

Bechtel Associates Professional Corporation

SUBJECT: MCAR 27 (issued 12/28/78)
Air Filtering Units (MR 7220-M-150)

FINAL REPORT

DATE: February 8, 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 a discrepancy in the wiring installed from the local control panel mounted directly on the air filtering unit housing to the heaters of units OVM-78A and B and OVM-94A and B. MSA should have provided minimum AWG sizes 10 and 8 wires to comply with the heater design requirements of NEC. Instead, size 12 wire was installed. MSA informed us in their telex 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 subject to Bechtel review.

Safety Implications

MSA stated in their telex 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 decreasing 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, and 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.

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.

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MCAR 27
FINAL REPORT
February 8, 1979
Page 2

MSA informed us by telex dated January 26, 1979, that to prevent the above discrepancy from recurring on other projects, the applicable electrical schematic drawings will include the necessary wire information. These drawings will be subject to their (MSA's) standard QA review prior to release for fabrication.

MSA also informed us by telex dated January 17, 1979, that the above discrepancy is limited only to the units identified.

Submitted by: *O. Anderson*

Approved by: *[Signature]*

Concurrence by: *Karl Anderson*

AA/js
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