIRED. SEE TRAVELER ADDENDUM F-14375-2 ISSUED 10-5-83 TO CORRECT THIS NONCONFORMING CONDITION.

33 DISTRIBUTION FOR ACTION

MPQAD

34 DISPOSITION CONCURRENCE

[Signature] 2-1-84 [Signature] 2/6/84
PROJECT FIELD ENGINEER DATE MPQAD CONCURRENCE DATE

PFQCE (ASME) DATE

PQAE (ASME) DATE

LEAD DESIGN ORG DATE CP Co SMO (for turned over systems) DATE

A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

TRAVELER HAS BEEN REVISED AS NOTED IN BLOCK 31A.

36 METHOD OF DISPOSITION ACTION VERIFICATION

Document Review

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE SUPERCEDING NCR NUMBER _____

Reference F14375-1

37 NCR CLOSED BY

[Signature] 4-11-84
MPQAD DATE

A.N.I. (ASME) DATE

THE ZACK CO.

N-6

NONCONFORMANCE REPORT Pg. 1 of 2

- 1. REPORT NUMBER D75
- 2. DATE 9/10/82
- 3. ITEM/IDENTIFICATION NO. QMO 6509A
- 4. BUILDING & ELEVATION AUXILIARY, 685'0"
- 5. DRAWING NUMBER V275H3, C874 (OGLH)
- 6. BECHTEL SUPPLIED - YES NO ^{9/14/82}
- 7. TAG NO. 02771

TAG APPLIED TO EQUIP. 9/10/82 *Mem*

8. DESCRIPTION OF NONCONFORMANCE:

CONTRARY TO THE REQUIREMENTS OF MR-FP-7REV1 THE ZACK COMPANY PROCEDURE FOR DOCUMENT CONTROL, PART 7.6 ZACK CO. TRAVELERS, SUBPART 7.6.3.11 WHICH STATES...

- 9.(a) Ray B. Morgan 9/10/82 INITIATOR / DATE
- 9.(b) Ken Miller 9-11-82 HVAC QA SEC. GROUP SUPERVISOR / DATE

10. CORRECTIVE ACTION PLAN: Addendum F14375-1 Corrects drawing reference DJH 6-30-83

- 11. [Signature] 7-25-83 ZACK COMPANY PROJECT ENG. / DATE
- 12. na ZACK COMPANY PROJECT ADMIN. / DATE
- 13. _____ HVAC QA SEC. GROUP SUPERVISOR / DATE

- 14. CONDITIONAL RELEASE: _____
- 15.(a) _____ ZACK COMPANY PROJECT ENG. / DATE
- 15.(b) _____ BECHTEL FIELD ENG. / DATE ACCEPT REJECT
- 15.(c) _____ HVAC QA SECTION GROUP SUPER. / DATE ACCEPT REJECT

16. CORRECTIVE ACTION COMPLETE: _____ ZACK COMPANY PROJECT ADMIN. / DATE

17. CORRECTIVE ACTION VERIFICATION: This NCR has been superseded by MROAD NCR H00259 E

- 18. ACCEPT:
- 19. [Signature] 1-17-84 INSPECTOR / DATE
- 20. [Signature] 1-17-84 HVAC QA SECTION GROUP SUPERVISOR / DATE

THE ZACK COMPANY
NONCONFORMANCE REPORT
(Continuation Sheet)

Pg. 2 of 2

1. REPORT NUMBER D75 TAG #02771

2. DATE 9/10/82

3. ITEM IDENTIFICATION NO. OMO6509A 4. BUILDING/AREA AUXILIARY, 685'0"

5. DRAWINGS V275H3, C894 (FLOOR PLAN) OGLH 6. BECTEL SUPPLIED YES NO

8. DESCRIPTION OF NONCONFORMANCE [“] ENTER IN BLANK 22 A DRAWING OR REFERENCE TO A
DRAWING OF SUFFICIENT DETAIL TO FACILITATE FABRICATION AND/OR INSTALLATION...
EQUIPMENT OMO 6509A HAS BEEN INSTALLED WITHOUT THE PROPER VENDOR DRAW-
ING BEING REFERENCED ON THE TRAVELER (F14375). THE REFERENCE OF VENDOR
DRAWING M347-55-5 ON TRAVELER F14375 IS TO A BECTEL CO. DATA SHEET
(ATTACHMENT 2-7220-M-347 (Q) REV 3), WHICH DOES NOT DETAIL THE INSTALLATION
PARAMETERS, TOLERANCES, CLEARANCES, ETC... CORRECTIVE ACTION PLAN SHOULD ENTAIL
THE LISTING OF THE PROPER VENDOR DRAWING NUMBER ON THE TRAVELER, THE VENDOR SIZE
SCHEDULE NUMBER AND THE VENDOR INSTALLATION, OPERATION & MAINTENANCE MANUAL
NUMBER.

10. CORRECTIVE ACTION PLAN _____

IP: ASSEMBLED KNOCKED DOWN | CHECKER: D.S. DATE: 5-22-81 DRAWN BY: R. MANN DATE: 5-22-81

Welding	1975H3 @ R-41	Bldg.	AVX	System	ADM-21A
Welding	N.A.	Level	685'-0"	Item	N.A.
Req	1	Area	3	Face Area	N.A.

CUSTOMER: _____ DIMENSIONAL TOLERANCES: ± 1/4 _____
 WELDING PROCEDURE(S): WPS N.A.

INSTALL DAMPER # O.M.O. 6509A
 PBR-VENDOR DWG. 17347-55-5

↑
 REFERENCES A DATA SHEET NOT A VENDOR DRAWING FROM 9/10/82

CUTTING LIST	QUANTITIES	
	SHEET	ANGLE
QC HOLD POINT:		
QC INSPECT PRIOR TO RELEASE FROM FAB SHOP		
QC HOLD POINT: <i>65-27-SI</i>		
inspection prior to any weld becoming inaccessible		
QC HOLD POINT: inspection after installation		

QUALITY ASSURANCE		OFFICE USE ONLY					
TOP TICKET APPROVED	DESCRIPTION	QUANTITY	WEIGHT	FABRICATION		ERECTION	
				PRICE	AMOUNT	PRICE	AMOUNT
<u>RW4 5-26-81</u> <u>Am 5-26-81</u>	W EQUIPMENT INSTALLED WITHOUT PROPER TRAVELER REFERENCE TO APPLICABLE VENDOR DRAWINGS FROM 9/10/82						
CONTROL NO.							
ANGLE IRON CONTROL NO.							
ELDER							
SPECTOR							
SHIPPING, FINAL INSPECTION							
QUANTITY - RMS THIS TICKET							
IR SITE RECEIVING	<u>Id Fab</u>						
		TOTALS		\$			

QC INSPECTION ONLY
 ATTACHMENT TO PBR TO
 INITIALS & DATE 9/10/82

This drawing and the design it covers are the property of BECHTEL. They are merely loaned and on the borrower's express agreement that they will not be reproduced, copied, issued, exhibited, or used in any way in the limited way and private use permitted by any written consent given by the lender to the borrower.

INSTRUMENT TAG NO.			OFV-6520A,B (2)	OMO-6504A,B (2)	OFV-6505A,B (2)	OMO-6529A (1)				
SERVICE AND FUNCTION:			CK MAKE UP WITH FILTER UNIT INTAKE MODULATING DAMPERS				CK MAKE UP WITH FILTER UNIT INTAKE SHUT-OFF DAMPERS	CK MAKE UP WITH AIR FILTER UNIT SUPPLY AIR FILTERS SHUT-OFF DAMPERS	CK MAKE UP WITH AIR FILTER UNIT SUPPLY AIR FILTERS SHUT-OFF DAMPERS	
CONFIGURATION TYPE:			2		4A		2		1A	
CONSTRUCTION CLASS:			B		B		B		B	
LEAKAGE:			II 13.3 scfm		II 42 scfm		II 52 scfm		II 67 scfm	
GROUP:			AT OPER. ④		II		II		II	
DAMPERS:			16x16"		24x12"		24x18"		18x30"	
DUCT:			16x16"		24x12"		24x18"		18x30"	
ORIENTATION:			VERTICAL		HORIZ.		VERT.		HORIZ.	
FRAME:			VERTICAL		HORIZ.		VERT.		HORIZ.	
BLADES:			VERTICAL		HORIZ.		VERT.		HORIZ.	
CONTROL MODE:			MODULATING		TWO POSITION		MODULATING		TWO POSITION	
OPERATING CONDITION:			NORMAL		OPEN		CLOSED		OPEN	
MAXIMUM AIR FLOW - SCFM:			VELOCITY		2000		1125		2000	
DAMPERS DESIGN TEMPERATURE:			MINIMUM		-10 °		96 °		-10 °	
MAXIMUM			96 °		-10 °		96 °		72 °	
OPERATING PRESSURE DROP CLOSED:			OPERATING		4.5"		4.5"		4.5"	
MAXIMUM			4.5"		4.5"		4.5"		4.5"	
OPERATING PRESSURE DROP OPEN:			DESIGN		.15"		.05"		.15"	
MAXIMUM			.05"		.15"		.05"		.15"	
OPERATING TIME (2):			OPEN		9.3 sec		9 sec		9.3 sec	
CLOSED			9.3 sec		9 sec		9.3 sec		9 sec	
TORQUE (2):			STATIC		35"		57"		20"	
DYNAMIC			20"		77"		97"		7"	
SEISMIC ACCELERATION:			HORIZONTAL		SEE ATTACH. 8		SEE ATTACH. 8		SEE ATTACH. 8	
VERTICAL			SEE ATTACH. 8		SEE ATTACH. 8		SEE ATTACH. 8		SEE ATTACH. 8	
MINIMUM NATURAL FREQUENCY:			3x10 ³ cps		3x10 ³ cps		3x10 ³ cps		3x10 ³ cps	
INTEGRATED RADIATION EXPOSURE:			3x10 ³ rads		3x10 ³ rads		3x10 ³ rads		3x10 ³ rads	
TYPE OF INSTALLATION:			FLANGED		FLANGED		FLANGED		FLANGED	
SECTIONS:			NUMBER ③		WEIGHT EACH ②		NUMBER ③		WEIGHT EACH ②	
BLADE TYPE ③:			AIRFOIL		2		AIRFOIL		1	
NUMBER			1X1		64		1X1		70	
ACTUAL ③			2		1		2		4	
BLADE SPACING:			MAXIMUM		7"		8 1/2"		7"	
MATERIAL TYPE (3):			FRAME		GALV.		GALV.		GALV.	
BLADES			GALV.		GALV.		GALV.		GALV.	
MATERIAL GAUGE (3):			FRAME		10		16		10	
BLADES			10		16		10		16	
SHAFT (3):			SIZE		3/4"		RSTL		3/4"	
MATERIAL			SLEEVE		O.I.B.		SLEEVE		O.I.B.	
BEARINGS (3):			TYPE		SLEEVE		O.I.B.		SLEEVE	
MATERIAL			SLEEVE		O.I.B.		SLEEVE		O.I.B.	
STUFFING BOX REQUIRED			<input checked="" type="checkbox"/> YES		<input type="checkbox"/> NO		<input checked="" type="checkbox"/> YES		<input type="checkbox"/> NO	
ACTUATORS:			WGT. QUANTITY		TYPE		170 1 ELECTRIC		170 1 ELECTRIC	
DESIGN TEMPERATURES:			MINIMUM		MAXIMUM		50 °		120 °	
AVAILABLE MOTIVE POWER:			FOUR		115V, 14/480V, 3φ		115V, 14/480V, 3φ		115V, 14/480V, 3φ	
RETURN POWER:			POWER		SPRING		<input type="checkbox"/> POWER		<input checked="" type="checkbox"/> SPRING	
MOUNTING:			INTERNAL		EXTERNAL		<input type="checkbox"/> INT		<input checked="" type="checkbox"/> EXT	
CONTROL SIGNAL:			N/A		4-20 ma		4-20 ma		N/A	
OPERATING RANGE (3):			102-132 VEC		N/A		N/A		N/A	
INPUT IMPEDANCE (3):			N/A		N/A		N/A		N/A	
POSITIONERS REQUIRED:			TYPE ③		N/A		N/A		N/A	
POSITIONER AIR SUPPLY:			PRESSURE SCFM ③		N/A		N/A		N/A	
POSITION SWITCH:			QUANTITY		FORM		1 DPST		1 DPST	
REVERSE SWITCH:			1		DPST		1		1	
SWITCH RATING:			VOLTS		AMPS		120V		3A	
SWITCH ENCLOSURE (3):			NEMA 4		NEMA 4		NEMA 4		NEMA 4	
HIGH PRESSURE SIDE - DAMPER CLOSED:			UPSTREAM		DOWNSTREAM		UPSTREAM		DOWNSTREAM	
DAMPERS MANUFACTURER:			AWV		AWV		AWV		AWV	
DAMPERS MODEL NUMBER:			7402		7402		7402		7402	
ACTUATORS MANUFACTURER:			ITT NH-91		ITT NH-95		ITT NH-91		ITT NH-91	
ACTUATORS MODEL NUMBER:			1500# #1		1500# #1		1500# #1		1500# #1	
P&ID NUMBER:			M-465, SH-1		M-465, SH-1		M-465, SH-1		M-465, SH-1	
GEN. VISUAL INSPECTION			100% OF ALL WELDS		100% OF ALL WELDS		100% OF ALL WELDS		100% OF ALL WELDS	
RANGE OF MODULATION WILL BE PROVIDED AFTER TESTING			ELEVATION / LOCATION		655/AUX. BLDG					
NO. DATE			REVISIONS		BY		CHKD			
ORIGIN			CONTROL DAMPERS		JOB NO		7220			
BPPD			CONSUMERS POWER COMPANY		DATA SHEET NUMBER		ATTACHMENT 2			
MIDLAND PLANT UNITS 1&2										
10239 G1000716-01-01			7220-M-347-55-5		SHEET		1			



- ① INDICATE WITH N/A IF NOT APPLICABLE
- ② SUPPLIER TO COMPLETE
- ③ SUPPLIER TO COMPLETE IF BLANK
- ④ WIDTH IS PARALLEL TO BLADE AXIS

IF: ASSEMBLED - KNOCKED DOWN | CHECKER: D.S. DATE: 5-22-81 DRAWN BY: R. MANN DATE: 5-21-81

TICKET NO. **F 14375**

✓ <u>V975H3 Q R-1</u>	Bldg. <u>HVx</u>	System <u>OM-01A</u>
<u>N.A.</u>	Level <u>685'-0"</u>	Item <u>N.A.</u>
Req. <u>1</u>	Area <u>3</u>	Face Area <u>N.A.</u>

CUTTING LIST

QUANTITIES

STOMER LD POINTS _____ DIMENSIONAL TOLERANCES: ± 1/4 _____
 LDING PROCEDURE(S): WPS N.A.

QC HOLD POINT:
 QC INSPECT PRIOR TO
 RELEASE FROM FAB SHOP

QC HOLD POINT: 65-27-81
 inspection prior to any weld
 becoming inaccessible

QC HOLD POINT: inspection after installation

INSTALL DAMPER # OMD 6509A
 PER VENDER DWG. M347-55-5

QUALITY ASSURANCE

TICKET MOVED RN 4 5-26-81
Am 2 5-26-81

CONTROL NO.

FIELD IRON CONTROL NO.

OPERATOR

INSPECTOR

PENDING FINAL ERECTION

CITY - THIS TICKET

SITE ADDRESS

OFFICE USE ONLY						
DESCRIPTION	QUANTITY	WEIGHT	FABRICATION		ERECTION	
			PRICE	AMOUNT	PRICE	AMOUNT
APPENDUM 1			TOTALS	\$	\$	\$

... TRAVELER

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NOTE: THIS NCR SUPERSEDES ZACK
COMPANY NCR A1930 ISSUED
BY MECARLSON ON 2-8-83.
NONCONFORMANCE REPORT

ORIGINAL

16 NCR NO.

H-00311-ZZ

17 DATE ISSUED

1-18-84

18 REV

RECEIVED

19

PAGE 1 OF 6 APR 21 1984

C. P. Co. Legal

1 ITEM LOCATION

Auxillary Building Area 3 Elevation 685'-0"
3'-6" West of 6.6 line and 3'-5" North of K line

MODULE # 260E ^{KAS} -18-84

2 ITEM DRAWING/PART NO.

V27 Sh 3(Q)Revision 8
C894 Revision 18/Hanger 506

3 ITEM PART NAME

V27 Sh 3(Q)Revision 8/Hanger 506/F14129

4 ITEM SERIAL NO.

N/A

5 ITEM DESCRIPTION

HVAC Duct Support

6 ITEM STARTUP SYSTEM NO.

OGLH

7 REFERENCE DOCUMENT Bechtel Tech Spec
7220-M-151A (Q) Revision 13

8 ASME A.M.I. REQUIRED

YES NO

9 INSPECTION RECORD NO.

H-7-A

LOG NO.

936

REV NO.

1

10 RESPONSIBLE ORGANIZATION

The Zack Company

11 NONCONFORMANCE DISCOVERED DURING:

DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST INSPECT TURNOVER POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT

- Bechtel Technical Specification 7220-M-151A (Q) Revision 13 Paragraph 10.2.1 states, "Duct hangers and supports shall be fabricated as shown on the drawings."
C850 Revision 18 Note 6 II (C) states, "For equal leg angle 2" x 2" or less, if welded on the inside of the leg, weld shall be extended around the inside radius to get minimum weld length as per A and B."
- Bechtel Technical Specification 7220-M-151A (Q) Revision 13 (continued on page 3)

13 NONCONFORMANCE

- Contrary to the above, Section "J" (Detail 3/C953) and Section "G" (Detail 3/C953) has 2" x 2" angle with both welds on the inside leg of the angle. (see attached sketch)
- Contrary to the above, Section "F" (Detail 3/C953) has 2" tube steel that is not welded on the rounded corners thus not providing a total of 4" of weld. (see attached sketch)
- Contrary to the above, Section "J" (Detail 3/C953) has one weld undersize by over 1/16". Section "G" (Detail 3/C953) has two welds undersize. (see attached sketch)
- Contrary to the above, Section "G" (Detail 3/C953) (continued on page 3)

14 NCR ORIGINATED BY (PERSON)

CH11

15 NCR ORIGINATED BY (DISCIPLINE)

MPQAD-HVACA

1/18/84
DATE

20 NUMBER OF HOLD TAGS (IF APPLIED)

1

21 LOCATION OF HOLD TAGS

V27 Sh 3 (Q) Revision 8/Hanger 506/F14129

22 POTENTIAL 50.55(e)

YES NO

24 ACTION ITEM NO.

Z0878

25 ITEM PRIORITY CODE NO.

5

28 NCR REVIEWED BY:

[Signature]

23 REPORTED TO MPQA MANAGER

DATE NA

25 DISCIPLINE:

M

27 TREND CODE

① N-3 ④ N-3
② N-3 ⑤ N-2
③ N-4(3)

DATE:

1/25/84

CONTINUED ON REVERSE

F-2M/1A (Rev 1)

29 CAUSE

FAILURE OF CRAFT TO CONSTRUCT HANGER PER DESIGN REQUIREMENTS.

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. N/A

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

ITEM ① REFER TO BPCO FOR REVIEW "USE-AS-IS" SEE BQS # 243, NCR # A-1930, ITEM ① FOR PREVIOUS BPCO DISPOSITION OF THIS NCR CONDITION.
ITEMS ②③④ REWORK HANGER AND WELDS AS REQUIRED. SEE NCR # A-1930, ITEMS ②③④ FOR WPS AND WELDER I.O. USED TO RESOLVE THIS NCR CONDITION.
(CONTINUED ON PG 3 OF 6)

33 DISTRIBUTION FOR ACTION

ITEM ① BPCO
ITEMS ②③④ RACK
ITEM ⑤ MPOAD

34 DISPOSITION CONCURRENCE

<u>AM</u>	<u>3-7-84</u>	<u>[Signature]</u>	<u>3/9/84</u>	_____	_____
PROJECT FIELD ENGINEER	DATE	MPOAD CONCURRENCE	DATE	PFQCE (ASME)	DATE
_____	_____	_____	_____	_____	_____
LEAD DESIGN ORG	DATE	CP Co SMO (for turned over systems)	DATE	PQAE (ASME)	DATE
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	A.N.I. (ASME)	DATE

35 DISPOSITION ACTION TAKEN

ITEM ① NONCONFORMANCE HAS BEEN RESOLVED BY PREVIOUS ACTION NOTED IN BLOCK 31A ABOVE.
ITEMS ②③④ HANGER AND WELDS HAVE BEEN REWORKED USING WPS AND WELDER I.O. AS NOTED IN BLOCK 31A ABOVE.
ITEM ⑤ NO DISPOSITION ACTION REQUIRED.

36 METHOD OF DISPOSITION ACTION VERIFICATION Visual Inspection

RESULT OF DISPOSITION ACTION VERIFICATION IF UNACCEPTABLE, REFERENCE SUPERCEDING NCR NUMBER _____
 ACCEPTABLE UNACCEPTABLE

Item ① Use-As-Is Disposition
Items ②③④ Hanger and welds were reworked, welds are visually acceptable and configuration is acceptable.
Item ⑤ Actual dimension of W.P. is within specified requirements. 4-12-84

37 NCR CLOSED BY

[Signature] 4-12-84
MPOAD DATE

A.N.I. (ASME) DATE

ORIGINAL
NONCONFORMANCE REPORT
CONTINUATION SHEET

NCR NO.

H-00311-ZZ

DATE ISSUED

1-18-84

REV

0

PAGE 3 OF 6

12. REQUIREMENT (continued from page 1)

2. Paragraph 10.2.1 states, "Duct hangers and supports shall be fabricated as shown on the drawings."

C850 Revision 18 Note 6 III (B) states, "Tube sections: 4" with 2" on opposite sides for 2" x 2" provide equal end returns on rounded corners as required to achieve 4" with 2" on opposite sides."

3. Bechtel Technical Specification 7220-M-151A (Q) Revision 13 Section 14.8.3 Paragraph (b) states, "The fillet leg and throat dimensions shall not underrun the nominal fillet size by more than 1/16" providing the undersize length of the weld does not exceed 10% of the total weld length."

4. Bechtel Technical Specification 7220-M-151A (Q) Revision 13 Paragraph 10.2.1 states, "Duct hangers and supports shall be fabricated as shown on the drawings."
C850 Revision 18 Note 9 states in part, "For rectangular ducts the hanger supporting members shall be in contact with each face of the duct."

5. Bechtel Technical Specification 7220-M-151A (Q) Revision 13 Paragraph 10.2.1 states, "Duct hangers and supports shall be fabricated as shown on the drawings."
C850 Revision 18 Note 12F states in part, "Work points...at joints where dimensions are shown the tolerances shall be $\pm 3/8$ " provided noted maximums and minimums are not violated."

NOTE: For Bechtel disposition on Item #1 see BDS 343.

13. NONCONFORMANCE (continued from page 1)

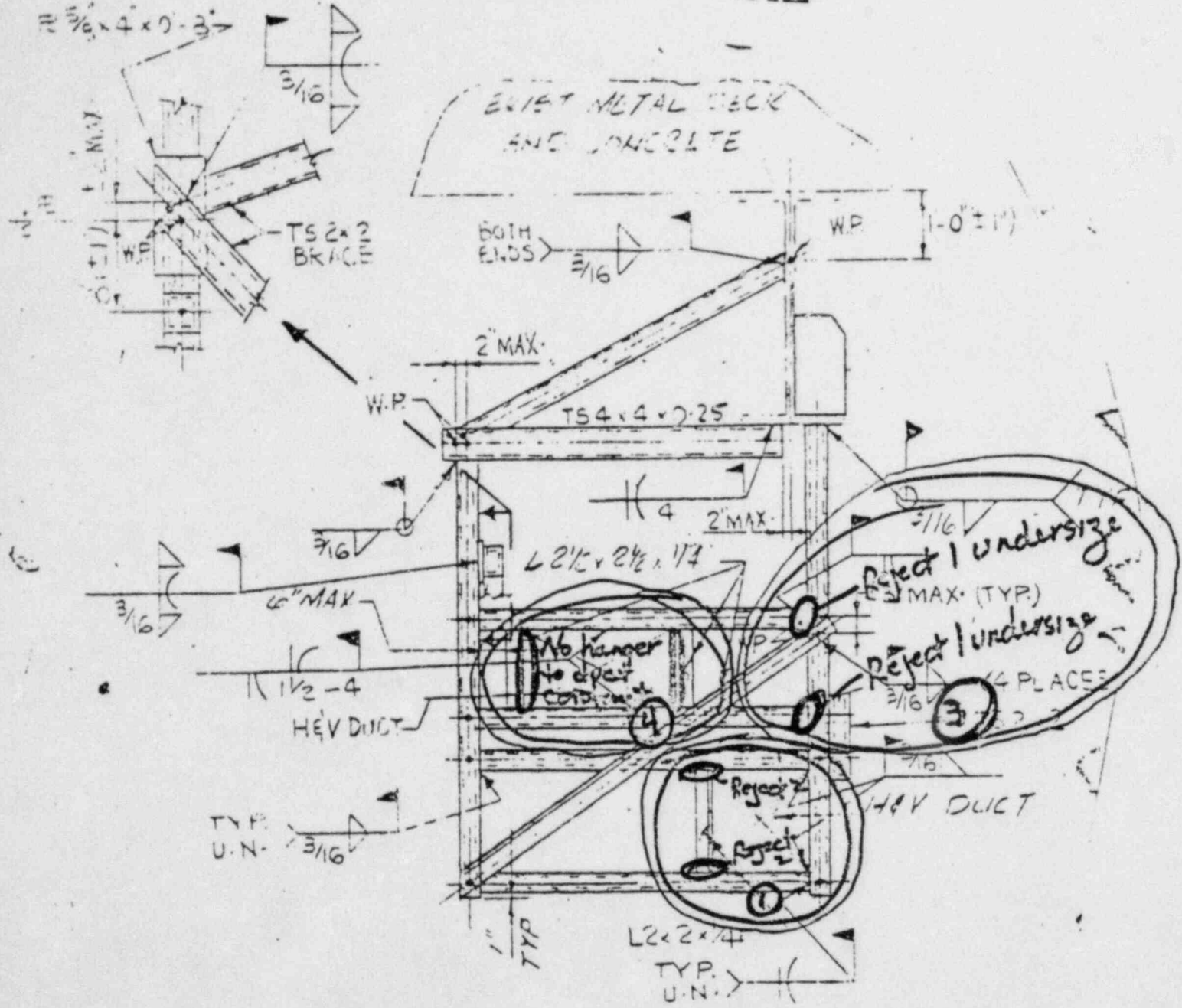
4. has two angles not in contact with duct run. (see attached sketch)

5. Contrary to the above, Section "J" (Detail 3/C953) shows a 2" maximum between work points, contrary to Detail 2 1/2" was provided. (see attached sketch)

31A. ADDITIONAL INFORMATION (CONTINUED FROM PG 2 OF 6)

ITEM ④. THIS IS NOT A NONCONFORMING CONDITION. FIELD MEASURED DIMENSION IS $1\frac{1}{8}$ " PER NCR # A-1930, BLOCK 10, ITEM ⑤.

ORIGINAL



SECTION

G

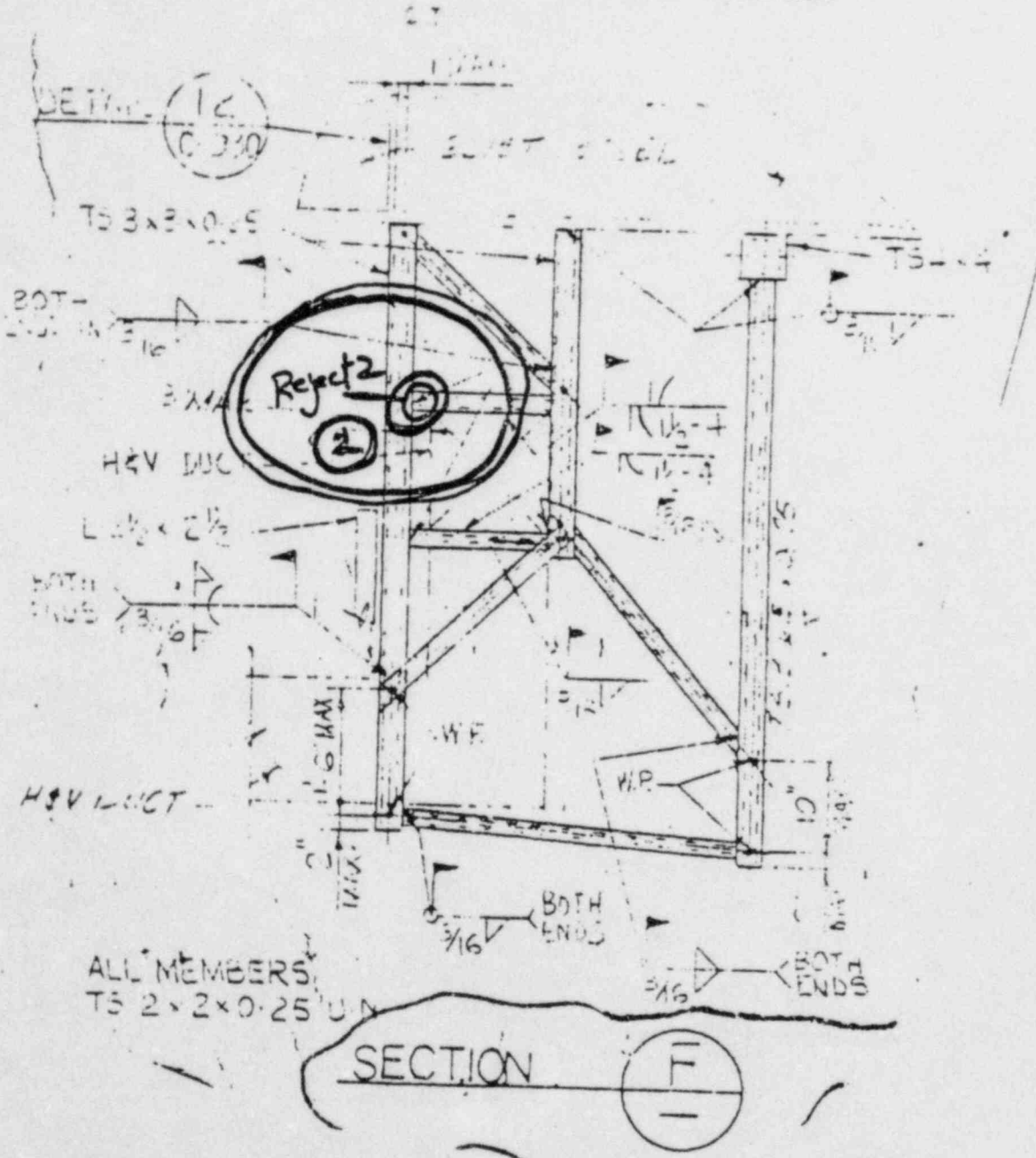
ALL MEMBERS
TS 3x3x0.25 U.N.

ATTACHMENT TO NCR H-00311-22
INITIALS CH DATE 1/18/84
PG. 4 OF 6

INFORMATION ONLY
ATTACHMENT TO NCR A1930
INITIALS YR DATE 2/2/85

CH
1/3/84

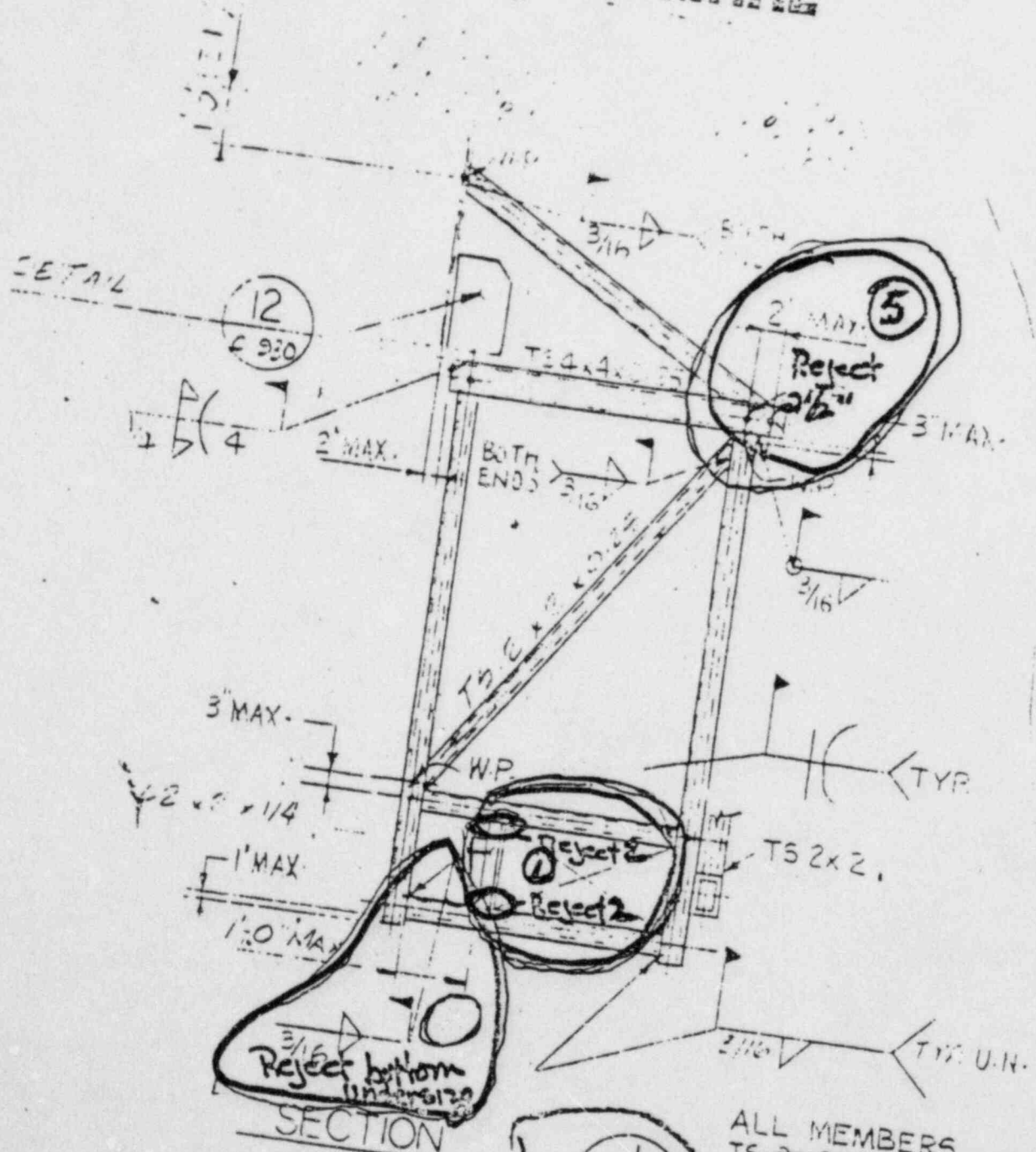
ORIGINAL



ATTACHMENT TO NCRH-00311-22
 INITIALS CH DATE 1/18/84
 PG. 5 OF 6

INFORMATION ONLY
 ATTACHMENT TO NCR A/930
 INITIALS me DATE 2/83
 CH
 1/3/84

ORIGINAL



ATTACHMENT TO NCR H-00311-22
 INITIALS EH DATE 1/18/84
 PG. 6 OF 6

ALL MEMBERS
 TS 3x3 x 0.25
INFORMATION ONLY
 ATTACHMENT TO NCR A1930
 INITIALS MJ DATE 2/2/85

EH
 1/3/84

ORIGINAL

ACTION NO: 20878

DOCUMENT NO: H-00311-ZZ

ORIGINATOR: C. HILL

ORIGINATOR ORG: MPQAD HVAC

ASSIGNEE: _____

ASSIGNEE ORG: - Jack Company

ISSUE DATE: 1/25/84

COMMITMENT DATE: _____

ACTUAL DATE: _____

JUSTIFICATION DATE: _____

REMARKS: _____

SUPERVISOR APPROVAL _____

CLOSED BY _____

RECEIVED

1581 50 811

DATE _____

DATE _____

"CALH"

NCR A 1930 D FS SVD 810
NCR 810203 N

BDS 343
NCR A1930
pg 1 of 8

THE ZACK COMPANY
ENGINEERING DISPOSITION REQUEST

1. NCR# 1930 5. Date 2-25-83
 2. Refer to NCR Item # ① 6. Building/Area AUX/3
 3. Bechtel Drawing # C 894REV18 7. Location ELE 685'-0" 3'-6" E/6.0
3'-5" N/K
 4. Zack Recommendation: Repair Use-As-Is

10.

DISPOSITION CONCURRENCE			
REWORK	REJECT	REPAIR	USE-AS-IS
			X

BECHTEL DISPOSITION

11.

Paul J. Walsh 8/26/83
 Bechtel Field Engineering Date

12.

Jim Anderson for E. M. Hughes 10/4/83
 Bechtel Project Engineering Date

8 a. Bechtel Field Engineering Disposition _____

b. Bechtel Field Engineering Recommended Disposition To Project Engineering:

EVALUATE EXISTING CONDITION FOR ACCEPTABILITY TO
"USE-AS-IS". SEE PAGES 6 OF 8 AND 8 OF 8
FOR SKETCH OF LOCATION OF DISCREPANT WELDS.

9. Bechtel Project Engineering Disposition:

BECHTEL PROJECT ENGG HAS EVALUATED ITEM #1 AND DISPOSITIONS "USE-AS-IS".
THIS ITEM IS A ONE-TIME DEVIATION TO DETAIL 3K-953 & NO LONGER A
NON-CONFORMANCE. NO DWG OR SPEC CHANGE IS REQD. THE WELD PROVIDED
IS SUFFICIENT (REF: CALC 21-I(6.105)(Q) REV-1). A DRVC HAS BEEN
ISSUED. NOT APPLICABLE TO QUAL-TEST.

GSO/9-21-83

Dr. fw PVR 10-5-83

AUG 29 1993
 OCT 1993
 1993

① N-4 (2 welds)
② N-4 (1 weld)
③ N-4 (3 welds)

THE ZACK CO.

