

April 24, 2006

MEMORANDUM TO: John T. Larkins, Executive Director
Advisory Committee on Reactor Safeguards

FROM: David B. Matthews, Director /RA/
Division of New Reactor Licensing
Office of Nuclear Reactor Regulation

SUBJECT: ACRS REVIEW OF THE EXELON EARLY SITE PERMIT
APPLICATION - FINAL SAFETY EVALUATION REPORT
CHANGED PAGES PRIOR TO PUBLICATION AS A NUREG

By letters dated March 24 and April 12, 2006, Exelon Generation Company (EGC) LLC, requested that the NRC staff review EGC's revised analysis for determining the probable maximum flood (PMF) elevation at Clinton Lake for the EGC early site permit (ESP) site. EGC also requested that the NRC staff consider adopting EGC's revised PMF elevation as the site characteristic in the NRC staff's final safety evaluation report (FSER) prior to issuing the FSER as a NUREG report.

On April 14, 2006, EGC issued Revision 4 to the EGC ESP application. The changes reflected in Revision 4 of the application included revisions to the tables, figures, and text in Section 2.4 to capture EGC's revised PMF analysis. This included changes to the maximum rainfall rate, the maximum hydrostatic PMF water surface elevation, the coincident wind wave activity, and the maximum storm surge. EGC presented PMF calculations using two different synthetic unit hydrograph methods (the Synder method and the Soil Conservation Service method) with two different conceptual watershed layouts (a two-basin plus lake model and a seven-basin plus lake model).

The staff has evaluated EGC's revised PMF analysis and the information in Revision 4 to the EGC ESP application and concluded that the revised analysis conservatively estimated the hydrostatic PMF elevation. The staff performed several independent analyses that confirmed EGC's hydrostatic PMF elevation. The staff has modified the FSER to document the basis for this conclusion.

The changes to the FSER also includes modifications to Section 2.4 to better describe the technical information in the application regarding EGC's ice thickness calculations and modifications to Appendix A to reflect the new PMF site characteristics. In addition, the staff has revised the FSER to make some minor editorial changes.

CONTACT: John P. Segala, DNRL/NRR
301-415-1858

The staff plans to submit the FSER for NUREG formatting on April 21, 2006, and to have the NUREG published by May 1, 2006. If you have any questions about the attached changes to the FSER, please contact John Segala, the ESP project manager for the EGC ESP application, at (301) 415-1858 or jps1@nrc.gov.

Docket No. 52-007

Attachment: EGC ESP FSER Changed Pages

The staff plans to submit the FSER for NUREG formatting on April 21, 2006, and to have the NUREG published by May 1, 2006. If you have any questions about the attached changes to the FSER, please contact John Segala, the ESP project manager for the EGC ESP application, at (301) 415-1858 or jps1@nrc.gov.

Docket No. 52-007

Attachment: EGC ESP FSER Changed Pages

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* See previous concurrence

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