

CATEGORY 1

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 CONWAY, J.T. Niagara Mohawk Power Corp.
 RECIP.NAME RECIPIENT AFFILIATION
 Document Control Branch (Document Control Desk)

See Reports

SUBJECT: Forwards non-proprietary & proprietary calculations & repts documenting neutron fluence measurements performed on NMP Unit 1 core shroud vertical weld V9 & V10 boat samples matl. Proprietary info withheld, per 10CFR2.790.

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NIAGARA MOHAWK

GENERATION
BUSINESS GROUP

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JOHN T. CONWAY
Vice President
Nuclear Engineering

January 30, 1998
NMP1L 1283

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

RE: Nine Mile Point Unit 1
Docket No. 50-220
DPR-63

Subject: Core Shroud Vertical Weld Fluence Measurements

Gentlemen:

Niagara Mohawk Power Corporation (NMPC) stated in its letter dated November 20, 1997 that the results of the additional tests (Electrochemical Potentiokinematic Reactivation (EPR) testing, tensile testing, and fracture toughness testing) being performed on the Nine Mile Point Unit 1 (NMP1) Core Shroud Boat Samples would be provided by January 30, 1998. This testing is in addition to the metallography tests committed to, and satisfied by earlier correspondence (letter of September 30, 1997, NMP1L 1254). The testing is designed to provide a better understanding of all of the mechanisms believed to be influencing the core shroud vertical weld cracking. NMPC has not yet completed all of the additional tests. However, the attached reports document the neutron fluence measurements performed on the NMP1 core shroud vertical weld V9 and V10 boat sample material. The measured peak fluence at the V9 shroud inside diameter (ID) is 3.088×10^{20} n/cm². The NMP1 core shroud vertical weld analysis estimated a peak ID fluence for V9 at 4×10^{20} n/cm². The boat sample fluence measurement results confirm the conservatism of the fluence estimates used by NMP1.

NMPC is performing further evaluations of the shroud fluence measurement results as a result of recent work regarding the reactor vessel material surveillance program and associated dosimetry results for samples removed from the reactor in March 1997. An update to the neutron flux spectrum previously evaluated in 1985 is planned in order to reflect as accurately as possible any changes in core design and resulting neutron leakage that may have occurred since that time. The results of this analysis will be reviewed for possible impact on the shroud fluence analysis being reported in this submittal.

Change: Ltr Encl

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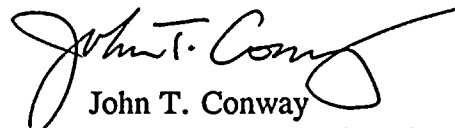
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The results of the boat sample EPR testing and the tensile specimen testing is nearing completion. NMPC will submit the results of this testing by February 27, 1998. The expected schedule for further fracture toughness testing of the shroud materials and for the completed evaluation of the shroud fluence measurement results will be provided in the February 27, 1998 submittal.

To assist in your review, included as an attachment is the Framatone Technologies, Inc. (FTI) document 86-1266298-00, "Fluence Analysis Report for Boat Samples - Nine Mile Pt. 1." This report calculates the time-average fast flux and corresponding fluence for boat samples V9 and V10. It also estimates the uncertainty in the results. In accordance with 10CFR2.790, FTI document 86-1266298-00, "Fluence Analysis Report for Boat Samples - Nine Mile Pt. 1" (Attachment 1) is considered proprietary by FTI and it is therefore requested on behalf of FTI that this information be withheld from public disclosure. Attachment 2 is an affidavit supporting this classification signed by Mr. J. J. Kelly, Manager, B&W Owners Group Services, Framatone Technologies, Inc. Attachment 3 is a non-proprietary copy of the FTI report. Attachment 4 is a copy of McDermott Technology, Inc. report RDD:98:55863-003-000:02, Nine Mile Point Unit 1 Boat Sample Analyses Part II: Dosimetry. This report documents the dosimetry-specific activity measurements for the core shroud boat sample and was used as an input to the FTI report.

Very truly yours,



John T. Conway
Vice President - Nuclear Engineering

JTC/TRE/lmc

xc: Mr. H. J. Miller, Regional Administrator, Region I
Mr. A. W. Dromerick, Acting Director, Project Directorate I-1, NRR
Mr. B. S. Norris, Senior Resident Inspector
Mr. D. S. Hood, Senior Project Manager, NRR
Records Management

AFFIDAVIT OF JOSEPH J. KELLY

- A. My name is Joseph J. Kelly. I am Manager of B&W Owners Group Services for Framatome Technologies, Inc. (FTI), and as such, I am authorized to execute this Affidavit.
- B. I am familiar with the criteria applied by FTI to determine whether certain information of FTI is proprietary and I am familiar with the procedures established within FTI to ensure the proper application of these criteria.
- C. In determining whether an FTI document is to be classified as proprietary information, an initial determination is made by the Unit Manager, who is responsible for originating the document, as to whether it falls within the criteria set forth in Paragraph D hereof. If the information falls within any one of these criteria, it is classified as proprietary by the originating Unit Manager. This initial determination is reviewed by the cognizant Section Manager. If the document is designated as proprietary, it is reviewed again by me to assure that the regulatory requirements of 10 CFR Section 2.790 are met.
- D. The following information is provided to demonstrate that the provisions of 10 CFR Section 2.790 of the Commission's regulations have been considered:
- (i) The information has been held in confidence by FTI. Copies of the document are clearly identified as proprietary. In addition, whenever FTI transmits the information to a customer, customer's agent, potential customer or regulatory agency, the transmittal requests the recipient to hold the information as proprietary. Also, in order to strictly limit any potential or actual customer's use of proprietary information, the substance of the following provision is included in all agreements entered into by FTI, and an equivalent version of the proprietary provision is included in all of FTI's proposals:



AFFIDAVIT OF JOSEPH J. KELLY (Cont'd.)