④ N-3 BOS 343
NCR A1930
Pg 3 of 8
Pg. 1 of 4

NONCONFORMANCE REPORT

1. REPORT NUMBER A 1930 5. DRAWING NUMBER 127513^{RS} C874R
2. DATE 2/3/83 6. BECTEL SUPPLIED - YES NO
3. ITEM/IDENTIFICATION NO. hangar 506 F11129 7. TAG NO. 8207
4. BUILDING & ELEVATION Av 685 OGLH

8. DESCRIPTION OF NONCONFORMANCE:
111219 see 10.2.1 status "Duct hangers and support - shall be fabricated as shown on the drawings" See 3/12/83
9.(a) Mary Beth 2/2/83 INITIATOR / DATE
9.(b) David Hines 2/8/83 HVAC QA SEC. GROUP SUPERVISOR / DATE

10. CORRECTIVE ACTION PLAN: ① See Bechtel Disposition for acceptance as-is ② Add welds per detail 3/1983 section F WPS 2-1-1 or 2-1-2 WELDER ID HVO20 DGA/
11. [Signature] 7-26-83 ZACK COMPANY PROJECT ENG. / DATE
12. N/A ZACK COMPANY PROJECT ADMIN. / DATE
13. Ron Houston 7-26-83 HVAC QA SEC. GROUP SUPERVISOR / DATE

14. CONDITIONAL RELEASE: _____
15.(a) _____ ZACK COMPANY PROJECT ENG. / DATE
15.(b) _____ BECTEL FIELD ENG. / DATE ACCEPT REJECT
15.(c) _____ HVAC QA SECTION GROUP SUPER. / DATE ACCEPT REJECT

16. CORRECTIVE ACTION COMPLETE: [Signature] 10-18-83
[Signature] 7-30-83 ZACK COMPANY PROJECT ADMIN. / DATE

17. CORRECTIVE ACTION VERIFICATION: ITEMS 1, 2, 3, 4, and 5 HAVE BEEN TRANSFERRED TO MPRAD NCR # H-00311-22 FOR DISPOSITION

18. ACCEPT:
19. [Signature] 1/18/84 INSPECTOR / DATE
20. [Signature] 1/25/84 HVAC QA SECTION GROUP SUPERVISOR / DATE

THE ZACK COMPANY
NONCONFORMANCE REPORT
(Continuation Sheet)

BDS 393
NCR A1930
Pg 3 of 3

Pg. 2 of 4

1. REPORT NUMBER	A1930	0644	
2. DATE	2/2/83		
3. ITEM IDENTIFICATION NO.	hanger 506 F14129	4. BUILDING/AREA	Alix 685
5. DRAWINGS	V27sh 3 C894 R16	6. BECTEL SUPPLIED	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>

8. DESCRIPTION OF NONCONFORMANCE C850 Note 6 II C states " For equal leg 2"x2" or less, if welded on the inside of the leg, weld shall be extended around the inside radius to get minimum weld length as per A+B "

① Sec J (det 3/C953) and sec G (det 3/C953) has 2x2 angle with both welds on the inside leg of the angle (see attached sketch) C850 note 6 III B states "Tube sections : 4" with 2" on opposite sides for 2x2 provide equal end returns on rounded corners as required to achieve 4" with 2" on opposite sides. ② Contrary to this, sec F (det 3/C953) has 2" Tube steel that is not welded on the rounded corners thus not providing

10. CORRECTIVE ACTION PLAN ③ Rework welds per detail 3/C953 Section J & G WPS (2-1-1) or 2-1-2 WELDER ID# HVO20 ④ Angles shall be cut loose and moved into contact with duct & rewelded WPS (2-1-1) or 2-1-2 WELDER ID# HVO20 ⑤ Not a nonconformance, dimension is actually 1 1/8". RJA 7-26-83

THE ZACK COMPANY
NONCONFORMANCE REPORT
(Continuation Sheet)

BDS 393
NCR A1930
pg 4 of 8

Pg. 3 of 4

1. REPORT NUMBER	<u>A1930</u>	OG, LT
2. DATE	<u>2/2/83</u>	
3. ITEM IDENTIFICATION NO.	<u>hingesole F14129</u>	4. BUILDING/AREA <u>Aux 685</u>
5. DRAWINGS	<u>127563 F 0894 P 18</u>	6. BECTEL SUPPLIED YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>

8. DESCRIPTION OF NONCONFORMANCE a total of 4" of weld (see attached sketch) MISA sec 14.83 b states in part "the fillet leg and throat dimensions shall not undersize the nominal fillet size by more than 1/16", providing the undersize length of the weld does not exceed 10% of the total weld length. (3) Contrary to this, sec J (det 3/0953) has 1 weld undersize by over 1/16". sec G (det 3/0953) has 2 weld undersize (see attached sketch) C850 Note 9 states in part "FOR rectangular ducts the hanger supporting members shall be in contact with each face of the duct. (4) Contrary to this, sec G (det 3/0953) has 2 angles not in contact with duct

10. CORRECTIVE ACTION PLAN _____

THE ZACK COMPANY
NONCONFORMANCE REPORT
(Continuation Sheet)

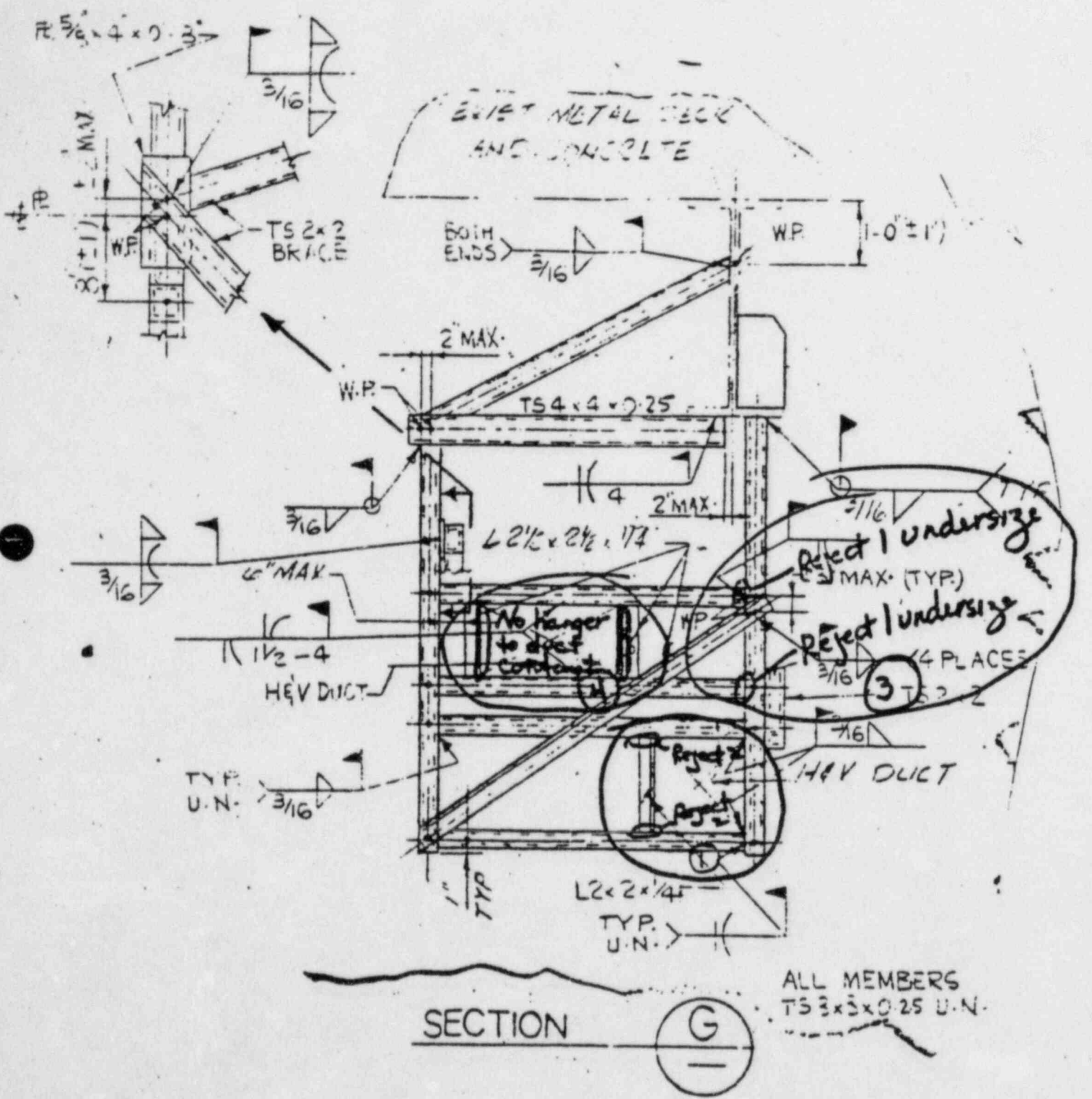
000073
NCR A1930
Pg 5 of 28

Pg. 4 of 4

1. REPORT NUMBER A1930
2. DATE 2/2/83 OGUH
3. ITEM IDENTIFICATION NO. hanger 506 F14/294 BUILDING/AREA Aux 685
4. DRAWINGS V275h3 FC894 & 18 5. BECTEL SUPPLIED YES NO

8. DESCRIPTION OF NONCONFORMANCE Run (see attached sketch)
states in part
CS50 note 12 f^v " WORK points ... At joints where
dimensions are shown the tolerances shall be $\pm 3/8$ "
provided noted maximums and minimums are not
violated. (3) Sec J (det 3/C953) shows a 2" maximum
between work points (see attached sketch) Contrary
to this 2 1/2" was provided

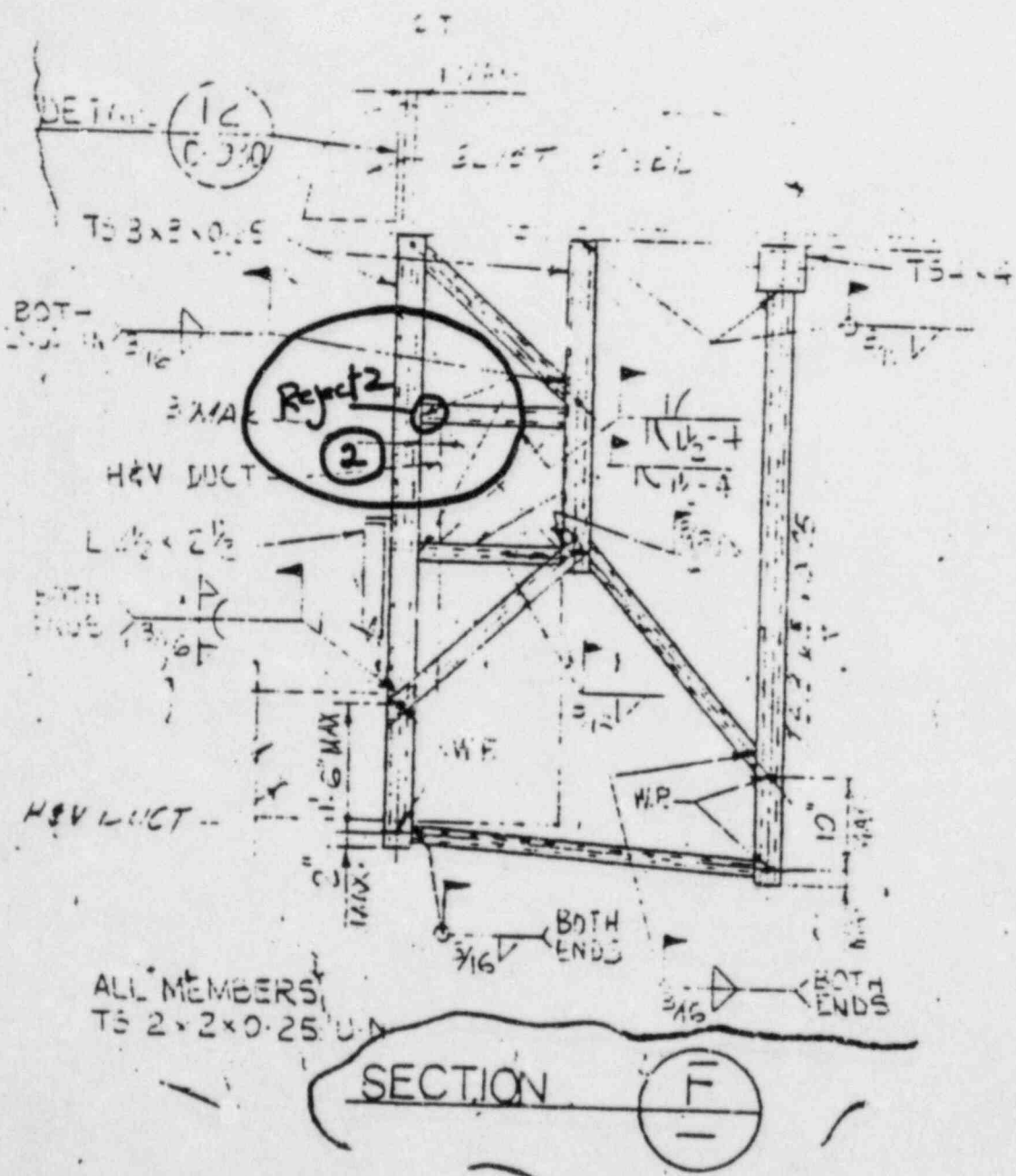
10. CORRECTIVE ACTION PLAN _____



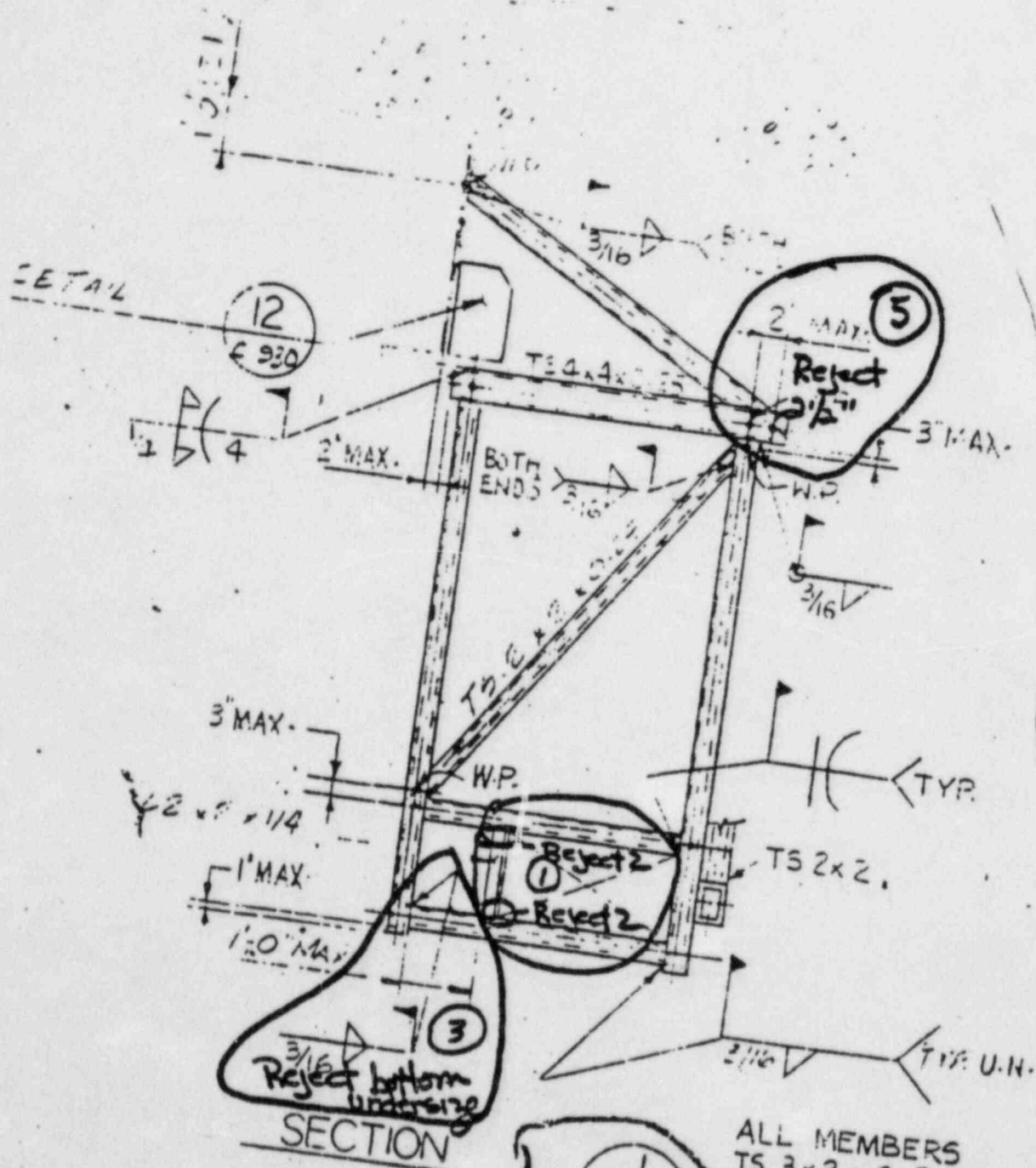
SECTION G

ALL MEMBERS TS 3x3x0.25 U.N.

INFORMATION ONLY
ATTACHMENT TO NCR A1930
INITIALS [Signature] DATE 3/2/83



INFORMATION ONLY
ATTACHMENT TO NCR A1930
INITIALS *me* DATE 12/83



ALL MEMBERS
TS 3x3 x 0.25
INFORMATION ONLY
ATTACHMENT TO NCR A1930
INITIALS MD DATE 2/28

J
—

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

ORIGINAL

NONCONFORMANCE REPORT

16 NCR NO.

H-00398-ZZ

17 DATE ISSUED

03/13/84

18 REV

0

19

PAGE 1 OF 2 RECEIVED

ITEM LOCATION

ZACK FABRICATION SHOP

APR 21 1984

C. P. Co. Legal

ITEM DRAWING/PART NO.

N/A

3 ITEM PART NAME

JOB SITE STOCK

4 ITEM SERIAL NO.

N/A

ITEM DESCRIPTION

RECEIPT- LOAD #220

ITEM STARTUP SYSTEM NO.

RIDOO

7 REFERENCE DOCUMENT

MB-FP-7B REVISION 3

8 ASME A.N.I. REQUIRED

YES NO

INSPECTION RECORD NO.

HIA

LOG NO.

1A847D

REV NO.

4

10 RESPONSIBLE ORGANIZATION

THE ZACK COMPANY

NONCONFORMANCE DISCOVERED DURING:

POST INSPECT

TURNOVER

DESIGN

RECEIVING

CONST

RELEASE FOR INSPECT

POST TURNOVER

PRE-OP TEST

FINAL TURNOVER

OVERINSPECT

REQUIREMENT 1.) MB-FP-7B REVISION 3 SECTION 7 PARAGRAPH 2.10 STATES IN PART "ENTER IN BLANK 18 THE SIZE... OF THE MATERIAL REQUIRED..."
DETAIL #1 ON DRAWING Q1272 LISTS CHANNEL SIZE AS 8" X 13.75.

NONCONFORMANCE 1.) ON THE RECEIPT INSPECTION TRAVELER #F22393 AND ON THE FABRICATION TRAVELERS #F20195, F20183, AND F20178 THE SIZE OF THE CHANNEL CALLED FOR IN THE CUT LISTS IS 8" X 13.5. THE CHANNEL RECEIPTED WAS 8" X 13.75. THERE IS NO CHANNEL MADE AT 8" X 13.5. THE ABOVE TRAVELERS NEED TO BE AMENDED TO SHOW THE CORRECT SIZE.

14 NCR ORIGINATED BY (PERSON)

K.S. Clino

03/13/84

DATE

15 NCR ORIGINATED BY (DISCIPLINE)

MPQA HVACA

NUMBER OF HOLD TAGS (IF APPLIED)

1

21 LOCATION OF HOLD TAGS ON CHANNEL AT ZACK FABRICATION SHOP HOLD AREA

POTENTIAL 50.55(e)

YES

NO

24 ACTION ITEM NO.

Z 0928

26 ITEM PRIORITY CODE NO.

5

28 NCR REVIEWED BY:

DATE:

3/26/84

REPORTED TO MPQA MANAGER

DATE NA

25 DISCIPLINE:

M

27 TREND CODE

ZE-60001

CONTINUED ON REVERSE

F-2M/1A (Rev 1)

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

ORIGINAL

NONCONFORMANCE REPORT

16 NCR NO.

17-00409-ZZ

17 DATE ISSUED

09/17/84
H803/28/84

18 REV.

0-1

19

PAGE 1 OF 5

1 ITEM LOCATION ACTUAL LOCATION - THE ZACK FABRICATION SHOP - B.O.D. ELE. 66'9" - 6" - AUL. BLDG. CONTROL ROOM - 4'9" SOUTH OF HK LINE AND 9" EAST OF 8.2 LINE. MODULE #240F.

2 ITEM DRAWING/PART NO.

V25 SHEET 3 - REV. 7

3 ITEM PART NAME

DUCT PIECE 305A

4 ITEM SERIAL NO.

N/A
RECEIVED

5 ITEM DESCRIPTION

HVAC DUCT SEGMENT (ELBOW) # 305A

APR 24 1984

C. P. Co. Legal

6 ITEM STARTUP SYSTEM NO.

OGLN

7 REFERENCE DOCUMENT

7220-M151A REV. 18

8 ASME A.M.I. REQUIRED

YES NO

9 INSPECTION RECORD NO.

H5A

LOG NO.

JA893118

REV NO.

2

10 RESPONSIBLE ORGANIZATION

THE ZACK COMPANY

11 NONCONFORMANCE DISCOVERED DURING:

POST INSPECT

TURNOVER

DESIGN

RECEIVING

CONST

RELEASE FOR INSPECT

POST TURNOVER

PRE-OP TEST

FINAL TURNOVER

OVERINSPECT

12 REQUIREMENT NOTE: BOTH ITEMS ON THIS NCR WERE PREVIOUSLY ADDRESSED ON MPQAD NCR # H00283-ZZ AND WERE NOT ACCEPTED DUE TO THE INADEQUATE REVISION OF THE APPROPRIATE DRAWINGS. (2) BECNTEL TECH. SPECIFICATION 7220-M151(A), REV. 18, SECTION 10, PARA. 1.1, STATES IN PART, "DUCTWORK SHALL BE FABRICATED OF CARBON STEEL, GALVANIZED CARBON STEEL, OR STAINLESS STEEL AS SHOWN ON THE DRAWINGS... STANDARD HVAC

13 NONCONFORMANCE

1) DEL #10 TO DRAWING 0846 PUT A RETROACTIVITY DATE OF 09/09/84 ON THE WELDING CRITERIA. THE ORIGINAL NCR (ZACK NCR # A2094) WAS INITIATED ON 09/02/83. UREF ATTACHED DATED 09/17/84 SEE PAGE 3 OF 5 FOR NONCONFORMANCE #1.

2) CORNER BEND RADII WAS CHANGED ON DRAWING 0849 PER FOR C-6584. THE TRAVELER SKETCH (WORK PRINT) TO TRAVELER F21239 STILL LISTS THE CORNER BEND RADII AS 1/8". UREF ATTACHED SKETCH.)

14 NCR ORIGINATED BY (PERSON)

KSCORNE #111 03/28/84
DATE

15 NCR ORIGINATED BY (DISCIPLINE)

MPQAD - HVAC

20 NUMBER OF HOLD TAGS (IF APPLIED)

1

21 LOCATION OF HOLD TAGS

ZACK FABRICATION SHOP

22 POTENTIAL 50.55(e)

YES NO

24 ACTION ITEM NO.

Z 0943

26 ITEM PRIORITY CODE NO.

5

28 NCR REVIEWED BY

23 REPORTED TO MPQA MANAGER

DATE NA

25 DISCIPLINE:

M

27 TREND CODE

ZZ-90001

ZZ-90001

DATE:

4/3/84

CONTINUED ON REVERSE

F-2M/1A (Rev 1)

CAUSE

ORIGINAL

[Faint stamp]

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

PROJECT FIELD ENGINEER DATE

MPQAD CONCURRENCE DATE

PFQCE (ASME) DATE

PQAE (ASME) DATE

LEAD DESIGN ORG DATE

CP Co SMO (for turned over systems) DATE

A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

MPQAD DATE

A.N.I. (ASME) DATE

ORIGINAL

NONCONFORMANCE REPORT

CONTINUATION SHEET

NCR NO.

H-00409-77

DATE ISSUED 09/17/84

03/28/84

REV

01

PAGE 23 OF 5
KSC 03/28/84

BLOCK 12) REQUIREMENT CONT.

DUCT CONSTRUCTION DETAILS ARE IDENTIFIED ON DRAWINGS 7220-C-843 (Q) THROUGH C-849 (Q)...

1) DRAWING C849 REV. 19 SECTION "A" REQUIRES COMPANION FLANGE TO DUCT WELDS TO BE 1/8" FILLET 1 1/2" LONG ON 4" CENTERS.

DRAWING C846 REV. 12 DETAIL 11A SHOWS HOW TO MEASURE WELDS FOR 1 1/2" LONG ON 4" CENTERS PER DCU #10.

2) DRAWING C849 REV. 19 DETAIL 1 REQUIRES THAT THE CORNER BEND RADII FOR SHEET METAL TO BE 1/2 T (T=THICKNESS OF SHEET METAL).

BLOCK 13) NONCONFORMANCE

1) COMPANION FLANGE TO DUCT WELDS DO NOT MEASURE OUT TO BE 1 1/2" ON 4" CENTERS AS CALLED OUT ON DRAWING C849 REV. 19. DCU 10 TO DRAWING C846 REV. 12 CLARIFIES METHOD TO BE USED TO DETERMINE IF CENTER TO CENTER SPACING IS ACCEPTABLE. WHEN DCU 10 WAS INITIATED A RETRO-ACTIVITY DATE OF 09/09/83 WAS PUT ON THE WELDING CRITERIA. THE NCR THAT ORIGINALLY ADDRESSED THIS NONCONFORMANCE (BACK NCR #A2094 WAS INITIATED ON 09/02/83 THEREFORE THE CENTER TO CENTER SPACING OF WELDS ON DUCT # 303A IS STILL NONCONFORMING KSC 09/17/84

DRAWING CHANGE NOTICE (DCN)

DRAWING NO.	SHEET NO.	REV.	DCN NO.
C-846(G)	—	10	10

SUB A
GENERIC

CHANGE REQUESTED BY: CLIENT ENGINEERING FIELD SUPPLIER/CONTRACTOR

JOB NO. 7120 PAGE 1 OF 2

REASON FOR CHANGE: TO CLARIFY WELD DETAIL AND CHANGE THE MAX. GAP DIMENSION TO 1/8" PER IIA.

AFFECTED PURCHASE ORDERS	PM OR MR PREPARED FOR DCN CHANGE
NONE	YES
CLIENT	

DESCRIPTION OF CHANGE:

REVISE DETAIL IIA OF DWG C-846(G) AS SHOWN ON SHR 2 OF 2.

ACTIVITY OF CHANGE:

RETROACTIVE TO 9/9/83.

RECEIVED

SEP 22 1983

DETAIL POWER CORP.

BY: R. J. W.

INSTRUCTIONS REGARDING USED MATERIAL/EQUIPMENT:

N/A

ORIGINATOR	APPROVAL	DATE
SSB	[Signature]	9/14/83
1/16/83	CHECKED BY SUPERVISOR	

Incorporates the following change documents:

N/A

DWG REVISED NO.	10
STARTUP SYSTEMS ON AREAS ≤ 90 DAYS OF TURNOVER, OR AFTER TURN-OVER IF AFFECTED BY CHANGES:	
System Hardware Change Area No.	N/A
(Yes or No)	No
7120-117	

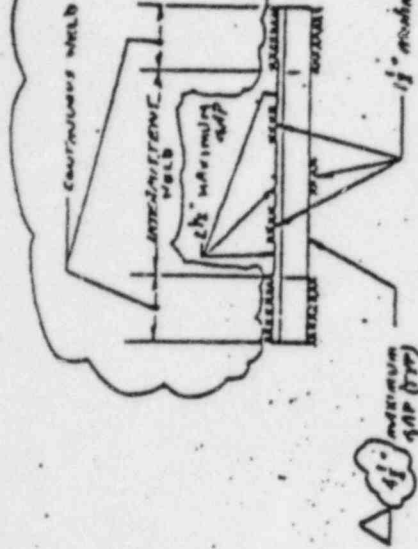
SCC N/A (b)

MIDLAND UNITS 1 & 2
JOB NO. 7120

DWG NO. C-846(G)

SHEET 10

DCN NO. 10



DETAIL IIA

FOR TRAINING ONLY

ATTACHMENT TO NCR
INITIALS RUC DATE 03/22/84
PG. 4 OF 5

7120-117

NOTES:

- 1) DUCT MATERIAL GALV CARBON STEEL
- 2) L SIZE 18" X 18" X 1/4"
- 3) WELD GALV CARBON STL.
- 4) END RAIL GALV CARBON STL.
- 5) WELD LENGTH 2 1/2"
- 6) WELD LENGTH 2 1/2"
- 7) T THICKNESS OF THROAT OF WELD MATERIAL & MIN EFFECTIVE THROAT OF WELD.
- 8) SHORTEST DIM. OF DUCT + 1/4" WHETHER TOP OR SIDE + 2 X ANGLE SIZE.
- 9) LONGEST DIM. OF DUCT + 1/4" WHETHER TOP OR SIDE.
- 10) VANE GA. 16
- 11) END RAIL GA. 16
- 12) DUCT GA. 18

REFERENCES:

- A) C84.20 R16 SEE 1 TYP
- B) C84.20 R16 SEE 1 TYP
- RECT. DUCT STIFF. & ARRANGEMENT SECTION A-A
- C) C85(Q) R9 TABLE 1 & 2
- D) C84 & R10 SEE 7
- E) C847.0 R14 SEE 1, 1B, 1C MATERIAL SPECS.

ASTM A52 Z-71 G90
 ASTM A36-75 OR LATER
 ASTM A123-72 OR LATER

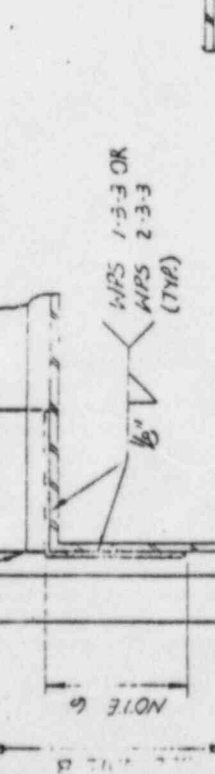
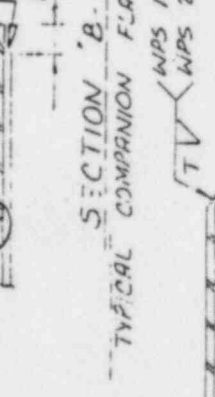
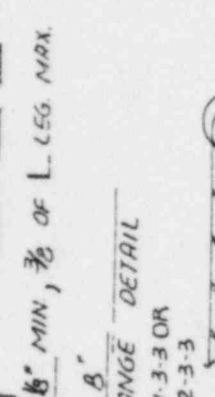
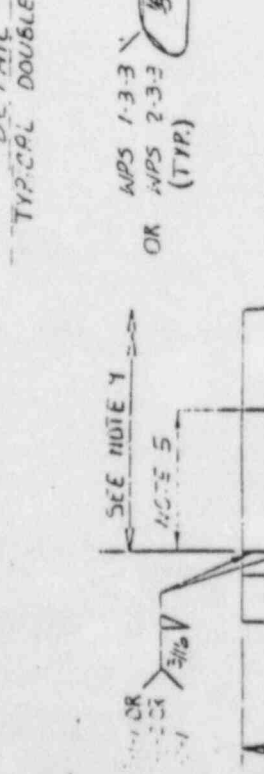
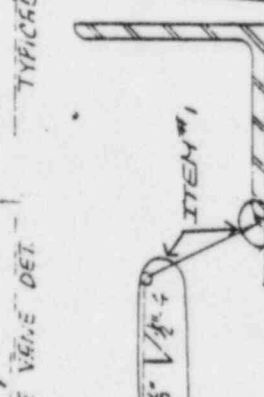
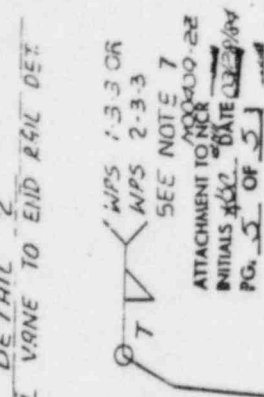
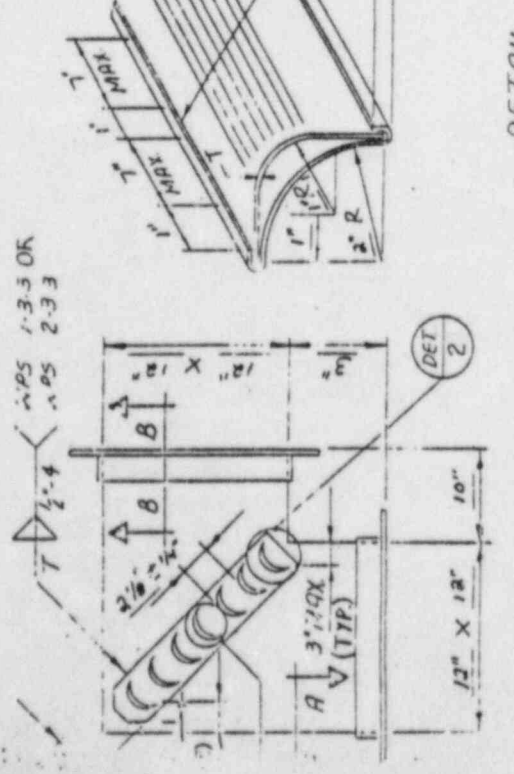
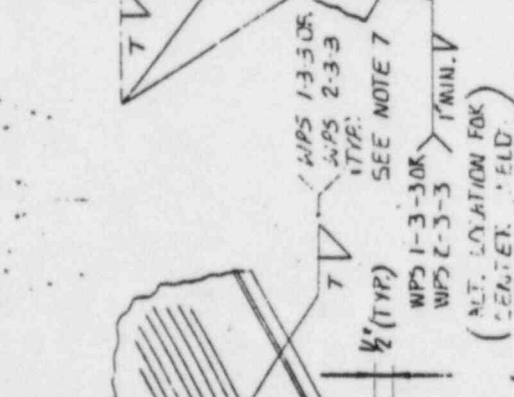
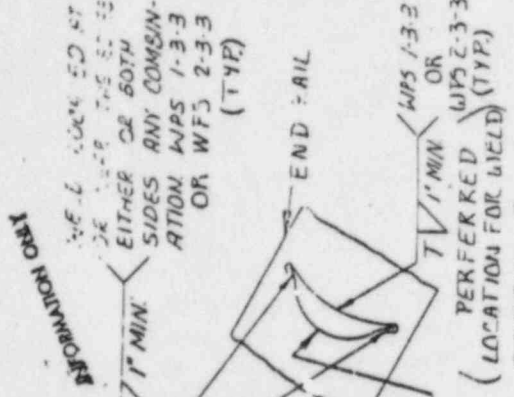
NO.	DATE	REVISION	BY
1	7/23/72	NOTES 10, 11, 12	END 1 A.C.
2	7/23/72	ISSUE FOR CONSTRUCTION	END 1 A.C.

MIDLAND PLANT UNITS 1 & 2
 CONSUMERS POWER COMPANY

RECTANGULAR SQUARE THROAT
 ELEV OR STRIGHT CONNECTION

PC NO. 305A TRAVELER E21212
 V-25543994 D.P.L. 27M

THE ZACK COMPANY
 CHICAGO, ILLINOIS



MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

ORIGINAL

NONCONFORMANCE REPORT

16 NCR NO.

H-00411-ZZ

17 DATE ISSUED

4-3-84

18 REV

Ø

19

PAGE 1 OF 3

1 ITEM LOCATION Module # 240A
Aux. Bldg. Control Room 3 1/2" N/K, 3' 1 1/2" E/T-2, B.O.D. Elev. 668 1/2"

2 ITEM DRAWING/PART NO.

V25 sh 3B Rev. 4, M525 sh.3 Rev.32

3 ITEM PART NAME

Duct Pz 42

4 ITEM SERIAL NO.

N/A
RECEIVED

5 ITEM DESCRIPTION

HVAC Duct Segment
Traveler # F16198

APR 21 1984

C. P. Co. Legal

6 ITEM STARTUP SYSTEM NO.

OGLH

7 REFERENCE DOCUMENT

Bechtel Tech. Spec. 7220-M-151A (Q) Rev.18

8 ASME A.N.I. REQUIRED

YES NO

9 INSPECTION RECORD NO.

PIPR # H-7-B

LOG NO.

2037

REV NO.

4

10 RESPONSIBLE ORGANIZATION

The Zack Company

11 NONCONFORMANCE DISCOVERED DURING:

POST INSPECT

TURNOVER

DESIGN

POST TURNOVER

RECEIVING

PRE-OP
TEST

CONST

FINAL
TURNOVER

RELEASE FOR INSPECT

OVERINSPECT

12 REQUIREMENT

1. Tech. Spec. 7220-M-151A(Q) Rev.18 para. 10.2.1 states, "Duct hangers and supports shall be fabricated as shown on the drawings."
2. Drawing C-846(Q) Rev.12 Detail 1C requires that a continuous weld be utilized on three sides of the juncture of the two duct pieces in a nested fitting configuration.

13 NONCONFORMANCE

The flare-vee groove welds joining duct pieces 36 and 42 on the bottom are stitch welds, not a continuous weld, as required. This condition is in violation of the above stated criteria.

14 NCR ORIGINATED BY (PERSON)

John Johnson 4-3-84
DATE

15 NCR ORIGINATED BY (DISCIPLINE)

MPQAD-HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED)

1

21 LOCATION OF HOLD TAGS

V25 sh. 3B Duct # 42

22 POTENTIAL 50.55(e)

YES NO

24 ACTION ITEM NO.

Z0953

26 ITEM PRIORITY CODE NO.

5

28 NCR REVIEWED BY:

John W. Orr

23 REPORTED TO MPQA MANAGER

DATE N/A

25 DISCIPLINE:

M

27 TREND CODE

~~ZZ-4~~ ³³⁸
4-13-84
ZZ-30001

DATE:

4-13-84

CONTINUED ON REVERSE

F-2M/1A (Rev 1)

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

_____	DATE	_____	DATE	_____	DATE
PROJECT FIELD ENGINEER		MPQAD CONCURRENCE		PFQCE (ASME)	
_____	DATE	_____	DATE	_____	DATE
LEAD DESIGN ORG		CP Co SMO (for turned over systems)		PQAE (ASME)	
_____	DATE	_____	DATE	_____	DATE
				A.N.I. (ASME)	

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION ACCEPTABLE UNACCEPTABLE
IF UNACCEPTABLE, REFERENCE SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

_____ MPQAD DATE
_____ A.N.I. (ASME) DATE

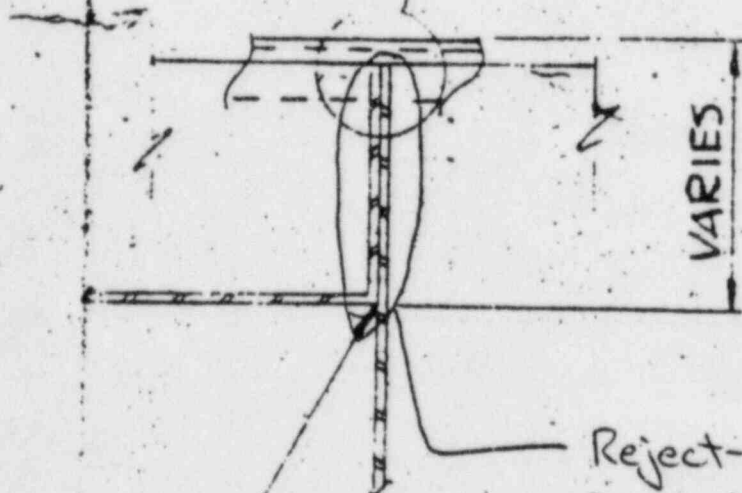
ORIGINAL

WHERE APPLICABLE
WELD UNDER STIFF-
NOT REQ'D

DETAIL ID

DET ID

SEE DET 3A 3B



Reject- Bottom of
Duct is stitch welded.

