



Exelon Generation Company, LLC

Braidwood Station  
35100 South Route 53, Suite 84  
Braidwood, IL 60407-9619

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October 27, 2021  
BW210065

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

Braidwood Station, Unit 2  
Renewed Facility Operating License No. NPF-77  
NRC Docket No. 50-457

Subject: Braidwood Unit 2 - Pressure and Temperature Limits Report (PTLR), Revision 8

Reference: 1) Letter from U.S. NRC to B.C. Hanson (Exelon Generation Company, LLC), Braidwood Station, Units 1 and 2, and Byron Station, Unit Nos. 1 and 2 - Issuance of Amendment Nos. 217, 217, 221, and 221 Regarding Reactor Coolant System Pressure and Temperature Limits Report Technical Specifications (EPID L-2019-LLA-0215), dated September 18, 2020

2) Letter from U.S. NRC to B.C. Hanson (Exelon Generation Company, LLC), "Braidwood Station, Units 1 and 2, and Byron Station, Unit Nos. 1 and 2 Exemption from the Requirements of 10 CFR 50.61 and 10 CFR 50, Appendix G (EPID L-2019-LLE-0022)," dated August 31, 2020


The purpose of this letter is to transmit the Pressure and Temperature Limits Report (PTLR) for Braidwood Station, Unit 2 in accordance with Technical Specification (TS) 5.6.6, "Reactor Coolant System (RCS) Pressure and Temperature Limits Report (PTLR)."

Braidwood Station, Unit 2 TS 5.6.6, "Reactor Coolant System (RCS) Pressure and Temperature Limits Report (PTLR)," was revised to allow the use of AREVA NP Topical Report BAW-2308, Revisions 1-A and 2-A, "Initial RT<sub>NDT</sub> of Linde 80 Weld Materials" for determining RCS pressure-temperature limits.

Please direct any questions you may have regarding this matter to Mr. Kevin Lueshen, Regulatory Assurance Manager, at (815) 417-2800.

Sincerely,

Keenan,  
John P.

 Digitally signed by Keenan, John P.  
DN: cn=Keenan, John P.  
Date: 2021.10.24 07:58:45 -05'00'

John Keenan  
Site Vice President  
Braidwood Station

Attachment: Braidwood Unit 2 Pressure and Temperature Limits Report (PTLR), Revision 8