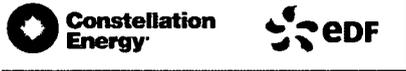


CENGSM

a joint venture of



P.O. Box 63
Lycoming, NY 13093

NINE MILE POINT
NUCLEAR STATION

June 28, 2011

U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

ATTENTION: Document Control Desk

SUBJECT: Nine Mile Point Nuclear Station
Unit No. 1; Docket No. 50-220

Reactor Pressure Vessel Head Weld Flaw Evaluation

In accordance with the requirements of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI, Subsection IWB-3610 (2004 Edition), Nine Mile Point Nuclear Station, LLC (NMPNS) is submitting for NRC staff review and approval the attached structural flaw evaluation of a subsurface flaw indication found in a Nine Mile Point Unit 1 reactor pressure vessel (RPV) closure head weld.

Ultrasonic examinations performed during the 2011 refueling outage (RFO21) identified a subsurface flaw indication in weld RV-WD-001, located between the head flange and the closure head. The indication was characterized in accordance with ASME Section XI, Subsection IWA-3320 and Figure IWA-3320-1, as a subsurface planar flaw. Supplemental inspections and reviews conducted by NMPNS provide reasonable assurance that the flaw indication is related to original fabrication and is not service induced.

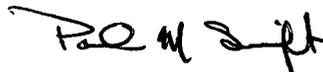
Flaw characteristic calculations were performed to determine acceptability on the basis of ASME Section XI, Subsection IWB-3500, Paragraph IWB-3510.1. The flaw was initially dispositioned as unacceptable. Further analytic evaluation, performed in accordance with Subsection IWB-3600, demonstrates that the weld containing the flaw is acceptable for continued service. The calculation provided in the Attachment documents the closure head weld flaw evaluation.

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NRR

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June 28, 2011
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This letter contains no new regulatory commitments. Should you have any questions regarding the information in this submittal, please contact John J. Dosa, Director Licensing, at (315) 349-5219.

Very truly yours,

A handwritten signature in black ink, appearing to read "Paul M. Swift". The signature is written in a cursive style with a long horizontal stroke at the end.

Paul M. Swift
Manager Engineering Services

PMS/DEV

Attachment: Nine Mile Point Unit 1 – Calculation S0VESSELM035 (SIA File No. 1100566.301),
Reactor Pressure Vessel Head Flaw Evaluation, Revision 00.00

cc: Regional Administrator, Region I, NRC
Project Manager, NRC
Resident Inspector, NRC