3
SIDES* (t)

DETAIL IC

ORIGINAL

ATTACHMENT TO NCR H-00411-22
INITIALS 19 DATE 4-3-84
PG. 3 of 3

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

ORIGINAL

NONCONFORMANCE REPORT

16 NCR NO.
H-00412-ZZ

17 DATE ISSUED
4/5/84

18 REV
0

19 PAGE 1 OF 6

1 ITEM LOCATION Aux. BLDG. 659'0" 4'4" E/S.3 ; 3'0" S/HK ; BOD 668'6"
MODULES 240A AND 290F

2 ITEM DRAWING/PART NO.
M525 SH 3Q Rev. 32
DUCT 121

3 ITEM PART NAME
ZACK DUCT #121

4 ITEM SERIAL NO.
N/A

5 ITEM DESCRIPTION V25 SH 3Q REV. 7 ; TRAVELER F846
ZACK DUCT #121

RECEIVED

APR 24 1984

6 ITEM STARTUP SYSTEM NO.
OGLT

7 REFERENCE DOCUMENT MB-FD-7B REV. 3
7220-M-151A Q REV. 18

8 ASME A.N.I. REQUIRED
 YES NO

9 INSPECTION RECORD NO.
78

LOG NO.
842060

REV NO.
4

10 RESPONSIBLE ORGANIZATION
ZACK COMPANY

11 NONCONFORMANCE DISCOVERED DURING:
 DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST INSPECT TURNOVER POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT
① BECHTEL TECH. SPEC. 7220-M-151A Q, REV. 18, PARAGRAPH 14.8.4.d STATES IN PART, "THE WELD SIZE SHALL MEET OR EXCEED THE SPECIFIED SIZE REQUIREMENTS." ... DRAWING C844 Q REV. 20, SECTION M REQUIRES STARTER WELDS TO BE 2 1/2" LONG FOR DUCTS WHICH ARE 12" X 10".
(SEE PAGE 3 OF 6.)

13 NONCONFORMANCE ① CONTRARY TO THE ABOVE REQUIREMENTS, 7 WELDS WERE UNDER LENGTH. ② CONTRARY TO THE ABOVE REQUIREMENT, 2 WELDS CONTAIN LACK OF FUSION WHICH IS NOT DUE TO ENTRAPPED SLAB OR WELD ROLLOVER. ③ CONTRARY TO THE ABOVE REQUIREMENTS, NO STIFFENER ANGLE EXISTS AT THE LOCATION CALLED OUT ON ZACK TRAVELER F846-5. IN ADDITION,

14 NCR ORIGINATED BY (PERSON)

Randy Carlson HR 4/5/84
DATE

15 NCR ORIGINATED BY (DISCIPLINE)

MPQAO - HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED)
1

21 LOCATION OF HOLD TAGS
BOTTOM OF DUCT

22 POTENTIAL 50.55(e)
 YES NO

24 ACTION ITEM NO.
Z0952

26 ITEM PRIORITY CODE NO.
5

28 NCR REVIEWED BY: JWB
DATE: 4-13-84

23 REPORTED TO MPQA MANAGER
DATE N/A

25 DISCIPLINE:
M

27 TREND CODE ③ 22-30001
① 22-40007
② 22-40002

DATE: 4-13-84

CONTINUED ON REVERSE

F-2M/LA (Rev 1)

29 CAUSE

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

PROJECT FIELD ENGINEER DATE MPQAD CONCURRENCE DATE PFQCE (ASME) DATE

PQAE (ASME) DATE

LEAD DESIGN ORG DATE CP Co SMO (for turned over systems) DATE

A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

MPQAD DATE

A.N.I. (ASME) DATE

ORIGINAL

ORIGINAL
NONCONFORMANCE REPORT
CONTINUATION SHEET

NCR NO.
H-00412-ZZ

DATE ISSUED
4/5/84

REV
0
2/4/84

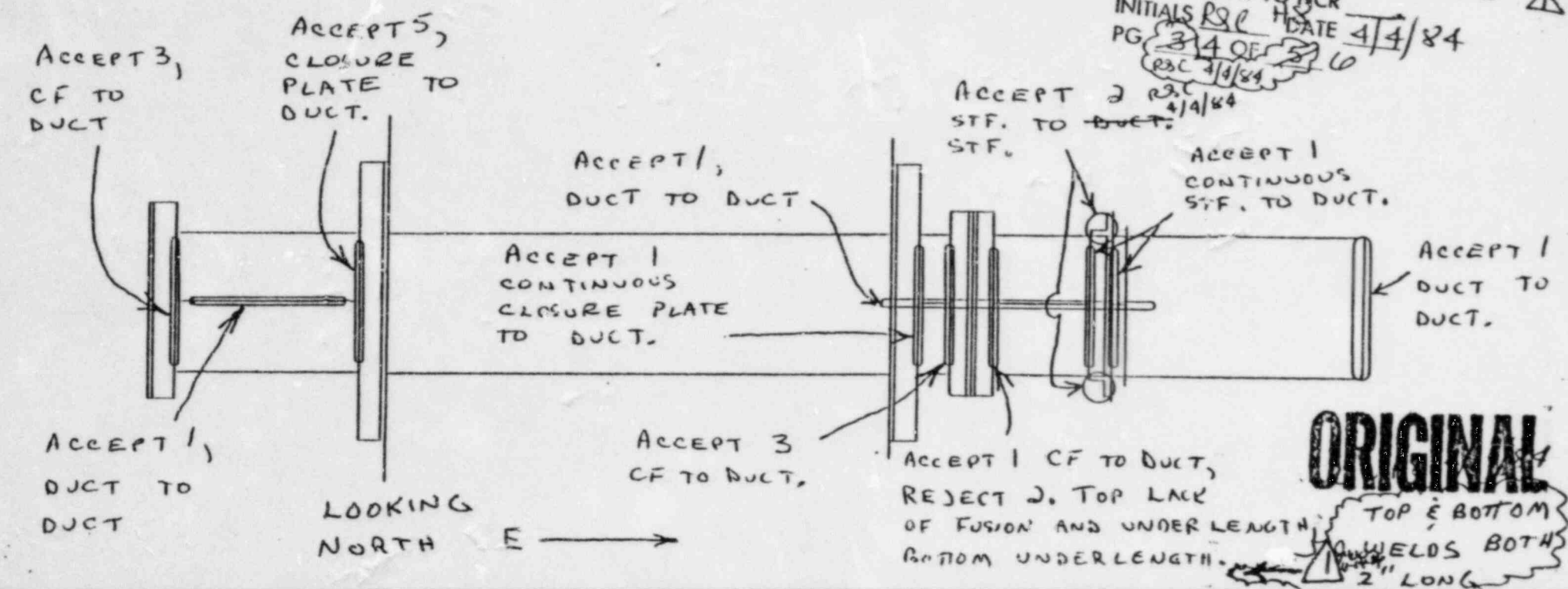
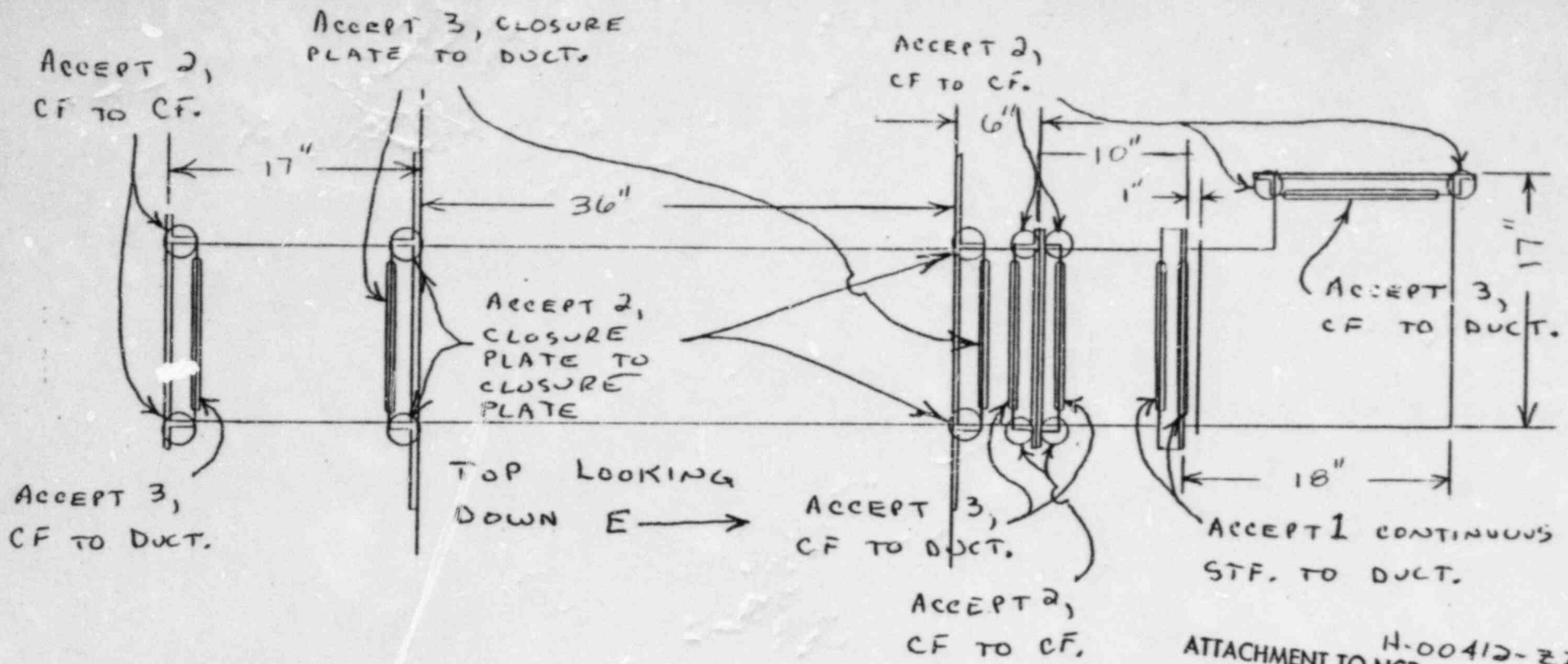
PAGE 3 OF 6

12 REQUIREMENT:

- ② M-151A Q REV. 1B, PARAGRAPH 14.8.4.1 REQUIRES THAT ALL LACK OF FUSION WHICH IS NOT DUE TO ENTRAPPED SLAG OR WELD ROLLOVER SHALL BE REJECTED.
- ③ ZACK PROCEDURE MB-FP-7B REV. 3, PARAGRAPH 7.1.1 STATES IN PART "... TRAVELERS ..." ARE GENERATED BY THE ZACK COMPANY FIELD ORGANIZATION TO DETAIL ACTIVITIES ASSOCIATED WITH THE "... INSTALLATION OF HVAC ... DUCT, ..." ZACK TRAVELER F846-5 WAS ISSUED REQUIRING A 1" x 1" x 1/8" STIFFENER TO BE INSTALLED AT 1" FROM THE END OF PIECE 121.

13 NONCONFORMANCE:

- ③ THE PIECES WHICH WERE CUT CAN NOT EVEN BE LOCATED BY THE ZACK COMPANY. SEE THE ATTACHED SKETCHES FOR THE LOCATION OF ALL NONCONFORMANCES.



H-00412-ZZ
 ATTACHMENT TO NCR
 INITIALS RSC HS
 DATE 4/4/84
 PG 34 OF 50
 RSC 4/4/84

ACCEPT 2 RSC
 4/4/84
 STF. TO DUCT.

ORIGINAL
 TOP & BOTTOM
 WELDS BOTH
 2" LONG

ACCEPT 2
CF TO CF.

ACCEPT 2,
CLOSURE PLATE
TO CLOSURE PLATE

ACCEPT 2, CF
TO CF.

ACCEPT 3,
CF TO DUCT.

ACCEPT 1 CONTINUOUS,
STF. TO DUCT

ACCEPT 3,
CLOSURE PLATE
TO DUCT

ACCEPT 1 CONTINUOUS
DUCT TO DUCT, TYP.
ON 4 SIDES.

BOTTOM
UP
LOOKING
E →

ACCEPT 2
CF TO DUCT.

ACCEPT 2,
CLOSURE PLATE
TO DUCT.

ACCEPT 2
CF TO CF.

ACCEPT 3,
CF TO DUCT.

ACCEPT 2,
CF TO CF.

REJECT 1 CF
TO DUCT. SOUTH
SIDE UNDERLENGTH.
WELD IS 2 1/4" LONG

RJC H8
4/1/84

ACCEPT 2,
CF TO CF.
STF. STF.
RJC
4/1/84

ACCEPT 1 CONTINUOUS
EXT. SEAL WELD,
TYP. 4 SIDES.

H-00412-22
ATTACHMENT TO NCR
INITIALS RJC H8 DATE 4/4/84
PG. 5 OF 6

REJECT 1, DUCT TO
DUCT, LACK OF
FUSION.

ACCEPT 3,
CF TO DUCT

ACCEPT 1 CONTINUOUS
CLOSURE PLATE TO
DUCT.

ACCEPT 3,
CF TO
DUCT.

ACCEPT 1
CONTINUOUS,
STF. TO
DUCT.

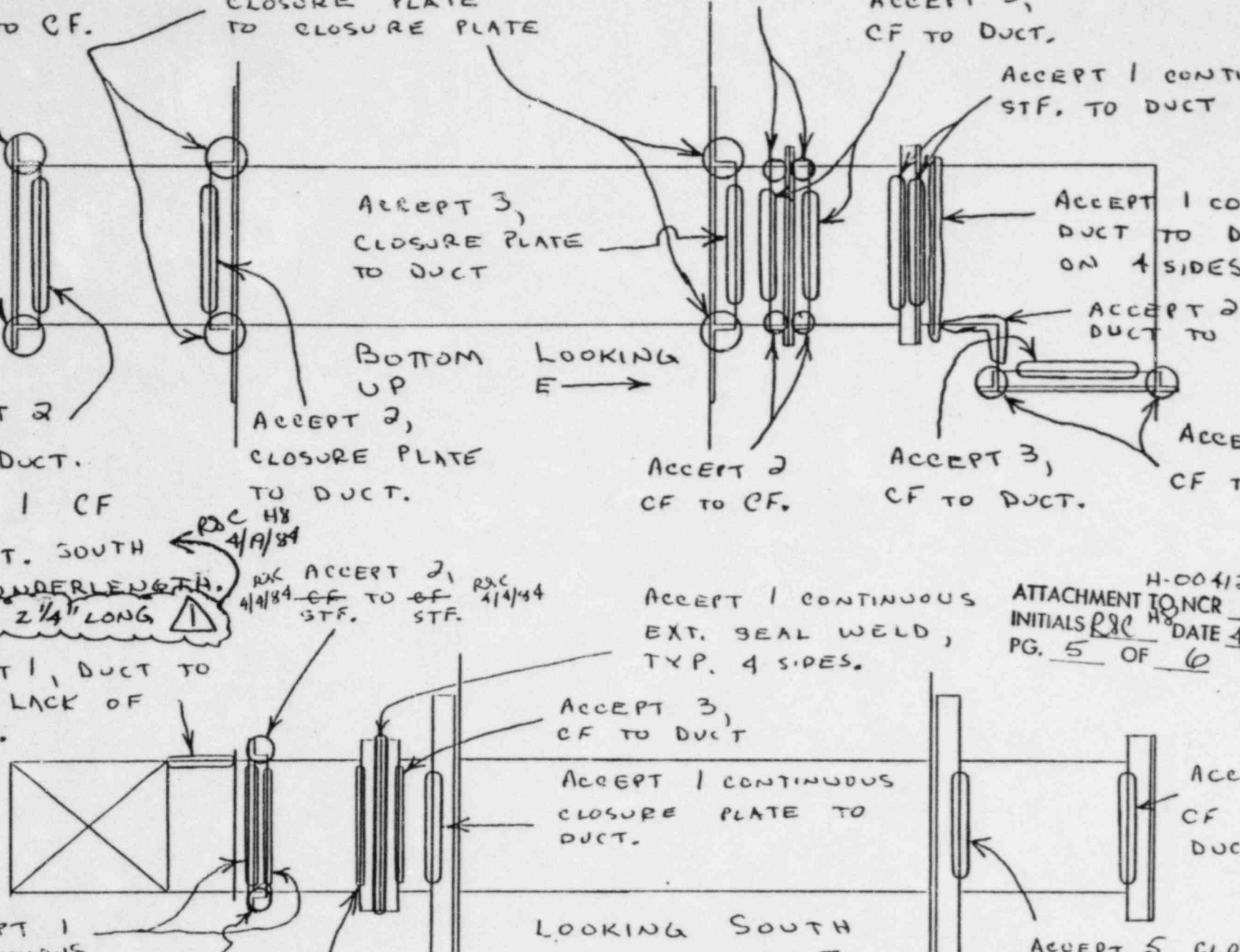
ACCEPT 2
STF. TO
STF.

ACCEPT 1 CF TO DUCT;
REJECT 2, TOP AND
BOTTOM, UNDERLENGTH.

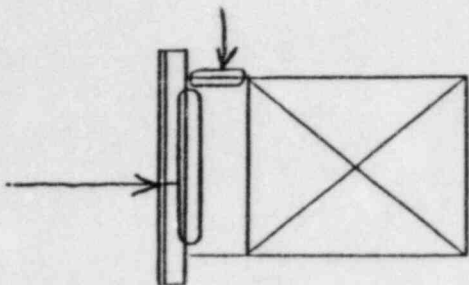
LOOKING SOUTH
← E

ACCEPT 5, CLOSURE
PLATE TO DUCT.


ORIGINAL
TOP & BOTTOM WELDS
BOTH 2" LONG.
RJC H8



ACCEPT 1,
DUCT TO DUCT.



ACCEPT 1
CF TO DUCT.
REJECT 2
CF TO DUCT,
TOP AND
BOTTOM,
BOTTOM,
UNDERLENGTH.

TOP WELD IS 1 5/8" LONG,
BOTTOM WELD IS
1 7/8" LONG. 

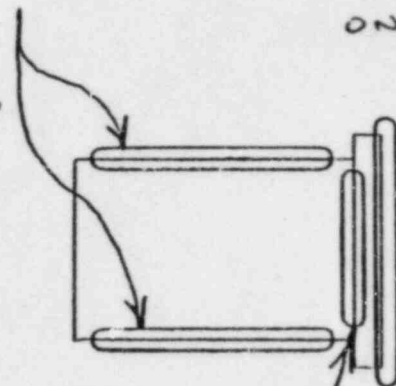
OUTSIDE
VIEW

LOOKING EAST

RSC H8 4/19/84

← N

ACCEPT 1
DUCT TO DUCT,
TOP &
BOTTOM.




ACCEPT 3
CF TO DUCT.

LOOKING WEST

N →

ACCEPT 1
CONTINUOUS
EXTERIOR SEAL
WELD,
ON 4
TYP.
SIDES.

ATTACHMENT TO NCR
INITIALS RSC HS DATE 4/4/84
PG. 6 OF 6

H-00412-22 

ORIGINAL

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

ORIGINAL

NONCONFORMANCE REPORT

16 NCR NO. H-00419-ZZ

17 DATE ISSUED

4/19/84

18 REV

0

19

PAGE 1 OF 1

1 ITEM LOCATION MODULE 220A AX 462A
AUXILIARY BUILDING 8'-3" EAST OF S.3, 4'-9" SOUTH OF K, BOD 667'-8"

2 ITEM DRAWING/PART NO.
V22SH1A REVISION B / DUCT 16
M 525 SH 3 REVISION 33

3 ITEM PART NAME
V22SH1A REVISION B / DUCT 16 / FG444

4 ITEM SERIAL NO.
N/A

5 ITEM DESCRIPTION
HVAC Duct Segment

RECEIVED

APR 21 1984

6 ITEM STARTUP SYSTEM NO.

OG/LH

7 REFERENCE DOCUMENT
AWS D1.1-79 & AWS D1.3-78

8 ASME A.N.I. REQUIRED
 YES NO

9 INSPECTION RECORD NO.

N/A

LOG NO.

N/A

REV NO.

N/A

10 RESPONSIBLE ORGANIZATION

Zack

11 NONCONFORMANCE DISCOVERED DURING:

POST INSPECT

TURNOVER

DESIGN

RECEIVING

CONST

RELEASE FOR INSPECT

POST TURNOVER

PRE-OP TEST

FINAL TURNOVER

OVERINSPECT

12 REQUIREMENT

AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."

AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE

Contrary to the above, an unqualified welder performed work on this piece.

14 NCR ORIGINATED BY (PERSON)

R.L. Bishop

4/19/84
DATE

15 NCR ORIGINATED BY (DISCIPLINE)

MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED)

1

21 LOCATION OF HOLD TAGS

ON DUCT SLEEVE

22 POTENTIAL 50.55(e)

YES NO

24 ACTION ITEM NO.

Z-0954

26 ITEM PRIORITY CODE NO.

3

28 NCR REVIEWED BY:

Heiliger

23 REPORTED TO MPQA MANAGER

DATE N/A

25 DISCIPLINE:

M

27 TREND CODE

ZZ-40001

DATE:

4/19/84

CONTINUED ON REVERSE

F-2M/1A (Rev 1)

ORIGINAL

29 CAUSE

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

PROJECT FIELD ENGINEER DATE

MPQAD CONCURRENCE DATE

PFQCE (ASME) DATE

PQAE (ASME) DATE

LEAD DESIGN ORG DATE

CP Co SMO (for turned over systems) DATE

A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

MPQAD DATE

A.N.I. (ASME) DATE

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

ORIGINAL

NONCONFORMANCE REPORT

15 MCR NO.

H-00421-ZZ

17 DATE ISSUED

4-19-84

18 REV

0

19

PAGE 1 OF RECEIVED

1 ITEM LOCATION MODULE 220A AX462A APR 21 1984
23" EAST OF S.B LINE 9'3" NORTH OF KC LINE, BOD 668'4" C.P. Co. Legal

2 ITEM DRAWING/PART NO.
V22SHIA REV 8 / DUCT 17
M525 SH.1 REV 24

3 ITEM PART NAME F6443
V22SHIA REV 8 / DUCT 17

4 ITEM SERIAL NO.

N/A

5 ITEM DESCRIPTION
HVAC Duct Segment

6 ITEM STARTUP SYSTEM NO.
06LH

7 REFERENCE DOCUMENT
AWS D1.1-79 & AWS D1.3-78

8 ASME A.N.I. REQUIRED
 YES NO

9 INSPECTION RECORD NO.
N/A

LOG NO.
N/A

REV NO.
N/A

10 RESPONSIBLE ORGANIZATION
Zack

11 NONCONFORMANCE DISCOVERED DURING:
 POST INSPECT TURNOVER POST TURNOVER DESIGN RECEIVING CONST RELEASE FOR INSPECT
 PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT

AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."

AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE

Contrary to the above, an unqualified welder performed work on this piece.

14 MCR ORIGINATED BY (PERSON)

R. L. Bishop

4/19/84
DATE

15 MCR ORIGINATED BY (DISCIPLINE)

MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED)

1

21 LOCATION OF HOLD TAGS

ON DUCT 17

22 POTENTIAL 50.55(e)
 YES NO

24 ACTION ITEM NO.
Z 0955

25 ITEM PRIORITY CODE NO.
3

28 MCR REVIEWED BY:

Heiberger

23 REPORTED TO MPQA MANAGER
DATE N/A

25 DISCIPLINE:
M

27 TREND CODE
ZZ-40001

DATE:

4/19/84

CONTINUED ON REVERSE

F-2M/1A (Rev 1)

ORIGINAL
ORIGINAL

29 CAUSE

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

Rework SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

PROJECT FIELD ENGINEER DATE

MPQAD CONCURRENCE DATE

PFQE (ASME) DATE

PQAE (ASME) DATE

LEAD DESIGN ORG DATE

CP Co SMO (for turned over systems) DATE

A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING MCR NUMBER _____

37 MCR CLOSED BY

MPQAD DATE

A.N.I. (ASME) DATE

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

ORIGINAL

NONCONFORMANCE REPORT

16 NCR NO.

14-00422-ZZ

17 DATE ISSUED

4-19-84

18 REV

0

19

PAGE 1 OF 1

RECEIVED

APR 21 1984

C. P. Co. Legal

1 ITEM LOCATION MODULE 220A AX462A

5'10" NORTH OF KC LINE 1'5" WEST OF 56 LINE, VERTICAL RUN 5.3 CHASE

2 ITEM DRAWING/PART NO.

V22SHIA REV B / DUCT 112
M.527SH.3 REV.25

3 ITEM PART NAME

P1149

4 ITEM SERIAL NO.

N/A

5 ITEM DESCRIPTION

HVAC Duct Segment

6 ITEM STARTUP SYSTEM NO.

06LH

7 REFERENCE DOCUMENT

AWS D1.1-79 & AWS D1.3-78

8 ASME A.N.I. REQUIRED

YES NO

9 INSPECTION RECORD NO.

N/A

LOG NO.

N/A

REV NO.

N/A

10 RESPONSIBLE ORGANIZATION

Zack

11 NONCONFORMANCE DISCOVERED DURING:

POST INSPECT TURNOVER DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT

AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."

AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE

Contrary to the above, an unqualified welder performed work on this piece.

14 NCR ORIGINATED BY (PERSON)

R. L. Bishop

4/19/84
DATE

15 NCR ORIGINATED BY (DISCIPLINE)

MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED)

1

21 LOCATION OF HOLD TAGS

ON DUCT 112

22 POTENTIAL 50.55(e)

YES NO

24 ACTION ITEM NO.

Z 0956

26 ITEM PRIORITY CODE NO.

3

28 NCR REVIEWED BY:

Heberger

23 REPORTED TO MPQA MANAGER

DATE N/A

25 DISCIPLINE:

M

27 TREND CODE

ZZ-40001

DATE:

4/19/84

CONTINUED ON REVERSE

F-2M/1A (Rev 1)

29 CAUSE

ORIGINAL

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

_____	_____	_____	_____	_____	_____
PROJECT FIELD ENGINEER	DATE	MPQAD CONCURRENCE	DATE	PFQCE (ASME)	DATE
_____	_____	_____	_____	_____	_____
LEAD DESIGN ORG	DATE	CP Co SMO (for turned over systems)	DATE	PQAE (ASME)	DATE
_____	_____	_____	_____	_____	_____
				A.N.I. (ASME)	DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPCSSION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

_____ MPQAD DATE

_____ A.N.I. (ASME) DATE

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

ORIGINAL
NONCONFORMANCE REPORT

16 NCR NO. 11-00423-22
17 DATE ISSUED 4-19-84 18 REV 0
19 PAGE 1 OF 1

1 ITEM LOCATION MODULE 220A AX462A
AUXILIARY BUILDING 4'-0" EAST OF 5.3 TO WEST EDGE, APPROXIMATELY 7'-3" NORTH OF
KC TO SOUTH EDGE BOD 693'-11"

2 ITEM DRAWING/PART NO. V22 SH 1A REVISION 8 / DUCT 28 3 ITEM PART NAME V22 SH 1A REVISION 8 / DUCT 28 / P1114 4 ITEM SERIAL NO. RECEIVED
M 527 SH 3 REVISION 25

5 ITEM DESCRIPTION HVAC Duct Segment APR 21 1984
C. P. Co. Legal

6 ITEM STARTUP SYSTEM NO. OGLH 7 REFERENCE DOCUMENT AWS D1.1-79 & AWS D1.3-78 8 ASME A.N.I. REQUIRED YES NO

9 INSPECTION RECORD NO. N/A LOG NO. N/A REV NO. N/A 10 RESPONSIBLE ORGANIZATION Zack

11 NONCONFORMANCE DISCOVERED DURING:
 POST INSPECT TURNOVER DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT
AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."
AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE
Contrary to the above, an unqualified welder performed work on this piece.

14 NCR ORIGINATED BY (PERSON) R.L. Bishop 4/19/84
DATE
15 NCR ORIGINATED BY (DISCIPLINE) MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED) 1 21 LOCATION OF HOLD TAGS ON DUCT 28

22 POTENTIAL 50.55(e) YES NO 24 ACTION ITEM NO. Z-0957 26 ITEM PRIORITY CODE NO. 3 28 NCR REVIEWED BY: Heiberg

23 REPORTED TO MPQA MANAGER DATE N/A 25 DISCIPLINE: M 27 TREND CODE ZZ-40001 DATE: 4/19/84

ORIGINAL
ORIGINAL

29 CAUSE

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

_____	_____	_____	_____	_____	_____
PROJECT FIELD ENGINEER	DATE	MPQAD CONCURRENCE	DATE	PFQCE (ASME)	DATE
_____	_____	_____	_____	_____	_____
LEAD DESIGN ORG	DATE	CP Co SMO (for turned over systems)	DATE	PQAE (ASME)	DATE
_____	_____	_____	_____	_____	_____
				A.N.I. (ASME)	DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION
 ACCEPTABLE UNACCEPTABLE IF UNACCEPTABLE, REFERENCE SUPERCEDING MCR NUMBER _____

37 MCR CLOSED BY

_____	_____
MPQAD	DATE
_____	_____
A.N.I. (ASME)	DATE

ORIGINAL

NONCONFORMANCE REPORT

16 MCR NO.

H-00424-ZZ

17 DATE ISSUED

4-19-84

18 REV

0

19

PAGE 1 OF 1

1 ITEM LOCATION MODULE 220A AX462A
AUXILIARY BUILDING 6'-7" NORTH OF KC, 9'-2" EAST OF 5.3 BOD 676'-7"

2 ITEM DRAWING/PART NO.
V22 SH 1A REVISION B/DUCT 35
M526 SH 1 REVISION 26

3 ITEM PART NAME
V22 SH 1A REVISION B/DUCT 35/F6454

4 ITEM SERIAL NO.
N/A RECEIVED

5 ITEM DESCRIPTION
HVAC Duct Segment

APR 21 1984

C. P. Co. Legal

6 ITEM STARTUP SYSTEM NO.
OGLH

7 REFERENCE DOCUMENT
AWS D1.1-79 & AWS D1.3-78

8 ASME A.N.I. REQUIRED
 YES NO

9 INSPECTION RECORD NO.
N/A

LOG NO.
N/A

REV NO.
N/A

10 RESPONSIBLE ORGANIZATION
Zack

11 NONCONFORMANCE DISCOVERED DURING:
 POST INSPECT TURNOVER DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT

AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."

AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE

Contrary to the above, an unqualified welder performed work on this piece.

14 MCR ORIGINATED BY (PERSON)

Rot Bishop

4/19/84
DATE

15 MCR ORIGINATED BY (DISCIPLINE)

MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED)

1

21 LOCATION OF HOLD TAGS

ON DUCT 35

22 POTENTIAL 50.55(e)

YES NO

24 ACTION ITEM NO.

Z0958

26 ITEM PRIORITY CODE NO.

3

28 MCR REVIEWED BY:

Heiberg

23 REPORTED TO MPQA MANAGER

DATE N/A

25 DISCIPLINE:

M

27 TREND CODE

ZZ-40001

DATE:

4/19/84

ORIGINAL
ORIGINAL

29 CAUSE

30. PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

PROJECT FIELD ENGINEER DATE

MPQAD CONCURRENCE DATE

PFQCE (ASME) DATE

PQAE (ASME) DATE

LEAD DESIGN ORG DATE

CP Co SMO (for turned over systems) DATE

A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

MPQAD DATE

A.N.I. (ASME) DATE

ORIGINAL

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NONCONFORMANCE REPORT

16 MCR NO.	H-00425-22	
17 DATE ISSUED	4-19-84	18 REV 0
19	PAGE 1 OF 1	

1 ITEM LOCATION MODULE 220A AX462A
AUXILIARY BUILDING 4'-0" EAST OF S.3, 5'-8" NORTH OF KC, BOD APPROXIMATELY
679-8"

2 ITEM DRAWING/PART NO. <u>V22 SH 1A REVISION B / DUCT 24</u> <u>M526 SH 1 REVISION 26</u>	3 ITEM PART NAME <u>V22 SH 1A REVISION B / DUCT 24 / P1093</u>	4 ITEM SERIAL NO. <u>N/A</u>
--	---	---------------------------------

5 ITEM DESCRIPTION
HVAC Duct Segment

RECEIVED
APR 21 1984
C. P. Co. Legal

6 ITEM STARTUP SYSTEM NO. <u>OG LH</u>	7 REFERENCE DOCUMENT <u>AWS D1.1-79 & AWS D1.3-78</u>	8 ASME A.N.I. REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
---	--	---

9 INSPECTION RECORD NO. <u>N/A</u>	LOG NO. <u>N/A</u>	REV NO. <u>N/A</u>	10 RESPONSIBLE ORGANIZATION <u>Zack</u>
---------------------------------------	-----------------------	-----------------------	--

11 NONCONFORMANCE DISCOVERED DURING:

<input checked="" type="checkbox"/> POST INSPECT	<input type="checkbox"/> TURNOVER	<input type="checkbox"/> DESIGN	<input type="checkbox"/> RECEIVING	<input type="checkbox"/> CONST	<input type="checkbox"/> RELEASE FOR INSPECT
<input type="checkbox"/> POST TURNOVER	<input type="checkbox"/> PRE-OP TEST	<input type="checkbox"/> FINAL TURNOVER	<input type="checkbox"/> OVERINSPECT		

12 REQUIREMENT

AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."

AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE
Contrary to the above, an unqualified welder performed work on this piece.

14 MCR ORIGINATED BY (PERSON) <u>R.L. Bishop</u>	<u>4/19/84</u> DATE
15 MCR ORIGINATED BY (DISCIPLINE) <u>MPQAD HVACA</u>	

20 NUMBER OF HOLD TAGS (IF APPLIED) <u>1</u>	21 LOCATION OF HOLD TAGS <u>ON DUCT 24</u>
---	---

22 POTENTIAL 50.55(e) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	24 ACTION ITEM NO. <u>Z0959</u>	26 ITEM PRIORITY CODE NO. <u>3</u>	28 MCR REVIEWED BY: <u>Hestberg</u>
--	------------------------------------	---------------------------------------	--

23 REPORTED TO MPQA MANAGER DATE <u>N/A</u>	25 DISCIPLINE: <u>M</u>	27 TREND CODE <u>ZZ-40001</u>	DATE: <u>4/19/84</u>
--	----------------------------	----------------------------------	-------------------------

CONTINUED ON REVERSE

29 CAUSE

ORIGINAL

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REMARK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

_____	_____	_____	_____	_____	_____
PROJECT FIELD ENGINEER	DATE	MPQAD CONCURRENCE	DATE	PFQCE (ASME)	DATE
_____	_____	_____	_____	_____	_____
LEAD DESIGN ORG	DATE	CP Co SMO (for turned over systems)	DATE	PQAE (ASME)	DATE
_____	_____	_____	_____	_____	_____
				A.N.I. (ASME)	DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION ACCEPTABLE UNACCEPTABLE IF UNACCEPTABLE, REFERENCE SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

_____	_____
MPQAD	DATE
_____	_____
A.N.I. (ASME)	DATE

ORIGINAL

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NONCONFORMANCE REPORT

16 MCR NO. 17-00426-ZZ
17 DATE ISSUED 4-19-84 18 REY 0
19 PAGE 1 OF 1

1 ITEM LOCATION MODULE 220A AX462A
AUXILIARY BUILDING 9'-2" EAST OF 5.3 TO WEST FACE OF DUCT, 4'-6" NORTH OF KC TO
SOUTH FACE OF DUCT

2 ITEM DRAWING/PART NO. V22SH1A REVISION 8/DUCT 37 3 ITEM PART NAME V22SH1A REVISION 8/DUCT 37/F6456 4 ITEM SERIAL NO. N/A
M526 SH.1 REVISION 8 26

5 ITEM DESCRIPTION F42 H/A/BH **RECEIVED**
HVAC Duct Segment APR 21 1984

6 ITEM STARTUP SYSTEM NO. 0GLH 7 REFERENCE DOCUMENT AWS D1.1-79 & AWS D1.3-78 8 ASME A.N.I. REQUIRED
 YES NO

9 INSPECTION RECORD NO. N/A LOG NO. N/A REV NO. N/A 10 RESPONSIBLE ORGANIZATION Zack

11 NONCONFORMANCE DISCOVERED DURING:
 POST INSPECT TURNOVER DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT
AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."

AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE
Contrary to the above, an unqualified welder performed work on this piece.

