



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

October 29, 2014

MEMORANDUM TO: Edwin M. Hackett, Executive Director
Advisory Committee on Reactor Safeguards

FROM: Yoira Diaz-Sanabria, Chief */RA/*
Projects Branch 1
Division of License Renewal
Office of Nuclear Reactor Regulation

SUBJECT: ADVISORY COMMITTEE ON REACTOR SAFEGUARDS
REVIEW OF THE BYRON STATION, UNITS 1 AND 2, AND
BRAIDWOOD STATION, UNITS 1 AND 2, LICENSE RENEWAL
APPLICATION - SAFETY EVALUATION REPORT WITH OPEN
ITEMS

The license renewal staff and technical branches have completed their review of the Exelon Generation Company, LLC, Byron Station and Braidwood Station (BBS) license renewal application (LRA) and have issued the "Safety Evaluation Report with Open Items Related to the License Renewal of the Byron Station, Units 1 and 2, and Braidwood Station, Units 1 and 2" (ADAMS Accession No. ML14296A176). We request that the Advisory Committee on Reactor Safeguards (ACRS) review the staff's Safety Evaluation Report with Open Items for the BBS LRA. The BBS LRA is currently scheduled for review by the ACRS Subcommittee on December 3, 2014. The required copies of the Safety Evaluation Report with Open Items were delivered to the ACRS Point of Contact, Kent Howard. Additional supporting documents are publically available: Scoping and Screening Methodology Audit Report (ADAMS Accession No. ML14050A304) and the Aging Management Program Audit Report (ADAMS Accession No. ML14071A620).

The staff has identified two open items in its review that must be resolved before it can make a final determination on the application. The open items are summarized in SER Section 1.5, along with an explanation of the information required to satisfactorily resolve the issues. The first open item is referred to as 3.0.3.1.3-1 Nozzle Wear Acceptance Criteria. The applicant's control rod drive mechanism (CRDM) penetration nozzles have wear due to interactions with thermal sleeve centering tabs. The applicant did not propose any examinations during the period of extended operation for the areas with wear. The staff requested additional information to confirm that the CRDM penetration nozzle wear will be adequately managed for aging during the period of extended operation. The second open item is referred to as 4.3-1 Environmentally Assisted Fatigue (EAF) in Class 1 Components. The applicant stated that it performed a systematic review to determine the leading locations to be monitored by the Fatigue Monitoring Program for EAF. The systematic review involved grouping Class 1 components into transient sections. However, in justifying its review for transient sections that contained locations of different materials, the applicant did not demonstrate that its methodology for selecting EAF

leading locations was bounding. The staff requested that the applicant provide information to demonstrate that specific components would not need to be monitored for EAF in the period of extended operation.

If you have any questions, please contact Lindsay Robinson, the license renewal Project Manager for this application at 301-415-4115 or by e-mail at Lindsay.Robinson@nrc.gov.

Docket Nos. 50-454, 50-455, 50-456, and 50-457

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Docket Nos. 50-454, 50-455, 50-456, and 50-457

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ADAMS Accession No: ML14300A140

***Concurred via e-mail**

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