



Consumers
Power
Company

James W Cook
Vice President - Projects, Engineering
and Construction

General Offices: 1945 West Parnall Road, Jackson, MI 49201 • (517) 788-0453

March 15, 1985

Director of Office of Inspection
and Enforcement
Att Mr Richard C DeYoung
US Nuclear Regulatory Commission
Washington, DC 20555

MIDLAND PROJECT - ALAB-106 MONTHLY REPORT FOR JANUARY & FEBRUARY, 1985
DOCKET NOS 50-329 AND 50-330
FILE: 0.4.6 SERIAL: 32201

- Reference: 1) Letter, J W Cook to H R Denton, Miscellaneous Licensing Issues,
Serial 31655, dated September 11, 1984
- 2) Letter, D G Eisenhut to J W Cook, Request for Deferral of
Miscellaneous Licensing Matters During Construction Shutdown,
dated February 5, 1985

In accordance with Condition of Memorandum and Order ALAB-106, dated March 23, 1973, and Amendment No 1 of the Midland Plant Construction Permit, enclosed are five copies of the following documents written or closed during the month; Bechtel Nonconformance Reports, Quality Action Requests, Management Corrective Action Reports, Quality Audit Findings; Babcock & Wilcox Reports of Nonconformity; Consumers Power Company Nonconformance Reports, Audit Finding Reports, Quality Action Requests, Corrective Action Reports, and Management Corrective Action Requests/Reports.

Reference 1 requested that the requirement to submit ALAB reports be deferred until such time as the project is restarted. We acknowledge that Reference 2 advises us that relief from this reporting requirement should be pursuant to a 10 CFR 50.90 filing. Until such time a filing is made or other relief is granted, we will continue to send the reports.

JWC/WRB/lr

CC JGKepler, USNRC Region III (w/enc)

8503200438 850315
PDR ADOCK 05000329
R PDR

OC0385-0027A-MP02

James W. Cook

Doob
11

INDEX OF ATTACHMENTS
ALAB-106 MONTHLY REPORT
JANUARY 1985

Bechtel Nonconformance Reports - None

Bechtel Quality Action Requests - None

Bechtel Management Corrective Action Reports - None

Bechtel Quality Audit Findings - None

Babcock & Wilcox Reports of Nonconformity - None

Consumers Power Company Nonconformance Reports - Q-00001, Opened 1/4/85
Q-00002, Opened 1/14/85
Q-00004, Opened 1/23/85

Consumers Power Company Audit Finding Reports - None

Consumers Power Company Quality Action Requests - None

Consumers Power Company Corrective Action Reports - None

Consumers Power Company Management Corrective Action Request/Reports - None

INDEX OF ATTACHMENTS
ALAB-106 MONTHLY REPORT
FEBRUARY 1985

Bechtel Nonconformance Reports - None

Bechtel Quality Action Requests - None

Bechtel Management Corrective Action Reports - None

Bechtel Quality Audit Findings - None

Babcock & Wilcox Reports of Nonconformity - None

Consumers Power Company Nonconformance Reports - Q-00003, Opened 2/15/85
Q-00005, Opened 2/11/85
Q-00006, Opened 2/11/85
Q-00007, Opened 2/11/85
Q-00008, Opened 2/12/85
Q-00009, Opened 2/12/85
Q-00011, Opened 2/26/85
Q-00012, Opened 2/26/85
Q-00004, Closed 2/6/85
Q-00010, Closed 2/20/85

Consumers Power Company Audit Finding Reports - None

Consumers Power Company Quality Action Requests - None

Consumers Power Company Corrective Action Reports - None

Consumers Power Company Management Corrective Action Request/Reports - None

Opened

January 1985

QUALITY ASSURANCE DIVISION NONCONFORMANCE REPORT QAD FORM 1	15 NCR NO. Q-00001	17 REV 0
	16 DATE ISSUED 1/4/85	
	18 PAGE <u>1</u> OF <u>2</u>	

1 ITEM LOCATION
Warehouse #1, Level "A" Storage

2 DRAWING OR PART NO. AND REV. N/A	3 PART NAME N/A	4 SERIAL NO. 9-82-004
---------------------------------------	--------------------	--------------------------

5 ITEM DESCRIPTION
Bendix Hydro-thermograph
Model #594
Bechtel Power Corporation Instrument #4223

INFORMATION COPY

6 ITEM STARTUP SYSTEM NO. N/A	7 REFERENCE DOCUMENT QAPP for the Shutdown Phase of the Midland Energy Center,	8 ASME A.N.I. REQUIRED N/A Policy 12
----------------------------------	---	--

9 INSPECTION PLAN SM-1.70	REV 2	10 ACTION ORGANIZATION Warehouse and Salvage
------------------------------	----------	---

11 ACTIVITY HOLD REQUIRED: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	ACTIVITY HOLD ORDER NO. N/A
---	--------------------------------

12 REQUIREMENT
QAPP for the Shutdown Phase of the Midland Energy Center - Policy #12, "Control of Measuring and Test Equipment," Section 1.0 requires that measuring and test equipment used to establish conformance to criteria are identified, controlled, calibrated and adjusted to maintain accuracy.

13 NONCONFORMANCE
The Bendix Hydro-thermograph in Warehouse #1, Level "A" Storage area is out-of-calibration as of 1/3/85.

14 NCR ORIGINATED BY <u>D A Nott</u> D A Nott	DATE <u>1-4-85</u>
---	-----------------------

19 HOLD TAGS APPLIED ITEM SEGREGATED	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	20 LOCATION OF HOLD TAGS OR SEGREGATED AREA N/A
---	--	--

21 NEED TO REVIEW FOR REPORTABILITY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	23 TREND CODE 3	24 NCR REVIEW BY: <u>John T. Christy</u> DATE: <u>1-4-85</u>
--	--------------------	--

22 DETERMINED TO BE REPORTABLE <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	25 SECTION HEAD, ASSURANCE ENGINEERING DATE: <u>N/A</u>
---	--

26 CAUSE

27 PROCESS CORRECTIVE ACTION REQUIRED YES NO

28 RECOMMENDED DISPOSITION
 REWORK SCRAP/REJECT REPAIR USE AS IS

29 CONDITIONAL RELEASE NEEDED YES NO CR NO.

30 ADDITIONAL INFORMATION

INFORMATION COPY

31 DISTRIBUTION CONCURRENCE
ACTION ORGANIZATION _____ DATE _____ QAD CONCURRENCE _____ DATE _____
ENGINEERING _____ DATE _____ A.N.I. (ASME) IF REQUIRED _____

32 DISPOSITION ACTION TAKEN

33 METHOD OF DISPOSITION ACTION VERIFICATION NCR CLOSED BY
RESULTS OF DISPOSITION ACTION VERIFICATION
 ACCEPTABLE UNACCEPTABLE QAD _____ DATE _____
IF UNACCEPTABLE, REFERENCE SUPERSEDING NCR NUMBER _____ A.N.I. (ASME) _____ DATE _____
IF REQUIRED

QUALITY ASSURANCE DIVISION NONCONFORMANCE REPORT QAD FORM 1	15 NCR NO. Q-00002	17 REV 0	16 DATE ISSUED January 14, 1985
		18 PAGE <u>1</u> OF <u>2</u>	
1 ITEM LOCATION N/A			
2 DRAWING OR PART NO. AND REV. N/A		3 PART NAME N/A	4 SERIAL NO. N/A
5 ITEM DESCRIPTION Procedures for the Shutdown Phase of the Midland Energy Center: EN-002 - "Corrosion Monitoring" CD-001 - "Requirements for Soils Remedial Work" EN-003 - "Configuration Control" CD-002 - "Material Storage and Handling" EN-004 - "Classification of Structures, Systems and Components" PR-002 - "Procurement"			
6 ITEM STARTUP SYSTEM NO. N/A		7 REFERENCE DOCUMENT Quality Assurance Program Plan (QAPP)	8 ASME A.N.I. REQUIRED No
9 INSPECTION PLAN REV N/A		10 ACTION ORGANIZATION JAMooney, MEC Site; HPLeonard, Quality Assurance; RJEhardt, Engineering	
11 ACTIVITY HOLD REQUIRED: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		ACTIVITY HOLD ORDER NO. N/A	
INFORMATION COPY			
12 REQUIREMENT QAPP, Policy 5, "Instructions, Procedures and Drawings" Section 1.1 requires: "Activities affecting quality are accomplished in accordance with documented instructions." QAPP, Introduction, Section 5.0 requires: "This QAPP is implemented on October 1, 1984 with full compliance by January 1, 1985."			
13 NONCONFORMANCE Contrary to the above, the subject procedures were not approved as of January 11, 1985. These procedures address safety related activities that are ongoing during the Shutdown Phase of the Midland Energy Center. It is recognized that there have been extenuating circumstances such as: limited resources, slow response time during comment cycle, and higher priority for Shutdown activities that affect the Company's financial condition. It is also recognized that these procedures will document, not change, the methods by which these activities are performed. This condition is, however, in noncompliance with the QAPP and action needs to be taken to correct the condition on a priority basis.			
		14 NCR ORIGINATED BY <i>John Leonard</i> 1/14/85 DATE	
19 HOLD TAGS APPLIED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO ITEM SEGREGATED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		20 LOCATION OF HOLD TAGS OR SEGREGATED AREA N/A	
21 NEED TO REVIEW FOR REPORTABILITY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	23 TREND CODE 0	24 NCR REVIEW BY: <i>John Leonard</i> DATE: 1/14/85	
22 DETERMINED TO BE REPORTABLE <input type="checkbox"/> YES <input type="checkbox"/> NO N/A		25 SECTION HEAD, ASSURANCE ENGINEERING DATE: N/A <i>John Leonard</i> 1/14/85	