14 MCR ORIGINATED BY (PERSON) R. L. Bishop 4/19/84
DATE
15 MCR ORIGINATED BY (DISCIPLINE) MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED) 1 21 LOCATION OF HOLD TAGS ON DUCT 37

22 POTENTIAL 50.55(e) YES NO 24 ACTION ITEM NO. Z-0960 26 ITEM PRIORITY CODE NO. 3 28 MCR REVIEWED BY: Heiberg

23 REPORTED TO MPQA MANAGER DATE N/A 25 DISCIPLINE: M 27 TREND CODE ZZ-40001 DATE: 4/19/84

CONTINUED ON REVERSE

F-2M/1A (Rev 1)

ORIGINAL
ORIGINAL

29 CAUSE

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REMORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

PROJECT FIELD ENGINEER DATE

MPQAD CONCURRENCE DATE

PFQCE (ASME) DATE

PQAE (ASME) DATE

LEAD DESIGN ORG DATE

CP Co SMO (for turned over systems) DATE

A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPCSION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

MPQAD DATE

A.N.I. (ASME) DATE

ORIGINAL

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NONCONFORMANCE REPORT

16 NCR NO. H-00427-ZZ	18 REY 0
17 DATE ISSUED 4-19-84	
19 PAGE <u>1</u> OF <u>1</u>	

1 ITEM LOCATION MODULE 220A AX462A
AUXILIARY BUILDING 13'-0" WEST OF S.9 TO EAST EDGE OF DUCT, 5'-6" NORTH OF KC
TO SOUTH EDGE OF DUCT

2 ITEM DRAWING/PART NO. V22 SH1A REVISION B / DUCT 113 M527 SH.3 REVISION 25	3 ITEM PART NAME V22 SH1A REVISION B / DUCT 113 / F6485	4 ITEM SERIAL NO. N/A
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5 ITEM DESCRIPTION
HVAC Duct Segment

RECEIVED
APR 21 1984
C. P. Co. Legal

6 ITEM STARTUP SYSTEM NO. OGLH	7 REFERENCE DOCUMENT AWS D1.1-79 & AWS D1.3-78	8 ASME A.N.I. REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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9 INSPECTION RECORD NO. N/A	LOG NO. N/A	REV NO. N/A	10 RESPONSIBLE ORGANIZATION Zack
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11 NONCONFORMANCE DISCOVERED DURING:

<input checked="" type="checkbox"/> POST INSPECT	<input type="checkbox"/> TURNOVER	<input type="checkbox"/> DESIGN	<input type="checkbox"/> RECEIVING	<input type="checkbox"/> CONST	<input type="checkbox"/> RELEASE FOR INSPECT
<input type="checkbox"/> POST TURNOVER	<input type="checkbox"/> PRE-OP TEST	<input type="checkbox"/> FINAL TURNOVER	<input type="checkbox"/> OVERINSPECT		

12 REQUIREMENT

AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."

AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE
Contrary to the above, an unqualified welder performed work on this piece.

14 NCR ORIGINATED BY (PERSON) <u>R. L. Bishop</u>	<u>4/19/84</u> DATE
15 NCR ORIGINATED BY (DISCIPLINE) MPQAD HVACA	

20 NUMBER OF HOLD TAGS (IF APPLIED) 1	21 LOCATION OF HOLD TAGS ON Duct 113
--	---

22 POTENTIAL 50.55(e) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	24 ACTION ITEM NO. Z0961	26 ITEM PRIORITY CODE NO. 3	28 NCR REVIEWED BY: <u>Heiberg</u>
--	-----------------------------	--------------------------------	---------------------------------------

23 REPORTED TO MPQA MANAGER DATE <u>N/A</u>	25 DISCIPLINE: M	27 TREND CODE ZZ-40001	DATE. <u>4/19/84</u>
--	---------------------	---------------------------	-------------------------

CONTINUED ON REVERSE

ORIGINAL ORIGINAL

29 CAUSE

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

PROJECT FIELD ENGINEER DATE

MPQAD CONCURRENCE DATE

PFQCE (ASME) DATE

PQAE (ASME) DATE

LEAD DESIGN ORG DATE

CP Co SMO (for turned over systems) DATE

A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

MPQAD DATE

A.N.I. (ASME) DATE

ORIGINAL

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NONCONFORMANCE REPORT

16 MCR NO. H00428ZZ

17 DATE ISSUED 4/19/84 18 REV 0

19 PAGE 1 OF 1

1 ITEM LOCATION MODULE 220-D AXB 463B
AUXILIARY BUILDING 4'-10" NORTH OF KC TO DUCT CENTERLINE, 18" EAST OF 6.6 TO
DUCT CENTERLINE, BOD APPROXIMATELY 679'-0"

2 ITEM DRAWING/PART NO. V22 SH 2A REVISION 6 / DUCT 30
M524 SH. 2 REVISION 30 3 ITEM PART NAME V22 SH 2A REVISION 6 / DUCT 30 / F18224 4 ITEM SERIAL NO. N/A

5 ITEM DESCRIPTION HVAC Duct Segment RECEIVED
APR 21 1984
P. Co. Legal

6 ITEM STARTUP SYSTEM NO. OGLJ 7 REFERENCE DOCUMENT AWS D1.1-79 & AWS D1.3-78 8 ASME A.M.I. REQUIRED
 YES NO

9 INSPECTION RECORD NO. N/A LOG NO. N/A REV NO. N/A 10 RESPONSIBLE ORGANIZATION Zack

11 NONCONFORMANCE DISCOVERED DURING:
 POST INSPECT TURNOVER DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT
AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."
AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE
Contrary to the above, an unqualified welder performed work on this piece.

14 MCR ORIGINATED BY (PERSON) R.L. Bishop 4/19/84
DATE

15 MCR ORIGINATED BY (DISCIPLINE) MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED) 1 21 LOCATION OF HOLD TAGS ON DUCT 30

22 POTENTIAL 50.55(e) YES NO 24 ACTION ITEM NO. Z 0962 26 ITEM PRIORITY CODE NO. 3 28 MCR REVIEWED BY: Heibeger

23 REPORTED TO MPQA MANAGER DATE N/A 25 DISCIPLINE: M 27 TREND CODE 22-40001 DATE: 4/19/84

CONTINUED ON REVERSE

ORIGINAL

29 CAUSE

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

PROJECT FIELD ENGINEER DATE

MPQAD CONCURRENCE DATE

PFQCE (ASME) DATE

PQAE (ASME) DATE

LEAD DESIGN ORG DATE

CP Co SMO (for turned over systems) DATE

A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

MPQAD DATE

A.N.I. (ASME) DATE

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

ORIGINAL

NONCONFORMANCE REPORT

16 NCR NO. H-00429 ZZ
17 DATE ISSUED 4/19/84 18 REV 0

19 PAGE 1 OF 1

1 ITEM LOCATION MODULE 220D AXB 463B
AUXILIARY BUILDING 4'-10" NORTH OF KC TO DUCT CENTERLINE, 18" EAST OF 6.6 TO
DUCT CENTERLINE, BOD APPROXIMATELY 671'-0"

2 ITEM DRAWING/PART NO. V22 SH 2A REVISION 6/DUCT 30.1
MS24 SH. 2 REVISION 30 3 ITEM PART NAME V22 SH 2A REVISION 6/DUCT 30.1/F18225 4 ITEM SERIAL NO. N/A

5 ITEM DESCRIPTION HVAC Duct Segment RECEIVED APR 21 1984 P. Co. Legal

6 ITEM STARTUP SYSTEM NO. OGLJ 7 REFERENCE DOCUMENT AWS D1.1-79 & AWS D1.3-78 8 ASME A.N.I. REQUIRED YES NO

9 INSPECTION RECORD NO. N/A LOG NO. N/A REV NO. N/A 10 RESPONSIBLE ORGANIZATION Zack

11 NONCONFORMANCE DISCOVERED DURING: POST INSPECT TURNOVER DESIGN RECEIVING CONST RELEASE FOR INSPECT POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT
AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."
AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE
Contrary to the above, an unqualified welder performed work on this piece.

14 NCR ORIGINATED BY (PERSON) R.L. Bishop 4/19/84 DATE
15 NCR ORIGINATED BY (DISCIPLINE) MFQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED) 1 21 LOCATION OF HOLD TAGS ON DUCT 30.1

22 POTENTIAL 50.55(e) YES NO 24 ACTION ITEM NO. Z0963 26 ITEM PRIORITY CODE NO. 3 28 NCR REVIEWED BY: Heiberger

23 REPORTED TO MPQA MANAGER DATE N/A 25 DISCIPLINE: M 27 TREND CODE ZZ-40001 DATE: 4/19/84

ORIGINAL

29

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REMORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

_____	_____	_____	_____	_____	_____
PROJECT FIELD ENGINEER	DATE	MPQAD CONCURRENCE	DATE	PFQCE (ASME)	DATE
_____	_____	_____	_____	_____	_____
LEAD DESIGN ORG	DATE	CP Co SMO (for turned over systems)	DATE	PQAE (ASME)	DATE
_____	_____	_____	_____	_____	_____
				A.N.I. (ASME)	DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION
 ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

_____	_____
MPQAD	DATE
_____	_____
A.N.I. (ASME)	DATE

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

ORIGINAL
NONCONFORMANCE REPORT

16 NCR NO.

H-0043077

17 DATE ISSUED

4/19/84

18 REV

0

19

PAGE 1 OF 1

1 ITEM LOCATION MODULE 220 D AXB 463 B
AUXILIARY BUILDING 4'-10" NORTH OF KC TO DUCT CENTERLINE, 18" EAST OF 6.6 TO
DUCT CENTERLINE, BCD APPROXIMATELY 663'-0"

2 ITEM DRAWING/PART NO.
V22 SH 2A REVISION 6/DUCT 30.2
M524 SH.2 REVISION 30

3 ITEM PART NAME
V22 SH. 2A REVISION 6/DUCT 30.2/F 18226

4 ITEM SERIAL NO.
N/A
RECEIVED

5 ITEM DESCRIPTION
HVAC Duct Segment

APR 21 1984

C. P. Co. Legal

6 ITEM STARTUP SYSTEM NO.
OG L J

7 REFERENCE DOCUMENT
AWS D1.1-79 & AWS D1.3-78

8 ASME A.N.I. REQUIRED
 YES NO

9 INSPECTION RECORD NO.
N/A

LOG NO.
N/A

REV NO.
N/A

10 RESPONSIBLE ORGANIZATION
Zack

11 NONCONFORMANCE DISCOVERED DURING:

POST INSPECT TURNOVER DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT

AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."

AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE

Contrary to the above, an unqualified welder performed work on this piece.

14 NCR ORIGINATED BY (PERSON)

R. L. Bishop

4/19/84
DATE

15 NCR ORIGINATED BY (DISCIPLINE)

MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED)

1

21 LOCATION OF HOLD TAGS

ON DUCT 30.2

22 POTENTIAL 50.55(e)

YES NO

24 ACTION ITEM NO.

Z0964

26 ITEM PRIORITY CODE NO.

3

28 NCR REVIEWED BY:

Heiberger

23 REPORTED TO MPQA MANAGER

DATE N/A

25 DISCIPLINE:

M

27 TREND CODE

ZZ-40001

DATE:

4/19/84

CONTINUED ON REVERSE

F-2M/LA (Rev 1)

ORIGINAL
~~ORIGINAL~~

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

PROJECT FIELD ENGINEER DATE

MPQAD CONCURRENCE DATE

PFQCE (ASME) DATE

PQAE (ASME) DATE

LEAD DESIGN ORG DATE

CP Co SMO (for turned over systems) DATE

A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

MPQAD DATE

A.N.I. (ASME) DATE

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

ORIGINAL

NONCONFORMANCE REPORT

16 NCR NO.

H-00431-77

17 DATE ISSUED

4/19/84

18 REV

RECEIVED

19

PAGE 1 OF APR 21 1984

C. P. Co. Legal

1 ITEM LOCATION MODULE 220 D AXB 463 B
AUXILIARY BUILDING 4'-10" NORTH OF KC TO DUCT CENTERLINE, 18" EAST OF 6.6 TO
DUCT CENTERLINE, BOD APPROXIMATELY 658'-0"

2 ITEM DRAWING/PART NO.
V22 SH 2A REVISION 6/DUCT 30.3
M524 SH. 2 REVISION 30

3 ITEM PART NAME

V22 SH 2A REVISION 6/DUCT 30.3/F18227

4 ITEM SERIAL NO.

N/A

5 ITEM DESCRIPTION

HVAC Duct Segment

6 ITEM STARTUP SYSTEM NO.

OGLJ

7 REFERENCE DOCUMENT

AWS D1.1-79 & AWS D1.3-78

8 ASME A.N.I. REQUIRED

YES NO

9 INSPECTION RECORD NO.

N/A

LOG NO.

N/A

REV NO.

N/A

10 RESPONSIBLE ORGANIZATION

Zack

11 NONCONFORMANCE DISCOVERED DURING:

POST INSPECT

TURNOVER

DESIGN

RECEIVING

CONST

RELEASE FOR INSPECT

POST TURNOVER

PRE-OP
TEST

FINAL
TURNOVER

OVERINSPECT

12 REQUIREMENT

AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."

AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE

Contrary to the above, an unqualified welder performed work on this piece.

14 NCR ORIGINATED BY (PERSON)

R. L. Bishop

4/19/84

DATE

15 NCR ORIGINATED BY (DISCIPLINE)

MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED)

1

21 LOCATION OF HOLD TAGS

ON DUCT 30.3

22 POTENTIAL 50.55(e)

YES NO

24 ACTION ITEM NO.

Z0965

26 ITEM PRIORITY CODE NO.

3

28 NCR REVIEWED BY:

Hieberger

23 REPORTED TO MPQA MANAGER

DATE N/A

25 DISCIPLINE:

M

27 TREND CODE

ZZ-40001

DATE:

4/19/84

CONTINUED ON REVERSE

F-2M/1A (Rev 1)

ORIGINAL
CAUSE

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

PROJECT FIELD ENGINEER DATE

MPQAD CONCURRENCE DATE

PFQCE (ASME) DATE

PQAE (ASME) DATE

LEAD DESIGN ORG DATE

CP Co SMO (for turned over systems) DATE

A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPCSTION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING NCR NUMBER _____

37 MCR CLOSED BY

MPQAD DATE

A.N.I. (ASME) DATE

ORIGINAL

16 MCR NO.

H-00432-77

17 DATE ISSUED

4/19/84

18 REV

0

19

RECEIVED

PAGE 1 OF 1 APR 21 1984

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NONCONFORMANCE REPORT

1 ITEM LOCATION MODULE 220 D AXB 463 B
AUXILIARY BUILDING 4'-10" NORTH OF KC TO DUCT CENTERLINE, 18" EAST OF LEGAL
DUCT CENTERLINE, ROD APPROXIMATELY 655'-0" C.P. Co. Legal

2 ITEM DRAWING/PART NO. V22 SH. 2A REVISION 6 / DUCT 30.32
M524 SH. 2 REVISION 30
3 ITEM PART NAME V22 SH. 2A REVISION 6 / DUCT 30.32 / F30462
4 ITEM SERIAL NO. N/A

5 ITEM DESCRIPTION
HVAC Duct Segment

6 ITEM STARTUP SYSTEM NO. OGLJ
7 REFERENCE DOCUMENT AWS D1.1-79 & AWS D1.3-78
8 ASME A.N.I. REQUIRED YES NO

9 INSPECTION RECORD NO. N/A
LOG NO. N/A
REV NO. N/A
10 RESPONSIBLE ORGANIZATION Zack

11 NONCONFORMANCE DISCOVERED DURING:
 POST INSPECT TURNOVER DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT
AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers qualified in accordance with the requirements of 5.3, or shall make certain that the welder, welding operator, or tacker has previously demonstrated his qualifications under other acceptable supervision."
AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE
Contrary to the above, an unqualified welder performed work on this piece.

14 MCR ORIGINATED BY (PERSON) R. L. Bishop 4/19/84
DATE
15 MCR ORIGINATED BY (DISCIPLINE) MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED) 1

21 LOCATION OF HOLD TAGS ON DUCT 30.32

22 POTENTIAL 50.55(e) YES NO

24 ACTION ITEM NO. Z0966

26 ITEM PRIORITY CODE NO. 3

28 MCR REVIEWED BY: Heiberger

23 REPORTED TO MPQA MANAGER DATE N/A

25 DISCIPLINE: M

27 TREND CODE 22-40001

DATE: 4/19/84

CONTINUED ON REVERSE

F-2M/LA (Rev 1)

ORIGINAL
29 CAUSE

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REMORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

_____ PROJECT FIELD ENGINEER	_____ DATE	_____ MPQAD CONCURRENCE	_____ DATE	_____ PFQCE (ASME)	_____ DATE
				_____ PQAE (ASME)	_____ DATE
_____ LEAD DESIGN ORG	_____ DATE	_____ CP Co SMO (for turned over systems)	_____ DATE	_____ A.N.I. (ASME)	_____ DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

MPQAD DATE

A.N.I. (ASME) DATE

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NONCONFORMANCE REPORT

ORIGINAL

16 NCR NO. H-00433-77
17 DATE ISSUED 4/19/84
18 REV 0
19 RECEIVED
PAGE 1 OF APR 24 1984

1 ITEM LOCATION MODULE 220D AXB 463B
AUXILIARY BUILDING 4'-10" NORTH OF KC TO DUCT CENTERLINE, 18" EAST OF 6.6 TO
DUCT CENTERLINE, BOD APPROXIMATELY 647'-0"

2 ITEM DRAWING/PART NO. U22 SH 2A REVISION 6/DUCT 30.4
M524 SH 2 REVISION 30
3 ITEM PART NAME V22 SH 2A REVISION 6/DUCT 30.4/F18228
4 ITEM SERIAL NO. N/A

5 ITEM DESCRIPTION
HVAC Duct Segment

6 ITEM STARTUP SYSTEM NO. OGLJ
7 REFERENCE DOCUMENT AWS D1.1-79 & AWS D1.3-78
8 ASME A.M.I. REQUIRED YES NO

9 INSPECTION RECORD NO. N/A
LOG NO. N/A
REV NO. N/A
10 RESPONSIBLE ORGANIZATION Zack

11 NONCONFORMANCE DISCOVERED DURING:
 POST INSPECT TURNOVER DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT
AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."
AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE
Contrary to the above, an unqualified welder performed work on this piece.

14 NCR ORIGINATED BY (PERSON) R. J. Bishop 4/19/84
DATE
15 NCR ORIGINATED BY (DISCIPLINE) MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED) 1
21 LOCATION OF HOLD TAGS ON DUCT 30.4

22 POTENTIAL 50.55(e) YES NO
24 ACTION ITEM NO. Z0967
25 ITEM PRIORITY CODE NO. 3
26 NCR REVIEWED BY: Heiberg

23 REPORTED TO MPQA MANAGER DATE N/A
25 DISCIPLINE: M
27 TREND CODE ZZ-40001
DATE: 4/19/84

CONTINUED ON REVERSE

ORIGINAL

29

CAUSE

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

PROJECT FIELD ENGINEER DATE

MPQAD CONCURRENCE DATE

PFQCE (ASME) DATE

PQAE (ASME) DATE

LEAD DESIGN ORG DATE

CP Co SMO (for turned over systems) DATE

A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE SUPERCEDING MCR NUMBER _____

37 MCR CLOSED BY

MPQAD DATE

A.N.I. (ASME) DATE

MIDLANT PROJECT
QUALITY ASSURANCE
DEPARTMENT

ORIGINAL

NONCONFORMANCE REPORT

16 NCR NO.

H-00434-27

17 DATE ISSUED

4/19/84

18 REV

0

19

RECEIVED

PAGE 1 OF APR 21 1984

1 ITEM LOCATION MODULE 220D AXB 463B
AUXILIARY BUILDING 4'10" NORTH OF KC TO DUCT CENTER LINE, 18" EAST OF 6.6 TO
DUCT CENTER LINE, BDD APPROXIMATELY 639'-0" C.P. Co. Legal

2 ITEM DRAWING/PART NO.
V22 SH 2A REVISION 6/DUCT 30.5
M524 SH 2 REVISION 30

3 ITEM PART NAME

V22 SH 2A REVISION 6/DUCT 30.5/F18229

4 ITEM SERIAL NO.

N/A

5 ITEM DESCRIPTION

HVAC Duct Segment

6 ITEM STARTUP SYSTEM NO.

OGJ

7 REFERENCE DOCUMENT

AWS D1.1-79 & AWS D1.3-78

8 ASME A.N.I. REQUIRED

YES NO

9 INSPECTION RECORD NO.

N/A

LOG NO.

N/A

REV NO.

N/A

10 RESPONSIBLE ORGANIZATION

Zack

11 NONCONFORMANCE DISCOVERED DURING:

POST INSPECT

TURNOVER

DESIGN

RECEIVING

CONST

RELEASE FOR INSPECT

POST TURNOVER

PRE-OP
TEST

FINAL
TURNOVER

OVERINSPECT

12 REQUIREMENT

AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."

AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE

Contrary to the above, an unqualified welder performed work on this piece.

14 NCR ORIGINATED BY (PERSON)

R L Bishop

4/19/84
DATE

15 NCR ORIGINATED BY (DISCIPLINE)

MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED)

1

21 LOCATION OF HOLD TAGS

ON DUCT 30.5

22 POTENTIAL 50.55(e)

YES NO

24 ACTION ITEM NO.

Z0968

26 ITEM PRIORITY CODE NO.

3

28 NCR REVIEWED BY:

Heiberg

23 REPORTED TO MPQA MANAGER

DATE N/A

25 DISCIPLINE:

M

27 TREND CODE

ZZ-40001

DATE:

4/19/84

CONTINUED ON REVERSE

F-2M/1A (Rev 1)

29 CAUSE

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

_____	DATE	_____	DATE	_____	DATE
PROJECT FIELD ENGINEER		MPQAD CONCURRENCE		PFQCE (ASME)	
_____	DATE	_____	DATE	_____	DATE
LEAD DESIGN ORG		CP Co SMO (for turned over systems)		PQAE (ASME)	
_____	DATE	_____	DATE	_____	DATE
				A.N.I. (ASME)	

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION
 ACCEPTABLE UNACCEPTABLE IF UNACCEPTABLE, REFERENCE SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

_____ DATE
MPQAD
_____ DATE
A.N.I. (ASME)

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NONCONFORMANCE REPORT

16 MCR NO.

H-00435-22

17 DATE ISSUED

4/19/84

18 REV

0

19

PAGE 1 OF RECEIVED

APR 21 1984

1 ITEM LOCATION

4'10" NORTH OF KC LINE 18" EAST OF 6.6 LINE, BOD 635'0"

C. P. Co. Legal

2 ITEM DRAWING/PART NO.

V22SH2A REV 6 / DUCT 31
M524 SH. 2 REV 30

3 ITEM PART NAME

P2464

4 ITEM SERIAL NO.

N/A

5 ITEM DESCRIPTION

HVAC Duct Segment

6 ITEM STARTUP SYSTEM NO.

OGLJ

7 REFERENCE DOCUMENT

AWS D1.1-79 & AWS D1.3-78

8 ASME A.N.I. REQUIRED

YES NO

9 INSPECTION RECORD NO.

N/A

LOG NO.

N/A

REV NO.

N/A

10 RESPONSIBLE ORGANIZATION

Zack

11 NONCONFORMANCE DISCOVERED DURING:

DESIGN

RECEIVING

CONST

RELEASE FOR INSPECT

POST INSPECT

TURNOVER

POST TURNOVER

PRE-OP TEST

FINAL TURNOVER

OVERINSPECT

12 REQUIREMENT

AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."

AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE

Contrary to the above, an unqualified welder performed work on this piece.

14 MCR ORIGINATED BY (PERSON)

R. L. Bishop

4/19/84
DATE

15 MCR ORIGINATED BY (DISCIPLINE)

MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED)

1

21 LOCATION OF HOLD TAGS

ON DUCT 31

22 POTENTIAL 50.55(e)

YES NO

24 ACTION ITEM NO.

Z0969

26 ITEM PRIORITY CODE NO.

3

28 MCR REVIEWED BY:

H. Sieber

23 REPORTED TO MPQA MANAGER

DATE N/A

25 DISCIPLINE:

M

27 TREND CODE

ZZ-40001

DATE:

4/19/84

CONTINUED ON REVERSE

F-2M/1A (Rev 1)

ORIGINAL
29 CAUSE
ORIGINAL

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

_____	_____	_____	_____	_____	_____
PROJECT FIELD ENGINEER	DATE	MPQAD CONCURRENCE	DATE	PFQCE (ASME)	DATE
_____	_____	_____	_____	_____	_____
LEAD DESIGN ORG	DATE	CP Co SMO (for turned over systems)	DATE	PQAE (ASME)	DATE
_____	_____	_____	_____	_____	_____
				A.N.I. (ASME)	DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION
 ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

_____	_____
MPQAD	DATE
_____	_____
A.N.I. (ASME)	DATE

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

ORIGINAL

NONCONFORMANCE REPORT

16 NCR NO. H-00436-27
17 DATE ISSUED 4/19/84 18 REV 0

19 PAGE 1 OF 1 RECEIVED

1 ITEM LOCATION 5'9" NORTH OF KC LINE 7'9" EAST OF 6.6 LINE, BOD 661'0" APR 21 1984
C.P. Co. Legal

2 ITEM DRAWING/PART NO. V22SH2A REV 6 / DUCT 46
M525 SH. 3 REV 33 3 ITEM PART NAME F4279 4 ITEM SERIAL NO. N/A

5 ITEM DESCRIPTION
HVAC Duct Segment

6 ITEM STARTUP SYSTEM NO. OG-LH 7 REFERENCE DOCUMENT AWS D1.1-79 & AWS D1.3-78 8 ASME A.N.I. REQUIRED
 YES NO

9 INSPECTION RECORD NO. N/A LOG NO. N/A REV NO. N/A 10 RESPONSIBLE ORGANIZATION
Zack

11 NONCONFORMANCE DISCOVERED DURING:
 POST INSPECT TURNOVER DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT
AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."
AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE
Contrary to the above, an unqualified welder performed work on this piece.

14 NCR ORIGINATED BY (PERSON) R. L. Bishop 4/19/84
DATE
15 NCR ORIGINATED BY (DISCIPLINE) MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED) 1 21 LOCATION OF HOLD TAGS ON DUCT 46

22 POTENTIAL 50.55(e) YES NO 24 ACTION ITEM NO. Z0970 26 ITEM PRIORITY CODE NO. 3 28 NCR REVIEWED BY: Heiberger

23 REPORTED TO MPQA MANAGER DATE N/A 25 DISCIPLINE: M 27 TREND CODE ZZ-40001 DATE: 4/19/84

CONTINUED ON REVERSE

UNCLASSIFIED

29 CAUSE

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

_____	DATE	_____	DATE	_____	DATE
PROJECT FIELD ENGINEER		MPQAD CONCURRENCE		PFQCE (ASME)	
_____	DATE	_____	DATE	_____	DATE
LEAD DESIGN ORG		CP Co SMO (for turned over systems)		PQAE (ASME)	
_____	DATE	_____	DATE	_____	DATE
				A.N.I. (ASME)	

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION
 ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

_____	DATE
MPQAD	
_____	DATE
A.N.I. (ASME)	

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

ORIGINAL

NONCONFORMANCE REPORT

16 NCR NO.

H-00437-27

17 DATE ISSUED

4/19/84

18 REV

0

19

PAGE 1 OF 1

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APR 21 1984

1 ITEM LOCATION

2'11" WEST OF 6.9 LINE 4'6" NORTH OF KC LINE, 685'

2 ITEM DRAWING/PART NO.

V22SH2A REV 6 / DUCT 42
M522 SH 2 REV 28

3 ITEM PART NAME

F4284

4 ITEM SERIAL NO.

N/A

5 ITEM DESCRIPTION

HVAC Duct Segment

6 ITEM STARTUP SYSTEM NO.

OG LH

7 REFERENCE DOCUMENT

AWS D1.1-79 & AWS D1.3-78

8 ASME A.N.I. REQUIRED

YES NO

9 INSPECTION RECORD NO.

N/A

LOG NO.

N/A

REV NO.

N/A

10 RESPONSIBLE ORGANIZATION

Zack

11 NONCONFORMANCE DISCOVERED DURING:

POST INSPECT

TURNOVER

DESIGN

POST TURNOVER

RECEIVING

PRE-OP TEST

CONST

FINAL TURNOVER

RELEASE FOR INSPECT

OVERINSPECT

12 REQUIREMENT

AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."

AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE

Contrary to the above, an unqualified welder performed work on this piece.

14 NCR ORIGINATED BY (PERSON)

R. J. Bishop

4/19/84
DATE

15 NCR ORIGINATED BY (DISCIPLINE)

MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED)

1

21 LOCATION OF HOLD TAGS

ON DUCT 42

22 POTENTIAL 50.55(e)

YES NO

24 ACTION ITEM NO.

Z0971

26 ITEM PRIORITY CODE NO.

3

28 NCR REVIEWED BY:

H. S. Berger

23 REPORTED TO MPQA MANAGER

DATE N/A

25 DISCIPLINE:

M

27 TREND CODE

ZZ-40001

DATE:

4/19/84

CONTINUED ON REVERSE

F-2M/1A (Rev 1)

ORIGINAL

29 CAUSE

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REMARK SCRAP/REJECT REPAIR USE /S IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

PROJECT FIELD ENGINEER DATE MPQAD CONCURRENCE DATE PFQCE (ASME) DATE

PQAE (ASME) DATE

LEAD DESIGN ORG DATE CP Co SMO (for turned over systems) DATE

A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

MPQAD DATE

A.N.I. (ASME) DATE

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

ORIGINAL

NONCONFORMANCE REPORT

16	MCR NO.	H-00438-22
17	DATE ISSUED	4-19-84
18	REY	0
19	PAGE <u>1</u> OF <u>1</u> RECEIVED APR 21 1984	

1 ITEM LOCATION MODULE 220F AX-464B
AUXILIARY BUILDING 5'-10" NORTH OF KC TO DUCT CENTERLINE, 11'-1" WEST OF 7.8 TO DUCT CENTERLINE C.P. Co. Legal

2 ITEM DRAWING/PART NO. V22 SH 2B REVISION 7 / DUCT 21 M523 SH 2 REVISION 19	3 ITEM PART NAME V22 SH 2B REVISION 7 / DUCT 21 / 4404	4 ITEM SERIAL NO. N/A
--	---	--------------------------

5 ITEM DESCRIPTION
HVAC Duct Segment

6 ITEM STARTUP SYSTEM NO. OGLJ	7 REFERENCE DOCUMENT AWS D1.1-79 & AWS D1.3-78	8 ASME A.N.I. REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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9 INSPECTION RECORD NO. N/A	LOG NO. N/A	REV NO. N/A	10 RESPONSIBLE ORGANIZATION Zack
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11 NONCONFORMANCE DISCOVERED DURING:

<input checked="" type="checkbox"/> POST INSPECT	<input type="checkbox"/> TURNOVER	<input type="checkbox"/> DESIGN	<input type="checkbox"/> RECEIVING	<input type="checkbox"/> CONST	<input type="checkbox"/> RELEASE FOR INSPECT
<input type="checkbox"/> POST TURNOVER	<input type="checkbox"/> PRE-OP TEST	<input type="checkbox"/> FINAL TURNOVER	<input type="checkbox"/> OVERINSPECT		

12 REQUIREMENT

AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."

AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE
Contrary to the above, an unqualified welder performed work on this piece.

14 MCR ORIGINATED BY (PERSON) <u>R L Bishop</u>	DATE <u>4/19/84</u>
15 MCR ORIGINATED BY (DISCIPLINE) <u>MPQAD HVACA</u>	

20 NUMBER OF HOLD TAGS (IF APPLIED) <u>1</u>	21 LOCATION OF HOLD TAGS <u>ON DUCT 21</u>
---	---

22 POTENTIAL 50.55(e) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	24 ACTION ITEM NO. <u>Z0972</u>	26 ITEM PRIORITY CODE NO. <u>3</u>	28 MCR REVIEWED BY: <u>Heilberger</u>
--	------------------------------------	---------------------------------------	--

23 REPORTED TO MPQA MANAGER DATE <u>N/A</u>	25 DISCIPLINE: <u>M</u>	27 TREND CODE <u>ZZ-40001</u>	DATE: <u>4/19/84</u>
--	----------------------------	----------------------------------	-------------------------

CONTINUED ON REVERSE

ORIGINAL

29. CAUSE

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REMARK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

_____ PROJECT FIELD ENGINEER	_____ DATE	_____ MPQAD CONCURRENCE	_____ DATE	_____ PFQCE (ASME)	_____ DATE	
				_____ PQAE (ASME)	_____ DATE	
_____ LEAD DESIGN ORG	_____ DATE	_____ CP Co SMO (for turned over systems)		_____ DATE	_____ A.N.I. (ASME)	_____ DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPCSTION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION
 ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

MPQAD DATE

A.N.I. (ASME) DATE

ORIGINAL

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NONCONFORMANCE REPORT

16 MCR NO.

H-00439-ZZ

17 DATE ISSUED

4-19-84

18 REV

0

19

RECEIVED

PAGE 1 OF 1 APR 21 1984

1 ITEM LOCATION MODULE 220F AX464B
AUXILIARY BUILDING 5'-10" NORTH OF KC TO DUCT CENTERLINE, 4'-7 1/2" WEST OF 7.8,
CENTERLINE ELEVATION 634'-0" C. P. Co. Legal

2 ITEM DRAWING/PART NO.
V22 SH 2B REVISION 7 / Duct 26
M523SH 2 REVISION 19

3 ITEM PART NAME

V22 SH 2B REVISION 7 / Duct 26 / F4408

4 ITEM SERIAL NO.

N/A

5 ITEM DESCRIPTION

HVAC Duct Segment

6 ITEM STARTUP SYSTEM NO.

OG LJ

7 REFERENCE DOCUMENT

AWS D1.1-79 & AWS D1.3-78

8 ASME A.N.I. REQUIRED

YES NO

9 INSPECTION RECORD NO.

N/A

LOG NO.

N/A

REV NO.

N/A

10 RESPONSIBLE ORGANIZATION

Zack

11 NONCONFORMANCE DISCOVERED DURING:

DESIGN

RECEIVING

CONST

RELEASE FOR INSPECT

POST INSPECT

TURNOVER

POST TURNOVER

PRE-OP TEST

FINAL TURNOVER

OVERINSPECT

12 REQUIREMENT

AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."

AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE

Contrary to the above, an unqualified welder performed work on this piece.

14 MCR ORIGINATED BY (PERSON)

L. L. Bishop

4/19/84
DATE

15 MCR ORIGINATED BY (DISCIPLINE)

MFQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED)

1

21 LOCATION OF HOLD TAGS

ON Duct 26

22 POTENTIAL 50.55(e)

YES NO

24 ACTION ITEM NO.

Z0973

26 ITEM PRIORITY CODE NO.

3

28 MCR REVIEWED BY:

Hibiger

23 REPORTED TO MPQA MANAGER

DATE N/A

25 DISCIPLINE:

M

27 TREND CODE

ZZ-40001

DATE:

4/19/84

CONTINUED ON REVERSE

F-2M/1A (Rev 1)

ORIGINAL

30 CAUSE

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

PROJECT FIELD ENGINEER DATE

MPQAD CONCURRENCE DATE

PFQCE (ASME) DATE

PQAE (ASME) DATE

LEAD DESIGN ORG DATE

CP Co SMO (for turned over systems) DATE

A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

MPQAD DATE

A.N.I. (ASME) DATE

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NONCONFORMANCE REPORT

16 NCR NO.

14-00440-ZZ

17 DATE ISSUED

4-19-84

18 REY

0

19

PAGE 1 OF 1

1 ITEM LOCATION MOD 220F — AX464B
4'-10" ~~5'-8"~~ NORTH OF KC TO DUCT CENTERLINE, 12'-1" WEST OF 7.8 TO DUCT CENTERLINE,
R.L.B. 4/19/84 CENTERLINE ELEVATION 638'-6"

2 ITEM DRAWING/PART NO.
V22SH2B REV 7 / DUCT 10
M-523 SH 2 REV 19

3 ITEM PART NAME F4397
V22SH2B REV 7 / DUCT 10

4 ITEM SERIAL NO.
N/A
RECEIVED

5 ITEM DESCRIPTION
HVAC Duct Segment

APR 21 1984
C. P. Co. Legal

6 ITEM STARTUP SYSTEM NO.
OGLH

7 REFERENCE DOCUMENT
AWS D1.1-79 & AWS D1.3-78

8 ASME A.N.I. REQUIRED
 YES NO

9 INSPECTION RECORD NO.
N/A

LOG NO.
N/A

REV NO.
N/A

10 RESPONSIBLE ORGANIZATION
Zack

11 NONCONFORMANCE DISCOVERED DURING:
 POST INSPECT TURNOVER DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT
AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."
AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE
Contrary to the above, an unqualified welder performed work on this piece.

14 NCR ORIGINATED BY (PERSON)
R.L. Bishop 4/19/84
DATE
15 NCR ORIGINATED BY (DISCIPLINE)
MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED)
1

21 LOCATION OF HOLD TAGS
ON DUCT 10

22 POTENTIAL 50.55(e)
 YES NO

24 ACTION ITEM NO.
Z-0974

26 ITEM PRIORITY CODE NO.
3

28 NCR REVIEWED BY:
Heiberger

23 REPORTED TO MPQA MANAGER
DATE N/A

25 DISCIPLINE:
M

27 TREND CODE
ZZ-40001

DATE:
4/19/84

CONTINUED ON REVERSE

ORIGINAL
29. CAUSE FILE

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

PROJECT FIELD ENGINEER DATE

MPQAD CONCURRENCE DATE

PFQCE (ASME) DATE

PQAE (ASME) DATE

LEAD DESIGN ORG DATE

CP Co SMO (for turned over systems) DATE

A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPCITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

MPQAD DATE

A.N.I. (ASME) DATE

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NONCONFORMANCE REPORT

16 NCR NO.

4-00441-ZZ

17 DATE ISSUED

4-19-84

18 REV

0

19

RECEIVED

PAGE 1 OF 1 APR 21 1984

1 ITEM LOCATION MOD 220F AX 464B
4'-10" NORTH OF KC TO DUCT CENTERLINE, 3'-10" WEST OF 7.8 TO EAST SIDE OF DUCT,
CENTERLINE ELEVATION 638'-6" C.P. Co. Legal

2 ITEM DRAWING/PART NO. V22SH2B REV 7 / DUCT 11
M523 SH.2 REV 19
3 ITEM PART NAME F4398
V22SH2B REV 7 / DUCT 11
4 ITEM SERIAL NO. N/A

5 ITEM DESCRIPTION
HVAC Duct Segment

6 ITEM STARTUP SYSTEM NO. OGLH
7 REFERENCE DOCUMENT AWS D1.1-79 & AWS D1.3-78
8 ASME A.N.T. REQUIRED
 YES NO

9 INSPECTION RECORD NO. N/A
LOG NO. N/A
REV NO. N/A
10 RESPONSIBLE ORGANIZATION Zack

11 NONCONFORMANCE DISCOVERED DURING:
 POST INSPECT TURNOVER DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT
AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."

AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE
Contrary to the above, an unqualified welder performed work on this piece.

