



Entergy

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IPN-01-073

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
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Washington, DC 20555-0001

SUBJECT: Indian Point 3 Nuclear Power Plant
Docket No. 50-286
License No. DPR-64
10 CFR 21 Final Report
Failure During Post Installation Testing of Replacement Governor Manufactured
by Woodward Governor and Refurbished by Engine Systems, Inc.

References: 1. Entergy Letter IPN-01-052, "10 CFR 21 Interim Report Failure During Post Installation Testing of Replacement," dated July 9, 2001

Dear Sir:

An Interim Report was submitted, Reference 1, in accordance with 10 CFR 21(a)(2) to address a potentially reportable equipment failure. A replacement governor installed on the 32 Emergency Diesel Generator (EDG) failed during post installation testing. The governor was returned to Engine Systems Inc. (ESI) for failure analysis to determine if there was a deviation that would make the failure a reportable defect. The ESI failure analysis did not establish the cause of the failure during post installation testing. Entergy discussed this analysis with ESI. Twice different people using the required specification tested the governor. The testing included operation for a full day and at elevated temperature. The testing did not duplicate the instability. The governor was disassembled and inspected. The problems found and reported previously on this governor did not exist and no other potential cause was identified. Accordingly, Entergy and ESI concluded that no specific corrective action could be identified and that any similar failure in the future should be evaluated for trends. The final report reflecting this conclusion is attached.

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Entergy is making no new commitments in this letter. If you have any questions regarding this submittal, please contact Mr. J. Donnelly.

Very truly yours,



Robert J. Barrett
Vice President, Operations
Indian Point 3 Nuclear Plant

cc: Mr. Hubert J. Miller
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10 CFR 21 Report

1. Name and Address

Mr. Robert J. Barrett - Vice President, Operations
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Buchanan, N.Y. 10511

2. Facility, Activity or Component

Indian Point 3 Nuclear Power Plant (IP3)

The component was a Woodward Governor Part No. 9903-152, type EGB-13C, Serial No. 1165395.

The governor was supplied refurbished to the Public Service Electric and Gas (PSE&G) Salem Station by Engine Systems, Inc. under purchase order P3 0934734 1180 0000. IP3 subsequently purchased the governor from Salem Station.

3. Constructor or Supplier

Engine Systems, Inc.
1220 S. Washington St.
Rocky Mount, NC 27801

4. Defect and Safety Hazard

A replacement governor was installed in the 32 Emergency Diesel Generator (EDG) during the EDG eight year preventive maintenance (PM). On May 11, 2001, the governor worked satisfactorily during initial start, set up and compression checks at 1,750 KW following the eight year PM. During the May 11, 2001, 8 hour surveillance run at 1,950 KW the governor began to oscillate between 1,950 and 1,850 KW and was unstable. The load was reduced and the engine shut down. Troubleshooting did not identify the failure mechanism. The governor was removed from the EDG and returned to Engine Systems, Inc. for failure evaluation on May 30, 2001. The failure evaluation did not establish the cause of the instability.

The governor is used to control the EDG and failure would be expected to affect the ability of the 32 EDG to provide emergency electrical power when called upon. This could have caused the failure of safety related systems under certain postulated accidents with a loss of offsite power. Therefore, a substantial safety hazard existed in that the potential existed for a significant degradation of essential safety related equipment.

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5. Date

The failure was discovered May 11, 2001. A 10 CFR 21 report by Engine Systems, Inc. dated March 6, 2001, reported a generic defect in a number of Woodward governors worked on by a single individual. The governor installed at IP3 was not one of the seven identified in the Part 21 report as one of concern. An evaluation under 10 CFR 21 was initiated on May 21, 2001.

6. Location and Number of Defective Components

This condition was limited to the governor installed on 32 EDG.

7. Corrective Action

The original governor, removed for scheduled preventive maintenance, was reinstalled and tested.

No corrective action was identified from the failure evaluation.