26 CAUSE

27 PROCESS CORRECTIVE ACTION REQUIRED YES NO

28 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

29 CONDITIONAL RELEASE NEEDED YES NO CR NO.

30 ADDITIONAL INFORMATION

31 DISTRIBUTION CONCURRENCE

ACTION ORGANIZATION _____ DATE _____ QAD CONCURRENCE _____ DATE _____

ENGINEERING _____ DATE _____ A.N.I. (ASME) IF REQUIRED _____

32 DISPOSITION ACTION TAKEN

33 METHOD OF DISPOSITION ACTION VERIFICATION _____ NCR CLOSED BY _____

RESULTS OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE
IF UNACCEPTABLE, REFERENCE SUPERSEDING NCR
NUMBER _____

QAD _____ DATE _____

A.N.I. (ASME) _____ DATE _____
IF REQUIRED

CR Q-00004

This NCP was opened 1/23/85 and closed 2/6/85. It is contained with the closed items in February's report.

Opened

February 1985

QUALITY ASSURANCE DIVISION	NONCONFORMANCE REPORT	15 NCR NO. Q-00003	17 REV 1
		16 DATE ISSUED 1-15-85 MB 2/15/85 2/15/85	MB 2/15/85
		18 PAGE 1 OF 2	

1 ITEM LOCATION
Auxiliary Building, Floor F9, Area 3, Elevation 685

2 DRAWING OR PART NO. AND REV. OVE-63B	3 PART NAME N/A	4 SERIAL NO. N/A
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5 ITEM DESCRIPTION
Make up Air Electric Heating Coil

6 ITEM STARTUP SYSTEM NO. OGLH	7 REFERENCE DOCUMENT M-485, Revision 22	8 ASME A.N.I. REQUIRED N/A
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9 INSPECTION PLAN N/A	REV N/A	10 ACTION ORGANIZATION Maintenance Department
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11 ACTIVITY HOLD REQUIRED: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	ACTIVITY HOLD ORDER NO. N/A
---	--------------------------------

12 REQUIREMENT
Mechanical Equipment list in Tech. Spec. M-485, Revision 22 identifies OVE-63B as being Q-listed.

INFORMATION COPY

13 NONCONFORMANCE
Maintenance Order O-AHV-22400699-9 identified the equipment as non-Q. Due to equipment being designated as such, the M.O. was not routed to QAD for review and inclusion of any witness/hold points. ~~Subsequently, work was performed without QAD being notified.~~ MB 2/15/85

This NCR supersedes NCR A-00282

14 NCR ORIGINATED BY <i>Mark Butterfield</i> DATE: 1/15/85
--

19 HOLD TAGS APPLIED ITEM SEGREGATED	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	20 LOCATION OF HOLD TAGS OR SEGREGATED AREA N/A
---	--	--

21 NEED TO REVIEW FOR REPORTABILITY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	23 TREND CODE 7	24 NCR REVIEW BY: <i>John L. Wood</i> DATE: 1/15/85 2/15/85
--	--------------------	---

22 DETERMINED TO BE REPORTABLE <input type="checkbox"/> YES <input type="checkbox"/> NO N/A	25 SECTION HEAD, ASSURANCE ENGINEERING DATE: N/A <i>John L. Wood</i> 1/15/85
--	---

26 CAUSE

27 PROCESS CORRECTIVE ACTION REQUIRED YES NO

28 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

29 CONDITIONAL RELEASE NEEDED YES NO CR NO.

30 ADDITIONAL INFORMATION

31 DISTRIBUTION CONCURRENCE

ACTION ORGANIZATION _____ DATE _____ QAD CONCURRENCE _____ DATE _____

ENGINEERING _____ DATE _____ A.N.I. (ASME) IF REQUIRED _____

32 DISPOSITION ACTION TAKEN

33 METHOD OF DISPOSITION ACTION VERIFICATION _____ NCR CLOSED BY _____

RESULTS OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE
IF UNACCEPTABLE, REFERENCE SUPERSEDING NCR
NUMBER _____

QAD _____ DATE _____

A.N.I. (ASME) _____ DATE _____
IF REQUIRED

QUALITY
ASSURANCE
DIVISION

NONCONFORMANCE REPORT

16 DATE ISSUED

18 PAGE 1 OF 67

QAD FORM 1

1 ITEM LOCATION
WAREHOUSE 1 & 2

2 DRAWING OR PART NO. AND REV.
N/A

3 PART NAME
ROSEMOUNT
TRANSMITTERS

4 SERIAL NO. 408951, 408952,
408955, 408956, 408957,
408764, 408765, 408766, 408767

5 ITEM DESCRIPTION 1153 SERIES B TRANSMITTERS
CPCO PURCHASE ORDERS: 5010-5569-QA, 5010-5402-QA, 5010-5318-QA
BECHTEL PURCHASE ORDERS: 7220-J-245AC; ITEM 4.5; 2FT-0440A,
B,C & D AEO #21715

6 ITEM STARTUP SYSTEM NO.
N/A

7 REFERENCE DOCUMENT
QA-6 REV.0

8 ASME A.N.I. REQUIRED
NO

9 INSPECTION PLAN REV
N/A

10 ACTION ORGANIZATION
FACILITIES AND MATERIALS DIVISION

11 ACTIVITY HOLD REQUIRED:
 YES NO

ACTIVITY HOLD ORDER NO.

12 REQUIREMENT SECTION 4.2.2 OF PROCEDURE QA-6 REV.0 STATES IN
PART: "WHEN A NONCONFORMANCE IS REPORTED TO OR DETECTED
BY QAD PERSONNEL, QAD IS RESPONSIBLE FOR: ... d. DOCUMENTING
NONCONFORMANCE ON A NCR (APPENDIX A)"

INFORMATION COPY

13 NONCONFORMANCE A COPY OF A PART 21 NOTICE WAS RECEIVED
BY CPCO FROM ROSEMOUNT INC. INDICATING A POTENTIAL
LEAK PATH IN THE SEAL OF THE THREADS BETWEEN THE
SENSOR MODULE AND THE ELECTRONICS HOUSING ON 1153
SERIES B TRANSMITTERS MANUFACTURED AND SHIPPED
AFTER JANUARY 10, 1984. THESE UNITS ARE IDENTIFIED
ABOVE. (REFERENCE PAGES 2-6 OF
THIS NCR.)

14 NCR ORIGINATED BY

Robert L Bishop

1-28-85
DATE

19 HOLD TAGS APPLIED YES NO
ITEM SEGREGATED YES NO

20 LOCATION OF HOLD TAGS OR SEGREGATED AREA
WAREHOUSE 2 HOLD AREA

21 NEED TO REVIEW FOR
REPORTABILITY
 YES NO 2/11/85

23 TREND CODE
0

24 NCR REVIEW BY:
[Signature]
DATE: 2/11/85

22 DETERMINED TO BE REPORTABLE
 YES NO NA 2/11/85

25 SECTION HEAD, ASSURANCE ENGINEERING
DATE: NA 2/11/85

THIS WAS REPORTED TO THE USNEC ON 10/12/84
2/11/85

7 PROCESS CORRECTIVE ACTION REQUIRED YES NO

8 RECOMMENDED DISPOSITION
 REWORK SCRAP/REJECT REPAIR USE AS IS

9 CONDITIONAL RELEASE NEEDED YES NO CR NO.

0 ADDITIONAL INFORMATION

1 DISTRIBUTION CONCURRENCE			
ACTION ORGANIZATION	DATE	QAD CONCURRENCE	DATE
ENGINEERING	DATE	A.N.I. (ASME) IF REQUIRED	

2 DISPOSITION ACTION TAKEN

3 METHOD OF DISPOSITION ACTION VERIFICATION		NCR CLOSED BY	
RESULTS OF DISPOSITION ACTION VERIFICATION			
<input type="checkbox"/> ACCEPTABLE	<input type="checkbox"/> UNACCEPTABLE	QAD	DATE
IF UNACCEPTABLE, REFERENCE SUPERSEDING NCR NUMBER _____		A.N.I. (ASME) IF REQUIRED	DATE

To ~~KEMarbaugh, J9C-2457~~

From TCBordine, P24-608 *TCB*

Date October 18, 1984

Subject NONCONFORMING MATERIAL

CC TLRandolph,
JRYope,
DJVandeWalle

RECEIVED

OCT 19 1984

NUCLEAR LICENSING

DCC: A200-73*10*02
73*20*06

CONSUMERS
POWER
COMPANY

Internal
Correspondence
TCB 84-21

The attached letter from Rosemont to our Purchasing Department identifies a potential problem with 1153 Series B transmitters shipped after January 10, 1984. A previous letter, dated September 10, 1984 specified that there is a possibility that a leak path through the transmitter housing could cause the instrument to stop functioning during postulated accident conditions. Please verify that nonconforming material reports have been initiated for those 1153 series B transmitters received via the referenced purchase orders.



