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William Steelman Licensing Manager Waterford 3

W3F1-2011-0024

March 17, 2011

U.S. Nuclear Regulatory Commission Attn: Document Control Desk Washington, DC 20555

SUBJECT: Special Report SR-11-001-00, Plant Stack Wide Range Gas Monitor PRM-IRE-0110 Inoperable for Greater Than 7 Days Waterford Steam Electric Station, Unit 3 Docket No. 50-382 License No. NPF-38

Dear Sir or Madam:

Attached is Special Report Number SR-11-001-00 for Waterford Steam Electric Station Unit 3. This Special Report is submitted per 10CFR50.36(c)(2) and Technical Specifications 3.3.3.1 and 6.9.2.

If you have any questions concerning this submittal, please contact William Steelman at (504) 739-6685.

There are no new commitments contained in this submittal.

Sincerely,

WJS/RJP

Attachment:

: Special Report SR-11-001-00



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cc: Mr. Elmo E. Collins, Jr. Regional Administrator U. S. Nuclear Regulatory Commission Region IV 612 E. Lamar Blvd., Suite 400 Arlington, TX 76011-4125

> NRC Senior Resident Inspector Waterford Steam Electric Station Unit 3 P.O. Box 822 Killona, LA 70066-0751

U. S. Nuclear Regulatory Commission Attn: Mr. N. Kalyanam Mail Stop O-07D1 Washington, DC 20555-0001 Attachment

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Special Report SR-11-001-00

(Attachment contains 2 pages)

SPECIAL REPORT SR-11-001-00

Plant Stack Effluent Accident Wide Range Gas Monitor Inoperable Greater Than 7 Days

At 19:49 hours on February 28, 2011, Waterford Steam Electric Station Unit 3 was operating at approximately 84.4% reactor power when Operations personnel declared the Plant Stack Wide Range Gas Monitor (WRGM), PRM-IRE-0110, inoperable. In accordance with Technical Specification 3.3.3.1 Action 27, Health Physics personnel implemented the preplanned alternate method for monitoring plant stack effluent gas. Since the monitor could not be returned to service within 7 days, this report is submitted pursuant to Technical Specification 3.3.3.1 and 6.9.2. In accordance with TS 3.3.3.1 Action 27, if the monitor is not restored to operable status within 7 days, a special report is to be prepared and submitted to the Commission outlining the action taken, the cause of the inoperability, and the plans and schedule for restoring the system to operable status. The contents of this report contain this information.

PRM-IRE-0110 was declared operable at 16:56 on March 10, 2011, which resulted in 9.88 days of inoperability. Since HP personnel were implementing an alternate method of monitoring plant stack activity and the probability of an accident which would require use of the monitor was extremely low during the period, the inoperability of the WRGM did not pose a health hazard to the general public.

NARRATIVE

At 19:49 hours on February 28, 2011, Operations declared the Plant Stack Wide Range Gas Monitor (WRGM), PRM-IRE-0110 inoperable so that a channel calibration could be performed. Technical Specification (TS) Surveillance 4.3.3.1 requires a channel calibration on this instrument loop at an 18 month frequency. In accordance with TS 3.3.3.1 Action 27, Health Physics (HP) personnel implemented the preplanned alternate method for monitoring plant stack effluent gas.

Maintenance personnel utilized Work Order 52272682 and procedure MI-003-383, "Plant Stack Vent Wide Range Gas Monitor Channel Calibration PRMIR0110" to perform the calibration.

The following faults were discovered during the scheduled calibration check:

- Faulty CPU board,
- Erratic relay output (24VDC), and
- High Range detector check source was not responding.

Extensive troubleshooting was needed to determine the cause for the above faults. As a result, the monitor was not returned to service within 7 days. Waterford 3 Condition Report CR-WF3-2011-1249 was issued to address the failure to restore the monitor to operation within 7 days.

The cause for the erratic relay output and the non-responding High Range detector check source was determined to be high resistance connections from loose wiring and oxidation on relay contact's pins/sockets.

The following actions were taken to restore the monitor to operation:

- Replaced the CPU-Circuit Board,
- Terminated / tightened loose connection on the High Range Detector Power Supply,
- Cleaned relay pins and sockets on microprocessor Motherboard, and
- Completed Channel Calibration and Functional Test with satisfactory results.

Operations declared the Plant Stack Wide Range Gas Monitor (WRGM), PRM-IRE-0110 operable at 16:56 hours on March 10, 2011. The total time of inoperability was 9.88 days.

PLANT CONTACT

S. W. Meiklejohn, I&C Maintenance Superintendent (504) 464-3221