

October 1, 2004

MEMORANDUM TO: Laura A. Dudes, Section Chief
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Division of Regulatory Improvement Programs, NRR

FROM: Michael L. Scott, Senior Project Manager /RA/
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New, Research and Test Reactors Program
Division of Regulatory Improvement Programs, NRR

SUBJECT: SUMMARY OF AUGUST 24 AND 26, 2004, TELEPHONE
CONFERENCE CALLS WITH DOMINION NUCLEAR NORTH ANNA,
LLC REGARDING SITE DISPERSION CHARACTERISTICS AND
REFERENCES TO PLANT PARAMETERS IN DOMINION'S
NORTH ANNA EARLY SITE PERMIT (ESP) APPLICATION

On Tuesday, August 24, 2004, and Thursday, August 26, 2004, telephone conference calls were held among representatives of Dominion Nuclear North Anna, LLC (Dominion) and the Nuclear Regulatory Commission (NRC) staff. A list of participants is attached. The purpose of the conferences, which were held at the request of the NRC staff, was to discuss site atmospheric dispersion parameters (χ/Q) as described in Dominion's North Anna ESP application and in its responses to staff requests for additional information on the subject. The discussion also addressed use of references to particular reactor designs in the ESP application.

During the August 24 conference, the staff asked Dominion to clarify its discussion of χ/Q . Dominion representatives stated that they have created a new table, to be provided in an upcoming revision to the ESP application, which will clearly define site characteristics, including those for χ/Q . They also indicated that the χ/Q values in Table 1.3-1 of the application are assumed values obtained from vendors for certain reactor designs discussed in the ESP application. The staff asked why these values are provided since they are not used in support of the applicant's safety case. Dominion replied that the values were there for the staff's and public's information.

The staff also discussed the fact that the ESP application, while referring to the AP1000 design, does not contain the latest AP1000 design values. Also, while the application refers to the Advanced Boiling Water Reactor (ABWR) design, it uses characteristics different from the ABWR design certified in 10 CFR Part 52, Appendix A, because Dominion has chosen to assume a higher thermal power for the ABWR than was certified. Dominion replied that they had chosen their course of action in this area deliberately since Dominion believes the information provided for the designs consists of plant parameters subject only to a "reasonableness" standard at the ESP stage.

L. Dudes

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The participants agreed to a follow-up phone conference, at which Dominion would verify whether the source term used in the ESP application for the ABWR was scaled up from the certified values based on Dominion's choice to use a higher assumed power level for the ABWR. The participants also agreed to further discuss the appropriateness of the χ/Q values provided in Table 1.3-1.

The second conference was held on August 26, 2004. Dominion confirmed that the ABWR source term values used in the application had been scaled up consistent with the higher assumed power level. With regard to the χ/Q information in Table 1.3-1, the staff stated that it did not plan to review such information but would rely on the site characteristics provided elsewhere in the application. The staff intends to state in its safety evaluation report that the information was noted but was not reviewed because the staff did not deem the information necessary for or pertinent to the staff's safety findings.

Docket No. 52-008

Attachment: As stated

cc w/att: See next page

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DATE	9/13/04	9/1/04	9/22/04	10/1/04

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AUGUST 24 AND 26, 2004
TELEPHONE CONFERENCE CALL SUMMARY
LIST OF PARTICIPANTS

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W. Hickerson (Bechtel)

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