D-QP-84-8 was initiated at Patisades last month to handle the three (3) received there under PO 1005-3030. They are still in stock and have been properly tagged. The other orders went to Midland. I do not know their status, but D. DeRushia is at Midland and received copies of the notice.

KEMarbaugh
10/18/84

cc
Dave DeRushia
Midland.

INFORMATION COPY

ROSEMOUNT INC.

12001 West 78th Street

Eden Prairie, Minnesota 55344 U.S.A.

Tel. (612) 941-5500

TWX 910-578-3103 TELEX 29-0183

Rosemount

October 2, 1984

Purchasing Agent
Consumers Power Co.
212 West Michigan Avenue
Jackson, MI 49201

Lee Howell
all memo turned over to Lee

Subject: 10 CFR Part 21 Notification Letter dated September 10, 1984

Reference: 1) Your Purchase order Number : 5010-5319, -5402, -5569, 1005-3030
2) Rosemount Order Number 413589, 413588, 413587, 416456

Gentlemen:

This is a follow-up to the above notification which will provide you with the serial numbers/tag numbers of those transmitters that may be affected by this potential problem. The enclosed listing identifies the 1153 Series B transmitters which were manufactured and shipped after January 10, 1984.

Again, the notification applies to only those 1153 Series B transmitters manufactured after January 10, 1984, and those units installed in an environment subject to a LOCA or HELB.

Currently we are in an extensive evaluation and test program to determine the cause of the leak path. Again, once the cause is identified, a corrective action will be established. We expect the results of our testing to be available in approximately two weeks. Another status letter will be sent to you at that time.

INFORMATION COPY

Very truly yours,

R.C. LaSall
R.C. LaSall
Manager

/njb

Enclosure

D-QP-821-48



DIRECTOR NUCLEAR LICENSING

10-10-84 cc: TL Randolph (3)
J. DeRushia (3)

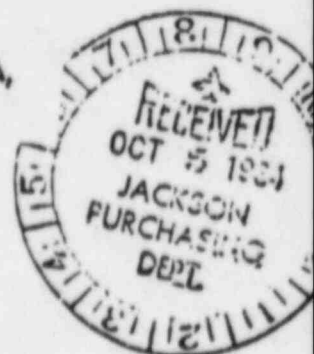
cc: H.E.I. (DCC)

ATTACHMENT A

<u>P.O. #</u>	<u>H.O. #</u>	<u>Tag #</u>	<u>Serial #</u>
5010-5569-QA	413587	N/A	408951
5010-5402-QA	413588	N/A	408952
	413588	N/A	408953
	413589	N/A	408955
5010-5318-QA	413589	N/A	408956
	413589	N/A	408957
	413589	N/A	408972
	413589	N/A	408973
1005-3030-QA	416456	N/A	409189
	416456	N/A	
	416456	N/A	

INFORMATION COPY

RL Bull Info from
~~Denney~~ D. DeRushia
 all related letters on
 the attached were turned
 over to Lettowell. He
 has the specifics on status.



JNK
LSG

JLWOOD (517)
UFI

Rosemount

October 2, 1984

Mr. V.A. Anderson, Director of Purchasing
Consumers Power Company
212 West Michigan Avenue
Jackson, MI 49201

Subject: 10 CFR Part 21 Notification Letter dated September 10, 1984

Reference: 1) Your Purchase order Number 7220-J-245-AC
2) Rosemount Order Number 410965

Gentlemen:

This is a follow-up to the above notification which will provide you with the serial numbers/tag numbers of those transmitters that may be affected by this potential problem. The enclosed listing identifies the 1153 Series B transmitters which were manufactured and shipped after January 10, 1984.

Again, the notification applies to only those 1153 Series B transmitters manufactured after January 10, 1984, and those units installed in an environment subject to a LOCA or HELB.

Currently we are in an extensive evaluation and test program to determine the cause of the leak path. Again, once the cause is identified, a corrective action will be established. We expect the results of our testing to be available in approximately two weeks. Another status letter will be sent to you at that time.

Very truly yours,

R.C. LaSell
R.C. LaSell
Manager

/njb

Enclosure

cc: Mr. R.C. Bauman

INFORMATION COPY

ATTACHMENT A

Purchase Order No. 7220-J-245-AC

Rosemount Order No. 410965

<u>Tag Number</u>	<u>Serial Number</u>
7220-J-245AC;Item 4.5;2FT-0440A	408764
7220-J-245AC;Item 4.5;2FT-0440B	408765
7220-J-245AC;Item 4.5;2FT-0440C	408766
7220-J-245AC;Item 4.5;2FT-0440D	408767

INFORMATION COPY

QUALITY ASSURANCE DIVISION <p style="text-align: center;">NONCONFORMANCE REPORT</p> QAD FORM 1	15 NCR NO. Q-00006 17 REV 0 16 DATE ISSUED 2-11-85 18 PAGE 1 OF 2
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1 ITEM LOCATION Auxiliary Building - Elevation 646'-0
--

2 DRAWING OR PART NO. AND REV. NA	3 PART NAME Nitrogen Pressure Gages	4 SERIAL NO. NA
--------------------------------------	--	--------------------

5 ITEM DESCRIPTION Auxiliary Building Safeguard Chiller Units 1VM-59A, 1VM-59B, 2VM-59A and 2VM-59B Nitrogen Pressure Gages
--

6 ITEM STARTUP SYSTEM NO. NA	7 REFERENCE DOCUMENT Quality Assurance Program Plan MO-00580 rev 0	8 ASME A.N.I. REQUIRED NA
---------------------------------	---	------------------------------

9 INSPECTION PLAN REV MO-00580 0	10 ACTION ORGANIZATION Operations & Maintenance Division
-------------------------------------	---

11 ACTIVITY HOLD REQUIRED: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	ACTIVITY HOLD ORDER NO.
---	-------------------------

12 REQUIREMENT 1. Quality Assurance Program Plan Policy #12 rev 0, Paragraph 2.5 states in part, "Measuring and test equipment is calibrated at specified intervals."
--

INFORMATION COPY

13 NONCONFORMANCE NOTE: Reference MPQAD NCRs C-05727 & C-0528 Contrary to the above the labels attached to each of the four gages shows the gages to have an expired calibration due date.

Equip. ID	Serial #	Cal. Due Date
1VM-59A	BPC-1358	11-9-84
1VM-59B	BPC-1365	11-9-84
2VM-59A	BPC-1353	11-9-84
2VM-59B	BPC-1437	11-9-84

14 NCR ORIGINATED BY 	2-11-85 DATE
--------------------------	-----------------

19 HOLD TAGS APPLIED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO ITEM SEGREGATED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	20 LOCATION OF HOLD TAGS OR SEGREGATED AREA On Gages
---	---

21 NEED TO REVIEW FOR REPORTABILITY YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	23 TREND CODE 3	24 NCR REVIEW BY: DATE: 2/11/85
--	--------------------	--

22 DETERMINED TO BE REPORTABLE YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	25 SECTION HEAD, ASSURANCE ENGINEERING DATE: NA 2/11/85
---	---

26 CAUSE

27 PROCESS CORRECTIVE ACTION REQUIRED YES NO

28 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

29 CONDITIONAL RELEASE NEEDED YES NO CR NO.

30 ADDITIONAL INFORMATION

31 DISTRIBUTION CONCURRENCE

_____	DATE	_____	DATE
ACTION ORGANIZATION		QAD CONCURRENCE	

_____	DATE	_____
ENGINEERING		A.N.I. (ASME) IF REQUIRED

32 DISPOSITION ACTION TAKEN

33 METHOD OF DISPOSITION ACTION VERIFICATION NCR CLOSED BY

RESULTS OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE
 IF UNACCEPTABLE, REFERENCE SUPERSEDING NCR
 NUMBER _____

_____ DATE

_____ DATE
 A.N.I. (ASME)
 IF REQUIRED

QUALITY ASSURANCE DIVISION		NONCONFORMANCE REPORT		15 NCR NO. Q-00007	17 REV 0
QAD FORM 1				16 DATE ISSUED 2-11-85	18 PAGE <u>1</u> OF <u>2</u>
1 ITEM LOCATION MEC onsite M&TE Calibration lab					
2 DRAWING OR PART NO. AND REV. MP-1		3 PART NAME Mini-Pulser		4 SERIAL NO. 433	
5 ITEM DESCRIPTION Mini-Pulser Cal. ID #8325-01198					
6 ITEM STARTUP SYSTEM NO. NA		7 REFERENCE DOCUMENT IS-I-27 rev 1-A		8 ASME A.N.I. REQUIRED NA	
9 INSPECTION PLAN NA		10 ACTION ORGANIZATION SP & LS-S. Woodby			
11 ACTIVITY HOLD REQUIRED: <u> </u> YES <u> X </u> NO ACTIVITY HOLD ORDER NO. <u> NA </u>					
12 REQUIREMENT Equipment MP-1 is supposed to generate a pulse height of 10 volts.					
INFORMATION COPY					
13 NONCONFORMANCE Equipment MP-1 is generating a pulse height of 10 millivolts. NOTE: M&TE usage record page one for 8325-01198 shows no Q activities performed with this equipment.					
				14 NCR ORIGINATED BY <i>Mark Buttrick</i> DATE: <u>3/11/85</u>	
19 HOLD TAGS APPLIED ITEM SEGREGATED		<u> </u> YES <u> X </u> NO <u> X </u> YES <u> </u> NO		20 LOCATION OF HOLD TAGS OR SEGREGATED AREA M&TE lab	
21 NEED TO REVIEW FOR REPORTABILITY <u> </u> YES <u> X </u> NO		23 TREND CODE 3		24 NCR REVIEW BY: <i>E. J. Gould</i> DATE: <u>2/11/85</u>	
22 DETERMINED TO BE REPORTABLE <u> </u> YES <u> </u> NO		25 SECTION HEAD, ASSURANCE/ENGINEERING NA DATE: <u>2/11/85</u> <i>E. J. Gould</i>			

