

Attachment II

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NUCLEAR PROJECT NO. 2
DOCKET NO. 50-397
LICENSE NO. CPPR-93
10CFR50.55(e) CONDITION #64
PLANT ELECTRICAL SEPARATION

FINAL REPORT

Description of Deficiency

As a result of a QA program breakdown between GE (Contract 002) and Fischbach Lord (Contract 218), approximately 150 instances involving violations in the application of the WNP-2 Electrical Separation Criteria to safety related cables and panel wiring in the control room were discovered.

Safety Implication

The deficiencies found could have resulted, under single failure conditions, in the simultaneous loss of redundant safety-related equipment with possible subsequent loss of safety function.

The condition was, therefore, concluded to be a reportable deficiency under 10CFR50.55(e).

Cause of the Deficiency

QA program breakdown between General Electric and Fischbach/Lord, due to each thinking the other organization was to implement the QA/QC program requirements necessary to effect PGCC installation.

Corrective Action

A 100% inspection of the PGCC was performed by Supply System Test and Startup in September 1982. All deficiencies were provided to Burns and Roe. Project Engineering Directive (PED) 218-E-A405 and FDDR-KK1-935 were issued to correct the deficiencies identified by the 100% inspection of the PGCC.

Action to Prevent Recurrence

The Supply System has implemented the following actions to provide corrective action in regard to the QA program breakdown between Contract 002 and Contract 218.

- Corrective Action Request (CAR) 1437 was issued to Contract 218 documenting the QA program breakdown. All remedial action has been completed and CAR 1437 is closed.
- Corrective Action Request (CAR) 1439 was issued to Contract 002 documenting their QA program breakdown. All remedial action has been completed and CAR 1439 is closed.
- Stop Work Order #7 was issued to stop work in the control room until a corrective action plan (CAR's 1437 and 1439) could be developed and implemented. Stop Work Order #7 has been lifted.
- Reinspections were performed on PGCC routing and cable identification to provide cable routing of the PGCC. PED-218-E-A405 and FDDR-KK1-935 have been issued to correct deficiencies identified during the reinspection.

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- Contract 218 is no longer performing installation and inspection activities related to PGCC.
- Contract 002 is no longer directing PGCC installation, but they are still providing engineering direction for the NSSS portion of PGCC. Burns and Roe is providing engineering direction for the BOP portion of PGCC.
- Supply System Test and Startup is performing all installation and modification work to the PGCC using Bechtel Power Corporation crafts and procedures.
- The Bechtel procedures used for PGCC installation and modification work incorporate necessary inspection and installation criteria to ensure proper installation of PGCC.

The Project feels that all remedial corrective action and action to prevent recurrence has been taken. The assignment of Bechtel Power Corporation under the direction of Supply System Startup, for rework/reinspection and future work, will preclude recurrence.

Status of Corrective Action

1979 Task Force Separation Study PED's

218-E-2111 - Voided by PED 218-E-3060
218-E-1725 - Construction Action Completed
218-E-2155 - Field Work in Progress
218-E-0051 - Field Work in Progress
218-E-2362 - Field Work in Progress - Revised by PED 218-E-2582 & 2685
218-E-2209 - Construction Action Completed
218-E-0044 - Field Work in Progress
218-E-2090 - Field Work in Progress - Revised by PED 218-E-1952
218-E-2198 - Construction Action Completed
235-E-0062 - Field Work in Progress
218-E-2213 - Voided by PED 218-E-2403
218-E-2222 - Field Work in Progress
218-E-4869 - Construction Action Completed
218-E-3053 - Construction Action Completed
218-E-3479 - Construction Action Completed
218-E-3153 - Completed
218-E-2858 - Field Work in Progress
218-E-3532 - Completed
218-E-3530 - Field Work Not Started
218-E-3046 - Construction Action Completed
218-E-3750 - Construction Action Completed

Task 3670 Separation PED's (Compliance to Section 8.3 FSAR Amendment 23)

218-E-4247 - Completed
218-E-4490 - Construction Action Completed
218-E-4587 - Construction Action Completed
218-E-4599 - Field Work in Progress
218-E-4633 - Construction Action Completed
218-E-4656 - Construction Action Completed
218-E-4702 - Completed
218-E-4780 - Construction Action Completed
218-E-4789 - Completed
218-E-4824 - Completed
218-E-4836 - Field Work Not Started

218-E-4837 - Completed
218-E-4840 - Field Work Not Started
218-E-4841 - Field Work Not Started
218-E-4855 - Field Work in Progress
218-E-4888 - Completed
218-E-4902 - Completed
218-E-4951 - No Construction Work Required
218-E-A083 - Completed
218-E-A141 - Completed
218-E-A222 - Voided by PED 218-E-A558
218-E-A405 - Field Work in Progress
218-E-A527 - Field Work in Progress
218-E-A274 - Field Work in Progress
218-E-A304 - Completed
218-E-A670 - Field Work not Started
218-E-A725 - Completed
218-E-2237 - Field Work in Progress - Revised by PED 218-E-2644
218-E-2252 - Field Work in Progress
218-E-2129 - Construction Action Completed
218-E-0153 - Construction Action Completed
218-E-2257 - Field Work in Progress - Revised by PED 218-E-1954
218-E-2248 - Field Work in Progress - Revised by PED-218-E-2959, 4765, &
5155
218-E-2278 - Construction Action Completed
218-E-2309 - Voided by PED-218-E-2973
218-E-2439 - Field Work in Progress
218-E-2413 - Completed
218-E-2385 - Construction Action Completed
235-E-0055 - Construction Action Completed
218-E-1816 - Construction Action Completed
218-E-2199 - Construction Action Completed
218-E-2395 - Completed
218-E-1953 - Construction Action Completed
218-E-1951 - Construction Action Completed
218-E-2020 - Field Work in Progress
218-E-2011 - Construction Action Completed
218-E-2031 - Construction Action Completed
218-E-2038 - Completed
218-E-2036 - Field Work Not Started
218-E-1983 - Field Work Not Started
218-E-2040 - Construction Action Completed
218-E-1715 - Construction Action Completed
218-E-1954 - Construction Action Completed
218-E-1961 - Construction Action Completed
218-E-2110 - Construction Action Completed
218-E-2343 - Voided by PED 218-E-3154
218-E-2669 - Construction Action Completed
218-E-2390 - Voided by PED 218-E-4536
218-E-1648 - Completed
218-E-1650 - Voided by PED 218-E-2278
218-E-1685 - Construction Action Completed
218-E-1720 - Construction Action Completed
218-E-1649 - Construction Action Completed
218-E-1716 - Field Work in Progress
218-E-1768 - Construction Action Completed
218-E-1795 - Construction Action Completed
218-E-1759 - Completed

235-E-0057 - Construction Action Completed
235-E-0500 - Construction Action Completed
218-E-1653 - Construction Action Completed
218-E-1904 - Field Work Not Started - Revised by PED-E-2383 & 3757
218-E-1778 - Field Work in Progress
218-E-1714 - Field Work in Progress - Revised by PED 218-E-2358
218-E-1713 - Field Work in Progress
235-E-0063 - Construction Action Completed
218-E-1690 - Construction Action Completed
218-E-2967 - Field Work in Progress
218-E-3085 - Completed
218-E-4829 - Construction Action Completed