14 NCR ORIGINATED BY (PERSON)

R. L. Bishop

4/19/84
DATE

15 NCR ORIGINATED BY (DISCIPLINE)

MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED)

1

21 LOCATION OF HOLD TAGS

ON DUCT 11

22 POTENTIAL 50.55(e)

YES NO

24 ACTION ITEM NO.

Z0975

26 ITEM PRIORITY CODE NO.

3

28 NCR REVIEWED BY:

Keilinger

23 REPORTED TO MPQA MANAGER

DATE N/A

25 DISCIPLINE:

M

27 TREND CODE

ZZ-40001

DATE:

4/19/84

CONTINUED ON REVERSE

F-2M/1A (Rev 1)

ORIGINAL

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

PROJECT FIELD ENGINEER DATE

MPQAD CONCURRENCE DATE

PFQCE (ASME) DATE

PQAE (ASME) DATE

LEAD DESIGN ORG DATE

CP Co SMO (for turned over systems) DATE

A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPCSTION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING NCR NUMBER _____

37 MCR CLOSED BY

MPQAD DATE

A.N.I. (ASME) DATE

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NONCONFORMANCE REPORT

ORIGINAL

16 NCR NO.	H-00442-ZZ		
17 DATE ISSUED	4-19-84	18 REV	0
19 RECEIVED			
PAGE 1 OF 1 APR 21 1984			

1 ITEM LOCATION MOD 220F AX 464B C. P. Co. Legal
3'-10" WEST OF 7.8 TO EAST SIDE OF DUCT, 4'-10" NORTH OF KC TO DUCT CENTERLINE,
TOP OF DUCT CENTERLINE ELEVATION 638'-6"

2 ITEM DRAWING/PART NO. V22SH2B REV 7 / DUCT 12 M523 SH. 2 REV 19	3 ITEM PART NAME F4399 V22SH2B REV 7 / DUCT 12	4 ITEM SERIAL NO. N/A
---	--	--------------------------

5 ITEM DESCRIPTION
HVAC Duct Segment

6 ITEM STARTUP SYSTEM NO. OGLH	7 REFERENCE DOCUMENT AWS D1.1-79 & AWS D1.3-78	8 ASME A.N.I. REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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9 INSPECTION RECORD NO. N/A	LOG NO. N/A	REV NO. N/A	10 RESPONSIBLE ORGANIZATION Zack
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11 NONCONFORMANCE DISCOVERED DURING:

<input checked="" type="checkbox"/> POST INSPECT	<input type="checkbox"/> TURNOVER	<input type="checkbox"/> DESIGN	<input type="checkbox"/> RECEIVING	<input type="checkbox"/> CONST	<input type="checkbox"/> RELEASE FOR INSPECT
<input type="checkbox"/> POST TURNOVER	<input type="checkbox"/> PRE-OP TEST	<input type="checkbox"/> FINAL TURNOVER	<input type="checkbox"/> OVERINSPECT		

12 REQUIREMENT

AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."

AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE
Contrary to the above, an unqualified welder performed work on this piece.

14 NCR ORIGINATED BY (PERSON) <u>R. L. Bishop</u>	<u>4/19/84</u> DATE
15 NCR ORIGINATED BY (DISCIPLINE) <u>MPQAD HVACA</u>	

20 NUMBER OF HOLD TAGS (IF APPLIED) 1	21 LOCATION OF HOLD TAGS ON DUCT 12
--	--

22 POTENTIAL 50.55(e) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	24 ACTION ITEM NO. Z0976	26 ITEM PRIORITY CODE NO. 3	28 NCR REVIEWED BY: <u>Heiberger</u>
--	-----------------------------	--------------------------------	---

23 REPORTED TO MPQA MANAGER DATE <u>N/A</u>	25 DISCIPLINE: M	27 TREND CODE ZZ-40001	DATE: <u>4/19/84</u>
--	---------------------	---------------------------	-------------------------

ORIGINAL
CAUSE OF NCR

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

PROJECT FIELD ENGINEER DATE

MPQAD CONCURRENCE DATE

PFQCE (ASME) DATE

PQAE (ASME) DATE

LEAD DESIGN ORG DATE

CP Co SMO (for turned over systems) DATE

A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING NCR NUMBER _____

37 MCR CLOSED BY

MPQAD DATE

A.N.I. (ASME) DATE

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

ORIGINAL
NONCONFORMANCE REPORT

16 NCR NO. H-10442-28
17 DATE ISSUED 4/19/84 18 REV 0

19 PAGE 1 OF 1 RECEIVED

1 ITEM LOCATION MODULE 110D AX027
3'-7" NORTH OF E LINE, BOD ELEV. 578'-6" APR 21 1984
C. P. Co. Legal

2 ITEM DRAWING/PART NO. V10 REV 8 / DUCT BA
M510 REV 12 3 ITEM PART NAME V10 REV 8 / DUCT BA / F5818 4 ITEM SERIAL NO. N/A

5 ITEM DESCRIPTION
HVAC Duct Segment

6 ITEM STARTUP SYSTEM NO. IGLC 7 REFERENCE DOCUMENT AWS D1.1-79 & AWS D1.3-78 8 ASME A.N.I. REQUIRED
 YES NO

9 INSPECTION RECD NO. N/A LOG NO. N/A REV NO. N/A 10 RESPONSIBLE ORGANIZATION Zack

11 NONCONFORMANCE DISCOVERED DURING:
 POST INSPECT TURNOVER DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT
AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."
AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE
Contrary to the above, an unqualified welder performed work on this piece.

14 NCR ORIGINATED BY (PERSON) R. L. Bishop 4/19/84
DATE
15 NCR ORIGINATED BY (DISCIPLINE) MEQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED) 1 21 LOCATION OF HOLD TAGS On Duct 8A

22 POTENTIAL 50.55(e) YES NO 24 ACTION ITEM NO. Z0977 26 ITEM PRIORITY CODE NO. 3 28 NCR REVIEWED BY: Heiberg

23 REPORTED TO MPQA MANAGER DATE N/A 25 DISCIPLINE: M 27 TREND CODE ZZ-40001 DATE: 4/19/84

CONTINUED ON REVERSE

ORIGINAL

29. CAUSE: J. J. 15

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

PROJECT FIELD ENGINEER DATE

MPQAD CONCURRENCE DATE

PFQCE (ASME) DATE

PQAE (ASME) DATE

LEAD DESIGN ORG DATE

CP Co SMO (for turned over systems) DATE

A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

MPQAD DATE

A.N.I. (ASME) DATE

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

ORIGINAL

NONCONFORMANCE REPORT

16 NCR NO. H-00444-27
17 DATE ISSUED 4/19/84 18 REV 0

19 PAGE 1 OF 1 RECEIVED

APR 21 1984
C. P. Co. Legal

1 ITEM LOCATION MODULE 110-D AX027
2'-8" EAST OF 6.2 AND 3'-3" NORTH OF F LINE, BOD ELEV. 578'-6"

2 ITEM DRAWING/PART NO. V10 REV 8 / DUCT 8B
M510 REV 12 3 ITEM PART NAME V10 REV 8 / DUCT 8B / F5817 4 ITEM SERIAL NO. N/A

5 ITEM DESCRIPTION
HVAC Duct Segment

6 ITEM STARTUP SYSTEM NO. IG-LLC 7 REFERENCE DOCUMENT AWS D1.1-79 & AWS D1.3-78 8 ASME A.N.I. REQUIRED YES NO

9 INSPECTION RECORD NO. N/A LOG NO. N/A REY NO. N/A 10 RESPONSIBLE ORGANIZATION Zack

11 NONCONFORMANCE DISCOVERED DURING:
 POST INSPECT TURNOVER DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT
AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."
AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE
Contrary to the above, an unqualified welder performed work on this piece.

14 NCR ORIGINATED BY (PERSON) R. L. Bishop 4/19/84
DATE
15 NCR ORIGINATED BY (DISCIPLINE) MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED) 1 21 LOCATION OF HOLD TAGS ON DUCT 8B

22 POTENTIAL 50.55(e) YES NO 24 ACTION ITEM NO. Z0978 26 ITEM PRIORITY CODE NO. 3 28 NCR REVIEWED BY: Beiberg

23 REPORTED TO MPQA MANAGER DATE N/A 25 DISCIPLINE: M 27 TREND CODE ZZ-40001 DATE: 4/19/84

ORIGINAL

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

PROJECT FIELD ENGINEER DATE

MPQAD CONCURRENCE DATE

PFQCE (ASME) DATE

PQAE (ASME) DATE

LEAD DESIGN ORG DATE

CP Co SMO (for turned over systems) DATE

A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

MPQAD DATE

A.N.I. (ASME) DATE

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NONCONFORMANCE REPORT

ORIGINAL

16 NCR NO.

H-00445-22

17 DATE ISSUED

4/19/84

18 REV

0

19

PAGE 1 OF 1 RECEIVED

1 ITEM LOCATION MIDDLE HOD AX027
2'-8" EAST OF G.2, BOD ELEV 578'-6"

APR 21 1984

C. P. Co. Legal

2 ITEM DRAWING/PART NO.
V10 REV B / DUCT 10A
M510 REV 12

3 ITEM PART NAME

V10 REV B / DUCT 10A / P2597

4. ITEM SERIAL NO.

N/A

5 ITEM DESCRIPTION

HVAC Duct Segment

6 ITEM STARTUP SYSTEM NO.

IGLC

7 REFERENCE DOCUMENT

AWS D1.1-79 & AWS D1.3-78

8 ASME A.N.I. REQUIRED

YES NO

9 INSPECTION RECORD NO.

N/A

LOG NO.

N/A

REV NO.

N/A

10 RESPONSIBLE ORGANIZATION

Zack

11 NONCONFORMANCE DISCOVERED DURING:

POST INSPECT

TURNOVER

DESIGN

POST TURNOVER

RECEIVING

PRE-OP
TEST

CONST

FINAL
TURNOVER

RELEASE FOR INSPECT

OVERINSPECT

12 REQUIREMENT

AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."

AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE

Contrary to the above, an unqualified welder performed work on this piece.

14 NCR ORIGINATED BY (PERSON)

L. Bishop

4/19/84

DATE

15 NCR ORIGINATED BY (DISCIPLINE)

MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED)

1

21 LOCATION OF HOLD TAGS

ON DUCT 10A

22 POTENTIAL 50.55(e)

YES NO

24 ACTION ITEM NO.

Z0979

26 ITEM PRIORITY CODE NO.

3

28 NCR REVIEWED BY:

Keiliga

23 REPORTED TO MPQA MANAGER

DATE N/A

25 DISCIPLINE:

M

27 TREND CODE

ZZ-40001

DATE:

4/19/84

CONTINUED ON REVERSE

F-2M/1A (Rev 1)

~~ORIGINAL~~

29 CAUSE

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

_____ PROJECT FIELD ENGINEER	_____ DATE	_____ MPQAD CONCURRENCE	_____ DATE	_____ PFQCE (ASME)	_____ DATE
				_____ PQAE (ASME)	_____ DATE
_____ LEAD DESIGN ORG	_____ DATE	_____ CP Co SMO (for turned over systems) DATE		_____ A.N.I. (ASME)	_____ DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION
 ACCEPTABLE UNACCEPTABLE
IF UNACCEPTABLE, REFERENCE SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

MPQAD DATE

A.N.I. (ASME) DATE

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

ORIGINAL

NONCONFORMANCE REPORT

16 NCR NO.

H-00446-22

17 DATE ISSUED

4/19/84

18 REV

0

19

PAGE 1 RECEIVED

1 ITEM LOCATION MODULE-H0D AX027
2'-8" EAST OF 6.2 LINE, BOD ELEV. 578'-6"

APR 21 1984

C. P. Co. Legal

2 ITEM DRAWING/PART NO.
V10 REV 8 / DUCT 11B
M510 REV 12

3 ITEM PART NAME
V10 REV 8 / DUCT 11B / P2597

4 ITEM SERIAL NO.
N/A

5 ITEM DESCRIPTION
HVAC Duct Segment

6 ITEM STARTUP SYSTEM NO.
GLC

7 REFERENCE DOCUMENT
AWS D1.1-79 & AWS D1.3-78

8 ASME A.N.I. REQUIRED
 YES NO

9 INSPECTION RECORD NO.
N/A

LOG NO.
N/A

REV NO.
N/A

10 RESPONSIBLE ORGANIZATION
Zack

11 NONCONFORMANCE DISCOVERED DURING:
 POST INSPECT TURNOVER DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT

AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."

AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE

Contrary to the above, an unqualified welder performed work on this piece.

14 NCR ORIGINATED BY (PERSON)

L. L. Bishop

4/19/84
DATE

15 NCR ORIGINATED BY (DISCIPLINE)

MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED)

1

21 LOCATION OF HOLD TAGS

ON DUCT 11B

22 POTENTIAL 50.55(e)

YES NO

24 ACTION ITEM NO.

Z0980

26 ITEM PRIORITY CODE NO.

3

28 NCR REVIEWED BY:

Heiberger

23 REPORTED TO MPQA MANAGER

DATE N/A

25 DISCIPLINE:

M

27 TREND CODE

ZZ-40001

DATE:

4/19/84

CONTINUED ON REVERSE

F-2M/1A (Rev 1)

URGENT

29 CAUSE

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

PROJECT FIELD ENGINEER DATE

MPQAD CONCURRENCE DATE

PFQCE (ASME) DATE

PQAE (ASME) DATE

LEAD DESIGN ORG DATE

CP Co SMO (for turned over systems) DATE

A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPCITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE SUPERCEDING MCR NUMBER _____

37 MCR CLOSED BY

MPQAD DATE

A.N.I. (ASME) DATE

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

ORIGINAL
NONCONFORMANCE REPORT

16 NCR NO. 4-00447-22
17 DATE ISSUED 4/19/84
18 REV 0

19 PAGE 1 OF 1 RECEIVED

1 ITEM LOCATION MODULE 170P AX608
8" EAST OF 779, 5" NORTH OFF, BOD 692'-3" APR 21 1984

2 ITEM DRAWING/PART NO. V7 SH. 2 REV 6 / DUCT 12
M507 SH. 2 REV. 19
3 ITEM PART NAME U7SH2 REV6 / DUCT 12 / F4941
4 ITEM SERIAL NO. G.P. Co. Legal
N/A

5 ITEM DESCRIPTION
HVAC Duct Segment

6 ITEM STARTUP SYSTEM NO. 06LF
7 REFERENCE DOCUMENT AWS D1.1-79 & AWS D1.3-78
8 ASME A.N.I. REQUIRED
 YES NO

9 INSPECTION RECORD NO. N/A
LOG NO. N/A
REV NO. N/A
10 RESPONSIBLE ORGANIZATION Zack

11 NONCONFORMANCE DISCOVERED DURING:
 POST INSPECT TURNOVER DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT
AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."
AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE
Contrary to the above, an unqualified welder performed work on this piece.

14 NCR ORIGINATED BY (PERSON) R L Bishop 4/19/84
DATE
15 NCR ORIGINATED BY (DISCIPLINE) MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED) 1
21 LOCATION OF HOLD TAGS ON DUCT 12

22 POTENTIAL 50.55(e) YES NO
24 ACTION ITEM NO. Z0981
26 ITEM PRIORITY CODE NO. 3
28 NCR REVIEWED BY: Heibeger

23 REPORTED TO MPQA MANAGER DATE N/A
25 DISCIPLINE: M
27 TREND CODE ZZ-40001
DATE: 4/19/84

CONTINUED ON REVERSE

F-2M/1A (Rev 1)

INDIVIDUAL

29 CAUSE

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REMARK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

_____	_____	_____	_____	_____	_____
PROJECT FIELD ENGINEER	DATE	MPQAD CONCURRENCE	DATE	PFQCE (ASME)	DATE
_____	_____	_____	_____	_____	_____
LEAD DESIGN ORG	DATE	CP Co SMO (for turned over systems)	DATE	PQAE (ASME)	DATE
_____	_____	_____	_____	_____	_____
				A.N.I. (ASME)	DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING MCR NUMBER _____

37 MCR CLOSED BY

MPQAD DATE

A.N.I. (ASME) DATE

ORIGINAL

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NONCONFORMANCE REPORT

16 MCR NO. H-00448-ZZ

17 DATE ISSUED 4/19/84 18 REV 0

19 PAGE 1 OF RECEIVED

1 ITEM LOCATION Mod. 800C Rm 303 Service Water Bldg. 3'-11" SW of N.E. Wall BOD 648' APR 21 1984

C. P. Co. Legal

2 ITEM DRAWING/PART NO. V-83 Rev. 8 Duct 29A M-583 Rev. 19 3 ITEM PART NAME V-83 Rev. 8 Duct 29A/F10484 4 ITEM SERIAL NO. NA

5 ITEM DESCRIPTION HVAC Duct Segment

6 ITEM STARTUP SYSTEM NO. OGD 7 REFERENCE DOCUMENT AWS D1.1-79 & AWS D1.3-78 8 ASME A.N.I. REQUIRED YES NO

9 INSPECTION RECORD NO. NA LOG NO. NA REV NO. NA 10 RESPONSIBLE ORGANIZATION Zack

11 NONCONFORMANCE DISCOVERED DURING: POST INSPECT TURNOVER DESIGN RECEIVING CONST RELEASE FOR INSPECT POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision." AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE Contrary to the above, an unqualified welder performed work on this piece.

14 MCR ORIGINATED BY (PERSON) [Signature] 4/19/84 DATE 15 MCR ORIGINATED BY (DISCIPLINE) MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED) 1 21 LOCATION OF HOLD TAGS On Duct 29A

22 POTENTIAL 50.55(e) YES NO 24 ACTION ITEM NO. Z0982 26 ITEM PRIORITY CODE NO. 3 28 MCR REVIEWED BY: [Signature]

23 REPORTED TO MPQA MANAGER DATE N/A 25 DISCIPLINE: M 27 TREND CODE ZZ-40001 DATE: 4/19/84

ORIGINAL

29 CAUSE

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

_____	_____	_____	_____	_____	_____
PROJECT FIELD ENGINEER	DATE	MPQAD CONCURRENCE	DATE	PFQCE (ASME)	DATE
_____	_____	_____	_____	_____	_____
LEAD DESIGN ORG	DATE	CP Co SMO (for turned over systems)	DATE	PQAE (ASME)	DATE
_____	_____	_____	_____	_____	_____
				A.N.I. (ASME)	DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION
 ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

_____	_____
MPQAD	DATE
_____	_____
A.N.I. (ASME)	DATE

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

ORIGINAL
NONCONFORMANCE REPORT

16 MCR NO. H-00449-22
17 DATE ISSUED 4/19/84 18 REV 0

19 PAGE 1 OF 1

1 ITEM LOCATION Mod. 800A Rm 301
Service Water Bldg. 10" S of N Wall & 5' 8" E of W wall BOD 646' 6"

2 ITEM DRAWING/PART NO. V 83 Rev 8 Duct 73
M-583 Rev. 19 3 ITEM PART NAME V 83 Rev 8 Duct 73/F 11210 4 ITEM SERIAL NO. NA

5 ITEM DESCRIPTION HVAC Duct Segment RECEIVED
APR 21 1984
C. P. Co. Legal

6 ITEM STARTUP SYSTEM NO. OGDL 7 REFERENCE DOCUMENT AWS D1.1-79 & AWS D1.3-78 8 ASME A.N.I. REQUIRED
 YES NO

9 INSPECTION RECORD NO. NA LOG NO. NA REV NO. NA 10 RESPONSIBLE ORGANIZATION Zack

11 NONCONFORMANCE DISCOVERED DURING:
 POST INSPECT TURHOVER DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT
AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."
AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE
Contrary to the above, an unqualified welder performed work on this piece.

14 MCR ORIGINATED BY (PERSON) J. W. Henshaw 4/19/84
DATE
15 MCR ORIGINATED BY (DISCIPLINE) MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED) 1 21 LOCATION OF HOLD TAGS On Duct 73

22 POTENTIAL 50.55(e) YES NO 24 ACTION ITEM NO. Z0983 26 ITEM PRIORITY CODE NO. 3 28 MCR REVIEWED BY: Heiberg

23 REPORTED TO MPQA MANAGER DATE N/A 25 DISCIPLINE: M 27 TREND CODE ZZ-40001 DATE: 4/19/84

ORIGINAL

29 CAUSE

30 PROCESS CORRECTIVE ACTION

YES

NO

QAR NO. _____

31 RECOMMENDED DISPOSITION

REMARK

SCRAP/REJECT

REPAIR

USE AS IS

32 CONDITIONAL RELEASE

YES

NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

PROJECT FIELD ENGINEER DATE

MPQAD CONCURRENCE DATE

PFQCE (ASME) DATE

PQAE (ASME) DATE

LEAD DESIGN ORG DATE

CP Co SMO (for turned over systems) DATE

A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE

UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

MPQAD DATE

A.N.I. (ASME) DATE

ORIGINAL

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NONCONFORMANCE REPORT

16 NCR NO.	H-11-450-22	
17 DATE ISSUED	4/19/84	18 REV 0
19	PAGE 1 OF 1 RECEIVED	

1 ITEM LOCATION MOD 800C Rm 303
Service Water Bldg. 3'-11" S.W. of N.E. Wall & 28'-0" S of N Wall
BOD 646'-b" APR 21 1984
C. P. Co. Legal

2 ITEM DRAWING/PART NO. V83 Rev. 8 Duct 29 M583 Rev. 19	3 ITEM PART NAME V83 Rev. 8 Duct 29/F11176	4 ITEM SERIAL NO. NA
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5 ITEM DESCRIPTION
HVAC Duct Segment

6 ITEM STARTUP SYSTEM NO. OGDL	7 REFERENCE DOCUMENT AWS D1.1-79 & AWS D1.3-78	8 ASME A.N.I. REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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9 INSPECTION RECORD NO. NA	LOG NO. NA	REV NO. NA	10 RESPONSIBLE ORGANIZATION Zack
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11 NONCONFORMANCE DISCOVERED DURING:

<input checked="" type="checkbox"/> POST INSPECT	<input type="checkbox"/> TURNOVER	<input type="checkbox"/> DESIGN	<input type="checkbox"/> RECEIVING	<input type="checkbox"/> CONST	<input type="checkbox"/> RELEASE FOR INSPECT
<input type="checkbox"/> POST TURNOVER	<input type="checkbox"/> PRE-OP TEST	<input type="checkbox"/> FINAL TURNOVER	<input type="checkbox"/> OVERINSPECT		

12 REQUIREMENT

AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."

AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE
Contrary to the above, an unqualified welder performed work on this piece.

14 NCR ORIGINATED BY (PERSON)
J. H. Henshaw 4/19/84
DATE

15 NCR ORIGINATED BY (DISCIPLINE)
MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED) 1	21 LOCATION OF HOLD TAGS ON Duct 29
--	--

22 POTENTIAL 50.55(e) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	24 ACTION ITEM NO. Z0984	26 ITEM PRIORITY CODE NO. 3	28 NCR REVIEWED BY: Heiberg
--	-----------------------------	--------------------------------	--------------------------------

23 REPORTED TO MPQA MANAGER DATE N/A	25 DISCIPLINE: M	27 TREND CODE ZZ-40001	DATE: 4/19/84
---	---------------------	---------------------------	------------------

CONTINUED ON REVERSE

ORIGINAL

29 CAUSE

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

_____ PROJECT FIELD ENGINEER	_____ DATE	_____ MPQAD CONCURRENCE	_____ DATE	_____ PFQCE (ASME)	_____ DATE
				_____ PQAE (ASME)	_____ DATE
_____ LEAD DESIGN ORG	_____ DATE	_____ CP Co SMO (for turned over systems)		_____ A.N.I. (ASME)	_____ DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

_____ MPQAD	_____ DATE
_____ A.N.I. (ASME)	_____ DATE

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

ORIGINAL
NONCONFORMANCE REPORT

16 NCR NO.

H-01451-77

17 DATE ISSUED

4/19/84

18 REV

0

19

RECEIVED

PAGE 1 OF 1 APR 21 1984

C. P. Co. Legal

1 ITEM LOCATION MOD 800C Rm 303
Service Water Bldg. 12' NE of SW Wall 13'-10" N.W. of S.E. Wall BOD 648'

2 ITEM DRAWING/PART NO.
V 83 Rev 8 Duct 42
M583 Rev. 19

3 ITEM PART NAME
V 83 Rev 8 Duct 42/F 11186

4 ITEM SERIAL NO.
NA

5 ITEM DESCRIPTION
HVAC Duct Segment

6 ITEM STARTUP SYSTEM NO.
OGDL

7 REFERENCE DOCUMENT
AWS D1.1-79 & AWS D1.3-78

8 ASME A.N.I. REQUIRED
 YES NO

9 INSPECTION RECORD NO.
NA

LOG NO.
NA

REV NO.
NA

10 RESPONSIBLE ORGANIZATION
Zack

11 NONCONFORMANCE DISCOVERED DURING:
 POST INSPECT TURNOVER POST TURNOVER DESIGN RECEIVING CONST RELEASE FOR INSPECT
 PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT

AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."

AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, . . . and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE

Contrary to the above, an unqualified welder performed work on this piece.

14 NCR ORIGINATED BY (PERSON)

J. H. Henshaw 4/19/84
DATE

15 NCR ORIGINATED BY (DISCIPLINE)

MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED)

1

21 LOCATION OF HOLD TAGS

ON DUCT 42

22 POTENTIAL 50.55(e)
 YES NO

24 ACTION ITEM NO.
Z0985

26 ITEM PRIORITY CODE NO.
3

28 NCR REVIEWED BY:
Heiberg

23 REPORTED TO MPQA MANAGER
DATE N/A

25 DISCIPLINE:
M

27 TREND CODE
ZZ-40001

DATE:
4/19/84

CONTINUED ON REVERSE

F-2M/1A (Rev 1)

ORIGINAL

29 CAUSE

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

PROJECT FIELD ENGINEER DATE

MPQAD CONCURRENCE DATE

PFQCE (ASME) DATE

PQAE (ASME) DATE

LEAD DESIGN ORG DATE

CP Co SMO (for turned over systems) DATE

A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

MPQAD DATE

A.N.I. (ASME) DATE

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

ORIGINAL

NONCONFORMANCE REPORT

16 NCR NO.	H-0052-77	
17 DATE ISSUED	4/19/84	18 REV 0
19 RECEIVED PAGE 1 OF 1 APR 21 1984		

1 ITEM LOCATION MOD8008 Rm 302
Service Water Bldg. 8" S.E. of N.E. Wall Bod 646'-6" C. P. Co. Legal

2 ITEM DRAWING/PART NO. V83 Rev 8 Duct 55 M583 Rev 19	3 ITEM PART NAME V83 Rev 8 Duct 55/F11196	4 ITEM SERIAL NO. NA
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5 ITEM DESCRIPTION
HVAC Duct Segment

6 ITEM STARTUP SYSTEM NO. OGDL	7 REFERENCE DOCUMENT AWS D1.1-79 & AWS D1.3-78	8 ASME A.N.I. REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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9 INSPECTION RECORD NO. NA	LOG NO. NA	REV NO. NA	10 RESPONSIBLE ORGANIZATION Zack
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11 NONCONFORMANCE DISCOVERED DURING:

<input checked="" type="checkbox"/> POST INSPECT	<input type="checkbox"/> TURNOVER	<input type="checkbox"/> DESIGN	<input type="checkbox"/> RECEIVING	<input type="checkbox"/> CONST	<input type="checkbox"/> RELEASE FOR INSPECT
<input type="checkbox"/> POST TURNOVER	<input type="checkbox"/> PRE-OP TEST	<input type="checkbox"/> FINAL TURNOVER	<input type="checkbox"/> OVERINSPECT		

12 REQUIREMENT

AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."

AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE
Contrary to the above, an unqualified welder performed work on this piece.

14 NCR ORIGINATED BY (PERSON) <i>J. H. Hanochan</i>	4/19/84 DATE
15 NCR ORIGINATED BY (DISCIPLINE) MPQAD HVACA	

20 NUMBER OF HOLD TAGS (IF APPLIED) 1	21 LOCATION OF HOLD TAGS ON DUCT 55
--	--

22 POTENTIAL 50.55(e) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	24 ACTION ITEM NO. Z0986	26 ITEM PRIORITY CODE NO. 3	28 NCR REVIEWED BY: <i>Heiberger</i>
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23 REPORTED TO MPQA MANAGER DATE N/A	25 DISCIPLINE: M	27 TREND CODE ZZ-40001	DATE: 4/19/84
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CONTINUED ON REVERSE

ORIGINAL

29 CAUSE

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

PROJECT FIELD ENGINEER DATE

MPQAD CONCURRENCE DATE

PFQCE (ASME) DATE

PQAE (ASME) DATE

LEAD DESIGN ORG DATE

CP Co SMO (for turned over systems) DATE

A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

MPQAD DATE

A.N.I. (ASME) DATE

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

ORIGINAL
NONCONFORMANCE REPORT

16 NCR NO.

H-00453-77

17 DATE ISSUED

4/19/84

18 REV

RECEIVED

19

PAGE 1 OF APR 21 1984

C. P. Co. Legal

1 ITEM LOCATION MOD 800C Rm 303

Service Water Bldg. 3'-11" SW of NE Wall 35'-9" SE of NW Wall to 7'-8" NW of SE Wall BOD 648

2 ITEM DRAWING/PART NO.

V 83 Rev 8 Duct 31A
M 583 Rev 19

3 ITEM PART NAME

F10485
V 83 Rev 8 Duct 31/FH178

4 ITEM SERIAL NO.

NA

5 ITEM DESCRIPTION

HVAC Duct Segment

6 ITEM STARTUP SYSTEM NO.

OG DL

7 REFERENCE DOCUMENT

AWS D1.1-79 & AWS D1.3-78

8 ASME A.M.I. REQUIRED

YES NO

9 INSPECTION RECORD NO.

NA

LOG NO.

NA

REV NO.

NA

10 RESPONSIBLE ORGANIZATION

Zack

11 NONCONFORMANCE DISCOVERED DURING:

POST INSPECT TURNOVER DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT

AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."

AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE

Contrary to the above, an unqualified welder performed work on this piece.

14 NCR ORIGINATED BY (PERSON)

J. H. Henshaw

4/19/84
DATE

15 NCR ORIGINATED BY (DISCIPLINE)

MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED)

1

21 LOCATION OF HOLD TAGS

ON DUCT 31

22 POTENTIAL 50.55(e)

YES NO

24 ACTION ITEM NO.

Z0987

26 ITEM PRIORITY CODE NO.

3

28 NCR REVIEWED BY:

Hilbergen

23 REPORTED TO MPQA MANAGER

DATE N/A

25 DISCIPLINE:

M

27 TREND CODE

ZZ-40001

DATE:

4/19/84

CONTINUED ON REVERSE

F-2M/1A (Rev 1)

ORIGINAL

29

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

PROJECT FIELD ENGINEER DATE

MPQAD CONCURRENCE DATE

PFQCE (ASME) DATE

PQAE (ASME) DATE

LEAD DESIGN ORG DATE

CP Co SMO (for turned over systems) DATE

A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

MPQAD DATE

A.N.I. (ASME) DATE

ORIGINAL

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NONCONFORMANCE REPORT

16 NCR NO.	H-00424-77
17 DATE ISSUED	4/19/84
18 REV	0
19	RECEIVED
PAGE 1 OF 1	APR 21 1984

1 ITEM LOCATION MOD 800A Rm 301
Service Water Bldg. 12' S.W. of N.E. Wall BOD 646' C. P. Co. Legal

2 ITEM DRAWING/PART NO. V83 Rev. 8 / Duct 69 M583 Rev. 19	3 ITEM PART NAME V83 Rev. 8 Duct 69/F 11206	4 ITEM SERIAL NO. NA
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5 ITEM DESCRIPTION
HVAC Duct Segment

6 ITEM STARTUP SYSTEM NO. OGDL	7 REFERENCE DOCUMENT AWS D1.1-79 & AWS D1.3-78	8 ASME A.N.I. REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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9 INSPECTION RECORD NO. NA	LOG NO. NA	REV NO. NA	10 RESPONSIBLE ORGANIZATION Zack
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11 NONCONFORMANCE DISCOVERED DURING:

POST INSPECT TURNOVER DESIGN RECEIVING CONST RELEASE FOR INSPECT

POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT

AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."

AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE
Contrary to the above, an unqualified welder performed work on this piece.

14 NCR ORIGINATED BY (PERSON) <i>J. H. Henshaw</i>	4/19/84 DATE
15 NCR ORIGINATED BY (DISCIPLINE) MPQAD HVACA	

20 NUMBER OF HOLD TAGS (IF APPLIED) 1	21 LOCATION OF HOLD TAGS ON DUCT 69
--	--

22 POTENTIAL 50.55(e) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	24 ACTION ITEM NO. Z0988	26 ITEM PRIORITY CODE NO. 3	28 NCR REVIEWED BY: <i>Heibeger</i>
--	-----------------------------	--------------------------------	--

23 REPORTED TO MPQA MANAGER DATE N/A	25 DISCIPLINE: M	27 TREND CODE ZZ-40001	DATE: 4/19/84
---	---------------------	---------------------------	------------------

CONTINUED ON REVERSE

ORIGINAL

29 CAUSE

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REMORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

PROJECT FIELD ENGINEER DATE

MPQAD CONCURRENCE DATE

PFQCE (ASME) DATE

PQAE (ASME) DATE

LEAD DESIGN ORG DATE

CP Co SMO (for turned over systems) DATE

A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPCSION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING MCR NUMBER _____

37 MCR CLOSED BY

MPQAD DATE

A.N.I. (ASME) DATE

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

ORIGINAL
NONCONFORMANCE REPORT

16 NCR NO.

H-00455-72

17 DATE ISSUED

4/19/84

18 REV

0

19

PAGE 1 OF RECEIVED

1 ITEM LOCATION MOD 800A SWB301

Service Water Bldg. 10'-11" S.E. of N.W. Wall 13'-9" Q Duct S.W. of N.E. Wall
BOD 64b'-6"

APR 21 1984

C. P. Co. Legal

2 ITEM DRAWING/PART NO.

V83 Rev 8 / Duct 64
M.583 Rev 19

3 ITEM PART NAME

V83 Rev 8 Duct 64/F11202

4 ITEM SERIAL NO.

NA

5 ITEM DESCRIPTION

HVAC Duct Segment

6 ITEM STARTUP SYSTEM NO.

OGDL

7 REFERENCE DOCUMENT

AWS D1.1-79 & AWS D1.3-78

8 ASME A.N.I. REQUIRED

YES NO

9 INSPECTION RECORD NO.

NA

LOG NO.

NA

REV NO.

NA

10 RESPONSIBLE ORGANIZATION

Zack

11 NONCONFORMANCE DISCOVERED DURING:

POST INSPECT

TURNOVER

DESIGN

RECEIVING

CONST

RELEASE FOR INSPECT

POST TURNOVER

PRE-OP
TEST

FINAL
TURNOVER

OVERINSPECT

12 REQUIREMENT

AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."

AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE

Contrary to the above, an unqualified welder performed work on this piece.

14 NCR ORIGINATED BY (PERSON)

J. H. Hancher

4/19/84
DATE

15 NCR ORIGINATED BY (DISCIPLINE)

MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED)

1

21 LOCATION OF HOLD TAGS

ON Duct 64

22 POTENTIAL 50.55(e)

YES NO

24 ACTION ITEM NO.

Z0989

26 ITEM PRIORITY CODE NO.

3

28 NCR REVIEWED BY:

Heiliger

23 REPORTED TO MPQA MANAGER

DATE N/A

25 DISCIPLINE:

M

27 TREND CODE

ZZ-40001

DATE:

4/19/84

CONTINUED ON REVERSE

F-2M/1A (Rev 1)

ORIGINAL

29 CAUSE

30 PROCESS CORRECTIVE ACTION

YES

NO

QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK

SCRAP/REJECT

REPAIR

USE AS IS

32 CONDITIONAL RELEASE

YES

NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

PROJECT FIELD ENGINEER DATE

MPQAD CONCURRENCE DATE

PFQCE (ASME) DATE

PQAE (ASME) DATE

LEAD DESIGN ORG DATE

CP Co SMO (for turned over systems) DATE

A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE

UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

MPQAD DATE

A.N.I. (ASME) DATE

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

ORIGINAL
NONCONFORMANCE REPORT

16 NCR NO. 4-0456-77

17 DATE ISSUED

4/19/84

18 REV

0

19

PAGE 1 OF 1 RECEIVED

APR 21 1984

1 ITEM LOCATION MOD. EDA Rm 301
Service Water Bldg. 12' S.W. of N.E. Wall & 7'-8" N.W. of S.E. Wall C.P. Co. Legal

2 ITEM DRAWING/PART NO.
V 83 Rev 8 Duct 70A
M 583 Rev. 19

3 ITEM PART NAME

V 83 Rev. 8

F10492

4 ITEM SERIAL NO.

NA

5 ITEM DESCRIPTION

HVAC Duct Segment

6 ITEM STARTUP SYSTEM NO.

OGDL

7 REFERENCE DOCUMENT

AWS D1.1-79 & AWS D1.3-78

8 ASME A.N.I. REQUIRED

YES NO

9 INSPECTION RECORD NO.

NA

LOG NO.

NA

REV NO.

NA

10 RESPONSIBLE ORGANIZATION

Zack

11 NONCONFORMANCE DISCOVERED DURING:

POST INSPECT

TURNOVER

DESIGN

RECEIVING

CONST

RELEASE FOR INSPECT

POST TURNOVER

PRE-OP TEST

FINAL TURNOVER

OVERINSPECT

12 REQUIREMENT

AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."

AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE:

Contrary to the above, an unqualified welder performed work on this piece.

14 NCR ORIGINATED BY (PERSON)

W. Hanshaw 4/19/84
DATE

15 NCR ORIGINATED BY (DISCIPLINE)

MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED)

1

21 LOCATION OF HOLD TAGS

ON DUCT 70A

22 POTENTIAL 50.55(e)

YES NO

24 ACTION ITEM NO.

Z0990

26 ITEM PRIORITY CODE NO.

3

28 NCR REVIEWED BY:

Hilberg

23 REPORTED TO MPQA MANAGER

DATE N/A

25 DISCIPLINE:

M

27 TREND CODE

ZZ-40001

DATE:

4/19/84

CONTINUED ON REVERSE

F-2M/1A (Rev 1)

29

CAUSE ORIGINAL

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

_____	PROJECT FIELD ENGINEER	DATE	_____	MPQAD CONCURRENCE	DATE	_____	PFQCE (ASME)	DATE
						_____	PQAE (ASME)	DATE
_____	LEAD DESIGN ORG	DATE	_____	CP Co SMO (for turned over systems)	DATE	_____	A.N.I. (ASME)	DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE SUPERCEDING MCR NUMBER _____

37 MCR CLOSED BY

_____	MPQAD	DATE
_____	A.N.I. (ASME)	DATE

ORIGINAL

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NONCONFORMANCE REPORT

16 NCR NO.
H-00457-ZZ

17 DATE ISSUED
4/19/84

18 REV
0

19
PAGE 1 OF 1 RECEIVED

1 ITEM LOCATION
STORED AT POSEYVILLE LAYDOWN AREA

APR 21 1984

C. P. Co Legal

2 ITEM DRAWING/PART NO.
V26 SH. 2 REV. 10 / DUCT 19
M526 SH 2 REV 27

3 ITEM PART NAME
V26 SH 2 REV 10 / DUCT 19 / P1491
F9219 4/19/84

4. ITEM SERIAL NO.
N/A

5 ITEM DESCRIPTION
HVAC Duct Segment - 52" x 30" x 47' LONG

6 ITEM STARTUP SYSTEM NO.
7 REFERENCE DOCUMENT
AWS D1.1-79 & AWS D1.3-78

8 ASME A.N.I. REQUIRED
 YES NO

9 INSPECTION RECORD NO. LOG NO. REV NO. 10 RESPONSIBLE ORGANIZATION
N/A N/A N/A Zack

11 NONCONFORMANCE DISCOVERED DURING:
 POST INSPECT TURNOVER DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT
AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."
AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE
Contrary to the above, an unqualified welder performed work on this piece.