26 CAUSE

27 PROCESS CORRECTIVE ACTION REQUIRED YES NO

28 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

29 CONDITIONAL RELEASE NEEDED YES NO CR NO.

30 ADDITIONAL INFORMATION

31 DISTRIBUTION CONCURRENCE

_____	_____	_____	_____
ACTION ORGANIZATION	DATE	QAD CONCURRENCE	DATE
_____	_____	_____	_____
ENGINEERING	DATE	A.N.I. (ASME) IF REQUIRED	

32 DISPOSITION ACTION TAKEN

33 METHOD OF DISPOSITION ACTION VERIFICATION NCR CLOSED BY

RESULTS OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE
 IF UNACCEPTABLE, REFERENCE SUPERSEDING NCR
 NUMBER _____

_____	_____
QAD	DATE
_____	_____
A.N.I. (ASME) IF REQUIRED	DATE

QUALITY
ASSURANCE
DIVISION

NONCONFORMANCE REPORT

QAD FORM 1

15 NCR NO. Q-00008 17 REV 0
16 DATE ISSUED 2-12-85
18 PAGE 1 OF 245
2-11-85

1 ITEM LOCATION

Warehouse #2

2 DRAWING OR PART NO. AND REV.

P.O. 5008-3634-QA Item 11

3 PART NAME

Studs

4 SERIAL NO.

Heat #8095577

5 ITEM DESCRIPTION

3 1/2 - 8x24" SA193 B7 A/T Studs, Quantity-4 Trace letter H21

NOTE: The attached customer certification identified the studs as 26" long. This length was listed erroneously on the attached C of C. (Per Marlene Davis of Cardinal's QA department.)

6 ITEM STARTUP SYSTEM NO.

NA

7 REFERENCE DOCUMENT

QA-6 Revision 0

8 ASME A.N.I. REQUIRED

No

9 INSPECTION PLAN REV

NA

10 ACTION ORGANIZATION

Facilities and Materials Division

11 ACTIVITY HOLD REQUIRED:

___ YES X NO

ACTIVITY HOLD ORDER NO.

12 REQUIREMENT

Section 4.2.2 of Procedure QA-6 Revision 0 states in part: "When a nonconformance is reported to or detected by QAD personnel, QAD is responsible for:... d. Documenting nonconformance on a NCR (Appendix A)"

INFORMATION COPY

13 NONCONFORMANCE

A copy of A Part 21 Notice was received by CPCo from Cardinal Industrial Products Corporation indicating that four of thirty two studs received on the above P.O. (item 11) may not have received the required ultrasonic examination.

14 NCR ORIGINATED BY

Robert L. Bishop

Robert L. Bishop

2-11-85

DATE

19 HOLD TAGS APPLIED ___ YES X NO
ITEM SEGREGATED X YES ___ NO

20 LOCATION OF HOLD TAGS OR SEGREGATED AREA

Warehouse #2 Hold Area

21 NEED TO REVIEW FOR REPORTABILITY
X YES ___ NO

23 TREND CODE

0

24 NCR REVIEW BY:

John Wood

DATE:

John Wood
2-11-85

22 DETERMINED TO BE REPORTABLE
X YES ___ NO

25 SECTION HEAD, ASSURANCE ENGINEERING

Ernie W. Goold

DATE:

Ernie W. Goold
2/12/85

PG 2 of 4
2-11-85

Cardinal



INDUSTRIAL PRODUCTS CORPORATION
401 WEST QUENBROOK • LAS VEGAS, NEVADA 89118 3088
PHONE: NEVADA: 702-738-1888 • (TOLL FREE): 800-634-6881
TELEX 948-483

PAGE 1

INFORMATION CO.

CUSTOMER CERTIFICATION

CUSTOMER NO. 7882586
CONSUMERS POWER CORP
MIDLAND PLANT OPERATIONS
3500 E. MILLER ROAD
MIDLAND, MICH 48640
CUST. P.O. NO. 5008-3634-0A
CUST PO ITEM NO. 011

CERT NO.: 0028969
CERT DATE: 03/16/83
SHPD DATE: 03/16/83
C. I. NO.: 0028796
C. I. P. ITEM NO.: 011
QTY ORDERED: 32
QTY SHPD: 4

CERTIFICATION FOR ITEM 3 1/2-8X26" SA193 B7 A/T STUDS
HEAT NO: 8095577

TRACE LTR.: H21

CHEMISTRY LISTING

C .410 ✓ Cr .980 ✓ Mn .920 ✓ Mo .200 ✓ P .009 ✓
S1 .240 ✓ S .022 ✓

** PHYSICALS **

<< SUB SIZE >>
TENSILE STRENGTH: 137000 PSI ✓
YIELD STRENGTH: 114800 PSI ✓
% ELONGATION: 20. IN 2 INCHES ✓
% REDUCTN OF AREA: 58.1 ✓

** HARDNESS **

ENDING HARNDNESS 285. BHN

** HEAT TREAT DATA **

TEMP TEMPER
TIME 1100 F
MEDIA MIN. TEMP.

** CHARPY IMPACT DATA **

68. F
IMPACT STRENGTH MILLS LTRL EXPAN. % SHEAR AREA
TEST 1 62. 41. 33
TEST 2 63. 38. 3
TEST 3 73. 50. 20
AVERAGE 66. 43. 19

CONTINUED TO PAGE 2

PG 8 of 34
246
2-11-83

Cardinal



INDUSTRIAL PRODUCTS CORPORATION
1000 W. WASHINGTON ST. SUITE 100
MIDLAND, MICHIGAN 48640
TELEPHONE (313) 634-4100

PAGE 2

INFORMATION COPY

CUSTOMER CERTIFICATION

CUSTOMER NO. 7882586

CERT NO. 0028969

CONSUMERS POWER CORP
MIDLAND PLANT OPERATIONS
3500 E. MILLER ROAD
MIDLAND, MICH 48640
INST. P.O. NO. 5008-3634-GA

CERT DATE 03/16/83
SHPD DATE 03/16/83
C. I. NO. 0028796
C. I. P. ITEM NO. 011
QTY ORDERED: 32
QTY SHPD 4

CERTIFICATION FOR ITEM 3 1/2-8X26" SA193 B7 A/T STUDS
HEAT NO. 8095577 TRACE LTR.H21

PER CPC SPEC. AC QUALITY ASSURANCE
INQUIRY NO. 04346

PER ASME B & PV CODE SECTION III, CLASS 1, 1980 EDITION THRU
WINTER 1981 ADDENDA.
10CFR21 APPLIES.

HEAT TREATED IN ACCORDANCE WITH THE MATERIAL SPECIFICATION,
SA614. PARAGRAPHS RW AND RZ ARE APPLICABLE TO THIS ORDER.
THIS MATERIAL HAS BEEN MAGNETIC PARTICLE INSPECTED AND
ULTRASONIC INSPECTED IN ACCORDANCE WITH SECTION V, ARTICLE 7
(FOR MAGNETIC PARTICLE) AND SECTION V, ARTICLE 5 (FOR
ULTRASONIC) OF THE ASME B & PV CODE AND FOUND ACCEPTABLE
TO SA-614, PARAGRAPHS RW AND RZ. INSPECTOR CERTIFIED TO
ASNT-TC-A1, LEVEL II.

THIS MATERIAL WAS SUPPLIED AND PRODUCED IN ACCORDANCE WITH
CARDINAL INDUSTRIAL PRODUCTS QUALITY ASSURANCE PROGRAM DATED
JANUARY 22, 1982, REV. 3, WHICH MEETS THE REQUIREMENTS OF
MIA-3800/ANSI N45 2.

THE ABOVE PRODUCT HAS BEEN SUPPLIED PER AMERICAN SOCIETY OF
MECHANICAL ENGINEERS.

William A. ...

AUTHORIZED AGENT.

Steven ...

REVIEW DATE

REPORTING DEFECTS/NON-CONFORMANCES
10CFR PART 21

1) P.O. file
a) ~~_____~~

Customer... Consumers Power Company (Midland)
P.O. No. 5008-3634-QA Line Item # (s) ... 11
C.I. No. 28796 Line Item # (s) ... 11
Material Description... 3 1/2" - B. X. 26" SA. 193. B7. A/T. Studs.
Heat # 809.5577 Trace Ltr. H. 21 Cert # 28969
Qty 4 - Total order was 32.

Defect Noted... We are unable to locate the ultrasonic test report (U.T.) for these 4 pieces and the CMR is not properly filled out to indicate the test was performed. Please review your application and advise us of action we should take.

