



# Exelon Generation®

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10 CFR 50  
10 CFR 51  
10 CFR 54

RS-15- 259

September 29, 2015

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555-0001

Braidwood Station, Units 1 and 2  
Facility Operating License Nos. NPF-72 and NPF-77  
NRC Docket Nos. STN 50-456 and STN 50-457

Subject: Report Titled "Five Year Post-construction Monitoring of the Unionid Community near the Braidwood Station Kankakee River Discharge Location," dated September 2015

References:

1. Letter from Michael P. Gallagher (Exelon Generation Company, LLC [Exelon Generation]) to U.S. Nuclear Regulatory Commission (NRC) Document Control Desk, "Application for Renewed Operating Licenses", dated May 29, 2013
2. Letter from Christopher G. Miller (NRC) to Michael P. Gallagher (Exelon Generation), "Schedule Revision for the Review of the Braidwood Station, Units 1 And 2, License Renewal Application (TAC NOS. MF1832 AND MF1833)", dated September 14, 2015

In the Reference 1 letter, Exelon Generation Company, LLC (Exelon Generation) submitted the License Renewal Application (LRA) for the Byron and Braidwood Stations, Units 1 and 2, which contained combined technical information required by 10 CFR 54.21 for both stations and separate site-specific environmental information required by 10 CFR 54.23 for each station.

In the Reference 2 letter, the NRC informed Exelon Generation that the schedule for issuance of the final site-specific Supplemental Environmental Impact Statement (SEIS) for Braidwood Station, Units 1 and 2 (Braidwood) license renewal has been delayed from September 2015 to November 2015. The purpose of the delay is to allow time for NRC staff "to review the results of [a field] study in the Kankakee River and revise the final Braidwood SEIS, as appropriate," with respect to anticipated effects of extended Braidwood operation on the federally-listed endangered sheepsnose mussel (*Plethobasus cyphus*).

The enclosure to this letter is the report titled "Five Year Post-construction Monitoring of the Unionid Community near the Braidwood Station Kankakee River Discharge Location," dated

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NRC

September 2015. It presents the field study results requested by the NRC staff in order to finalize the Braidwood license renewal SEIS in accordance with the revised schedule set forth in the Reference 2 letter.

Please note that a copy of this letter and its enclosure are being provided to the U.S. Department of Interior and the U.S. Fish and Wildlife Service – Chicago Field Office (FWS) in the context of the ongoing Endangered Species Act Section 7 informal consultation between NRC and FWS regarding the endangered sheepsnose mussel in the Kankakee River near the location of the Braidwood discharge.

This letter and its enclosure contain no regulatory commitments.

If you have any questions, please contact Ms. Nancy Ranek, Environmental Lead, Exelon Generation License Renewal, at 610-765-5369.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on: 09-29-2015

Respectfully,



Michael P. Gallagher  
Vice President - License Renewal Projects  
Exelon Generation Company, LLC

Enclosure: "Five Year Post-construction Monitoring of the Unionid Community near the Braidwood Station Kankakee River Discharge Location." Prepared for Exelon Nuclear. Prepared by Ecological Specialists, Inc. (ESI Project No. 15-020).  
September 2015.

cc: Regional Administrator - NRC Region III (w/o Enclosure)  
NRC Project Manager (Environmental Review), NRR-DLR (w/o Enclosure)  
NRC Project Manager (Safety Review), NRR-DLR (w/o Enclosure)  
NRC Project Manager, NRR-DORL Braidwood Station (w/o Enclosure)  
NRC Senior Resident Inspector, Braidwood Station (w/o Enclosure)  
Illinois Emergency Management Agency - Division of Nuclear Safety (w/o Enclosure)  
U.S. Department of Interior – Office of Environmental Policy and Compliance (w/ Enclosure)  
U.S. Fish and Wildlife Service - Chicago Illinois Field Office (w/ Enclosure)

**RS-15-259**

**ENCLOSURE**

**“Five Year Post-construction Monitoring of the Unionid Community near the Braidwood Station Kankakee River Discharge.” Prepared for Exelon Nuclear. Prepared by Ecological Specialists, Inc. (ESI Project No. 15-020). September 2015.**

**(42 pages)**

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