

SENSITIVE - NOT FOR PUBLIC DISCLOSURE

November 29, 2004

Dennis Koehl  
Site Vice President  
Point Beach Nuclear Plant  
Nuclear Management Company, LLC  
6610 Nuclear Road  
Two Rivers, WI 54241-9516

SUBJECT: POINT BEACH NUCLEAR PLANT, UNITS 1 & 2, RE: FINAL ACCIDENT  
SEQUENCE PRECURSOR ANALYSIS OF OCTOBER 2002 OPERATIONAL  
CONDITION

Dear Mr. Koehl:

Enclosed for your information is the final Accident Sequence Precursor (ASP) analysis of an adverse condition which was identified at Point Beach Nuclear Plant (PBNP), Units 1 & 2 in October 2002. This condition involved a design deficiency in the flow-restricting orifices in the auxiliary feedwater (AFW) pumps' recirculation lines. It is described in Nuclear Regulatory Commission (NRC) Inspection Reports No. 50-266/02-015 and 50-301/02-015, dated April 2, 2003, and documented in LER 266/02-003, Revision 1, dated October 10, 2003.

The risk significance associated with this condition was a Yellow finding under the Significance Determination Process (SDP) for PBNP, Unit 1 and a Red finding for PBNP, Unit 2. This condition was determined to be of high safety significance in accordance with the SDP as documented in the final significance determination for this issue, Enforcement Action 03-059. The ASP analysis calculated a mean change in core damage probability ( $\Delta CDP$ ) of  $6.0 \times 10^{-5}$  for PBNP, Unit 1 and  $3.6 \times 10^{-4}$  for PBNP, Unit 2. The results of the final ASP analysis indicate that this condition is an accident precursor (i.e., a condition which results in a change in conditional core damage probability ( $CCDP$ )  $> 1 \times 10^{-6}$ ).

For the October 2002 condition, the findings in the ASP analysis (change in CCDP and dominant risk contributors) are consistent with those in the SDP. Since this ASP analysis confirms the results of the final significance determination, which has been reviewed by the NRC staff and Nuclear Management Company, LLC, it is being issued as a final product for information only. In the past, preliminary versions of all ASP analyses were issued for internal peer review by the NRC staff and for external peer review by the licensee. Comments received from these reviews were then resolved as part of the final analysis. To increase efficiency, we are now issuing the "noncontroversial" ASP analyses as final documents.

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The NRC staff is continuing to review the appropriate classification of these documents within our records management, considering changes in our practices following the events of September 11, 2001. Using our interim guidance, the enclosed analysis have been marked as "Sensitive Information" in accordance with Section 2.390 of Title 10 of the *Code of Federal Regulations*. Please control the document accordingly (i.e., treat the document as if you had determined that it contained trade secrets and commercial or financial information that you considered privileged or confidential). The NRC staff will inform you if the classification of the document changes as a result of our ongoing assessments.

If you have any questions regarding the analysis, please contact me at 301-415-4018.

Sincerely,

**/RA/**

Harold K. Chernoff, Project Manager, Section 1  
Project Directorate III  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket Nos. 50-266 and 50-301

Enclosure: As stated (Sensitive)

cc w/o encl: See next page

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Point Beach Nuclear Plant, Units 1 and 2

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