Disposition: Reportable To Customer: Yes... ... No.....

Signed... Dennis C. Fuldner Date... Sept-26, 1984

If reportable, mailed to: Consumers Power Corp.
Midland Plant Operations
3500 E. Miller Rd - PO Box 1593
Midland, Mich. 48640

The above material has been shipped to you on your referenced P.O. number. We have noted a defect which could possibly be a safety hazard. Will you please evaluate this noted condition in accordance with 10CFR21 Paragraph 21.21 (a) (1) (ii) and (b) (1). Please advise us of action taken.

10/1/84

QUALITY ASSURANCE DIVISION	NONCONFORMANCE REPORT	15 NCR NO.	17 REV
		0-00009	0
		16 DATE ISSUED	
		2-12-85	
QAD FORM 1		18 PAGE 1 OF 4	

1 ITEM LOCATION	Diesel Generator Building, Engine Control Panels		
-----------------	--	--	--

2 DRAWING OR PART NO. AND REV.	3 PART NAME	4 SERIAL NO.	
P.O. 7220-M-18	Norgren Air Filter Bowls	NA	

5 ITEM DESCRIPTION	Air Filter Bowls located in Engine Control Panels 1C-111, 2C-111, 1C-112, 2C-112		
--------------------	--	--	--

6 ITEM STARTUP SYSTEM NO.	7 REFERENCE DOCUMENT	8 ASME A.N.I. REQUIRED	
NA	QA-6 revision 0	NA	

9 INSPECTION PLAN	REV	10 ACTION ORGANIZATION	
NA		Engineering Technical Support	

11 ACTIVITY HOLD REQUIRED:	ACTIVITY HOLD ORDER NO.		
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	NA		

12 REQUIREMENT	Section 4.2.2 of procedure QA-6, revision 0 states in part: "When a nonconformance is reported to or detected by QAD personnel, QAD is responsible for: ... d. Documenting nonconformance on a NCR (Appendix A)"		
INFORMATION COPY			

13 NONCONFORMANCE	A copy of a part 21 notice was received by CPCo from Transamerica Delaval Inc. indicating a potential problem with the air filter in the Engine Control Panel, specifically polycarbonate transparent bowls. Reference attached part 21 notification letter from Transamerica Delaval.		
-------------------	--	--	--

14 NCR ORIGINATED BY	DATE
<i>Mark Butterfield</i> MButterfield	2/12/85

19 HOLD TAGS APPLIED	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	20 LOCATION OF HOLD TAGS OR SEGREGATED AREA
ITEM SEGREGATED	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	and 2C-112 Engine Control Panels 1C-111, 2C-111, 1C-112

21 NEED TO REVIEW FOR REPORTABILITY	23 TREND CODE	24 NCR REVIEW BY
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	0	<i>Ernest W. Gould</i> DATE: 2/12/85

22 DETERMINED TO BE REPORTABLE	25 SECTION HEAD, ASSURANCE ENGINEERING
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	DATE: <i>Ernest W. Gould</i> 2/12/85

26 CAUSE

27 PROCESS CORRECTIVE ACTION REQUIRED YES NO

28 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

29 CONDITIONAL RELEASE NEEDED YES NO CR NO.

30 ADDITIONAL INFORMATION

31 DISTRIBUTION CONCURRENCE

ACTION ORGANIZATION _____ DATE _____ QAD CONCURRENCE _____ DATE _____

ENGINEERING _____ DATE _____ A.N.I. (ASME) IF REQUIRED _____

32 DISPOSITION ACTION TAKEN

33 METHOD OF DISPOSITION ACTION VERIFICATION _____ NCR CLOSED BY _____

RESULTS OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE
IF UNACCEPTABLE, REFERENCE SUPERSEDING NCR
NUMBER _____

QAD _____ DATE _____

A.N.I. (ASME) _____ DATE _____
IF REQUIRED

ORIGINAL

QUALITY ASSURANCE DIVISION	NONCONFORMANCE REPORT	15 NCR NO.	17 REV
		Q-00011	0
		16 DATE ISSUED	
		2-26-85	
QAD FORM 1		18 PAGE <u>1</u> OF <u>7</u>	

1 ITEM LOCATION
Soil beneath and around Diesel Generator Fuel Oil Storage Tanks

2 DRAWING OR PART NO. AND REV. NA	3 PART NAME Soil Boring Logs B1, B2, B3 & B4	4 SERIAL NO. NA
--------------------------------------	--	--------------------

5 ITEM DESCRIPTION
Data recorded in Soil Boring Logs B1, B2, B3 and B4

INFORMATION COPY

6 ITEM STARTUP SYSTEM NO. NA	7 REFERENCE DOCUMENT QA-6 revision 0	8 ASME A.N.I. REQUIRED no
---------------------------------	---	------------------------------

9 INSPECTION PLAN NA	REV	10 ACTION ORGANIZATION Engineering Technical Support
-------------------------	-----	---

11 ACTIVITY HOLD REQUIRED: YES y NO ACTIVITY HOLD ORDER NO.

12 REQUIREMENT
Section 4.2.2 of Procedure QA-6 revision 0 states in part: "When a nonconformance is reported to or detected by QAD personnel, QAD is responsible for:...d. Documenting nonconformance on a NCR (Appendix A)"

13 NONCONFORMANCE
It was determined that soil boring logs B1, B2, B3 and B4 may be invalid because of an error that occurred during the submittal of boring data obtained by the subcontractor-Raymond Company. This data was used in the evaluation that determined the potential for soil liquefaction of the sand layer at elevations 600.5' and 603', which is now determined to be inconclusive. Reference the attached letter of notification.

14 NCR ORIGINATED BY <u>Robert L. Bishop</u> RLBishop	<u>2-26-85</u> DATE
---	------------------------

19 HOLD TAGS APPLIED ITEM SEGREGATED	<u> </u> YES <u> y </u> NO <u> </u> YES <u> y </u> NO	20 LOCATION OF HOLD TAGS OR SEGREGATED AREA NA
---	--	---

21 NEED TO REVIEW FOR REPORTABILITY <u> y </u> YES <u> </u> NO	23 TREND CODE 0	24 NCR REVIEW BY <u>[Signature]</u> For JL Wood DATE: <u>2-26-85</u>
---	--------------------	---

22 DETERMINED TO BE REPORTABLE <u> x </u> YES <u> </u> NO 0.4.9.104	25 SECTION HEAD, ASSURANCE ENGINEERING <u>[Signature]</u> DATE: <u>2/26/85</u>
--	--

26 CAUSE

27 PROCESS CORRECTIVE ACTION REQUIRED YES NO

28 RECOMMENDED DISPOSITION
 REWORK SCRAP/REJECT REPAIR USE AS IS

29 CONDITIONAL RELEASE NEEDED YES NO CR NO.

30 ADDITIONAL INFORMATION

31 DISTRIBUTION CONCURRENCE

_____	DATE	_____	DATE
ACTION ORGANIZATION		QAD CONCURRENCE	
_____	DATE	_____	
ENGINEERING		A.N.I. (ASME) IF REQUIRED	

32 DISPOSITION ACTION TAKEN

33 METHOD OF DISPOSITION ACTION VERIFICATION NCR CLOSED BY

RESULTS OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE
 IF UNACCEPTABLE, REFERENCE SUPERSEDING NCR
 NUMBER _____

_____	DATE
QAD	
_____	DATE
A.N.I. (ASME) IF REQUIRED	

ORIGINAL

QUALITY ASSURANCE DIVISION NONCONFORMANCE REPORT QAD FORM 1	15 NCR NO. 0-00012	17 REV 0
	16 DATE ISSUED 2-26-85	
	18 PAGE 1 OF 7	

1 ITEM LOCATION
Installed throughout HVAC systems and in HVAC storage building at the Midland Energy Center

2 DRAWING OR PART NO. AND REV. NA	3 PART NAME Ruskin Fire Dampers	4 SERIAL NO. Model IBD-21, IBD-23 and NIBD-23
--------------------------------------	------------------------------------	--

5 ITEM DESCRIPTION
Ruskin Fire Dampers. Model IBD-21, IBD-23, and NIBD-23 (interlocking blade type that were supplied with closure springs.)

6 ITEM STARTUP SYSTEM NO. All HVAC systems	7 REFERENCE DOCUMENT QA-6 revision 0	8 ASME A.N.I. REQUIRED no
---	---	------------------------------

9 INSPECTION PLAN NA	REV	10 ACTION ORGANIZATION Engineering Technical Support
-------------------------	-----	---

11 ACTIVITY HOLD REQUIRED: ___ YES <u>x</u> NO	ACTIVITY HOLD ORDER NO.
---	-------------------------

12 REQUIREMENT
Section 4.2.2 of Procedure QA-6 revision 0 states in part: "When a nonconformance is reported to or detected by QAD personnel, QAD is responsible for:...d. Documenting nonconformance on a NCR (Appendix A)"

INFORMATION COPY

13 NONCONFORMANCE
A copy of a Part 21 Notice was received by Consumers Power Company from Ruskin Manufacturing indicating a potential problem with the fire dampers models referenced above. Specifically, the dampers may not cycle properly under normal system duct pressures. (Reference the attached notification.)

