



Consumers  
Power  
Company

Stephen H. Howell  
Senior Vice President

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

January 26, 1979  
Howe-20-79

Mr J G Keppler, Regional Director  
Office of Inspection and Enforcement  
US Nuclear Regulatory Commission  
Region III  
799 Roosevelt Road  
Glen Ellyn, IL 60137

MIDLAND NUCLEAR PLANT  
UNIT NO 1, DOCKET NO 50-329  
UNIT NO 2, DOCKET NO 50-330  
AIR FILTERING UNITS

In accordance with the requirements of 10 CFR 50.55(e), this letter constitutes an interim report on the status of the discrepancy found in the heater wiring of the air filtering units for the control room.

A description of the discrepancy, potential safety implications, investigation and planned corrective actions are documented in the attachments to this letter.

Another report, either interim or final, will be sent on or before March 9, 1979.

- Attachment: 1. Quality Assurance Program, Management Corrective Action Report, MCAR-1, Report 27, dated December 28, 1978.
2. MCAR-27, Interim Report #1, Air Filtering Units, dated January 12, 1979

CC: Director of Office of Inspection and Enforcement  
Att: Mr John G Davis, Acting Director, USNRC (15)

~~Director of Office of Management~~  
Information and Program Control, USNRC (1)

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QUALITY ASSURANCE PROGRAM  
MANAGEMENT CORRECTIVE ACTION REPORT Attachment 1  
MCAR-1 REPORT NO. Howe-20-79

DB NO. 7220

Q NO. 4.651

DATE 12/28/78

Mine Safety Appliance (P.O. 7220-M-150)

I\* DESCRIPTION (Including references):

vendor of the air filtering units advised Bechtel that they had found a discrepancy in their wiring installed for the heaters of Units OVM-78A and B & OVM 94A & B. MSA should have provided AWG sizes 10 & 8 (per NEC). However, AWG size 12 was installed.

Bechtel initial review did not determine that there was any impact on safety and additional information was requested from MSA. After review of that information together with project criteria, project engineering determined that the deficiency was reportable and MSA was so advised. The deficiency is reportable since the thyristor dose to control room operators could exceed the dose limits specified in

\* RECOMMENDED ACTION (Optional)

1. Take those steps necessary to have the discrepant wiring replaced. (Give schedule date)
2. State what steps the supplier is taking to prevent recurrence.
3. Assure that no other components supplied by MSA are involved.
4. Prepare an interim report and issue to the Project Manager within fifteen days containing all available information together with a statement as to when a complete report will be issued.

REFERRED TO

☒ ENGINEERING

☐ CONSTRUCTION

☐ QA MANAGEMENT

☐ PROCUREMENT

ISSUED BY [Signature] 12/28/78  
Project QA Engineer Date

NOTIFIED CLIENT 12/26/78  
Date

[Signature] 12/26/78  
Project Manager Date

REPORTABLE DEFICIENCY

☐ NO

☒ YES

III CAUSE

CORRECTIVE ACTION TAKEN

AUTHORIZED BY \_\_\_\_\_

Date

STANDARD DISTRIBUTION

ADDITIONAL DISTRIBUTION - AS APPROPRIATE

DIVISION QA MANAGER  
MANAGER OF QA - TPO  
QA MANAGER  
QA MANAGER  
QA SUPERVISOR  
PROJECT MANAGER  
AGENT

ENGINEERING MANAGER  
PROJECT ENGINEER  
QA SUPERVISOR  
  
CONSTRUCTION MANAGER  
PROJ SUFF/PROJ CONSTR MANAGER  
CHIEF CONSTR QC ENGINEER  
  
DIVISION PROCUREMENT MGR  
PROJ PROCUREMENT MGR  
PROCUREMENT SUPPLIER QUALITY MGR  
AND DIV SUPPLIER QUALITY MGR

FORMAL REPORT TO CLIENT  
(If Section II Applies)

Date

CORRECTIVE ACTION IMPLEMENTED

VERIFIED BY \_\_\_\_\_

Project QA Engineer

Date

DESCRIPTION (continued)

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10CFR50 Appendix A General Design Criteria 19, as referenced in FSAR Section 9.4-1,1.1. The dose limit could be exceeded based on reduced efficiency of the charcoal filters due to high relative humidity if the heaters failed to operate. The deficiency in the wire size was due to lack of information on the vendor's fabrication drawing.

## Bechtel Associates Professional Corporation

Attachment to BLC-7018  
Page 1 of 2

SUBJECT:                   MCAR 27 (issued 12/28/78)  
  
                            Air Filtering Units (MR 7220-M-150)  
  
INTERIM REPORT:         1  
  
DATE:                     January 12, 1979  
  
PROJECT:                 Consumers Power Company  
                            Midland Plant Units 1 and 2  
                            Bechtel Job 7220

### Description of Discrepancy

Mine Safety Appliances (MSA), vendor of the air filtering units, has advised us by their letter dated November 11, 1978, that they have found discrepancy in the wiring installed from the control panel to the (See CP Co Note) heaters of units OVM-78A and B and OVM-94A and B. To comply with the heaters, MSA should have provided minimum AWG sizes 10 and 8 (per NEC). Instead, size 12 wire was installed. MSA informed us in their TLX dated December 19, 1978, that this discrepancy was the result of a lack of information on MSA's internal installation drawings. This type of document is not normally subjected to Bechtel review.

### Safety Implications

MSA stated in their TLX dated December 19, 1978, that if this discrepancy had not been detected, the heater could fail to function as a result of overloading of the wires. This failure could result in the charcoal absorber being subjected to high relative humidity air and thereby decrease the absorption efficiency of the charcoal. This decrease in charcoal absorption efficiency of units OVM-8A and B (control room makeup air filter units) could result in the control room operator thyroid dose level to be exceeded as specified in 10 CFR 50, Appendix A General Design Criteria 19, as referenced in FSAR Subsection 9.4.1.1. Failure of the heaters in the fuel handling area exhaust air filter units OVM-94A and B is not considered reportable.

CP Co Note: The stated control panel is a local control panel mounted directly on the housing of the air filtering unit.


# Bechtel Associates Professional Corporation

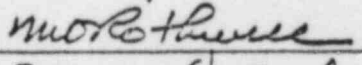
MCAR 27 INTERIM REPORT 1  
Attachment to BLC-7018  
January 12, 1979  
Page 2 of 2

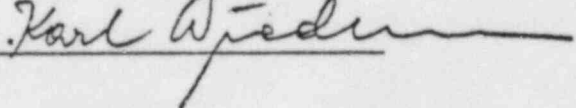
## Corrective Action

MSA proposes to correct the misapplication of wiring by replacing these wires with correct AWG sizes. The retrofit of these units will be done by Bechtel under MSA's supervision. NCR 1733 has been applied to the equipment at the site, and this will be used to follow up and close this item.

MSA has been requested to confirm what steps have been taken to prevent recurrence and to ensure that no other components supplied by MSA are involved.

Submitted by: 

Approved by: 

Concurrence by: 

AA/js  
1/8/5