



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

March 31, 2014

Mr. Michael P. Gallagher
Vice President, License Renewal Projects
Exelon Generation Company, LLC
200 Exelon Way
Kennett Square, PA 19348

SUBJECT: REQUESTS FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE
BRAIDWOOD STATION, LICENSE RENEWAL APPLICATION
ENVIRONMENTAL REPORT

Dear Mr. Gallagher:

By letter dated May 29, 2013, Exelon Generation Company, LLC (Exelon), submitted for review by the U.S. Nuclear Regulatory Commission (NRC or the staff) an application pursuant to Title 10 of the *Code of Federal Regulations* Part 54, to renew operating licenses NPF-72 and NPF-77 for Braidwood Station, Units 1 and 2. The staff is reviewing the information contained in the license renewal application environmental report and has identified, in the enclosure to this letter, areas where additional information is needed to complete the review.

These requests for additional information were discussed with Ms. Nancy Ranek, and a mutually agreeable date for the response is within 30 days from the date of this letter. If you have any questions, please contact me by phone at 301-415-3617 or by e-mail at Tam.Tran@nrc.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Tam Tran", is positioned above the typed name.

Tam Tran, Project Manager
Projects Branch 2
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket Nos. 50-456 and 50-457

Enclosure:
Requests for Additional Information

cc w/encl: Listserv

March 31, 2014

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Sincerely,
/RA/
Tam Tran, Project Manager
Projects Branch 2
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket Nos. 50-456 and 50-457

Enclosure:
Requests for Additional Information

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DISTRIBUTION: See next page

ADAMS Accession No.: ML14079A617

*concurring via email

OFFICE	LA:DLR	PM:RPB2:DLR	BC:RPB2:DLR	PM:RPB2:DLR
NAME	YEdmonds	TTran	BWittick	TTran
DATE	3/25/14	3/25/14	3/31/14	3/31/14

OFFICIAL RECORD COPY

Letter to M. Gallagher from T. Tran dated March 31, 2014

SUBJECT: REQUESTS FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE
BRAIDWOOD STATION, LICENSE RENEWAL APPLICATION
ENVIRONMENTAL REPORT

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RidsNrrDlrRsrg Resource
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J. Daily, DLR
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BRAIDWOOD STATION
LICENSE RENEWAL APPLICATION
ENVIRONMENTAL REPORT
REQUESTS FOR ADDITIONAL INFORMATION

Human Health - Microbiological Hazards

RAI # H-1

Section 4.12, Page 4-37 of the Environmental Report states, "the circulating water and service water systems are both chlorinated to control bio-fouling, which also serves to inhibit growth of pathogens." Please provide a summary of Exelon's chlorination procedures for the circulating water and service water systems that includes the chlorine compounds used to treat each system as well as the concentrations and frequency of injection.

RAI # H-2

Provide the following Environmental Report reference for docketing (Please ensure that the requested document is suitable for archiving in the NRC public Agencywide Documents Access and Management System, and is free of proprietary, privileged or confidential information):

(Thuman 2009) Thuman, A.J. 2009. Thermal Impact and Mixing Zone Analysis. Letter to Bryan L. Risley, Braidwood Station. May 4, 2009 (without Attachments I, II, III and IV).

ENCLOSURE