14 NCR ORIGINATED BY <u>Robert L. Bishop</u> RLBishop	2-26-85 DATE
---	-----------------

19 HOLD TAGS APPLIED ITEM SEGREGATED	___ YES <u>x</u> NO ___ YES <u>x</u> NO	20 LOCATION OF HOLD TAGS OR SEGREGATED AREA NA-Tagging of these items will occur for any items that fail testing
---	--	---

21 NEED TO REVIEW FOR REPORTABILITY <u>x</u> YES ___ NO	23 TREND CODE 0	24 NCR REVIEW BY: <u>For JL Wood</u> DATE: 2-26-85
---	--------------------	--

22 DETERMINED TO BE REPORTABLE <u>x</u> YES ___ NO	0.4.9.105	25 SECTION HEAD, ASSURANCE ENGINEERING DATE: 2/26/85 <u>Ernest W. Poole</u>
--	-----------	--

26 CAUSE

27 PROCESS CORRECTIVE ACTION REQUIRED YES NO

28 RECOMMENDED DISPOSITION

REWORK SCRAP/REJECT REPAIR USE AS IS

29 CONDITIONAL RELEASE NEEDED YES NO CR NO.

30 ADDITIONAL INFORMATION

31 DISTRIBUTION CONCURRENCE

_____	_____	_____	_____
ACTION ORGANIZATION	DATE	QAD CONCURRENCE	DATE
_____	_____	_____	_____
ENGINEERING	DATE	A.N.I. (ASME) IF REQUIRED	

32 DISPOSITION ACTION TAKEN

33 METHOD OF DISPOSITION ACTION VERIFICATION NCR CLOSED BY

RESULTS OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE UNACCEPTABLE
 IF UNACCEPTABLE, REFERENCE SUPERSEDING NCR
 NUMBER _____

_____	_____
QAD	DATE
_____	_____
A.N.I. (ASME) IF REQUIRED	DATE

Closed

February 1985

QUALITY ASSURANCE DIVISION QAD FORM 1 NONCONFORMANCE REPORT	15 NCR NO. 0-00010	17 REV 0
	16 DATE ISSUED 2-19-85	
	18 PAGE <u>1</u> OF <u>2</u>	

1 ITEM LOCATION
N/A

2 DRAWING OR PART NO. AND REV. N/A	3 PART NAME N/A	4 SERIAL NO. N/A
---------------------------------------	--------------------	---------------------

5 ITEM DESCRIPTION
Vision examination of all QAD inspection personnel.

6 ITEM STARTUP SYSTEM NO. N/A	7 REFERENCE DOCUMENT QA-3 "Certification of Inspection Personnel"	8 ASME A.N.I. REQUIRED N/A
----------------------------------	--	-------------------------------

9 INSPECTION PLAN REV N/A	10 ACTION ORGANIZATION Quality Assurance Division
------------------------------	--

11 ACTIVITY HOLD REQUIRED: YES X NO
ACTIVITY HOLD ORDER NO. N/A

12 REQUIREMENT
Appendix B (Vision Examination Record) of the above referenced document contains a near vision exam which specifies the following acceptance criteria:

"Natural or corrected ability to read J-1 letters on a standard Jaeger's test chart at a minimum of 15 inches."

13 NONCONFORMANCE
Contrary to the above, from 1/9/85 through 1/31/85 nine inspection personnel had been tested for distance vision using the J-2 letters on a standard Jaeger's test chart. The J-2 criteria is not as stringent as the J-1 letters.

INFORMATION COPY

14 NCR ORIGINATED BY
Edward L. Neill
DATE: 2-19-85

19 HOLD TAGS APPLIED ITEM SEGREGATED	<u> </u> YES <u> X </u> NO <u> </u> YES <u> X </u> NO	20 LOCATION OF HOLD TAGS OR SEGREGATED AREA N/A
---	--	--

21 NEED TO REVIEW FOR REPORTABILITY <u> </u> YES <u> X </u> NO	23 TREND CODE 0	24 NCR REVIEW BY: <i>Ernest B. Gould</i> DATE: 2/20/85
---	--------------------	--

22 DETERMINED TO BE REPORTABLE <u> </u> YES <u> </u> NO N/A <i>EDS</i>	25 SECTION HEAD, ASSURANCE ENGINEERING DATE: N/A <i>EDS</i>
--	--

26 CAUSE

The individual responsible for administering the examination mistakenly used the wrong letters on the near distance vision exam test chart as acceptance criteria.

27 PROCESS CORRECTIVE ACTION REQUIRED YES NO

28 RECOMMENDED DISPOSITION
 REWORK SCRAP/REJECT REPAIR USE AS IS

29 CONDITIONAL RELEASE NEEDED YES NO CR NO.

30 ADDITIONAL INFORMATION
None.

31 DISTRIBUTION CONCURRENCE
Leonard S. Nuckley 2-20-85 Ernest D. Gould 2/20/85
ACTION ORGANIZATION DATE QAD CONCURRENCE DATE
NA PEP 2/20/85 A.N.I. (ASME) IF REQUIRED

32 DISPOSITION ACTION TAKEN
The individual responsible for administering the vision examination has been re-instructed to use the correct acceptance criteria. All nine certified inspection personnel have been re-examined for near distance vision using the correct (J-1 letters) acceptance criteria of a standard Jaeger's test chart.
All nine examinees have passed the correct acceptance criteria, resulting in no concern for inspector qualification of past inspections.

33 METHOD OF DISPOSITION ACTION VERIFICATION NCR CLOSED BY
RESULTS OF DISPOSITION ACTION VERIFICATION
 ACCEPTABLE UNACCEPTABLE
IF UNACCEPTABLE, REFERENCE SUPERSEDING NCR NUMBER _____
Leonard S. Nuckley 2-20-85
QAD DATE
A.N.I. (ASME) DATE
IF REQUIRED

QUALITY ASSURANCE DIVISION NONCONFORMANCE REPORT QAD FORM 1	15 NCR NO. Q-00004	17 REV 0
	16 DATE ISSUED 1-22-85	
	18 PAGE 1 OF 2	

1 ITEM LOCATION
Warehouse #2

2 DRAWING OR PART NO. AND REV. NA	3 PART NAME Grease	4 SERIAL NO. NA
--------------------------------------	-----------------------	--------------------

5 ITEM DESCRIPTION
Grease Mobilux-2 14 oz tube
Stock No 11-00569

6 ITEM STARTUP SYSTEM NO. NA	7 REFERENCE DOCUMENT CPC Spec DO LP 13-4725	8 ASME A.N.I. REQUIRED No
---------------------------------	---	------------------------------

9 INSPECTION PLAN RE-00001	REV 0	10 ACTION ORGANIZATION Material Services
-------------------------------	----------	---

11 ACTIVITY HOLD REQUIRED: YES NO
ACTIVITY HOLD ORDER NO. INFORMATION COPY

12 REQUIREMENT
1. CPC Spec DO Rev 1 states in part "No Substitutions are authorized."
2. LP 13-4725 states in part "Mobilux-2 14 oz tube. Stock No 11-00569."

13 NONCONFORMANCE
Material received was not as ordered.
Vendor substituted "Mobilux-EP2 14 oz tube Stock No 11-00577."

14 NCR ORIGINATED BY
[Signature] 1-22-85
DATE

19 HOLD TAGS APPLIED ITEM SEGREGATED	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	20 LOCATION OF HOLD TAGS OR SEGREGATED AREA Warehouse #2 Hold Area
---	--	---

21 NEED TO REVIEW FOR REPORTABILITY YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	23 TREND CODE 4	24 NCR REVIEW BY: <i>[Signature]</i> DATE: 1-23-85
--	--------------------	--

22 DETERMINED TO BE REPORTABLE YES <input type="checkbox"/> NO <input type="checkbox"/>	25 SECTION HEAD, ASSURANCE ENGINEERING DATE:
--	---

26 CAUSE

VENDOR SUBSTITUTED MATERIAL.

INFORMATION COPY

27 PROCESS CORRECTIVE ACTION REQUIRED YES NO

28 RECOMMENDED DISPOSITION REWORK SCRAP/REJECT REPAIR USE AS IS

29 CONDITIONAL RELEASE NEEDED YES NO CR NO.

30 ADDITIONAL INFORMATION
SEE ATTACHED LETTER (FILE 0460.3 UFL 73*10*03 ~~5000~~)
SERIAL CSC-8132

31 DISTRIBUTION CONCURRENCE
R.L. Bull 2-6-84 DATE QAD CONCURRENCE 2-6-85 DATE
P. P. P. 2-6-85 DATE NA A.N.I. (ASME) IF REQUIRED

32 DISPOSITION ACTION TAKEN
Material placed into stock as
CP Co stock No. 11-00577

33 METHOD OF DISPOSITION ACTION VERIFICATION
Documentation Review
RESULTS OF DISPOSITION ACTION VERIFICATION
 ACCEPTABLE UNACCEPTABLE
IF UNACCEPTABLE, REFERENCE SUPERSEDING NCR NUMBER _____
NCR CLOSED BY QAD 2-6-85 DATE
NA A.N.I. (ASME) IF REQUIRED DATE

to JChristy, Midland Energy Center

From RLOliver/PEPappioumou, Midland Energy Center

CONSUMERS
POWER
COMPANY

Date January 31, 1985

Subject MIDLAND ENERGY CENTER
DISPOSITION OF NCR Q-00004

Internal
Correspondence

File: 0460.3 UFI: 73*10*03 Serial: CSC-8132

CC JLWood, MEC RLBull, MEC DJVokal, MEC
PJGroves, MEC GWRowe, MEC EWGoold, MEC

The subject NCR was generated during Receipt Inspection of a shipment of a grease product manufactured by Mobil Oil Corporation. The specification required grease designated as Mobilux 2 to be shipped while the actual shipment contained Mobilux EP-2 grease.