14 NCR ORIGINATED BY (PERSON)
R. L. Bishop 4/19/84
DATE
15 NCR ORIGINATED BY (DISCIPLINE)
MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED) 1
21 LOCATION OF HOLD TAGS ON DUCT 19

22 POTENTIAL 50.55(e) YES NO
24 ACTION ITEM NO. Z-0991
26 ITEM PRIORITY CODE NO. 3
28 NCR REVIEWED BY: Heibeger

23 REPORTED TO MPQA MANAGER DATE N/A
25 DISCIPLINE: M
27 TREND CODE ZZ-40001
DATE: 4/19/84

CONTINUED ON REVERSE

29 CAUSE

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

_____	_____	_____	_____	_____	_____
PROJECT FIELD ENGINEER	DATE	MPQAD CONCURRENCE	DATE	PFQCE (ASME)	DATE
_____	_____	_____	_____	_____	_____
LEAD DESIGN ORG	DATE	CP Co SMO (for turned over systems)	DATE	PQAE (ASME)	DATE
_____	_____	_____	_____	_____	_____
				A.N.I. (ASME)	DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

_____	_____
MPQAD	DATE
_____	_____
A.N.I. (ASME)	DATE

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

ORIGINAL

NONCONFORMANCE REPORT

16 NCR NO. H-00458-22

17 DATE ISSUED 4/19/84 18 REV 0

19 RECEIVED
PAGE 1 OF 1 FOR 2-1 1984

1 ITEM LOCATION MODULE 340K 2C637 VERTICLE DUCT RUN BETWEEN 669C/BV/Cb/Al/legat
685'-0". LOCATED 46'-3" TO 39'-0" SOUTH OF 90° TO 270° AZ., 24'-3" TO 34'-9" EAST OF C° TO 180° AZ.

2 ITEM DRAWING/PART NO. V34SH1 REV B / DUCT 2
M534 SH 1 REV 13 3 ITEM PART NAME V34SH1 REV B / DUCT 2 / P1306 4 ITEM SERIAL NO. N/A

5 ITEM DESCRIPTION
HVAC Duct Segment

6 ITEM STARTUP SYSTEM NO. 2GNC 7 REFERENCE DOCUMENT AWS D1.1-79 & AWS D1.3-78 8 ASME A.M.I. REQUIRED
 YES NO

9 INSPECTION RECORD NO. N/A LOG NO. N/A REV NO. N/A 10 RESPONSIBLE ORGANIZATION
Zack

11 NONCONFORMANCE DISCOVERED DURING:
 POST INSPECT TURNOVER DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT
AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."
AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE
Contrary to the above, an unqualified welder performed work on this piece.

14 NCR ORIGINATED BY (PERSON) R.L. Bishop 4/19/84
DATE
15 NCR ORIGINATED BY (DISCIPLINE) MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED) 1 21 LOCATION OF HOLD TAGS ON DUCT 2

22 POTENTIAL 50.55(e) YES NO 24 ACTION ITEM NO. Z0992 26 ITEM PRIORITY CODE NO. 3 28 NCR REVIEWED BY: Heiberger

23 REPORTED TO MPQA MANAGER DATE N/A 25 DISCIPLINE: M 27 TREND CODE ZZ-40001 DATE: 4/19/84

CONTINUED ON REVERSE

29 CAUSE

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

_____	DATE	_____	DATE	_____	DATE
PROJECT FIELD ENGINEER		MPQAD CONCURRENCE		PFQCE (ASME)	
_____	DATE	_____	DATE	_____	DATE
LEAD DESIGN ORG		CP Co SMO (for turned over systems)		PQAE (ASME)	
_____	DATE	_____	DATE	_____	DATE
				A.N.I. (ASME)	

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

_____ MPQAD DATE

_____ A.N.I. (ASME) DATE

ORIGINAL

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NONCONFORMANCE REPORT

16 NCR NO. H-00459-77

17 DATE ISSUED 4/19/84 18 REV 0

19 PAGE 1 OF 1 RECEIVED
APR 21 1984

1 ITEM LOCATION Module 210E AX361
1'9" EAST OF 7.2 LINE 3'4" NORTH OF K LINE, BOD 626'5 1/2" C. P. Co. Legal

2 ITEM DRAWING/PART NO. V22SH2 REV 8 / DUCT 23
MS22SH2 REV 28 3 ITEM PART NAME V22SH2 REV 8 / DUCT 23 / F5847 4. ITEM SERIAL NO. N/A

5 ITEM DESCRIPTION
HVAC Duct Segment

6 ITEM STARTUP SYSTEM NO. OGLC 7 REFERENCE DOCUMENT AWS D1.1-79 & AWS D1.3-78 8 ASME A.N.I. REQUIRED
 YES NO

9 INSPECTION RECORD NO. N/A LOG NO. N/A REV NO. N/A 10 RESPONSIBLE ORGANIZATION Zack

11 NONCONFORMANCE DISCOVERED DURING:
 POST INSPECT TURNOVER DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT
 AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."
 AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE
Contrary to the above, an unqualified welder performed work on this piece.

14 NCR ORIGINATED BY (PERSON) S.K. [Signature] 4/19/84
DATE
 15 NCR ORIGINATED BY (DISCIPLINE) MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED) 1 21 LOCATION OF HOLD TAGS ON DUCT 23

22 POTENTIAL 50.55(e) YES NO 24 ACTION ITEM NO. Z0993 26 ITEM PRIORITY CODE NO. 3 28 NCR REVIEWED BY: Heibeger

23 REPORTED TO MPQA MANAGER DATE N/A 25 DISCIPLINE: M 27 TREND CODE ZZ-40001 DATE: 4/19/84

CONTINUED ON REVERSE

29 CAUSE **ORIGINAL**

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

_____	DATE	MPQAD CONCURRENCE	DATE	PFQCE (ASME)	DATE
PROJECT FIELD ENGINEER					
_____	DATE	CP Co SMO (for turned over systems)	DATE	PQAE (ASME)	DATE
LEAD DESIGN ORG					
_____	DATE			A.N.I. (ASME)	DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION
 ACCEPTABLE UNACCEPTABLE
IF UNACCEPTABLE, REFERENCE SUPERCEDING MCR NUMBER _____

37 MCR CLOSED BY

_____	DATE
MPQAD	
_____	DATE
A.N.I. (ASME)	

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

ORIGINAL

NONCONFORMANCE REPORT

16 MCR NO. H-00460-22
17 DATE ISSUED 4/19/84 18 REV 0

19 PAGE 1 OF 1

1 ITEM LOCATION MODULE 260C AX734
14" WEST OF 7.2 LINE 2'3" NORTH OF J LINE, BOD 696'3"

2 ITEM DRAWING/PART NO. V27SH3 REV 11 / DUCT 192
M527 SH.3 REV 25 3 ITEM PART NAME V27SH3 REV 11 / DUCT 192 / P1201 4 ITEM SERIAL NO. N/A
RECEIVED

5 ITEM DESCRIPTION HVAC Duct Segment APR 24 1984
C. P. Co. Legal

6 ITEM STARTUP SYSTEM NO. 062H 7 REFERENCE DOCUMENT AWS D1.1-79 & AWS D1.3-78 8 ASME A.N.I. REQUIRED
 YES NO

9 INSPECTION RECORD NO. N/A LOG NO. N/A REV NO. N/A 10 RESPONSIBLE ORGANIZATION Zack

11 NONCONFORMANCE DISCOVERED DURING:
 POST INSPECT TURNOVER DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT
AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."
AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE
Contrary to the above, an unqualified welder performed work on this piece.

14 MCR ORIGINATED BY (PERSON) S.K. Amick 4/19/84
DATE
15 MCR ORIGINATED BY (DISCIPLINE) MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED) 1 21 LOCATION OF HOLD TAGS ON Duct 192

22 POTENTIAL 50.55(e) YES NO 24 ACTION ITEM NO. Z0994 26 ITEM PRIORITY CODE NO. 3 28 MCR REVIEWED BY: Heiberger

23 REPORTED TO MPQA MANAGER DATE N/A 25 DISCIPLINE: M 27 TREND CODE ZZ-40001 DATE: 4/19/84

CONTINUED ON REVERSE

29 CAUSE

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REMORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

_____ PROJECT FIELD ENGINEER	_____ DATE	_____ MPQAD CONCURRENCE	_____ DATE	_____ PFQCE (ASME)	_____ DATE
				_____ PQAE (ASME)	_____ DATE
_____ LEAD DESIGN ORG	_____ DATE	_____ CP Co SMO (for turned over systems) DATE		_____ A.N.I. (ASME)	_____ DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPCITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

_____ MPQAD	_____ DATE
_____ A.N.I. (ASME)	_____ DATE

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

ORIGINAL

NONCONFORMANCE REPORT

16 NCR NO. H-00461-22

17 DATE ISSUED 4/19/84 18 REV 0

19 PAGE 1 OF 1 RECEIVED

APR 21 1984

C. P. Co. Legal

1 ITEM LOCATION MODULE 260C AX 734
14" WEST OF 7.2 LINE 2'3" NORTH OF J LINE, BOD 696'3"

2 ITEM DRAWING/PART NO. V27SH3 REV 11 / DUCT 191
M527SH3 REV 25 3 ITEM PART NAME V27SH3 REV 11 / DUCT 191 / P1201 4 ITEM SERIAL NO. N/A

5 ITEM DESCRIPTION
HVAC Duct Segment

6 ITEM STARTUP SYSTEM NO. OGLH 7 REFERENCE DOCUMENT AWS D1.1-79 & AWS D1.3-78 8 ASME A.N.I. REQUIRED YES NO

9 INSPECTION RECORD NO. N/A LOG NO. N/A REV NO. N/A 10 RESPONSIBLE ORGANIZATION Zack

11 NONCONFORMANCE DISCOVERED DURING:
 POST INSPECT TURNOVER DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT
AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."
AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE
Contrary to the above, an unqualified welder performed work on this piece.

14 NCR ORIGINATED BY (PERSON) S.K. Rusbach 4/19/84
DATE
15 NCR ORIGINATED BY (DISCIPLINE) MPQAD HVAC

20 NUMBER OF HOLD TAGS (IF APPLIED) 1 21 LOCATION OF HOLD TAGS ON DUCT 191

22 POTENTIAL 50.55(e) YES NO 24 ACTION ITEM NO. Z0995 26 ITEM PRIORITY CODE NO. 3 28 NCR REVIEWED BY: Heiberger

23 REPORTED TO MPQA MANAGER DATE N/A 25 DISCIPLINE: M 27 TREND CODE ZZ-40001 DATE: 4/19/84

CONTINUED ON REVERSE

29 CAUSE

UNACCEPTABLE

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

_____	PROJECT FIELD ENGINEER	DATE	_____	MPQAD CONCURRENCE	DATE	_____	PFQCE (ASME)	DATE	
							_____	PQAE (ASME)	DATE
_____	LEAD DESIGN ORG	DATE	_____	CP Co SMO (for turned over systems)	DATE		_____	A.N.I. (ASME)	DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

_____	MPQAD	DATE
_____	A.N.I. (ASME)	DATE

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

ORIGINAL

NONCONFORMANCE REPORT

16 NCR NO.

H-00462-ZZ

17 DATE ISSUED

4/19/84

18 REV

0

19

PAGE 1 OF 1

1 ITEM LOCATION MODULE 340K-2C637 VERTICLE DUCT RUN BETWEEN 669'-10 1/2" AND 685'-0" LOCATED 40'-3" TO 39'-0" SOUTH OF 90° TO 270° AZ., 24'-3" TO 34'-9" EAST OF 0° TO 180° AZ.

2 ITEM DRAWING/PART NO.

V34SH1 REV B / DUCT 3
M534 SH. 1 REV. 13

3 ITEM PART NAME

V34SH1 REV B / DUCT 3 / P1306

4 ITEM SERIAL NO.

N/A
RECEIVED

5 ITEM DESCRIPTION

HVAC Duct Segment

APR 24 1984

C. P. Co. Legal

6 ITEM STARTUP SYSTEM NO.

ZGNC

7 REFERENCE DOCUMENT

AWS D1.1-79 & AWS D1.3-78

8 ASME A.N.I. REQUIRED

YES NO

9 INSPECTION RECORD NO.

N/A

LOG NO.

N/A

REV NO.

N/A

10 RESPONSIBLE ORGANIZATION

Zack

11 NONCONFORMANCE DISCOVERED DURING:

POST INSPECT

TURNOVER

POST TURNOVER

DESIGN

RECEIVING

CONST

RELEASE FOR INSPECT

PRE-OP TEST

FINAL TURNOVER

OVERINSPECT

12 REQUIREMENT

AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."

AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE

Contrary to the above, an unqualified welder performed work on this piece.

14 NCR ORIGINATED BY (PERSON)

R. L. Bishop

4/19/84
DATE

15 NCR ORIGINATED BY (DISCIPLINE)

MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED)

1

21 LOCATION OF HOLD TAGS

ON DUCT 3

22 POTENTIAL 50.55(e)

YES NO

24 ACTION ITEM NO.

Z0996

26 ITEM PRIORITY CODE NO.

3

28 NCR REVIEWED BY:

Keibeyer

23 REPORTED TO MPQA MANAGER

DATE N/A

25 DISCIPLINE:

M

27 TREND CODE

ZZ-40001

DATE:

4/19/84

CONTINUED ON REVERSE

F-2M/1A (Rev 1)

29 CAUSE ORIGINAL

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REMARK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

_____ PROJECT FIELD ENGINEER	_____ DATE	_____ MPQAD CONCURRENCE	_____ DATE	_____ PFQCE (ASME)	_____ DATE
				_____ PQAE (ASME)	_____ DATE
_____ LEAD DESIGN ORG	_____ DATE	_____ CP Co SMO (for turned over systems)		_____ A.N.I. (ASME)	_____ DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING MCR NUMBER _____

37 MCR CLOSED BY

MPQAD DATE

A.N.I. (ASME) DATE

ORIGINAL

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NONCONFORMANCE REPORT

16 NCR NO.

H-00463-22

17 DATE ISSUED

4/19/84

18 REV

0

19

PAGE 1 OF 1

1 ITEM LOCATION MODULE 340K 2C637 VERTICLE RUN OF DUCT BETWEEN 669'-10 1/2" AND 695'-0". LOCATED 40'-3" TO 39'-0" SOUTH OF 90° TO 270° AZ, 94'-3" TO 34'-9" EAST OF 0° TO 180° AZ.

2 ITEM DRAWING/PART NO.
V34SH1 REV 8 / DUCT 4
M534 SH.1 REV 13

3 ITEM PART NAME
V34SH1 REV 8 / DUCT 4 / P1306

4 ITEM SERIAL NO.
N/A

5 ITEM DESCRIPTION

HVAC Duct Segment

RECEIVED

APR 21 1984

6 ITEM STARTUP SYSTEM NO.

26 NC

7 REFERENCE DOCUMENT

AWS D1.1-79 & AWS D1.3-78

P. Co. Legal
8 ASME A.N.I. REQUIRED
 YES NO

9 INSPECTION RECORD NO.

N/A

LOG NO.

N/A

REV NO.

N/A

10 RESPONSIBLE ORGANIZATION

Zack

11 NONCONFORMANCE DISCOVERED DURING:

POST INSPECT

TURNOVER

POST TURNOVER

DESIGN

RECEIVING

CONST

RELEASE FOR INSPECT

PRE-OP TEST

FINAL TURNOVER

OVERINSPECT

12 REQUIREMENT

AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."

AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE

Contrary to the above, an unqualified welder performed work on this piece.

14 NCR ORIGINATED BY (PERSON)

R L Bishop

4/19/84
DATE

15 NCR ORIGINATED BY (DISCIPLINE)

MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED)

1

21 LOCATION OF HOLD TAGS

ON DUCT 4

22 POTENTIAL 50.55(e)

YES NO

24 ACTION ITEM NO.

Z0997

26 ITEM PRIORITY CODE NO.

3

28 NCR REVIEWED BY:

Heiberger

23 REPORTED TO MPQA MANAGER

DATE N/A

25 DISCIPLINE:

M

27 TREND CODE

ZZ-40001

DATE:

4/19/84

CONTINUED ON REVERSE

F-2M/1A (Rev 1)

29 CAUSE

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REMARK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

_____ PROJECT FIELD ENGINEER	_____ DATE	_____ MPQAD CONCURRENCE	_____ DATE	_____ PFQCE (ASME)	_____ DATE
_____ LEAD DESIGN ORG	_____ DATE	_____ CP Co SMO (for turned over systems)	_____ DATE	_____ PQAE (ASME)	_____ DATE
				_____ A.N.I. (ASME)	_____ DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

MPQAD DATE

A.N.I. (ASME) DATE

ORIGINAL

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NONCONFORMANCE REPORT

16 NCR NO. H-00464-ZZ

17 DATE ISSUED 4/19/84 18 REV 0

19 PAGE 1 OF 1

1 ITEM LOCATION MODULE 210.E AX361
21" EAST OF 7.2 TO WEST FACE OF DUCT, 3'-4" NORTH OF K TO NORTH SIDE OF DUCT, BCD
ELEVATION 626'-6"

2 ITEM DRAWING/PART NO.
V22SH2 REV 8 / DUCT 24
M 522SH2 REV 28

3 ITEM PART NAME
V22SH2 REV 8 / DUCT 24 / F5837

4 ITEM SERIAL NO.
N/A

5 ITEM DESCRIPTION
HVAC Duct Segment

RECEIVED
APR 21 1984

6 ITEM STARTUP SYSTEM NO.
ZGLC

7 REFERENCE DOCUMENT
AWS D1.1-79 & AWS D1.3-78

8 ASME A.N.I. REQUIRED
 YES NO

9 INSPECTION RECORD NO.
N/A

LOG NO.
N/A

REV NO.
N/A

10 RESPONSIBLE ORGANIZATION
Zack

11 NONCONFORMANCE DISCOVERED DURING:
 POST INSPECT TURNOVER DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT

AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."

AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE

Contrary to the above, an unqualified welder performed work on this piece.

14 NCR ORIGINATED BY (PERSON)
S.K. [Signature] 4/19/84
DATE
15 NCR ORIGINATED BY (DISCIPLINE)
MPQAD HVACA

20 NUMBER OF HOLD TAGS (IF APPLIED)
1

21 LOCATION OF HOLD TAGS
ON DUCT 24

22 POTENTIAL 50.55(e)
 YES NO

24 ACTION ITEM NO.
Z0998

26 ITEM PRIORITY CODE NO.
3

28 NCR REVIEWED BY:
Heiberg

23 REPORTED TO MPQA MANAGER
DATE N/A

25 DISCIPLINE:
M

27 TREND CODE
ZZ-40001

DATE:
4/19/84

CONTINUED ON REVERSE

29 CAUSE CONNECTIONS

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

PROJECT FIELD ENGINEER	DATE	MPQAD CONCURRENCE	DATE	PFQCE (ASME)	DATE
				PQAE (ASME)	DATE
LEAD DESIGN ORG	DATE	CP Co SMO (for turned over systems)	DATE	A.N.I. (ASME)	DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

MPQAD DATE

A.N.I. (ASME) DATE

ORIGINAL

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

NONCONFORMANCE REPORT

16 MCR NO. H-00465-ZZ	18 REV 0
17 DATE ISSUED 4/19/84	
19 PAGE <u>1</u> OF <u>1</u>	

1 ITEM LOCATION MODULE 210E-A361
21" EAST OF 7.2 TO WEST FACE OF DUCT, 3'-4" NORTH OF K TO NORTH SIDE OF DUCT, BOD
ELEVATION 626'-6"

2 ITEM DRAWING/PART NO. V22SH2 REV 8 / DUCT 25 M522 SH2 REV 28	3 ITEM PART NAME V22SH.2 REV 8 / DUCT 25 / F5246	4 ITEM SERIAL NO. N/A RECEIVED
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5 ITEM DESCRIPTION
HVAC Duct Segment
APR 21 1984
C. P. Co. Legal

6 ITEM STARTUP SYSTEM NO. OGLC	7 REFERENCE DOCUMENT AWS D1.1-79 & AWS D1.3-78	8 ASME A.N.I. REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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9 INSPECTION RECORD NO. N/A	LOG NO. N/A	REV NO. N/A	10 RESPONSIBLE ORGANIZATION Zack
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11 NONCONFORMANCE DISCOVERED DURING:
 POST INSPECT TURNOVER DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT
AWS D1.1-79, Section 6.4.1 states: "The Inspector shall permit welding to be performed only by welders, welding operators, and tackers who are qualified in accordance with the requirements of 5.3, or shall make certain that each welder, welding operator, or tacker has previously demonstrated his qualification under other acceptable supervision."
AWS D1.3-78, Section 7.2.1 states: "The Inspector shall make certain, ...and that all welders are qualified and are thoroughly familiar with these procedures."

13 NONCONFORMANCE
Contrary to the above, an unqualified welder performed work on this piece.

14 MCR ORIGINATED BY (PERSON) <u>K. L. Bishop</u> <u>4/19/84</u> DATE
15 MCR ORIGINATED BY (DISCIPLINE) <u>MPQAD HVACA</u>

20 NUMBER OF HOLD TAGS (IF APPLIED) 1	21 LOCATION OF HOLD TAGS ON DUCT 25
--	--

22 POTENTIAL 50.55(e) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	24 ACTION ITEM NO. Z0999	26 ITEM PRIORITY CODE NO. 3	28 NCR REVIEWED BY: <u>Chalger</u>
--	-----------------------------	--------------------------------	---------------------------------------

23 REPORTED TO MPQA MANAGER DATE <u>N/A</u>	25 DISCIPLINE: M	27 TREND CODE ZZ-40001	DATE: <u>4/19/84</u>
--	---------------------	---------------------------	-------------------------

CONTINUED ON REVERSE

29 CAUSE

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

PROJECT FIELD ENGINEER DATE

MPQAD CONCURRENCE DATE

PFQCE (ASME) DATE

PQAE (ASME) DATE

LEAD DESIGN ORG DATE

CP Co SMO (for turned over systems) DATE

A.M.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

MPQAD DATE

A.M.I. (ASME) DATE



Consumers
Power
Company

MIDLAND PROJECT
QUALITY ASSURANCE DEPARTMENT
QUALITY ACTION REQUEST

6. QAR Number RH00025ZZ	
7. Date Issued 4-9-84	8. Revision RECEIVED
9. Page 1 of 1 APR 21 1984	
10. ASME Related <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No C.P.Co Legal	

1. Requirement
FPZ 2.000 Rev.2 PARA 5.2 states:
The CWP form will be submitted to the applicable system/AREA team. The system/AREA team ENGINEER will determine if the work is "Q", "D" INTERFACE, OR NONIP AS DEFINED IN PARAGRAPH 6.5 OF FPG-7.300 AND COORDINATE THE CWP WITH OTHERS REQUIRED IN ACCORDANCE WITH PARAGRAPH 6.6.1, 6.7 AND 6.8 OF PROCEDURE FPG. 7.300

2. Deficiency
TEAM 20 TOR INTERPRETED THE SENTENCE OF PARAGRAPH 5.2 OF FPZ 2.000 "THE CWP FORM WILL BE SUBMITTED TO THE APPLICABLE SYSTEM/AREA TEAM," AS BEING TEAM 20. CWP; 20-0GLH-H-0001 TO 20-0GLF-H-0034 WAS INITIATED AND SIGNED BY TEAM 20 PERSONNEL.

3. QAR Originated by Ron Miller	4. Discipline/Division/Section MPQAD TOR	5. Response Due Date 4/23/84	11. Potential 50.55(e) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
13. Action Item No. 20946	15. Item Priority 5	17. S/U Code GL	12. Date Reported to MPQA Mgr N/A
14. Discipline X	16. Trend Code ZH-5(01)	18. Resb Code BOP-QC-ZACK	19. Action Organization MPQAD
			20. QAR Reviewed by H. Schifferer
			21. Date 4/9/84

22. Cause
NOT FULLY UNDERSTANDING THE INTEND OF THE SUBJECT PARAGRAPH

23. Proposed Corrective Action
1. TRAINING OF THE TOR TO THE INTEND OF THE PROCEDURE FPZ 2.000 REV.2.
2. Route CWP's to the applicable system/AREA team.

24. Responsible Organization/Person MPQAD TEAM 20 TOR Ron Miller	25. Proposed Completion Date 4/13/84
26. Disposition Concurrence H. Schifferer 4/9/84 CAR Reviewer Date	27. Disposition Action Taken N/A PQAE (ASME Only) Date

27. Disposition Action Taken
1. TRAINING OF THE TOR TO THE INTEND OF PROCEDURE FPZ 2.000 REV.2
2. CWP'S HAVE BEEN ROUTED TO THE APPLICABLE/AREA TEAMS

28. Method of Disposition Verification 1. TRAINING COMPLETE.	29. QAR Closed by H. Schifferer 4/9/84 MPQAD Date N/A PFGCE (ASME Only) Date
---	--

Acceptable Unacceptable Superseding QAR



Consumers
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Company

ORIGINAL

INDLAND PROJECT
QUALITY ASSURANCE DEPARTMENT

QUALITY ACTION REQUEST

6. QAR Number

RH-00027-ZZ

7. Date Issued

4-18-84

8. Revision

0

9. Page 1 of 1

1. Requirement Zack Procedure MB-FP-6, Rev 6, Paragraph 7.12 states in part... "Access to any weld filler metal issue area is controlled in accordance with a list generated by the LFWE. The FMIC, FSS and TCA are the only site personnel authorized to issue and accept returned weld filler metal."

10. ASME Related
 Yes No

RECEIVED

APR 21 1984

C. P. Co. Legal

2. Deficiency Contrary to above mentioned: "100 pounds of 1/8" E6011 Hobart Filler Metal was issued to a FWE and authorized by the same FWE. The FWE is not on the authorized list to issue Filler Metal. This Filler metal was received on site on Traveler F16161.

11. Potential 50.55(e)

Yes No

3. QAR Originated by

Brian Hayes

4. Discipline/Division/Section

MPQAD HVACA

5. Response Due Date

5-2-84

12. Date Reported to MPQA Mgr

N/A

13. Action Item No.

Z0951

15. Item Priority

.6

17. S/U Code

PGMOO

19. Action Organization

The Zack
Company

20. QAR Reviewed by

John Dittman

14. Discipline

X

16. Trend Code

ZZ-50001

18. Resb Code

Zack

21. Date

4/18/84

22. Cause

23. Proposed Corrective Action

24. Responsible Organization/Person

25. Proposed Completion Date

26. Disposition Concurrence

QAR Reviewer

Date

MPQAE (ASME Only)

Date

27. Disposition Action Taken

28. Method of Disposition Verification

29. QAR Closed by

MPQAD

Date

Acceptable

Unacceptable

Superceding QAR

PFOCE (ASME Only)

Date



AUDIT FINDING REPORT

QUALITY ASSURANCE DEPARTMENT 4

AI: S-2054 S/U: PGM-000 TREND: E-3 Priority: 4

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

Specification 7220-J-218(Q), Revision 17, Section 8.0 (third paragraph) states in part: (Reference FCR J-531)

"If a bend less than 15 degrees occurs between 2 and 5 inches from a two-directional tubing support clamp, and the tubing temperature is 140 degrees F or less (see Section 3.2.2 of Appendix A), it is not necessary to illustrate this bend in the routing drawings."

Contrary to the above requirement, numerous drawings reviewed include a stamp that "Bends of 15 degrees or less used at valves, supports, or fittings need not be shown on the drawing. These are correction bends required for construction and do not affect the design or function of the tubing." This stamp allows bends of less than 15 degrees which occur between 2 and 5 inches from a two-directional clamp with a tubing temperature of greater than 140 degrees F to be excluded from the routing drawing.

RECEIVED

APR 24 1984

C. P. Co. Legal

AFR SER NO:	M01-02-3-01F
PROJ/DEPT AUDITED:	Field Eng (Instr)
DATE OF ISSUANCE:	2/15/83
FILE NUMBER:	CLOSED 18.4
DISTRIBUTION:	WRBird - JAMooney JEBrunner JARutgers JSCampbellTKSubramanian JClinton WASullivan JWCook DATaggart MLCurland MAVerderosa LHCurtis RAWells LEDavis REWhitaker MADietrich JLWood BTFoote ALAB-2 MJFriedrich GSKeeley SEE JAJohnson ATTACHED BWFarguglio DISTRIBUTION DBMiller

RECOMMENDED CORRECTIVE ACTION:

Obtain all routing drawings which include this stamp and either delete the stamp or revise it to meet the above requirements of 7220-J-218. Field engineering and QC to check completed installations made to drawings containing such stamps and verify that there are no bends between 2 and 5 inches from a 2D clamp that are excluded from the routing drawings where tubing temperatures may be greater than 140 degrees F. Forward results of installation checks and document affected drawing numbers to MPQAD.

CORRECTIVE ACTION COMMITMENT:

DATE OF C/A COMPLETION: 4/18/84

DATE OF C/A EFFECTIVENESS: 4/18/84

ORG. RESP FOR C/A:

Bechtel FE

PERSON MAKING C/A COMMITMENT:

LEDavis

METHOD OF VERIFICATION:

Based on the close-out plan for AFR M01-02-3-03F, and the status assessment program, this finding is closed.

IS AF REPORTABLE PER 90.55(e): 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:

AFR ORIGINATOR'S SIGNATURE/DATE: *Scott Cohen* 2/7/83

APPROVED BY/DATE: *M. A. Verderosa* 2/14/83

C/A VERIFICATION SIGNATURE: *P D Everly*

VERIFICATION DATE: 4/18/84



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QA-50-2

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT 10

Page 1 of 2

PRIORITY: 6 AI: S-2055

SU: PGM-000 TREND: E-3

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

Specification 7220-G-36, Revision 0, Section 3.1 (fourth paragraph, steps b,e,f) state, in part:

"The following procedures shall be followed by drawing checkers...

'Correct work shall be yellowed out on the check print to verify that all items have been checked...'

'As the corrections are made on the original drawing, the correction marks on the check print shall be circled with blue markings.'

'Check prints and corrected drawings shall be given to the checker to determine that corrections have been properly made.'

Contrary to the above requirements, almost each drawing reviewed from sample of 20 have changes that were back checked; however, the correctly incorporated items checked were not marked in yellow. In one instance (drawing JC2-0084, sheet 7 of 10), item A (tubing) on the Bill of Materials was changed from 56 feet to 58 feet and circled in blue.

The issued drawing still shows 56 feet.

RECEIVED

APR 24 1984

C. P. Co. Legal

AFR SER NO:

M01-02-3-02F

PRG/DEPT AUDITED:

Field Eng (Instr)

DATE OF ISSUANCE:

2/15/83

FILE NUMBER:

16.0 18.4 **CLOSED**

DISTRIBUTION:

WRBird	JAMooney
JEBrunner	JARutgers
JSCampbell	TKSubramanian
JClinton	WASullivan
JWCook	DAIaggart
MLCurland	MAVerderosa
LHCurtis	RAWells
LEDavis	REWhitaker
MADietrich	JLWood
BTFoote	ALAB-2
WJFriedrich	
GSKesley	SEE
JAJohnson	ATTACHED
BWMarguglio	DISTRIBUT.
DBMiller	

RECOMMENDED CORRECTIVE ACTION: Field Engineering to review a sample of 20 drawings and evaluate whether or not incorporated changes marked in blue that were not yellowed out on subsequent back check prints resulted in other instances where changes were not incorporated on issued drawings. Evaluate the adequacy of 7220-G-36, Section 3.0 to clarify checker requirements and revise, as necessary. (The present interpretation of checkers circling incorporated corrections in blue, instead of the preparer circling such corrections should be considered in the above evaluation.)

(Cont on next page)

CORRECTIVE ACTION COMMITMENT:

DATE OF C/A COMPLETION: 4/18/84

DATE OF C/A EFFECTIVENESS: 4/18/84

ORG. RESP FOR C/A:
Bechtel FE

PERSON MAKING C/A COMMITMENT:
LEDavis

METHOD OF VERIFICATION:

Per FCR M-8046 clarifying Spec. G-36, Sect. 3.1 and the close-out plan to AFR M01-02-3-03F, this finding is closed.

IS AF REPORTABLE PER 50.55(e):

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:

AFR ORIGINATOR'S SIGNATURE/DATE:

John (unclear) 2/7/83

APPROVED BY/DATE:

MAVerderosa 2/14/83

C/A VERIFICATION SIGNATURE:

P D Everly *J. Barbieri for P. D. Everly*

VERIFICATION DATE:

4/19/84



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AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT

CONTINUATION SHEET:

AFR M01-02-3-02F

Page 2 of 2

"AS IS" CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED):

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

Instruct all checkers as to the requirements of 7220-G-36, Section 3.0 to ensure requirements are clearly understood. Results of instruction and evaluations of sample drawings shall be submitted as part of the response to this AFR.

CORRECTIVE ACTION (CONTINUED):



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QA-50-2

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT

AI: S-2056 SU: PGM-000 TREND: K-5 PRIORITY: 4 Page 1 of 23

04/22/83

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

Specification 7220-J-218, Revision 17, Section 8.0 (fourth paragraph) states in part:

"Calculations for each line routing shall be performed and checked to ensure that sufficient offsets in the tubing run are provided to accommodate equipment thermal, and seismic motion. This calculation shall be submitted with the instrument impulse line and sample line drawing to project engineering for review and approval."

Specification 7220-J-218, Revision 17, Section 8.0 (second paragraph, step f) states in part:

"These drawings shall contain the following as a minimum... Dimensioned configurations of tubing routings indicating support spans. Dimensions shall have a maximum tolerance of ± 3 inches unless otherwise specified by project engineering."

The above two requirements conflict in that all of the drawings reviewed state that dimensions are to be ± 3 inches unless otherwise noted. There are numerous examples of calculations which result in offsets for thermal expansion that are sufficient by only 3 inches or less (some of which are sufficient by only .01 feet). As a result, a reduction in the field of such thermal expansion offset lengths by 3 inches from the calculated offset requirements would not require redline and could result in the as-installed (cont)

APR SER NO: Rev 1
M01-02-3-03F 9/22/83

PROJ/DEPT AUDITED:
Field Eng (Instr)

DATE OF ISSUANCE:
2/15/83 LA

FILE NUMBER: 16.0 CLOSED 18.4

DISTRIBUTION:

WRBird	JKMelsenheim
JEBrunner	JAMooney
JSCampbell	JARutgers
JClinton	TKSubramanian
JWCook	WASullivan
MLCurland	DATaggart
LHCurtis	MAVerderosa
LEDavis	FAWells
MADietrich	REWhitaker
DTFoote	JLWood SEE
JWFriedrich	ALAB-2 ATTACH
GSKesley	JABauer DISTRIB
JJohnson	FWBuckman
BWMarguglio	MADietrich
DEMiller	GFEwert
GParker	MHanbury
	DJones
	JPKnight
	CRichards
	RCSember

RECOMMENDED CORRECTIVE ACTION:

~~Project engineering to evaluate the adequacy of the ± 3 inch tolerance for tubing routing drawings, and revise the tolerances or develop requirements in J-218 that will assure such dimensional tolerancing does not jeopardize thermal expansion calculations where the margin of sufficient offset will not exceed such tolerances. Field Engineering is to revise drawings as required based on the above evaluation, and Field Engineering and QC (Cont)~~

CORRECTIVE ACTION COMMITMENT:

Reference T/N 233823, dated 11/4/83 and Response received 4/19/83, copies attached.

REVISION NO: 1 APR 14 1984
DISCARD PREVIOUS ISSUE P. Co. Legal

DATE OF C/A COMPLETION: 4/18/84
DATE OF C/A EFFECTIVENESS: 4/18/84

ORG. RESP FOR C/A: Bechtel Proj Eng
Bechtel FE

PERSON MAKING C/A COMMITMENT: LHCurtis
LEDavis

METHOD OF VERIFICATION:

Based on the Status Assessment Program verification activities, this finding is considered closed.

IS AF REPORTABLE PER 50.55(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/DATE:
Stanley 2/7/83

APPROVED BY/DATE:
M. Anderson 2/14/83

C/A VERIFICATION SIGNATURE:
P D Everly *PD Everly*

VERIFICATION DATE:
4/19/84



Consumers
Power
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AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT

CONTINUATION SHEET:

AFR#: M01-02-3-03F

9/23/03
Page 2 of 3

"AS IS" CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED):

condition not meeting the thermal expansion offset requirements of 7220-J-218. There is no objective evidence that calculated offset requirements are considered by installation and inspection personnel in lieu of the ± 3 inch dimension tolerance, thus leaving the adequacy of offsets for thermal expansion indeterminate for cases where the offset thermal expansion is calculated to be sufficient by 3 inches or less.

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

~~is to reinspect affected dimensions as required to ensure thermal expansion offsets are adequate, based on the above project engineering evaluation results. Results of all evaluations and reinspections shall be submitted as part of the response to this AFR.~~

- 1) Project Engineering to evaluate the adequacy of the ± 3 inch tolerance for tubing routing dwgs and:
 - a) Revise the tolerances or,
 - b) Develop requirements in J-218 that will assure that such dimensional tolerances do not jeopardize thermal expansion calculations where the margin of sufficient offset will not exceed such tolerances.

(continued)

9/23/03

CORRECTIVE ACTION (CONTINUED):



AUDIT FINDING REPORT

CONTINUATION SHEET M01-02-3-03F

"AS IS CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED):

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

- 2) Field Engineering is to revise dwgs as required based on the above evaluation.
- 3) Develop a method (or action plan) which will assure that affected dimensions required to ensure thermal expansion offsets are adequate, based on Project Engineering evaluation.
- 4) Provide an approved copy of above method (C/A#3) to MPQAD for review and concurrence.