"Any proprietary information concerning Company's or its Supplier's products or manufacturing processes which is so designated by Company or its Suppliers and disclosed to Purchaser incident to the performance of such contract shall remain the property of Company or its Suppliers and is disclosed in confidence, and Purchaser shall not publish or otherwise disclose it to others without the written approval of Company, and no rights, implied or otherwise, are granted to produce or have produced any products or to practice or cause to be practiced any manufacturing processes covered thereby.

Notwithstanding the above, Purchaser may provide the NRC or any other regulatory agency with any such proprietary information as the NRC or such other agency may require; provided, however, that Purchaser shall first give Company written notice of such proposed disclosure and Company shall have the right to amend such proprietary information so as to make it non-proprietary. In the event that Company cannot amend such proprietary information, Purchaser shall prior to disclosing such information, use its best efforts to obtain a commitment from NRC or such other agency to have such information withheld from public inspection.

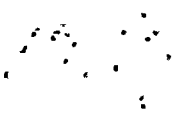
Company shall be given the right to participate in pursuit of such confidential treatment."



AFFIDAVIT OF JOSEPH J. KELLY (Cont'd.)

(ii) The following criteria are customarily applied by FTI in a rational decision process to determine whether the information should be classified as proprietary. Information may be classified as proprietary if one or more of the following criteria are met:

- a. Information reveals cost or price information, commercial strategies, production capabilities, or budget levels of FTI, its customers or suppliers.
- b. The information reveals data or material concerning FTI research or development plans or programs of present or potential competitive advantage to FTI.
- c. The use of the information by a competitor would decrease his expenditures, in time or resources, in designing, producing or marketing a similar product.
- d. The information consists of test data or other similar data concerning a process, method or component, the application of which results in a competitive advantage to FTI.
- e. The information reveals special aspects of a process, method, component or the like, the exclusive use of which results in a competitive advantage to FTI.
- f. The information contains ideas for which patent protection may be sought.



AFFIDAVIT OF JOSEPH J. KELLY (Cont'd.)

The document(s) listed on Exhibit "A", which is attached hereto and made a part hereof, has been evaluated in accordance with normal FTI procedures with respect to classification and has been found to contain information which falls within one or more of the criteria enumerated above. Exhibit "B", which is attached hereto and made a part hereof, specifically identifies the criteria applicable to the document(s) listed in Exhibit "A".

- (iii) The document(s) listed in Exhibit "A", which has been made available to the United States Nuclear Regulatory Commission was made available in confidence with a request that the document(s) and the information contained therein be withheld from public disclosure.
- (iv) The information is not available in the open literature and to the best of our knowledge is not known by ABB CE, EXXON, General Electric, Westinghouse or other current or potential domestic or foreign competitors of FTI.
- (v) Specific information with regard to whether public disclosure of the information is likely to cause harm to the competitive position of FTI, taking into account the value of the information to FTI; the amount of effort or money expended by FTI developing the information; and the ease or difficulty with which the information could be properly duplicated by others is given in Exhibit "B".

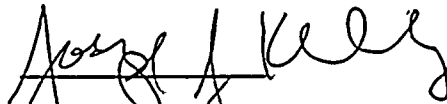
E. I have personally reviewed the document(s) listed on Exhibit "A" and have found that it is considered proprietary by FTI because it contains information which falls within one or more of the criteria enumerated in Paragraph D, and it is information which is customarily held in confidence and protected as proprietary information by FTI. This report comprises



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AFFIDAVIT OF JOSEPH J. KELLY (Cont'd.)

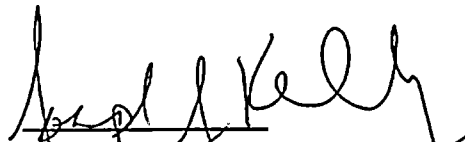
Information utilized by FTI in its business which afford FTI an opportunity to obtain a competitive advantage over those who may wish to know or use the information contained in the document(s).



JOSEPH J. KELLY

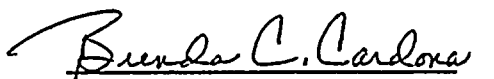
State of Virginia))
City of Lynchburg) SS. Lynchburg

Joseph J. Kelly, being duly sworn, on his oath deposes and says that he is the person who subscribed his name to the foregoing statement, and that the matters and facts set forth in the statement are true.



JOSEPH J. KELLY

Subscribed and sworn before me
this 28th day of January 1998.



Notary Public in and for the City
of Lynchburg, State of Virginia.

My Commission Expires July 31, 1999



EXHIBITS A & B

EXHIBIT A

FTI Document No. 86-1266298-00, "Fluence Analysis Report for Boat Samples – Nine Mile Point Unit 1," 1/27/98.

EXHIBIT B

The above listed document contains information which is considered Proprietary in accordance with Criteria c and e of the attached affidavit.