Mobilux 2 and Mobilux EP-2 are lithium soap based greases of the same grade. EP-2 also contains an additive that makes it suitable for use in "Extreme Pressure" applications. Based on the industrial products brochure describing the Mobilux 2 and the Mobilux EP-2 lubricants and discussions with Mobil Oil personnel, we have concluded that in all cases where Mobilux 2 grease is specified, Mobilux EP-2 may be substituted. If you have any questions, please contact us.

RECEIVED COPY
INFORMATION COPY



RUSKIN

Division of Philips Industries Inc.

Box 129
Grandview, Missouri 64030
Phone 816 761 7476
TELEX 42 4192

Factories: Parsons and Great Bend, Kansas; Anaheim, California;
Minden, Louisiana; and Bronx, New York

Representatives in all Major Cities

November 6, 1984

Director, Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
Washington, D. C. 10555

INFORMATION COPY

Sir:

In accordance with the requirements of 10 CFR part 21, Ruskin Manufacturing Company, located at 3900 Dr. Greaves Road, Grandview, Missouri 64030, is herewith reporting that we have discovered a deficiency with equipment furnished by Ruskin Manufacturing Company for Nuclear Power Plant application.

On August 7, 1984 Ruskin received a letter from The Waldinger Corporation addressing seven (7) fire dampers failure to close under normal duct pressure at Palo Verde Nuclear Generating Station.

On August 13, 1984 Ruskin visited the jobsite to inspect dampers. The results of the inspection revealed damper condition to exhibit bent blades, bent blade tracks, rust and zinc rich paint on springs.

On August 20, 1984 after Engineering review of inspection results, Ruskin again visited the jobsite for Engineering review of above referenced damper conditions. As a result of this review Ruskin recommended that the blade packages be replaced in the affected fire dampers.

On October 30, 1984, Ruskin was notified, by The Waldinger Corporation, that the new blade packages had been installed and tested. The fire dampers with the newly installed blade packages would still not cycle under normal duct pressure.

Ruskin Engineering immediately began to evaluate the problem to determine the cause of the dampers failure to close under air flow. Results of this evaluation indicated the test methods originally utilized to test dampers under flow may not accurately depict actual installed conditions.

Ruskin fire dampers were tested in accordance with AMCA 500, test figure 5.5, mounted on the face of the test tunnel. Actual installed condition, in ductwork, may not result in proper performance as tested to AMCA. Ruskin, on November 2, and 5 1984, performed air flow tests in accordance with AMCA 500 with damper mounted on face of tunnel as well as with damper mounted in ductwork. The results of this test indicated that face mounted damper would close at much higher static pressure than the damper which was installed in ductwork.

~~811190524~~ 3PP

CONTROL DAMPERS • FIRE DAMPERS • BACKDRAFT DAMPERS • LOUVERS

LASCO DIVISION • LAU DIVISION • MALTA DIVISION • MANUFACTURED HOUSING/RECREATIONAL VEHICLE GROUP • TITUS DIVISION • RUSKIN DIVISION

November 6, 1984
U. S. Nuclear Regulatory Commission -----
Page 2

Since no facility exists to properly test dampers under flow that would simulate all field installed conditions, and relationship between face mounted damper and damper installed in ductwork cannot be accurately calculated, Ruskin recommends that fire dampers supplied with closure springs, which require closure under air flow conditions, be tested to verify proper operation. This condition affects only interlocking blade fire dampers Model IBD-21, IBD-23 and NIBD-23 supplied with closure springs by Ruskin.

Ruskin is currently researching methods to modify fire dampers to ensure closure under air flow.

Attachment I to this letter identifies the affected jobsites by location and the number of units supplied to each.

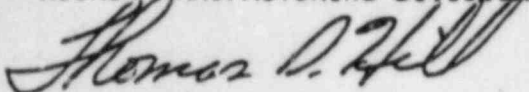
In closing, please find enclosed a copy of the letter describing the situation contained in this letter, which will be sent to each affected site.

If further questions should arise, please contact us at once.

Thank you for your cooperation.

Sincerely,

RUSKIN MANUFACTURING DIVISION



Thomas D. Hill
President

Enclosures: Attachment I
Notification Form Letter

NOTE: For further discussions, questions, or concerns on this matter, please contact:

Richard J. Yarges
Ruskin Manufacturing Division
(816) 761-7476

Attachment I

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Browns Ferry Nuclear Plant Tennessee Valley Authority 400 West Summit Hill Drive Knoxville, Tennessee 27902 11 Units	Maine Yankee Atomic Power Maine Yankee R.R. 2 Box 3270 Wiscusset, Maine 04578 20 Units
Sequoyah Nuclear Plant Tennessee Valley Authority See Above 64 Units	Diablo Canyon Pacific Gas and Electric 77 Beal St. San Francisco, California 94106 19 Units
Watts Bar Nuclear Plant Tennessee Valley Authority See Above 344 Units	Hope Creek Bechtel Construction, Inc. P.O. Box 3965 San Francisco, California 94119 893 Units
Bellefonte Nuclear Plant Tennessee Valley Authority See Above 144 Units	Clinton Zack Company 4600 W. 12th Place Chicago, Illinois 60650 262 Units
Yellow Creek Nuclear Plant Tennessee Valley Authority See Above 204 Units	Midland Zack Company See Above 366 Units
Palo Verde Nuclear Generating Station The Waldinger Corporation P.O. Box 215 Buckeye, Arizona 85326 963 Units	LaSalle Zack Company See Above 106 Units
Turkey Point Florida Power and Light P.O. Box 3088 Florida City, Florida 33034 2 Units	Wm. H. Zimmer Nuclear Power Station Waldinger-Young & Bertke 2601 Bell Avenue Des Moines, Iowa 50321 5 Units
W.P.P.S.S. Unit 1 Bechtel Power Corporation P.O. Box 650 Richland, Washington 99352 303 Units	Waterford #3 Louisiana Power and Light 142 Delaronde St. New Orleans, Louisiana 70174 26 Units

Attachment I

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Quad Cities
Zack Company
4600 W. 12th Place
Chicago, Illinois 60650
19 Units

Morrison Construction
P.O. Box 1130
Hammond, Indiana 46320
4 Units

Perry Nuclear
Robert Irsay
P.O. Box 205
Perry, Ohio 44081
520 Units

Susquehanna
Peabody and Wind Eng. CO.
275 Geiger
Philadelphia, PA. 19115
95 Units

Arkansas Nuclear One
Arkansas Power and Light
P.O. Box 551
Little Rock, Arkansas 72203
144 Units

Monticello
AZCO Inc.
c/o Northern States Power
P.O. Box 655
Monticello, Minnesota 55362
30 Units

Comanche Peak
Texas Utilities
P.O. Box 1002
Glen Rose, Texas
379 Units

South Texas Project
Intermech, Inc.
P.O. Box 2279
Bay City, Texas 77414
153 Units

Indian Point #3
Power Authority of the State of New York
P.O. Box 215
Buchanan, New York 10511
2 Units

D. C. Cook
American Electric Power Service Corp.
P.O. Box 16631
Columbus, Ohio 43216
22 Units

Catawba Nuclear
Bahnsen Service
P.O. Box 384
Clover, South Carolina 29710
421 Units

Millstone
Stone and Webster
P.O. Box 345
Waterford, CT. 06385
17 Units

Duane Arnold
Iowa Electric Light and Power
P.O. Box 351
Cedar Rapids, Iowa 52406
22 Units

Byron Nuclear
American Warming & Ventilating
1310 Indian Wood Circle
Maumee, Ohio 43537
51 Units

Braidwood Nuclear
American Warming & Ventilating
See Above
51 Units

Farley Nuclear
Alabama Power
P.O. Box 2641
Birmingham, Alabama 35291
72 Units

Callaway
Bechtel Power
15740 Shady Grove Rd.
Gaithersburg, Maryland 20877-1454
375 Units

Wolf Creek
Bechtel Power
See Above
355 Units

Attachment I

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Davis Besse
Toledo Edison
300 Madison Avenue
Toledo, Ohio 43652
2 Units

Zion
Commonwealth Edison
P.O. Box 767
Chicago, Illinois 60690
6 Units

Oconee
Mill Power Supply
P.O. Box 32307
Charlotte, North Carolina 28232
2 Units

Oconee
Bahnson Service
P.O. Box 159
Seneca, South Carolina 29678
26 Units

W.P.P.S.S. #2
W.P.P.S.S.
P.O. Box 968
Richland, Washington 99352
14 Units

E. I. Hatch
Bechtel Power
15740 Shady Grove Rd.
Gaithersburg, Maryland 20877-1454
1 Unit

River Bend
Stone and Webster
P.O. Box 5200
Cherry Hill, New Jersey 08034
98 Units

McGuire
Bahnson Service Company
P.O. Box 57
Cornelius, North Carolina 28031
11 Units

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January 22, 1985

Director, Office of Inspection & Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

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Dear Sir:

In accordance with the requirements of Title 10, Chapter 10, Code of Federal Regulations, Part 21, Transamerica Delaval, Inc., hereby notifies the Commission of a potential defect in a component of a DSR or DSRV Standby Diesel Generator. There could exist a potential problem with the Air Filter in the Engine Control Panel.