CPA/23/83

CORRECTIVE ACTION (CONTINUED):



ANN ARBOR

TRANSMITTAL FORM

233823

PLEASE RECEIPT AND RETURN
BLUE COPY IMMEDIATELY

DATE 11-4-83

ACTION

SUBJECT

CODE

ACTION FOR VENDORS

1. WORK MAY PROCEED.

2. WORK MAY PROCEED. SUBMIT FINAL DOCUMENT.

3. REVISE AND RESUBMIT. WORK MAY PROCEED SUBJECT TO INCORPORATION OF CHANGES INDICATED.

4. REVISE AND RESUBMIT. WORK MAY NOT PROCEED.

5. REVIEW NOT REQUIRED. WORK MAY PROCEED.
 FOR INFORMATION ONLY.

ACTION FOR OTHERS

6. FOR APPROVAL

7. CONSTRUCTION

8. PRELIMINARY USE

9. REFERENCE

10. AFR

<input type="checkbox"/> BECTHEL DRAWINGS	B
<input type="checkbox"/> VENDOR DRAWINGS	V
<input type="checkbox"/> MATERIAL REQUISITION	MR
<input type="checkbox"/> SPECIFICATIONS	S
<input type="checkbox"/> BID REQUEST	BR
<input type="checkbox"/> QUOTATIONS	Q
<input type="checkbox"/> PURCHASE ORDER	PO
<input type="checkbox"/> CONFERENCE NOTES	CN
<input type="checkbox"/> BID SUMMARY	BS
<input type="checkbox"/> SUBCONTRACTS	SC
<input type="checkbox"/> _____	X
<input type="checkbox"/> _____	Y

ATTENTION VENDORS: ALL FINAL DRAWINGS SUBMITTED TO BECTHEL MUST BE CERTIFIED TRANSPARENCIES.

QTY.	F.P. PREFIX	BECTHEL FOREIGN PR. NO.	REV. NO.	TITLE	VENDOR NO.	ACTION	CODE
	<u>7270</u>			<u>AFR # M01-02-3-03F</u>		<u>10</u>	

CONSUMERS POWER COMPANY
RECEIVED
NOV 14 1983
HP LEONARD

COMMENTS: _____ LEONARD _____
 _____ BIRD _____

TO CPCo

FROM BAPC

TRANSMITTAL TYPE
 VENDOR PRINT
 OTHER

BY EMH/mem



129949
133710
AI: S-2056 SU: PGM-000 TREND: K-5 PRIORITY: 4

Specification 7220-J-218, Revision 17, Section 8.0 (fourth paragraph) states in part:

"Calculations for each line routing shall be performed and checked to ensure that sufficient offsets in the tubing run are provided to accommodate equipment thermal, and seismic motion. This calculation shall be submitted with the instrument impulse line and sample line drawing to project engineering for review and approval."

Specification 7220-J-218, Revision 17, Section 8.0 (second paragraph, step f) states in part:

"These drawings shall contain the following as a minimum... Dimensioned configurations of tubing routings indicating support spans. Dimensions shall have a maximum tolerance of ±3 inches unless otherwise specified by project engineering."

The above two requirements conflict in that all of the drawings reviewed state that dimensions are to be ±3 inches unless otherwise noted. There are numerous examples of calculations which result in offsets for thermal expansion that are sufficient by only 3 inches or less (some of which are sufficient by only .01 feet). As a result, a reduction in the field of such thermal expansion offset lengths by 3 inches from the calculated offset requirements would not require redline and could result in the as-installed (cont)

AFR NO.:	Rev 1
M01-02-3-03F	9/22/83
FROM/DEPT ASSIGNED:	Field Eng (Instr)
DATE OF ISSUE:	2/7/83
FILE NUMBER:	16.0
DESIGNATION:	JKHeisenheim
WRBird	JAMooney
JEBrunner	JARutgers
JSCampbell	TKSubramanian
JClinton	WASullivan
JWCook	DAFagert
MLCurland	MAVerderosa
LHCurtis	RAWells
LEDavis	RSWhitaker
MADietrich	JWood
BTfoote	ALAB-2
HIFriedrich	JABauer
GSKeeley	FWBuckman
JJohnson	MADietrich
BWMarguglio	GFEwert
DBMiller	MHanbury
GParker	DJones
	JPKnight
	GRichards
	RCSeiber

CONSIDERED CORRECTIVE ACTION:

~~Project engineering to evaluate the adequacy of the ±3 inch tolerance for tubing routing drawings, and revise the tolerances or develop requirements in J-218 that will assure such dimensional tolerancing does not jeopardize thermal expansion calculations where the margin of sufficient offset will not exceed such tolerances. Field Engineering is to revise drawings as required based on the above evaluation, and Field Engineering and QC (Cont)~~

RESOLUTIVE ACTION COMPLETED:

Project engineering's complete response to subject AFR is attached.

REVISION NO: 1
DISCARD PREVIOUS ISSUE

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

MODE OF VERIFICATION:

CONS. RESP FOR C/A:	PERSON ISSUED C/A COMMENT:
Bechtel Proj Eng	LHCurtis
Bechtel FE	LEDavis

IS AF RESPONSIBLE FOR 50.55(a): YES NO

IF "YES", DATE OF REPORT TO MGR:

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

IF "YES", WHO MADE REPORT:

ORIGINATOR'S SIGNATURE/DATE:
J. Hartman 2/7/83

APPROVED BY/DATE:
M. Anderson 2/14/83

QA VERIFICATION SIGNATURE:

VERIFICATION DATE:

133710

AFR M01-02-3-03F, Rev 1
AI No. S-2056

Project engineering's complete response to AFR.

Item 1.a, 1.b, and Item 2 - Conflict reported in subject AFR between Paragraphs 2(f) and Section 8.0 (4th paragraph) of Specification 7220-J-218(Q), Rev 17, has been resolved by issue of Specification Change Notice 20, on April 12, 1983, and incorporated in Revision 18 of specification on June 2, 1983. (Ref.previous response dated 4/26/83)

Item 3, 4 - See attached "Action Plan for AFR-M01-02-3-03F, 'Q' instrument tubing supports", issued October 12, 1983.

R.C. Hollar
E.M. Hughes
Project Engineer

11-4-83

EMH/TJS/hl
110405

cc: W. Bird

bcc: L.H. Curtis
M.A. Dietrich
R.C. Hollar
J.T. Minor (PFE)
G. Singh
F. Thomas (APFE)

Written Response Requested: No

Com Use: Closes Com 129949

CLOSE OUT PLAN

133710

FOR AFR-M01-02-03-03F

"Q" INSTRUMENT TUBING AND SUPPORTS

Prepared By F. J. Thomas

Date 10/12/83

Approved By James T. Menz
Project Field Engineer

Date 10/12/83

"Q" INSTRUMENT TUBING AND SUPPORTS

133710

I. PURPOSE

The purpose of this document is to describe an action plan, currently in use, to close out a February 1983 MPQAD Audit Finding Report (AFR) M01-02-03-03F, associated with the design of instrument tubing and supports.

II. BACKGROUND AND SCOPEA. Audit Finding Report Issuance

On February 15, 1983, MPQAD Issued AFR M01-02-03-03F, attached as Appendix A, indicating that there are conflicting design requirements in Specification 7220-J-218(Q), Rev. 17, and requiring the following corrective actions:

1. "Project Engineering to evaluate the adequacy of the ± 3 inch tolerance for tubing routing drawings, and a) revise the tolerances or b) develop requirements in J-218 (Q) that will assure such dimensional tolerances do not jeopardize thermal expansion calculations where the margin of sufficient offset will not exceed such tolerances."
2. "Field Engineering is to revise drawings as required based on the above evaluation."
3. Develop a method (or action plan) which will assure that affected dimensions required to ensure thermal expansion offsets are adequate, based on Project Engineering evaluation.
4. Provide an approved copy of above method (C/A#3) to MPQAD for review and concurrence.

B. Non-Conformance Report Issuance

To provide additional documentation of this condition, on July 1, 1983, NCR #5805 (attached as Appendix B) was initiated by Bechtel Construction noting the principal differences between Rev. 17 and Rev. 18 of J-218(Q) and stating that this condition makes the acceptability status of the issued design indeterminate.

II. BACKGROUND AND SCOPE (cont'd)

C. DRAWING AND CALCULATION ORIGINATION AND REVIEW

133710

The drawings for instrument tubing and supports and supporting calculations are prepared as a detailing activity by Field Engineering in accordance with Specification J-218(Q). The drawings and calculations are reviewed and approved by Project Engineering before they are issued for construction.

D. SCOPE

The scope is approximately 1,575 "Q" drawings representing approximately 100,000 linear feet of tubing and associated supports.

- III. CORRECTIVE ACTION SUMMARY -

The following paragraphs summarize the corrective actions that have been or will be taken in response to the AFR, numbered to correspond with the three parts listed in Section II. A., above. (Figure 1 Attached) -- --

1. In response to part 1 of the AFR, on April 12, 1983, Project Engineering issued Specification Change Notice 20 (SCN 20) to Specification J-218(Q) Rev. 17. SCN 20 clarified to construction the use of a construction tolerance and reduced the minimum required offset when using non-L-Grade material. SCN 20 was incorporated as part of Revision 18 to Specification J-218(Q).

On April 26, 1983, Project Engineering documented their response to this part of the AFR.

2. The following paragraphs describe the steps being taken to determine whether or not it is necessary to revise the drawings as required by part 2 of the AFR corrective action:

Step 1. The installed instrument tube routing is physically walked down, and dimensions are recorded on a copy of the existing drawing.

Step 2. The marked-up drawing showing the as-built condition is reviewed in conjunction with the calculations associated with that drawing. This review is based on the latest revision of J-218(Q) and any Field Change Requests (FCRs) that were written against this specification.

III. CORRECTIVE ACTION SUMMARY (cont'd)

Step 3. The marked-up drawing showing as-built conditions shall be reviewed for design and calculation criteria at the time of installation.

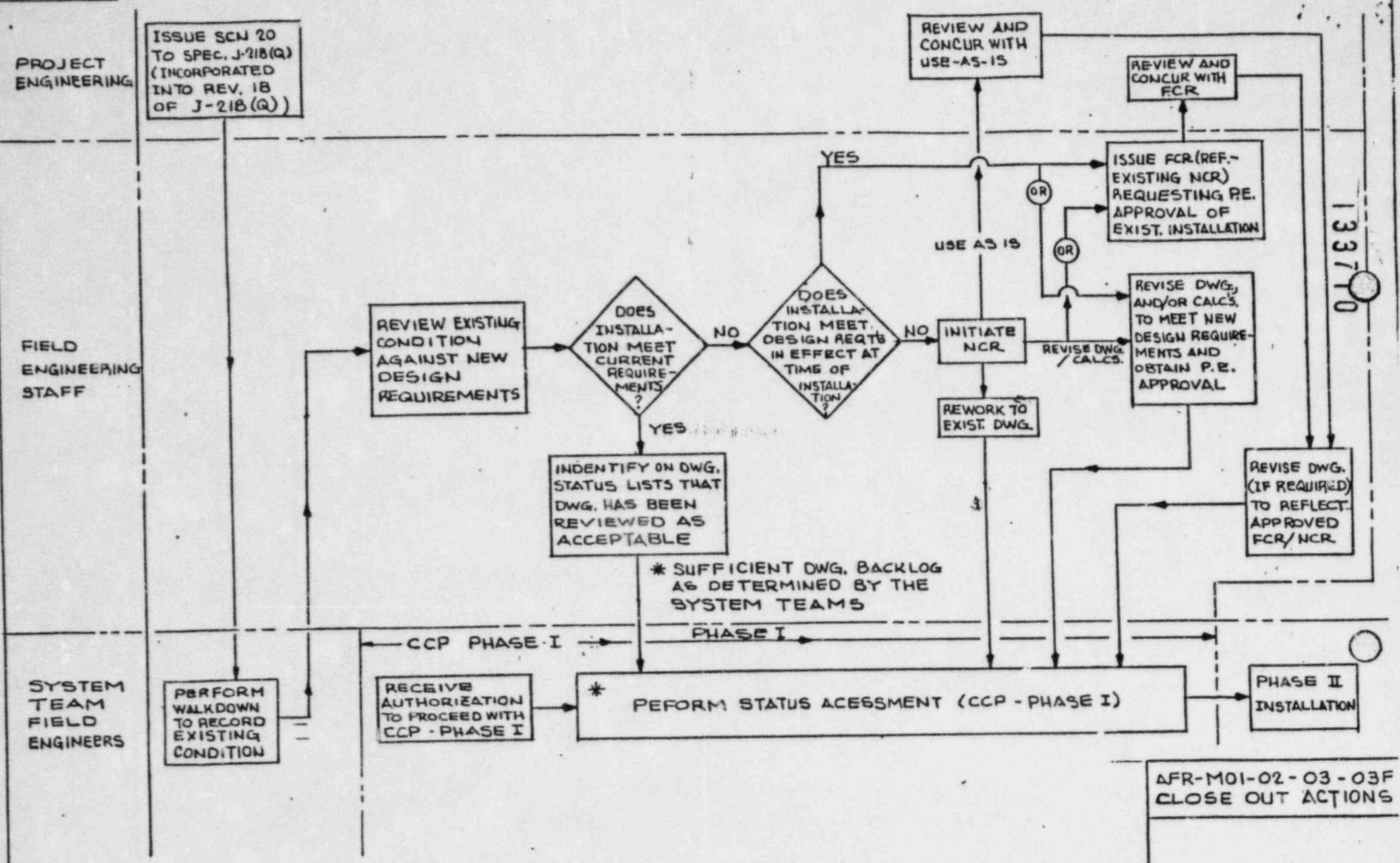
133710

- a. If the existing installed conditions meet design requirements in effect at the time of installation, one of the two following conditions apply:
 1. The drawing may be revised to meet new design criteria. Project Engineering approval is required for the new revision.
 2. An FCR is originated for Project Engineering approval as a one time deviation to the current design requirements. NCR #5805 shall be referenced on each FCR. If required, the drawing is then revised to reflect the approved FCR/FCN.
- b. If the existing installed conditions do not comply with the design criteria at the time of installation, Field Engineering shall generate an NCR in accordance with the requirements of ZFM PSP-G3.2.

Completion of AFR Part 2 action shall not be a restraint on starting Construction Completion Program (CCP) Phase 1. When authorized to proceed with CCP Phase 1, System Team Field Engineers will proceed with status assessment based on the available backlog of drawings that have been reviewed against new requirements and, if required, revised.

No hardware changes to "Q" installations shall be made until authorization is received to proceed with Phase 2 of the Construction Completion Program (CCP).

3. With regard to the AFR Part 3 requirements this action plan has been developed to assure that affected dimensions required to ensure thermal expansion offsets are adequate, based on Project Engineering evaluation.



133710

AFR-M01-02-03-03F
CLOSE OUT ACTIONS

FIGURE 1

This is project engineering and field engineering's complete response to AFR M01-02-3-03F.

Item 1

Project engineering's complete response was made on November 4, 1983.

Items 2 and 4

It has been determined that compliance with the requirements of the approved Construction Completion Program (CCP) shall satisfy the corrective action requirements identified in Parts 2 and 4. Any nonconformances identified during implementation of the CCP will be documented in accordance with PCP-G-3.2/F2M.

Item 3

The latest revision of Specification 7220-J-218(Q), Rev 23, dated February 21, 1984, contains graphs and tables that indicate minimum required offsets for impulse lines from 140 to 700F, maximum tubing support spans, and axial restraint requirements. These tables can be used by engineering, construction, quality control, or quality assurance for design, installation, or inspection.

Based on the above summary, we are requesting closeout of the subject audit finding report.

If further assistance is required, contact G. Singh at Extension 7091.

E.B. Poser 4/13/84
E.B. Poser
Project Engineering Manager

RCH
RCH/MRS/lmm*(QE)

cc: W.R. Bird

bcc: M.A. Dietrich
B.T. Foote
G.A. Hierzer (jobsite)
R.C. Hollar
M.R. Smith

Written Response Requested: No

Com Use: Closes AFR M01-02-3-03F



Consumers
Power
Company
QA-50-2



AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

Page 1 of 2 18

AI: S-2057 SU: 283 TREND: E-3

PRIORITY: 4

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

Specification 7220-G-35, Revision 1, Section 3.0 (third paragraph), states, in part:

"Checkers' responsibilities include:

- a) Checking calculations against design documents to verify conformance with specified configurations, dimensions, and materials.
- b) Checking calculations for assumptions, analytical methods, mathematical accuracy, completeness, and compliance with applicable specifications."

Contrary to the above requirements, the following calculations (from a sample size of 8) were found to be inaccurate or incomplete as follows:

- 1) For JB2-0034, the calculation for thermal expansion of A29 to A28 is noted as 1.85 feet, while 1.92 feet is indicated by the drawing. The resultant offset required was noted as 0.48 feet, corrected it is 0.49 feet. The offset leg for thermal expansion (A28 to A27) was noted as 0.52 ft; however since the fitting was incorrectly included in the offset the actual available offset (excluding fitting) is 0.45 feet, and as a result does not meet the minimum required thermal expansion offset requirements.

(Cont)

AFR SER NO:

M01-02-3-04F

PROJ. REPT AUDITED:

Field Eng (Instr)

DATE OF ISSUANCE:

2/15/83

FILE NUMBER:

16.0 CLOSED
18.4

DISTRIBUTION:

WRBird	JAMooney
JEBrunner	JARutgers
JSCampbell	TKSubramanian
JClinton	WASullivan
JWCook	DATaggart
MLCurland	MAVerderosa
LHCurtis	RAWells
LEDavis	REWhitaker
MADietrich	JLWood
BTFoote	ALAB-2
WJFriedrich	
GSKeeley	<u>SEE</u>
JAJohnson	<u>ATTACHED</u>
BWMargaglio	<u>DISTRIBUTION</u>
DBMiller	

RECOMMENDED CORRECTIVE ACTION:

Resolve listed discrepancies and correct calculations as indicated. Investigate a sample of 20 approved calculation packages and recheck for inaccuracies or incomplete information. Submit results of investigation as part of response to this AFR. Provide instruction to checkers based on results of the above investigation.

CORRECTIVE ACTION COMMITMENT:

RECEIVED

APR 21 1984

C. P. Co. Legal

DATE OF C/A COMPLETION: 4/18/84

DATE OF C/A EFFECTIVENESS: 4/18/84

ORG. RESP FOR C/A:
Bechtel FE

PERSON MAKING C/A COMMITMENT:
LEDavis

METHOD OF VERIFICATION:

Based on the close-out plan to AFR M01-02-3-03F, this finding is closed.

IS AF REPORTABLE PER 50.55(*):

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:

AFR ORIGINATOR'S SIGNATURE/DATE:

James Campbell 2/7/83

APPROVED BY/DATE:

MAVerderosa 2/14/83

C/A VERIFICATION SIGNATURE:

P D Everly *JJ Bonbrun for PDEverly*

VERIFICATION DATE:

4/19/84



"AS IS" CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED)

- 2) For JB2-0034, the thermal expansion calculation for A24 to A25 indicates 0.50 feet available between A25 and A26. This value should be 1.00 feet.
- 3) For JC2-0084, Sheet 7 of 10, calculations HH7 to (later) and JJ6 to (later) were not corrected to indicate revised redline dimensions. As a result, these checked calculations are not complete.
- 4) For JC2-0084, Sheet 7 of 10, the following calculations are not accurate as indicated:
 - a) The dimension of J2 to J3 (excluding fittings) is different on thermal expansion calculations of JJ1 to JJ2, and JJ4 to JJ3. Values are 0.48 feet and 0.41 feet, respectively.
 - b) Thermal expansion calculation EE4 to EE10 indicates 1.44 feet available between EE15 and EE10, should be 1.36 feet.
 - c) Thermal expansion calculation for EE10 to EE15 includes value of .8 feet, should be 1.50 feet. The resulting calculation value should be 0.43 feet, instead of 0.44 feet as noted.
 - d) Thermal expansion calculation for GG4 to GG5 indicates 1.35 feet available as offset between GG14 and GG5 (excluding fittings). Value should be 1.28 feet.
 - e) Thermal expansion calculation GG14 to GG5 is noted as 1.50 feet. Value should be 1.42 feet.
 - f) HH1 to HH2, JJ1 to JJ2, EE1 to EE2, and GG1 to GG2 are straight runs which are not listed in the calculation package as receiving axial restraint considerations as required.
- 5) For JB2-0078, in thermal expansion calculations the distance of B10 to B9 and A14 to A13 is noted as .33 feet, but sufficient dimensions are not given at the penetration nodal points to determine this dimension.
- 6) For JB2-0021, the dimension of A10 to (A17 + A20 to A18) is given in the calculation package as 13.32 feet. Value should be 13.44 feet.

It should be noted that none of the errors in (2) through (6) above resulted in the maximum required thermal expansion offset requirements being violated.



Consumers
Power
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QA-50-2

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION
QUALITY ASSURANCE DEPARTMENT

APR 24 1984

TREND: E-1 SUS: 1ABA PRIORITY: 06 AI: S-1887

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

Specification 7220-C-305(Q) Rev 15

- Paragraph 4.11
Case II if X is greater than two times hose diameter but less than minimum edge distance of Appendix C, Table 4.1 or 4.1A plus half hole diameter.

New anchor bolts may be torqued only upon completion of repairs on the abandoned hole in accordance with Section 7.1.2.

- Specification 7220-C-305(Q) Rev 15, appendix C Table 4.1A lists minimum edge distance for 1/4" anchor to be 3".
- Contrary to the above, the 1/4" anchor bolts at data point A29 FSK-JC1-0030Q are less than 2 inches from an abandoned hole.

AFR SER NO:	C P Co. Legal
PROJ/DEPT AUDITED:	M01-342-2-02E
DATE OF ISSUANCE:	SPO Const/QC
FILE NUMBER:	12/17/82
DISTRIBUTION:	16.0 18.4 CLOSED
WRBird	MJSchaeffer
JEBrunner	TKSubramanian
JWCook	WASullivan
MLCurland	DATaggart
LEDavis	RAWells
MADietrich	JLWood
CRFugate	ALAB-2
GSKeeley	LEDavis
BWMarguq	
RKramer	SEE
DBMiller	ATTACHED
JAMooney	DISTRIBUTION
JARutgers	
ESmith	

RECOMMENDED CORRECTIVE ACTION:

- Repair item #3 in accordance with C-305. (LEDavis)
- Retrain the appropriate craft personnel on requirements of FIG 2.111(Q). (LEDavis)
- QC to verify. (ESmith)
- Retrain the appropriate QC personnel on requirements of POCI C-1.50. (ESmith)

CORRECTIVE ACTION COMMITMENT:

See attached Transmittal #54928 and copy of NCR C-01902

DATE OF C/A COMPLETION:	4/17/84	ORG. RESP FOR C/A:	Bechtel QC	PERSON MAKING C/A COMMITMENT:	R Kramer
DATE OF C/A EFFECTIVENESS:	4/17/84		Bechtel Construction		C Fugate

METHOD OF VERIFICATION:

Based on issue of NCR C-01902 and review of Master Certification List, this finding is considered closed.

- Memo MPQAD-QCM-83-122 dated 8/4/83, attached, indicates no inspection performed. Recommendation is in error and is closed.

IS AF REPORTABLE PER 50.55(8):	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
A/R SIGNATURE/DATE:	WASullivan 10/17/82	APPROVED BY/DATE:	M. G. Schuster 12/23/82
C/A VERIFICATION SIGNATURE:	P D Everly J. B. Baird for P D Everly	VERIFICATION DATE:	4/19/84



BECHTEL POWER CORP. TRANSMITTAL FORM

No. 54928
PLEASE RECEIPT AND RETURN
BLUE COPY IMMEDIATELY

DATE 4-13-84

* ACTION

SUBJECT

CODE

ACTION FOR VENDORS

- APPROVED - MFG. MAY PROCEED
- APPROVED - SUBMIT FINAL DWG. MFG. MAY PROCEED
- APPROVED EXCEPT AS NOTED, MAKE CHANGES AND SUBMIT FINAL DWG. MFG MAY PROCEED AS APPROVED
- NOT APPROVED. CORRECT AND RESUBMIT
- REVIEW NOT REQUIRED MFG. MAY PROCEED.

ACTION FOR OTHERS

*LJB
PDE
ALP*

- FOR APPROVAL
- CONSTRUCTION
- PRELIMINARY USE
- REFERENCE
- Complete Response

<input type="checkbox"/>	BECHTEL DRAWINGS	B
<input type="checkbox"/>	VENDOR DRAWINGS	V
<input type="checkbox"/>	MATERIAL REQUISITION	MR
<input type="checkbox"/>	SPECIFICATIONS	S
<input type="checkbox"/>	BID REQUEST	BR
<input type="checkbox"/>	QUOTATIONS	Q
<input type="checkbox"/>	PURCHASE ORDER	PO
<input type="checkbox"/>	CONFERENCE NOTES	CN
<input type="checkbox"/>	BID SUMMARY	BS
<input type="checkbox"/>	SUBCONTRACTS	SC
<input type="checkbox"/>		X
<input type="checkbox"/>		Y

ATTENTION VENDORS: ALL FINAL DRAWINGS SUBMITTED TO BECHTEL MUST BE CERTIFIED TRANSPARENCIES.

QTY.	F. P. PREFIX	BECHTEL FOREIGN PR. NO.	REV. NO.	TITLE	VENDOR NO.	ACTION	CODE
				FE-AI-J-252			
				0A-AI-S-01887			
				CPCO AFR NO. 242-8-000 CONSUMERS POWER COMPANY			

RECEIVED
APR 16 1984

ORIGINAL PRINTS

CAUTION

FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

CONSUMERS POWER COMPANY

RECEIVED
APR 17 A.M.
SITE AUDIT
MIDLAND, MICHIGAN

COMMENTS:

R. A. Wells - CPCO Midland

FROM
G. A. Hierzer - Midland Jobsite

VENDOR PRINT
 OTHER

ORIGINAL

BY *[Signature]*
4-2-84 R. B. [Signature] 4-12-84

FE-AI-J-252

QA-AI-S-01887

CPCO AFR M01-342-2-02F

REFERENCE: Memo dated February 6, 1984 from J. T. Minor to distribution
FIG 2.111 (Q)

In conjunction with our previous response forwarded per T/N 37511, this is considered Construction's complete response to the subject AFR.

Item 1: See NCR C-01902. This NCR was written to document the incorrectly installed concrete expansion anchors. QC will track and verify the rework of the incorrectly installed concrete expansion anchors by tracking the NCR.

Item 2: Concrete expansion anchors are currently being installed only by craftsmen that have been retrained on Tech Specification C305 (Q) in accordance with FIG 2.111 (Q). All retraining was accomplished after the date of the subject AFR. Only these craftsmen whose names are listed on the master certification list of April, 1980 (current update February 6, 1984) are allowed to install concrete expansion. These listed craftsmen are those that have completed the qualification requirements for the installation of concrete expansion anchors outlined in FIG 2.111. The records of qualification are on file in the QC vault.

T/N 54928



Consumers
Power
Company

AFR/URE
RESPONSE EVALUATION

Midland Project
Quality Assurance
Department

RESPONSE NO: #37511 AFR/URE NO: M01-342-2-02F ACTION ITEM NO: S-1887

ACTIONEE R Kramer BPCo QC
C Fugate DEPARTMENT BPCo Const. COMPANY Bechtel

EVALUATION OF RESPONSE:

Based on the referenced Bechtel Transmittal, an indefinite extension is granted for response on this APR.

ADDITIONAL RESPONSE REQUIRED BY N/A
EVALUATED BY P David Everly *JJ Barbieri* DATE 9/19/83

(Distribution - see reverse side - Page 2)

Bechtel Power Corporation
Inter-office Memorandum

To Distribution Date February 6, 1984
Subject Job 7220 Midland Project CERTIFICATION OF HILTI CONCRETE EXPANSION ANCHORS 0-7176 From J. T. Minor
Copies to Of Field Engineering
At Midland, MI

Reference: Master Certification List of April 1980

Attached is a list of currently certified craftsmen (Bechtel and Subcontractors) which is up-to-date as of January 1, 1984. The craftsmen on this list or those certified after January 1, 1984, are to be utilized to install Hilti Concrete Expansion Anchors. Any certifications after this date will be added to the list in early February, 1984.

If you have any questions concerning the certifications, contact D. Miller at extension 7701.


J. T. Minor

JTM/SAH/DM/jkc
012302F1

Written Response Requested: No

Attachments: Master Certification List

DISTRIBUTION:

A. Anderson (site) w/a	R. Johnson (site) w/a
E. Collins (site) w/a	S. Kirker (site) w/a
J. Delarm (site) w/a	G. Langanke (site) w/a
S. Estlack (site) w/a	D. Miller (site) w/a
F. Haluska (site) w/a	B. Palya (site) w/a
R. Hayes (site) w/a	P. Peters (site) w/a
R. Hendricks (site) w/a	J. Steele (site) w/a

ORIGINAL

16 NCR NO.

C-01902 Δ

17 DATE ISSUED

3-23-84

18 REV

Δ

19

PAGE L OF 2

CBM 3/22/84
RFW 3-29-84 M-127

1 ITEM LOCATION

SOUTH WEST WALL OF THE SECONDARY SHIELD WALL AT ELEV 645'-0"

2 ITEM DRAWING/PART NO.

3 ITEM PART NAME TWO 1/2" EXPANSION

4 ITEM SERIAL NO.

FSK-JC-1-0030 (Q) REV 2.1 ANCHORS AT DATA POINT ~~A-29~~ ^{A-29}

N/A

5 ITEM DESCRIPTION TWO 1/2" EXPANSION ANCHORS INSTALLED ON SUPT
TYPE JO-0063 (Q) AT DATA POINT ~~A-29~~ ^{A-29}

6 ITEM STARTUP SYSTEM NO.

IABA

7 REFERENCE DOCUMENT

TECH. SPEC. C-305 REV 17

8 ASME A.N.I. REQUIRED

YES NO

9 INSPECTION RECORD NO.

N/A

LOG NO.

N/A

REV NO.

N/A

10 RESPONSIBLE ORGANIZATION

CONSTRUCTION/FIELD ENGINEERING

11 NONCONFORMANCE DISCOVERED DURING:

- DESIGN RECEIVING CONST RELEASE FOR INSPECT
 POST INSPECT TURNOVER POST TURNOVER PRE-OP TEST FINAL TURNOVER OVERINSPECT

12 REQUIREMENT

TECH. SPEC. C-305 (Q) REV 17 TABLE 4.1 REQUIRES THAT 1/2" EXPANSION ANCHORS BE A MINIMUM OF 3" FROM ~~ANY~~ ABANDONED ANCHOR BOLT HOLES.

13 NONCONFORMANCE

THE TWO 1/2" EXPANSION ANCHORS THAT ARE INSTALLED ON THE SUPT AT DATA POINT A-~~29~~ ARE BOTH INSTALLED 1 3/4" FROM ABANDONED ANCHOR BOLT HOLES.

14 NCR ORIGINATED BY (PERSON)

NICHOLAS JASPER 3-23-84

RFW 3/23/84 M-127 DATE

15 NCR ORIGINATED BY (DISCIPLINE)

INSTRUMENTATION

20 NUMBER OF HOLD TAGS (IF APPLIED)

1

21 LOCATION OF HOLD TAGS

SEE BLOCK #5

22 POTENTIAL 50.55(a)

YES NO

24 ACTION ITEM NO.

S05543

26 ITEM PRIORITY CODE NO.

3

28 NCR REVIEWED BY

RFW [Signature] M95

23 REPORTED TO MPQA MANAGER

DATE N/A

25 DISCIPLINE:

I

27 TREND CODE

HH-4-0001

DATE:

3/27/84 3/29/84

29 CAUSE

30 PROCESS CORRECTIVE ACTION

YES NO QAR NO. _____

31 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

32 CONDITIONAL RELEASE

YES NO

31A ADDITIONAL INFORMATION

33 DISTRIBUTION FOR ACTION

34 DISPOSITION CONCURRENCE

PROJECT FIELD ENGINEER DATE

NPQAD CONCURRENCE DATE

PFQCE (ASME) DATE

PQAE (ASME) DATE

LEAD DESIGN ORG DATE

CP Co SMO (for turned over systems) DATE

A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE
SUPERCEDING NCR NUMBER _____

37 NCR CLOSED BY

NPQAD DATE

A.N.I. (ASME) DATE



Consumers
Power
Company

QA-50-2 TREND: E5 SUS: 1ABA PRIORITY: 06 AI: S-1889

AUDIT FINDING REPORT

PROJECTS, ENGINEERING AND CONSTRUCTION -
QUALITY ASSURANCE DEPARTMENT

APR 21 1984

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

FIG 1.111 Rev 4 par 2 states in part; "Concrete Drill Permits will not be required for the following"

2.1 "1/4" to 1/2" expansion anchors (max hole depth 2 1/2") in structural walls.

- 1) Contrary to the above the two lower anchor bolts supporting the instrument stand for 1PT-3100B (FSK-JC1-0038Q) have embedded lengths of 2 3/4" and 2 11/16" respectively, with no concrete drill permits being used.

AFR SER NO: C.P. Co. Log #
M01-342-2-04F

PROJ/DEPT AUDITED:
BPCo Const/QC

DATE OF ISSUANCE:
12/17/82

FILE NUMBER:
~~16.0~~ 18.4 CLOSE

DISTRIBUTION:

WRBird	WASullivan
JEBrunner	DATaggart
JWCook	MJSchaeffer
MLCurland	RAWells
LEDavis	JLWood
MADietrich	ALAB-2
CRFugate	RKramer
GSKeeley	
BWMarguglio	
DBMiller	SEE
JAMooney	ATTACHED
JARitgers	DISTRIBUTION
ESmith	
TKSubramanian	

RECOMMENDED CORRECTIVE ACTION:

- 1) Rework item (1) in accordance with C-305. (LEDavis)
- 2) QC to inspect hole for cut rebar. (ESmith)
- 3) Retrain the appropriate craft personnel on requirements of FIG 2.111(Q). (LEDavis)

CORRECTIVE ACTION COMMITMENT:

Reference BPCo Transmittal #48881

DATE OF C/A COMPLETION: 4/17/84

DATE OF C/A EFFECTIVENESS: 4/17/84

ORG. RESP FOR C/A:
Bechtel QC
Bechtel Construction

PERSON MAKING C/A COMMITMENT:
R Kramer
C Fugate

METHOD OF VERIFICATION:

Reviewed NCR C-02084 and Master Certification List, verified satisfactory for closing this AFR.

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

APPROVED BY/DATE:

AFR REPORTER SIGNATURE/DATE:
WASullivan 12/17/82
WASullivan

M. J. Schaeffer 12/23/82

C/A VERIFICATION SIGNATURE:
P D Everly *P D Everly*

VERIFICATION DATE:
4/19/84



Commonwealth
Power
Company

AU T FINDING REPORT

MIDLAND PROJECT
QUALITY ASSURANCE

AREA: CPCo AM DISCIP: N TREND: IS PRIORITY: 2

S/U: PGM00

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

Procedure B-2M, Rev 4, Section 5.4.2 and Section 5.4.2.1 requires MPQA shall:

"Identify the persons who are performing QA related activities."

Contrary to the above, no objective evidence was available which identified persons performing QA related activities by department or position.

Review of attendance lists for programmatic training indicates that many personnel in key positions, e.g., Section Heads, Supervisors, Lead Inspectors, etc have not attended programmatic training but some less broadly oriented personnel have attended.

APR SER NO:	
MSA-83-25-11F	
PROJ/DEPT ASSIGNED:	
MPOAD - Training	
DATE OF ISSUANCE:	
10/14/83	
FILE NUMBER:	
16.0	18.4 CLOSED
AGENCY ITEM NO:	
S03583	
DISTRIBUTION:	
JABauer	HPLeonard
AEBice	BWMarguglio
WRBird	JKMeisenheimer
JEBrunner	DBMiller
FWBuckman	JAMooney
RBCameron	GEParker
JWCook	RCSember
MADietrich	TKSubramanian
GFEwert	ATaggart
bTFoote	RAWells
KJFriedrich	JLWood
MHanbury	ALAB-2
LJesmore	DEBeaudoin
DJones	KAMcDonald
JPKnight	ALPucci
SEE ATTACH. DISTRIB.	

RECEIVED

APR 21 1984

C. P. Co. Legal

RECOMMENDED CORRECTIVE ACTION:

- 1) Identify personnel performing QA related activities.
- 2) Reevaluate scope of programmatic training programs.
- 3) Establish requirements for programmatic training by classification.
- 4) Select and train personnel to programmatic training program.

CORRECTIVE ACTION COMMITMENT: Response due by 10/28/83.

DATE OF C/A COMPLETION: 4/19/84

DATE OF C/A EFFECTIVENESS: 4/19/84

ORG. RESP FOR C/A:

Manager, Training

PERSON MAKING C/A COMMITMENT:

DEBeaudoin

METHOD OF VERIFICATION:

Deviation No. 3-84 to Volume II 2-4 added a new para 4.1.3 which specifies that MPQAD Quality Services Div. shall identify individuals within MPQAD who are designated to attend Programmatic QA training and a note which states that MPQAD personnel shall attend QA Prog. training when knowledge from this training is required to fill the position. (continued)

IS AF REPORTABLE PER 50.55(e):

YES NO

IF "YES", DATE OF REPORT TO IRC:

N/A

IF "YES", TIME OF REPORT TO IRC:

N/A

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

N/A

IF "YES", WHO MADE REPORT:

N/A

IRI INSPECTOR'S SIGNATURE/DATE:

K A McDonald

10-14-83

ACL SIGNATURE/DATE:

VERIFICATION DATE:

4/19/84

C/A VERIFICATION SIGNATURE:

K A McDonald

4/19/84

F-14-6A (REV. 2)



Consumers
Power
Company

AUDIT FINDING REPORT

CONTINUATION SHEET MSA-83-25-11F

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT
Page 2 of 2

"AS IS CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED):

RECOMMENDED CORRECTIVE ACTION (CONTINUED):

CORRECTIVE ACTION (CONTINUED):

METHOD OF VERIFICATION (continued):

Training Plan dated 4/6/84 includes these requirements for QA Programmatic.



AUDIT FINDING REPORT

MIDLAND PROJECT
QUALITY ASSURANCE

AREA: MBOP-QA DISCIP: M TREND: I-9 PRIORITY: 2

S/U: PGM00

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

AFR SER NO:
MSA-83-33-08F Rev 1

PROJ/DEPT ASSIGNED: MPQAD-
PQCI Planning System

DATE OF ISSUANCE:
11/11/83- 11/14/83

FILE NUMBER:
16.0 18.4 CLOSED

ACTION ITEM NO:
S09323 S03923

DISTRIBUTION

S Barenow	DHQuamme
JABauer	RCSember
AEBice	RAWells
WRBird/JPKnight	ALAB-2
JEBrunner	DDCoppeler
RBCameron	DPreslar
JWCook	LJBarbieri
GFEwert	
BTFoote	
WJFriedrich	
HPLeonard	SEE
BWMarguglio/DJones	ATTACHED
JKMeisenheimer	DISTRIBUTION
JAMooney	
GEParker	

PQCI, PI 2.40(2), Act. No. 3.1 states:

"Inspect the fabricated support to verify that the proper material is used and is identified as Q material."

