

Bechtel Associates Professional Corporation

SUBJECT: MCAR 28 (issued June 7, 1979)

INTERIM REPORT 2

DATE: July 19, 1979

PROJECT: Consumers Power Company
Midland Plant Units 1 & 2
Bechtel Job 7220

Introduction

This report is an interim report on the course of action required pursuant to MCAR 28 and Bechtel NCR 2176.

Description of Discrepancy

Bechtel field inspection of the installed ESFAS status display light modules on panel 1C14 revealed discrepancies regarding the soldered wire connections as follows:

<u>Switch</u>	<u>Terminal</u>	<u>Problem Description</u>
1SV-0127	G	Not soldered
1SV-0127	G	Loose solder joint
1SV-0127A	C	Cold solder joint
1MO-1257	G	Not soldered
1MO-5336A	A	Not soldered
1MO-0912	G	Wire touch ng movable member

Probable Cause

The supplier provided his assessment of the probable cause and indicated that a specific, detailed inspection plan for soldered connection was not part of the quality assurance program. This resulted in an inadequate inspection of soldered connections. The supplier used a general type procedure which lacked the required amount of detail to assure the level of quality required. The supplier maintains that the number of soldered connections involved indicates the discrepancies are of a random nature.

Corrective Actions

- 1) As requested, Magnetics submitted an inspection and soldering procedure for all soldered items. Bechtel completed the review of these documents and returned them with comments for revision and resubmission. Magnetics is allowed to proceed with the work, provided the changes indicated are incorporated in the subject procedures.

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Bechtel Associates Professional Corporation

MCAR 28
Interim Report-2
July 19, 1979
Page 2

- 2) Magnetics informed Bechtel that 100% reinspection of all soldered wire terminations and connections in the main control boards will be done starting July 9, 1979. Bechtel field quality control (QC) has been informed of this schedule. The amount of discrepancies for all Q-panel work with Magnetics are limited to the main control boards as there are no new Q-panels on order or in the manufacturing cycle.
- 3) The Bechtel Project Supplier Quality Representative (SQR) is scheduled to conduct an inspection and further investigation at the supplier's facilities during the third week of July. All of the removable status display panel modules have been received at Magnetics as reported in Interim Report 1. They will be subjected to 100% reinspection and repair as necessary. In addition, the SQR will determine if any other fabrication/inspection processes are not covered by Magnetics Quality Program.
- 4) Bechtel procurement supplier quality department has issued a Supplier Quality Information Bulletin, SQUB 79-1 dated June 11, 1979, which alerted all supplier quality personnel to be aware of similar type soldering deficiencies from other suppliers. The SQR has been instructed to determine that the supplier has a quality control plan in operation and that adequately trained personnel perform the soldering operation. Results of these in-process inspections will be covered in regular quality surveillance reports.
- 5) Bechtel Procurement Supplier Quality Department (PSQD) and Quality Engineering (QE) has initiated a program to define special processes in selected vendors for additional surveillance. This will include:
 - a. Identification of special processes and vendors
 - b. Performance of quality program verification to verify that the supplier has procedures in place and is implementing them
 - c. Review of the procurement documents and revision to add witness and/or hold points for the identified, selected special processes

457 020

Bechtel Associates Professional Corporation

MCAR 28
Interim Report 2
July 19, 1979
Page 3

- d. Incorporating these actions for future procurements. MEDs 4.55 and 4.49 and appropriate supplier quality procedures will be revised to require these actions.

The schedule for completion:

The aforementioned tasks will be fully scoped and completion dates scheduled by August 31, 1979.

Safety Implication

Because of the indeterminate nature of the possible failure modes and, therefore, the possibility that safety related-circuits may have been rendered inoperable, it is suggested that this problem should be considered reportable under 10 CFR 50.55E.

Submitted by: *[Signature]* 20 JL 79

Approved by: *[Signature]*

Concurrence by: *[Signature]*

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