

June 4, 2001

Mr. Oliver D. Kingsley, President  
Exelon Nuclear  
Exelon Generation Company  
Executive Towers West III  
1400 Opus Place, Suite 500  
Downers Grove, IL 60515

SUBJECT: STAFF REVIEW AND EVALUATION OF WCAP-15316, REV. 1, "ANALYSIS OF CAPSULE W FROM COMMONWEALTH EDISON COMPANY BRAIDWOOD UNIT 1 REACTOR VESSEL RADIATION SURVEILLANCE PROGRAM" AND WCAP-15369, "ANALYSIS OF CAPSULE W FROM COMMONWEALTH EDISON COMPANY BRAIDWOOD UNIT 2 REACTOR VESSEL RADIATION SURVEILLANCE PROGRAM" (TAC NOS. MA6953, MA6954, MA8841 AND MA8842)

Dear Mr. Kingsley,

The NRC staff has completed the review of WCAP-15316, Rev.1, "Analysis of Capsule W from Commonwealth Edison Company Braidwood Unit 1 Reactor Vessel Radiation Surveillance Program," dated December 1999, WCAP-15369, "Analysis of Capsule W from Commonwealth Edison Company Braidwood Unit 2 Reactor Vessel Radiation Surveillance Program," dated March 2000, along with licensee submittals dated June 16, 2000, and January 12, 2001, for compliance with the requirements of Appendix H to 10 CFR 50 and ASTM Standard E-185, which is referenced by Appendix H. The staff has found the information provided on these surveillance capsules to be consistent with the regulations. The Reactor Vessel Integrity Database (RVID) has been updated based on the results presented in these reports.

The staff has identified omissions and errors in the analyses of the surveillance data provided for Unit 1 in WCAP-15366, Rev. 1 (December 2000), and for Unit 2 provided in WCAP-15368 (September 2000). Both of these evaluations were submitted on January 12, 2001. For weld heat 442011, the analysis provided for Unit 1 in WCAP-15366, Rev. 1, is not complete because it does not provide updated and additional data for this weld heat, as described for Unit 2 in WCAP-15368. For Unit 2 lower forging 50D102-1/50C97-1 in WCAP-15368, the table chemistry factor conservatism analysis described on page 12 of the report is not an accurate evaluation of the data for this material. Contrary to the assertion in the report, the table chemistry factor of 37°F is conservative because the predicted values of  $\Delta RT_{NDT}$  exceed the measured values of  $\Delta RT_{NDT}$  for this surveillance data. Therefore, the proper chemistry factor for this heat is the table chemistry factor of 37°F.

Mr. O. Kingsley

- 2 -

Subsequent to the date of the original submittals request, ComEd was merged into Exelon Generation Company, LLC (Exelon or licensee). By letter dated February 7, 2001, Exelon informed the NRC that it assumed responsibility for all pending NRC actions that were requested by ComEd.

If you have any questions about the NRC staff's review of the Braidwood Capsule W Reports, please contact me at (301) 415-8371.

Sincerely,

**/RA/**

Mahesh Chawla, Project Manager, Section 2  
Project Directorate III  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket Nos. STN 50-456 and STN 50-457

cc: See next page

Mr. O. Kingsley

- 2 -

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Docket Nos. STN 50-456 and STN 50-457

cc: See next page

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Units 1 and 2

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- 2 -

Braidwood Station  
Units 1 and 2

88

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