J 401-4, Rev 5, Sht 2, Note 14 requires A-36 material and use of Spec G-33.

ASTM-A36, Para. 4.1 states:

"Material furnished under this specification shall conform to the applicable requirements of the current edition of Spec. A6."

Spec 7220-G-33(Q)16, Para 3.6, states:

"I.D. shall be maintained by heat, lot, batch or serial number."

(continued)

RECOMMENDED CORRECTIVE ACTION:

- 1) Review all applicable IRs and associated hardware to PQCI 2.40(2) that material traceability has been maintained as required.
- 2) Generate NCRs as applicable.
- 3) Review all I&C PQCIs for similar conditions.
- 4) Revise PQCI to meet identification requirements.
- 5) Provide documentation to MPQAD Site Audit Branch.

RECEIVED

APR 21 1984

C. P. Co. Legal

CORRECTIVE ACTION COMMENT:

Response due by 11/25/83.

REVISION NO: 1

DISCARD PREVIOUS ISSUE

Reference letter Serial #29466

DATE OF C/A COMPLETION: 4/17/84

DATE OF C/A EFFECTIVENESS: 4/17/84

ORG. RESP FOR C/A:
MPQAD-PAD

PERSON MAKING C/A COMMENT:
Dale Preslar

METHOD OF VERIFICATION:

Based on additional data furnished via letter Serial #29466/DSP-84-052, Preslar to Coppeler, this AFR is considered closed. Copies of letter and reference data are attached.

IS AF REPORTABLE PER 50.55(e):
YES NO

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

IF "YES", TIME OF REPORT TO IRC:
N/A

IF "YES", NAME OF IRC OFFICIAL TO WHOM REPORTED:
N/A

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

AFR ORIGINATOR'S SIGNATURE/DATE:
D D Coppeler 11/15/83

AFR SIGNATURE/DATE:
W.A. Hedzik 11/11/83

I.A. VERIFICATION SIGNATURE:
W A Hedzik 4/19/84

VERIFICATION DATE:
4/19/84



AUDIT FINDING REPORT

CONTINUATION SHEET MSA-83-33-08F

MIDLAND PROJECT
QUALITY ASSURANCE

Page 2 of 2

AS IS CONDITION VERSUS "AS REQUIRED" CONDITION WITH REFERENCES (CONTINUED):

ASTM-A-6, Para 12.1 states in part:

"Plates - each plate shall be steel die-stamped, marked or stenciled..."

ASTM-A-6, Para 12.2 states in part:

"Shapes - shapes shall be marked with heat number, size of section, length and mill identification marks on each piece..."

Contrary to the above, PQCI PI 240(2), Action No. 3.1, does not provide assurance that material is identified as required by the material specification or code.

LJB
WAH
ALP



Consumers
Power
Company

Midland Project: PO Box 1963, Midland, MI 48640 • (517) 531-8650

March 22, 1984

DD Coppeler
Consumers Power Co
PO Box 1963
Midland, MI 48640

CONSUMERS POWER COMPANY
RECEIVED
MAR 26 A.M.
SITE AUDIT
MIDLAND, MICHIGAN

MIDLAND ENERGY CENTER PROJECT -
RESPONSE TO AUDIT FINDING NO. MSA-83-33-08F
FILE 16.0 SERIAL 29466 DSP-84-052

PQCI PI-2.40 Revision 5, Change Notice number CN-PI-2.40-5-3 incorporates
Field Procedure FIG-1.620 for accept/reject criteria for identification of
"Q" material.

Based on the above, no further action is required.

Dale S. Preslar
D S Preslar, Section Head
Welding/Electrical/Purchasing
Midland Project QA Department

DSP/111

cc See Page 2 for Distribution

CONSUMERS POWER COMPANY
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MAR 26 1984
FIELD QUALITY ASSURANCE
MIDLAND, MICHIGAN

RECEIVED
16 C

DISTRIBUTION FOR SERIAL 29466

JABauer, MPQAD
JEBrunner, M-1079
JWCook, P-26-336B
GREagle, AAO TASK
LRJessmore, MPQAD
JEKarr, (Stone & Webster)
BWMarguglio/DJones, JSC-220A
RCSember, MPQAD
ALAB(2)
RAWells, MPQAD

IMPORTANT

PQCI PI-2.40 REV 5

PQCI CHANGE NOTICE NUMBER CN-PI-2.40-5-3

THIS PQCI CHANGE NOTICE BECOMES EFFECTIVE ON 2/23/84

IT MAY BE USED FOR TRAINING OF OTHER IMPLEMENTATION PREPARATION
ACTIVITIES PRIOR TO THE EFFECTIVE DATE.

ADD THIS CHANGE NOTICE TO THE PQCI REVISION STATED ABOVE.



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PQCI CHANGE NOTICE

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

EFFECTIVITY DATE 2-23-84

CN # CN-PI-2.40-5-13

PQCI PI-2.40 REVISION 5

TITLE OFF-SITE FABRICATION/WELDING OF PIPING RELATED INSTRUMENTATION SUPPORTS

PREPARER RAHinojosa

DATE 2/10/84

AS IS: (Page No. Block No. Block Title. or Activity No)

Describe in exact words the current content

- Attachment #1, Page 1 of 1 and Attachment #2, Page 1 of 4
As published
- Page 16, Act. ~~3.1~~, Block 5, Inspection Criteria Dwg(s)

3.1 RIT 3/2/84 RFW 2-22-84

CHANGE TO READ: (Page No. Block No. Block Title. or Activity No)

Describe in exact words the new content

- Attachment #1, Page 1 of 1 and Attachment #2, Page 1 of 4
Insert revised Attachment #1 and #2
- Page 16, Act. 3.1, Block 5, Inspection Criteria Dwg(s) J401-4, J401-5, Field Procedure FIG-9.600 Field Procedure FIG-1.620

REASON FOR CHANGE/PERIOD OF EFFECTIVITY:

Clarify Activity 3.1

This Change Notice will be incorporated in the next revision of the PQCI.

Reference Only

APPROVAL

RFW/PQCE

APAES/AQAES

PQAE (ASME ONLY)

ANI (ASME ONLY)

SQASH

DATE

		<u>2/22/84</u>
<u>G. Corcoran</u>		<u>2/22/84</u>
<u>DMR</u>		<u>2/22/84</u>
<u>N/A</u>		<u>N/A</u>

MATERIAL REQUIREMENTS

MATERIAL	ASTM	ASME	NOTES
Base Plates & Structural Shapes	A36	SA515 GR 65, or GR 70 or SA36	
Structural Tubing	A500 GR B or A36	N/A	
Unistrut Framing	A570 GR C	N/A	Galvanized Coating
Unistrut Cap Screws: 3/8" & 1/2" Dia	A307 GR.A	N/A N/A	See Note 2
Pipe	A53 GR B or A106 GR B	SA 106 GR B	
Tubetrack Angle	A569		Hot Dipped or Equal
3/8" Dia Bolt	A307 GR A GR B A449, A354		See Note 1 and 2
3/8" Dia Nut	A307 GR A, GR B A449, A354 A563, A194 GR 2H		See Note 1 and 2
1/2" Dia Bolt	A325F, A307 GR A GR B, A449, A354, A325, A490		See Note 1 and 2
1/2" Hex Nut	A325F, A307 GR A, GR B, A449, A354, A563, A325, A194 GR2H, A490		See Note 1 and 2

NOTES:

1. Materials accepted by ASME (designated with a 'S' preceeding the ASTM designation; example: SA325 for A325) are also allowed.
2. These bolting materials shall be either electro-galvanized or cadmium plated in accordance with ASTM Specifications A164 and A165 respectively.

Standard Methods of Marking and Identifying "Q" Support Material

A. As a minimum all materials are to be controlled in a manner to verify that the material has been received as "Q" material. The following are acceptable marking methods of complying with this requirement, except that A-36 Plate Steel and A-500 Tube Steel require no marking.

1. Heat number or heat code from heat log.
2. Two-letter heat code from Standish Fab Shop.
3. Unistrut shall be marked with the word Unistrut or "Q" stamp or P1000 or P1001.
4. Material type and grade (eg A-516, Grade 55).
5. A broken line "Q" stamp shall be used for the marking of "Q" Listed ASME support structural shapes and shall be placed on an accessible surface.

NOTE: Yellow paint on any material used for Q supports is unacceptable and shall be processed in accordance with Procedures AAPD/PSP G-3.2/MPQAD F-2M.

B. Bolting Material Identification and Control [FIG-9.600]

The following guidelines apply to storage, control and identification of bolting material. Items which can be identified either by unique marking, size or other special characteristics are not included.

1. Received "Non-Q" bolting material shall be stored separately from Q-list bolting material and will be identified as follows:
2. Heads of all bolts will be marked with red paint.
3. All nuts will be marked with red paint.
4. One end of studs will be marked with red paint.

NOTE: Materials accepted by ASME (designated with an "S" preceding the ASTM designation, example: SA325 for A325) are also allowed.



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AUDIT FINDING REPORT

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

AREA: MBOP-T DISCIP: T TREND: T-5 PRIORITY: 5 S/U: PGM00

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

MP-TPM-16-1, Rev 4, TCN #5, Enclosure B, Instructions Block 11 states in part:

"...safety related CARs (those marked Q-List in Block 7) are now sent to the QA Organization for review."

Contrary to the above, the following discrepancy was noted:

BBC-114 CAR marked Non-"Q" but should be "Q", therefore, CAR did not receive review by MPQAD

Sample size: 25 CARs

APR SER NO:

MSA-84-3-10F

PROJ/DEPT AUDITED:

CP Co Test Dept.

DATE OF ISSUANCE:

2/29/84

FILE NUMBER:

16.0 18.4 CLOSED

ACTION ITEM NO:

S04772

DISTRIBUTION:

SEE
ATTACHED
DISTRIBUTION

RECEIVED

APR 21 1984

C. P. Co. Legal

RECOMMENDED CORRECTIVE ACTION:

1. Send all CARs found "Q" to MPQAD for review.
2. Provide documented evidence to MPQAD Audit Branch.

CORRECTIVE ACTION COMMITMENT: Response due by 3/14/84

CP Co addresses subject finding in response REM 114-84

DATE OF C/A COMPLETION: 4/19/84

ORG. RESP FOR C/A:

CP Co Test

PERSON MAKING C/A COMMITMENT:

C T Follin

DATE OF C/A EFFECTIVENESS: 4/19/84

METHOD OF VERIFICATION:

Based on review of response REM 114-84 and conversations with Chuck Gaines (4/18/84) on MPQAD review of CARs, this finding is considered closed.

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

AFN ORIGINATOR'S SIGNATURE/DATE:

A. J. Nicholas 2-29-84
JANicholas/KAMcDonald *K. McDonald* 2-29-84

ATL SIGNATURE/DATE:

A Notarmuzi *A. Notarmuzi* 2-29-84

C/A VERIFICATION SIGNATURE:

KAMcDonald/ANotarmuzi *K. McDonald* 4-19-84

VERIFICATION DATE:

4/19/84

F-1M-4A (REV. 0)



**Consumers
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Company**

MIDLAND PROJECT
QUALITY ASSURANCE DEPARTMENT
QUALITY ACTION REQUEST

6. QAR Number
RD-00033

7. Date Issued
4/19/84

8. Revision
0

9. Page 1 of 1 RECEIVED

1. Requirement

EDP 4.31, Rev. 1, para. 4.7 states: "Requisitions, specifications, and addenda that relate to Q-listed items shall be identified with the letter (Q)..."

PEP 4.49.0 Rev. 0, para. 3.5 states in part: "... Midland Project Quality Assurance Department (MPQAD) shall review Q-listed specifications for quality program requirements.... The project quality assurance engineer (PQAE) shall review and initial ASME III-related specifications."

10. ASME Related

Yes No

APR 21 1984

C. P. Co. Legal

2. Deficiency

Specification 7220-M-PD-13 Rev. 0 does not have the required (Q) designator. This specification has not been reviewed and signed-off by MPQAD or the PQAE.

11. Potential 50.55(e)

Yes No

3. QAR Originated by
S.S. Mehta

4. Discipline/Division/Section
MPQAD/DQAE

5. Response Due Date
5/18/84

12. Date Reported to MPQA Mgr
N/A

13. Action Item No.
A0173

15. Item Priority
5

17. S/U Code
PGM-00

19. Action Organization
Project Engineering
Plant Design

20. QAR Reviewed by
SS Mehta

14. Discipline
P

16. Trend Code
ZF-9-0001

18. Resb Code
BPE

21. Date
4/19/84

22. Cause

23. Proposed Corrective Action

24. Responsible Organization/Person

25. Proposed Completion Date

26. Disposition Concurrence

QAR Reviewer

Date

PQAE (ASME Only)

Date

27. Disposition Action Taken

28. Method of Disposition Verification

29. QAR Closed by

MPQAD

Date

PQAE (ASME Only)

Date

Acceptable

Unacceptable

Superseding QAR



Consumers
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AUDIT FINDING REPORT

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

P:06 SUS: P6M00 TR: DNT

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

PEP 4.47.2 Rev 3, Section 4.7.1 Paragraph four (4) states in part: "When a ... drawing is revised to incorporate DCNs, all approved design change documents awaiting incorporation shall be included in the revision"

Contrary to the above, drawing E-47(Q) Rev 9 (dated 1/23/84) was issued without incorporating DCN 9 (dated 12/28/83) issued against E-47(Q) Rev 8.

The cause of this problem appears to be that:

A DCN number is assigned to resident engineering.

This DCN may or may not be issued. At the time of drawing revision, the only DCNs incorporated are those that appear on the PDCC register. DCN number was issued but was not entered on the PDCC register.

AFR SER NO:
DQA-84-03-01F

PROJ/DEPT AUDITED: Bechtel
Engrg. (Electrical)

DATE OF ISSUANCE:
March 9, 1984

FILE NUMBER:
D2.4.1

ACTION ITEM NO:

A 0147 RECEIVED

DISTRIBUTION:

APR 21 1984

See Cover Sheet C.P.Co. Legal

CLOSED

RECOMMENDED CORRECTIVE ACTION:

Investigative: Review DCN discipline logs for unincorporated DCN. Verify that these DCNs have been issued and determine when they should be incorporated.

Remedial: Incorporate DCN when required. Any logged DCN should be issued or handled in another appropriate method. All outstanding DCNs should be listed on PDCC register.

CATPR: A procedure change and training should be established to assure that all outstanding, DCNs are incorporated into the next revision.

CORRECTIVE ACTION COMMITMENT:

Within 30 days of issuance of AFR.

SEE ATTACHED FOR PROJECT ENGINEERING'S COMPLETE RESPONSE

DATE OF C/A COMPLETION:

ORG. RESP FOR C/A:

PERSON MAKING C/A COMMITMENT:

DATE OF C/A EFFECTIVENESS:

Electrical Group

John Kovach

METHOD OF VERIFICATION:

DCN LOGS WERE RE-REVIEWED FOR STATUS OF INCORPORATION WITH NO PROBLEMS FOUND. THE DEFICIENT DCN'S ABOVE WERE VERIFIED AS INCORPORATED. THE TRAINING MEMO (WITH RESPONSIBLE ENGINEER'S INITIALS) WAS REVIEWED. LIKEWISE, THE SEPARATION OF DCN LOGS WAS VERIFIED.

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

N/A

AFR ORIGINATOR'S SIGNATURE/DATE:

F.H. Lentz 3/9/84

F.H. Lentz

ATL SIGNATURE/DATE:

D.K. Savo / F.H. Lentz

C/A VERIFICATION SIGNATURE:

F.H. Lentz 4-20-84

VERIFICATION DATE:

4-20-84

148098

Attachment to AFR DQA-84-03-01F

This is project engineering's complete response to the subject AFR.

Investigative:

Discipline DCN logs have been reviewed for DCNs that have been issued, but not yet incorporated. There is no other DCN that has been issued, but missed during drawing revision.

Remedial:

Outstanding DCNs will be incorporated when required. Our review has indicated that all logged DCNs have either been issued or are being tracked. Listing outstanding DCNs on PDCC register is not engineering's responsibility.

CATPR:

In order to avoid recurrence of the problem, the responsible personnel have been instructed to review the DCN logs before revising any drawing.

In addition, DCN logs have been separated into the different groups - systems, schemes, panel mods, layout - and are being controlled in the separate groups. This provides better control of the DCN logs.

J. M. Edome 4/13/84
E.B. Poser
Project Engineering Manager

RGB
EBP/RGB/h1
041005

cc: W. Bird

bcc: M.A. Dietrich
B.T. Foote
R.C. Hollar
duj J.G. Kovach

CLOSED

Written Response Requested: No

Com Use: *Close 145103 for OIF*
TRG 4-16-84



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AUDIT FINDING REPORT

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

P: 06 SUS: P6400 TR: DAJT

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

MED 4.37-0 Rev 20 ¶7.6.Q states in part: "All committed preliminary and final calculations performed or revised shall be microfilmed within 90 days (max) following the approval of the calculation."

Contrary to the above, QPE-4(Q) Rev 4 approved 9/26/83 is not yet microfilmed.

AFR REP NO:

DQA-84-03-02F

PROJ/DEPT AUDITED: Bechtel
Electrical Group

DATE OF ISSUANCE:
March 9, 1984

FILE NUMBER:
D2.4.1

ACTION ITEM NO:
A 0148

DISTRIBUTION:

See Cover Sheet

CLOSED

RECOMMENDED CORRECTIVE ACTION:

Remedial: Microfilm the above calculation.

Investigate: Verify that all approved calculations that have not yet been microfilmed are not overdue. Microfilm any overdue calculations as soon as possible.

CATPR: Determine the cause of this noncompliance and provide corrective action to prevent recurrence.

CORRECTIVE ACTION COMMITMENT:

Within 30 days of issuance of AFR.

SEE ATTACHED FOR PROJECT ENGINEERING'S COMPLETE RESPONSE.

DATE OF C/A COMPLETION:

DATE OF C/A EFFECTIVENESS:

ORG. RESP FOR C/A:

Electrical Group

PERSON MAKING C/A COMMITMENT:

J. Kovach

METHOD OF VERIFICATION:

QPE-4(Q), REV 4 WAS VERIFIED AS BEING MICROFILMED. THE LOG TO TRACK UNMICROFILMED CALCULATIONS WAS REVIEWED.

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/DATE:

D.K. Sabo
D.K. Sabo 3/9/84

ATL SIGNATURE/DATE:

D.K. Sabo

C/A VERIFICATION SIGNATURE:

F.H. Hunt
F.H. Hunt 4-20-84

VERIFICATION DATE:

4-20-84

148097

Attachment to AFR-DQA-84-03-02F

This is project engineering's complete response to the referenced AFR:

Remedial: QPE-4(Q), Rev 4, was microfilmed on March 15, 1984.

Investigative: All approved calculations that have been approved and not yet microfilmed were reviewed. No other calculation is overdue for microfilming.

CATPR: Since the case of QPE-4(Q), Rev 4, was an isolated incident, we determined the cause to be an inadvertent omission.

To prevent recurrence, a log has been set up to track approved, unmicrofilmed calculations.

E. B. Poser 4/13/84
E.B. Poser
Project Engineering Manager

RCB
EBF/RCB/hl
041004

cc: W. Bird

bcc: M.A. Dietrich
B.T. Foote
R.C. Hollar
df J.G. Kovach

CLOSED

Written Response Requested: No

Com Use: *Close 145103 for 02F*
YngA 4-16-84



**Consumers
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Company**

ORIGINAL

MIDLAND PROJECT
QUALITY ASSURANCE DEPARTMENT

QUALITY ACTION REQUEST

6. QAR Number RA-00150	
7. Date issued 4/23/84	8. Revision 1
9. Page 1 of 1	

1. Requirement The Construction Completion Program (CCP) (Revision 2, August 26, 1983) Section 1.0 states in part: "The other major component of the Construction Completion Program is the Quality Verification Program which verifies closed inspection records based on a 100% reinspection of accessible attributes...for previously completed work.
The Quality Verification Program, Section 1.0 states in part: "To confirm through a verification program under the direction of Consumers Power Company, the acceptable quality status of safety related procurement and construction activities completed and inspected by the Engineer-Constructor quality control personnel prior to December 2, 1982.

2. Deficiency Contrary to the above requirement, Bechtel Field Procedure, FPG-7.300 Rev. 4 allows the removal of Q Items, that have been previously accepted prior to December 2, 1982, without subjecting them to the requirements of the Quality Verification Program.

RECEIVED
APR 25 1984

C. P. Co. Legal

11. Potential 50.55(e) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
---	--

3. QAR Originated by JP Clark	4. Discipline/Division/Section PAP/VPMS	5. Response Due Date 4/6/84	12. Date Reported to MPQA Mgr N/A
----------------------------------	--	--------------------------------	--------------------------------------

13. Action Item No. S05532	15. Item Priority 1	17. S/U Code PGMOO	19. Action Organization BPG FE MPQAD-PAP	20. QAR Reviewed by B. FAWCER
-------------------------------	------------------------	-----------------------	---	----------------------------------

14. Discipline X	16. Trend Code ZQ-8	18. Resb Code BCPCO	21. Date 3/23/84
---------------------	------------------------	------------------------	---------------------

22. Cause

23. Proposed Corrective Action
No Action Required - ALL work performed under Field Procedure FPG-7.300 is by CWP which is APPROVED by CCo SMO AS meeting CCP's Requirements.
J.E. Russell 4/9/84

24. Responsible Organization/Person Construction Staff / J.E. RUSSELL	25. Proposed Completion Date N/A
--	-------------------------------------

26. Disposition Concurrence	QAR Reviewer _____ Date _____	MPQA (ASME Only) _____ Date _____
-----------------------------	-------------------------------	-----------------------------------

27. Disposition Action Taken

28. Method of Disposition Verification <input type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable <input type="checkbox"/> Superceding QAR	29. QAR Closed by MPQAD _____ Date _____ PFQCE (ASME Only) _____ Date _____
--	---



**Consumers
Power
Company**

MIDLAND PROJECT
QUALITY ASSURANCE DEPARTMENT

QUALITY ACTION REQUEST

ORIGINAL

6. QAR Number RA-00171-V	
7. Date Issued 04-05-84	8. Revision 0
9. Page <u>1</u> of <u>1</u>	
10. ASME Related <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

1. Requirement

PSP G-6.1, paragraph 5.2 directs the QCE to follow the instructions in Figure 6.1-3 when filling out blocks 1 through 8 of the Inspection Record. These instructions are provided as a guide, however, they very clearly give the type of information required for each block of the IR. For block #6 the instruction states: "Enter a well-defined description of the scope and location of the item(s) or work activities covered by the Inspection Record, including system, area, and building elevation, as applicable. For additional activities or items unique to a PQCI, number them 6A, 6B, etc, and provide scope/location description. Use additional pages if necessary.

APR 25 1984

2. Deficiency

Contrary to the above, the following QC Inspection Records do not contain a well-defined location as required by the instructions for block #6 of the Inspection Record.

LOG NUMBER	PQCI	LOG NUMBER	PQCI
V1151	V-2M01111-1	V1800	V-2BQ511A-3
V1149	V-2A855190-3	V1546	V-2AS201A-1
V1547	V-2AS2840-2	V1864	V-2BQ512B-3

11. Potential 50.55(e)

Yes No

3. QAR Originated by DANott <i>DANott</i>	4. Discipline/Division/Section Inspection Evaluation	5. Response Due Date April 18, 1984	12. Date Reported to MPQA Mgr N/A
--	---	--	--------------------------------------

13. Action Item No. S06197	15. Item Priority 4	17. S/U Code PGMOO	19. Action Organization MPQAD/QC	20. QAR Reviewed by <i>R. A. Banyski</i>
14. Discipline E	16. Trend Code ZE-50006	18. Resb Code BOPQC	21. Date 4-5-84	

22. Cause
This is not a QAR condition. The subject IR's do contain a well defined location. They contain the area, S U System, and equipment. Elevation is the only other option for location and is not available during the scoping of termination. For terminations QC considers the equipment number, area & system as a well defined location.

23. Proposed Corrective Action
None Required.

24. Responsible Organization/Person MPQAD-QC <i>Danny Cochran</i>	25. Proposed Completion Date 4/17/84
--	---

26. Disposition Concurrence <i>R.A. Banyski</i> 4-23-84 QAR Reviewer Date	_____ PQAE (ASME Only) Date
---	--------------------------------

27. Disposition Action Taken

N/A

28. Method of Disposition Verification

N/A

Acceptable Unacceptable Superceding QAR

29. QAR Closed by
R.A. Banyski 4-23-84
MPQAD Date

N/A
PFGCE (ASME Only) Date



**Consumers
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Company**

ORIGINAL

MIDLAND PROJECT
QUALITY ASSURANCE DEPARTMENT

QUALITY ACTION REQUEST

6. QAR Number RA-00186	
7. Date Issued 4/12/84	8. Revision 0
9. Page <u>1</u> of <u>1</u>	
10. ASME Related <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

1. Requirement

Procedure M-15 Paragraph 5.1.3 states in part:
The Inspection Evaluation Section Head shall assign an individual to perform the reinspections specified in the Sample Recheck Request/Report Form. The assigned individual shall be certified to the PQCI that was used for the first level inspection.

RECEIVED

APR 25 1984

C. P. Co Legal

2. Deficiency

Contrary to the above, Sample Recheck Request/Report numbers MS-0041 and MS-0054 for PQCI P-2.30 Rev. 5 were implemented by GChockman prior to completion of the P-2.30 certification process.

11. Potential 50.55(e) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
12. Date Reported to MPQA Mgr N/A	20. QAR Reviewed by <i>J. L. Howell</i>
13. Action Item No. S06536	21. Date 4-13-84

3. QAR Originated by MWMerritt <i>Merritt</i>	4. Discipline/Division/Section Mech/PA/IE	5. Response Due Date 4/27/84
13. Action Item No. S06536	15. Item Priority 5	17. S/U Code N/A
14. Discipline M	16. Trend Code ZB-60002	18. Resb Code N/A
19. Action Organization MPQAD PA/IE		

22. Cause
Certification Records lost during transit to Q&C Records.

23. Proposed Corrective Action
Re-perform Sample Recheck Numbers MS-0041 and MS-0054 utilizing properly certified personnel. Verify that all personnel are properly certified prior to implementation of future Sample Recheck Requests.

24. Responsible Organization/Person
PA/IE - MWMerritt

25. Proposed Completion Date
04-27-84

26. Disposition Concurrence
J. L. Howell 4-16-84
QAR Reviewer Date

N/A
PQAE (ASME Only) Date

27. Disposition Action Taken
Sample Recheck Requests #MS-0098 and #MS-0099 were performed by properly certified IE personnel, superceding those inspections performed by the above listed QAE on Recheck Requests #MS-0041 and #MS-0054.

28. Method of Disposition Verification
Review of Sample Recheck Requests #MS-0098 and #MS-0099

Acceptable Unacceptable Superceding QAR

29. QAR Closed by
J. L. Howell 4-23-84
MPQAD Date
N/A
PFQCE (ASME Only) Date



**Consumers
Power
Company**

ORIGINAL

MIDLAND PROJECT
QUALITY ASSURANCE DEPARTMENT

QUALITY ACTION REQUEST

6. QAR Number RA-00201-HV	
7. Date Issued 4/23/84	8. Revision 0
9. Page <u>1</u> of <u>1</u>	

1. Requirement

PQCI P-2.30 Rev. 5 paragraph 3.4 delineates inspection attributes and acceptance criteria for ASME NF welds on pipe supports. Sketch 2-607-7-7 shows all welds on the support as ASME NF.

10. ASME Related <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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2. Deficiency

Contrary to the above, an indeterminate number of ASME NF welds were inspected on IR P-2.30-2-604-7-7a Log #252893 to AWS D1.1 criteria.

11. Potential 50 55(e) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

3. QAR Originated by LDRobinson <i>LR</i>	4. Discipline/Division/Section Mech/PAD/IE	5. Response Due Date 5/23/84	12. Date Reported to MPQA Mgr N/A
13. Action Item No. S06891	15. Item Priority 5	17. S/U Code 2BGC	20. QAR Reviewed by MWMerritt <i>Merritt</i>
14. Discipline M	16. Trend Code ZP-50003	18. Resb Code BOPQC	21. Date 4-23-84

22. Cause	23. Proposed Corrective Action

24. Responsible Organization, Person	25. Proposed Completion Date

26. Disposition Concurrence								
<table border="0"> <tr> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>QAR Reviewer</td> <td>Date</td> <td>PQAE (ASME Only)</td> <td>Date</td> </tr> </table>	_____	_____	_____	_____	QAR Reviewer	Date	PQAE (ASME Only)	Date
_____	_____	_____	_____					
QAR Reviewer	Date	PQAE (ASME Only)	Date					

27. Disposition Action Taken

28. Method of Disposition Verification	29. QAR Closed by
<input type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable <input type="checkbox"/> Superceding QAR	MPQAD _____ Date _____
	PQCE (ASME Only) _____ Date _____



ORIGINAL
MIDLAND PROJECT
QUALITY ASSURANCE DEPARTMENT
QUALITY ACTION REQUEST

6. QAR Number RS-00186	
7. Date Issued 4/19/84	8. Revision 0
9. Page <u>1</u> of <u>1</u>	
10. ASME Related <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

1. Requirement PEP 4.62.1, Section 4.2.3 a states "FCRs affecting Q designated specifications and all soils work shall be routed to the Midland Project Quality Assurance Department (MPQAD) for review and concurrence."

FPD-2.000, Flow Diagram MFD-D2.2 requires review and concurrence of FCRs by MPQAD and also requires review and concurrence by MPQAD for review changes.

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2. Deficiency 1) Contrary to the requirements of PEP 4.62.1 and FPD-2.000, MPQAD was not inter-facred for review and concurrence of FCR C7904 nor for review changes made thereto.
 2) Change #2 of FCR C7904 expands the scope of Spec. C-405 to include conveying and placing any lean fly ash grout specified in Spec. C-230 for replacement of excavated soil.
 Contrary to this change the design drawings for soils related activities refer to Spec. 7220/C-231(Q) for placement of L-F grouts other than L-F2.

11. Potential 50.56(e) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
12. Date Reported to MPQA Mgr N/A
20. QAR Reviewed by <i>Joseph P. Polych</i>
21. Date 4-19-84

3. QAR Originated by <i>Alan Birch</i>	4. Discipline/Division/Section MPQAD - Soils Yard	5. Response Due Date 4/27/84
13. Action Item No. U-00738	15. Item Priority 2	17. S/U Code PGMOR
14. Discipline F	16. Trend Code R-5	18. Reab Code BFSOC
		19. Action Organization Bechtel FSO

22. Cause	23. Proposed Corrective Action

24. Responsible Organization/Person	25. Proposed Completion Date

26. Disposition Concurrence	QAR Reviewer _____ Date _____	PQAE (ASME Only) _____ Date _____
27. Disposition Action Taken		

28. Method of Disposition Verification	29. QAR Closed by
<input type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable <input type="checkbox"/> Superseding QAR	MPQAD _____ Date _____
	PQAE (ASME Only) _____ Date _____

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STOP WORK ORDER

APR 25 1984 PROJECTS, ENGINEERING AND CONSTRUCTION - QUALITY ASSURANCE DEPARTMENT

C. P. Co. Legal

PAGE 1 OF 1

<p>9. PROJECT: BECHTEL CONSTRUCTION MIDLAND ENERGY CENTER</p>	<p>10. SUBJECT OF STOP WORK ORDER: Field Mounted HVAC Instrumentation (Spec M-381(Q))</p>	<p>1. STOP WORK ORDER NO: FSW-31</p>
<p>11. ORAL STOP WORK ORDER GIVEN: TO: N/A BY: N/A DATE: TIME:</p>	<p>12. WORK STOPPED: N/A No work in progress DATE: TIME:</p>	<p>2. PREPARED BY: <i>R. R. Hinojosa</i></p>
<p>13. DESCRIPTION OF CONDITION REQUIRING STOP WORK ACTION: Specification M-381(Q) rev 4, section 4.4 states in part: "All instrument mounting structures shall be field fabricated or procured in accordance with Seismic Category I Racks and Supports (Drawing J-401-4(Q)) and installed in accordance with Instrument Installation Details (Specification M-477(Q))" Contrary to the above, an inspection of the following electrical instruments for these systems reveal that these instruments are not on Seismic Category I supports, or installed according to para 5.2.1 of M-381(Q) or according to drawing M-477(Q) sheet 29. This renders the installation of all electrical instrumentation for specification M-381(Q), Appendix A indeterminate. Reference MCAR/R #RAH-1.</p>		<p>3. DATE: 9-2-83 TIME: 10:30 AM</p>
		<p>4. APPROVED BY: <i>[Signature]</i></p>
		<p>5. DATE: 9/2/83</p>
<p>14. CORRECTIVE ACTION TAKEN: 1. Resident Engineer Walkdown determined installed instrument locations are acceptable. 2. Instrument Support Detail (FCR-E-2274) was evaluated by the Civil Engineering Group for seismic adequacy, found acceptable and has been incorporated into DWG M-477(Q). This is the type support used on installed M-381(Q) instruments. 3. Clarifying instructions have been added to E-600 Series Drawings that require use of the M-500 Series Drawings and specification M-381(Q) for HVAC Instrumentation.</p>		<p>6. FILE: 16.13</p>
		<p>7. THIS STOP WORK ORDER ISSUED TO: G A Hierzer</p> <p>8. DISTRIBUTION: KDBailey EMHughes JABauer LJessimore BHPeck WRBird DJones JARutgers JEBrunner MJuster RAWells FWBuckman ODLanham JLWood JWCook HPLEonard MADietrich BWMarguglio GFEwert REMcCue WJFriedrich DBMiller WDGreenwell GEParker PKHansen JAPastor</p>
<p>15. METHOD OF CORRECTIVE ACTION VERIFICATION: 1. Review of responses by Project Engineering to MCAR/R-RAH-1 2. Review of DCNs issued to E-600 and M-500 Series Dwgs 3. Review of revised specification M-381(Q) 4. Review of Drawing M-477(Q) 5. DCN's have been issued to M-500 Series Drawings to incorporate as built and installed for HVAC instruments installed to date</p>		
<p>16. COMPLETION OF CORRECTIVE ACTION VERIFIED BY: <i>R. R. Hinojosa</i> DATE: 4/23/84</p>	<p>17. STOP WORK ORDER LIFTED BY: <i>[Signature]</i> DATE: 4/23/84 TIME: 1245</p>	

TO: G. CRGSBY
FROM: E.B. POSER

MIDLAND PROJECT
QUALITY ASSURANCE DEPARTMENT

ORIGINAL
ORIGINAL
QUALITY ACTION REQUEST

6. QAR NO: RD-00026
7. DATE ISSUED: 2/9/84 8 REV: 0

1. REQUIREMENT: A. FSAR Table 3.2-3 sh 3 Rev 49 states that the Emergency Boration System Recirc Pumps are ASME III-2 1974 ed. through summer 1975 addenda. B. FSAR Table 3.9-1 sh 9 (Spent Fuel Pool pumps), sh 23 (Safeguards Chilled Water Pumps) and sh 30 (Emergency Boration System pumps) specify a reference (3A.1.48, I) for seismic loading combinations and stress limits.

9. PAGE 1 OF 2 RECEIVED

10. ASME RELATED APR 25 1984

YES C.P. NO Legal

2. DEFICIENCY: A. Contrary to the above, the design specification cover sheet of M/R 7220-M56(Q) has a professional engineer certifying that the EBS Recirc pumps are ASME III-2 1980 ed. through summer 1980 addenda. B. Note 4 at the end of Table 3.9-1 states that the reference is to be interpreted to mean FSAR Appendix 3A, Regulatory Guide 1.48, para. I. Para. I states that items covered by the paragraph are those items that were purchased prior to July, 1975. Items purchased by M/R 7220-M56(Q) were purchased in December, 1975. The reference in the FSAR is incorrect.

11. POTENTIAL 50.55(e)
YES NO

3. QAR ORIGINATED BY: CG Walenga
4. DISCIPLINE/DIVISION/SECTION: Nuclear
5. RESPONSE DATE: 2/29/84
12. REPORTED TO MPOA MANAGER: NA DATE: NA

13. ACTION ITEM NO: A0146
15. ITEM PRIORITY: 5
17. S/U CODE: PGM000
19. ACTION ORGANIZATION: Bechtel Nuclear Discipline
20. QAR REVIEWED BY: GEC Crosby
14. DISCIPLINE: N
16. TREND CODE: DNT
18. RESB CODE: BPE 2/9/84
21. DATE: 2/9/84

22. CAUSE: A. R.P.E. cited the code that was in effect at the time of award of this add-on, unaware that an agreement had been made to manufacture the add-on to the same code as the original purchase.
B. No deficiency. The purchase order was actually issued prior to July, 1975, in advance of the M.R. revision.

23. PROPOSED CORRECTIVE ACTION: A. SCN 4 to Specification 7220-M-56 (Q) was issued to correct the R.F.E. Certification Statement.
B. No FSAR change required. Examination of the purchase order revealed that it was issued prior to July, 1975, in advance of the M.R. revision. Therefore, Para. I applies.

24. RESPONSIBLE ORGANIZATION/PERSON: *EB POSER*
7/10/84 EB POSER
AS PER FOR 4-13-84

25. PROPOSED COMPLETION DATE: NA

26. DISPOSITION CONCURRENCE:
Craig J. Walenga 4/23/84 QAR REVIEWER DATE
GEC Crosby For MADIETRIKH 4/23/84 PQAE (ASME ONLY) DATE

27. DISPOSITION ACTION TAKEN:
A. Issued SCN 4 as stated in Block 23.
B. No Action Required.

CLOSED

28. METHOD OF DISPOSITION VERIFICATION
A. VERIFIED ISSUANCE OF SCN 4. THE SCN CORRECTED THE DISCREPANCY.
B. VERIFIED THAT P.O. FOR M-56 WAS WRITTEN ON 1/14/75 ALTHOUGH MR M-56 WAS NOT REVISED TILL 12/8/75 FOR "ISSUED FOR PURCHASE."
ACCEPTABLE UNACCEPTABLE SUPERCEDING QAR _____

29. QAR CLOSED BY: *Craig J. Walenga 4/23/84*
MPOAD DATE
NA
PFQCE (ASME ONLY) DATE