At Cleveland Electric Perry Nuclear Station, it was recently discovered that the Air Filter for the Engine Control Panel had a polycarbonate transparent bowl. On November 5, 1978 the Filter purchase specification was changed from the polycarbonate transparent bowl to a metal bowl. The polycarbonate bowl is now rated 150 psig at 125°F and the metal bowl is rated 250 psig at 175°F. When the specification was originally issued, the Vendor rated the polycarbonate bowl at 250 psi. The air pressure which the Filter will see in operation cycles between 200 and 250 at room temperature. New metal bowl Filters have been sent to Cleveland Electric to replace the polycarbonate bowls.

We will send copies of this letter to all sites where we furnished the Engine Control Panel with a similar Filter so that the sites can verify that the Filter has a metal bowl.

Transamerica Delaval has supplied the DSR and DSRV Engine with Engine Control Panels to the following sites:

<u>Utility</u>	<u>Site</u>	<u>Serial No.</u>	<u>Model</u>
Middle South Energy	Grandgulf	74033/36	DSRV 16
Gulf States Utilities	River Bend	74039/40	DSR 48
Carolina Power & Light	Shearon Harris	74046/49	DSRV 16
Duke Power Company	Catawba	75017/20	DSRV 16
Southern California Edison	San Onofre	75041/42	DSRV 20
Cleveland Electric Illum.	Perry	75051/54	DSRV 16
TVA	Bellefonte	75080/83	DSRV 16
Washington Public Power	WPPSS 1	75084/85	DSRV 16
Washington Public Power	WPPSS 4	76031/32	DSRV 16
Texas Utilities Services	Comanche Peak	76001/04	DSRV 16
Georgia Power	Vogtle	76021/24	DSRV 16
Consumers Power	Midland	77001/04	DSRV 12
TVA	Hartsville/Phipps		
	Bend	77024/35	DSRV 16
SMLD	Rancho Seco	81015/16	DSR 48

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The Filter is manufactured by the C. A. Nororen Co. of Littleton, Colorado. The Filter is installed in the Engine Control Panel by Transameric Laval.

Our recommendation to eliminate the potential problem is to inspect the Engine Control Panel and to replace the polycarbonate Filter bowl with a metal bowl, if the Filter does not have a metal bowl.

A visual inspection can easily determine if the Filter bowl is transparent polycarbonate.

All parts required to replace the bowl will be furnished as required, on request, and in accordance with each individual contract.

Since action is required by others, we cannot estimate when the corrective action will be completed.

Our evaluation on this potential problem was completed on January 21, 1985.

Very truly yours,

RE Boyer
R. E. Boyer
Manager, Quality Assurance

REB:hw



**Consumers
Power
Company**

James W Cook
Vice President - Projects, Engineering
and Construction

General Offices: 1945 West Parnall Road, Jackson, MI 49201 • (517) 788-0453

December 21, 1984

84-17 #1

Mr J G Keppler, Regional Administrator
US Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, IL 60137

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MIDLAND ENERGY CENTER PROJECT
DOCKET NOS 50-329 AND 50-330
DIESEL FUEL OIL TANK SOILS BORINGS
FILE: 0.4.9.104 SERIAL: 32097

- References:
- 1) Letter, R J Erhardt to H R Denton, Serial 32090, dated November 21, 1984
 - 2) Letter, J E Brunner to ASLB Members, dated December 6, 1984
 - 3) Letter, J A Mooney to H R Denton, Serial 16881, dated May 3, 1982

On November 21, 1984, Consumers Power Company (CP Co) notified your staff of a reportable condition concerning records of soils Borings B-1, B-2, B-3 and B-4. References 1 and 2 provided additional information on this subject. Pending resolution of our request to waive the requirement to submit a written 30-day 50.55(e) report during the project shutdown, we have prepared this interim report on the above subject.

Description of Concern

It has been determined that the data for Borings B-1, B-2, B-3 and B-4 submitted to the NRC by references 3 and 4, presented in the Midland FSAR and in the response to 50.54(f) questions, do not represent the actual borings which were taken at the diesel generator fuel oil tank location.

Reference 2 is attached to provide a description of the situation and the concern raised as to the potential effect on analysis of liquefaction potential of the soils beneath the diesel fuel oil tanks.

Safety Impact

The sole technical issue potentially affected by the invalidity of the previously submitted boring logs B-1 through B-4 relates to the potential

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liquefaction of the sand layer between elevations 600.5' and 603' indicated in boring DF-5. It is our conclusion based on a conservative assessment of available information that the analysis of the liquefaction potential of the soils beneath the diesel fuel oil tanks is inconclusive.

Root Cause

It appears that a combination of events occurred which allowed the use of incorrect boring logs.

1. In June and July of 1977 respectively, the same company (Raymond) made the actual diesel fuel oil tank borings and the borings which were erroneously submitted. The borings which were mistakenly submitted related to an AT&T Project in Midland County that had no relationship to Bechtel or Consumers Power Company. The actual B-1 through B-4 borings at the Midland jobsite were taken to obtain soil samples at the proposed location of the diesel fuel oil tanks.
2. Both boring series were labeled B-1 through B-4 and the soil types, boring depths and taking of Shelby tube samples for the AT&T borings were, in general, similar to other borings taken at the Midland site. The AT&T borings listed the job address as Midland, Michigan.
3. During the Site-wide soils investigation in the spring of 1979, it was determined that boring data was required in the area of the diesel generator fuel oil tanks. Bechtel personnel then recalled that borings had been made there in the summer of 1977. The Bechtel Geotechnical Engineering Group (Geotech), which was not involved in the 1977 borings, asked Project Engineering to provide the boring logs. Project Engineering believed that no drilling logs had been made for the B-1 through B-4 borings at the Midland Site. However, their response to Geotech apparently did not clearly convey this but rather it was understood by Geotech that Project Engineering didn't have any logs and not that they didn't exist. Bechtel speculates that the handwritten drilling logs taken for the AT&T project may have been supplied by the drilling contractor (Raymond) in response to a request by Geotech for logs of the B-1 through B-4 borings taken at the Midland jobsite.
4. In March of 1982 the handwritten B-1 through B-4 drilling logs again surfaced in conjunction with the design of the site dewatering system. The recent Bechtel investigation indicates that one Bechtel employee believed that the handwritten driller's logs did not record borings taken in the area of the diesel fuel oil storage tanks and that there may have been discussions within Bechtel's Geotech group on this matter. Apparently a decision was made based on the available data to include these driller's logs as input to the liquefaction analysis for the buried diesel fuel oil tanks. Subsequently, Consumers Power submitted the handwritten driller's logs to NRC informally and then via reference 3.
5. Bechtel prepared typewritten boring logs from the handwritten driller's logs for inclusion in the June 1982 FSAR submittal. This limited further opportunity to detect from the original driller's logs that they were incorrect

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as to the Midland site location since the original driller's logs were now back in the files. The typed boring log profiles include additional information which is believed to have been obtained from the test records of the borings actually taken at the Midland jobsite, such as the boring coordinates.

It is normal practice for a handwritten boring log to be produced at the time a boring is made. These logs are produced by the technical person overseeing the drilling operation. Information concerning boring locations is entered in the logs by such technical personnel, and thus can be directly traced to the Midland jobsite. In the case of Borings B-1 through B-4, the erroneous logs (ie, the logs of the AT&T borings) contained no location coordinates or other information directly indicating the location of the borings. Instead, the location information obtained from testing data concerning the onsite B-1 through B-4 borings was assumed to be applicable to the logs of the offsite borings. As previously stated, this confusion resulted in logs of the incorrect borings being submitted to the NRC. The absence of location information on the drilling logs traceable to the Midland site is a circumstance unique to Borings B-1 through B-4.

A review of all Bechtel borings included in Section D.1.4 of the Soils 50.54(f) response indicates that borings B-1 through B-4 are the only borings made from a driller's log. All the other borings were produced from handwritten boring logs by a Bechtel Geotechnical Engineer assigned to the drilling. The normal practice of involvement by Geotech personnel would preclude any generic repetition of the unique circumstances of this particular situation.

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Corrective Action

The controls in place at the time of the Project shutdown were adequate to prevent a recurrence of this problem, thus no process corrective action is necessary.

Part corrective action required includes correcting the affected documentation and determining if additional analysis or additional field information is necessary to address the issue of potential liquefaction of soils below the diesel fuel oil tanks.

Because of the Project shutdown, these corrective actions will not be pursued and no further reports on this subject will be made unless the Midland Energy Center is reactivated. This item will be entered in our Correspondence and Commitment Management System for long-term tracking.

James W. Cochran

JWC/JLW/ksa

CC: Document Control Desk, NRC
Washington, DC

EAdensam, NRC Office of NRR
Bethesda, MD

INPO Records Center

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