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RS-01-079

April 16, 2001

United States Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 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

Byron Station, Units 1 and 2
Facility Operating License Nos. NPF-37 and NPF-66
NRC Docket Nos. STN 50-454 and STN 50-455

Subject: Additional Information Supporting the License Amendment Request to Permit
Up-rated Power Operations at Byron and Braidwood Stations

- References:
- (1) Letter from R. M. Krich (Commonwealth Edison Company) to U.S. NRC, "Request for a License Amendment to Permit Up-rated Power Operations at Byron and Braidwood Stations," dated July 5, 2000
 - (2) Letter from R. M. Krich (Exelon Generation Company, LLC) to U.S. NRC, "Additional Information Supporting the License Amendment Request to Permit Up-rated Power Operations at Byron and Braidwood Stations," dated April 5, 2001

In Reference 1, we submitted proposed changes to Facility Operating License Nos. NPF-72, NPF-77, NPF-37 and NPF-66, and Appendix A, Technical Specifications (TS), for Braidwood Station, Units 1 and 2, and Byron Station, Units 1 and 2, respectively. The proposed changes would revise the maximum power level specified in each unit's license and the TS definition of rated thermal power.

In Reference 2, we provided additional information regarding the calculation that addresses the maximum allowable time in which operators must direct some Emergency Core Cooling System (ECCS) recirculation flow to the Reactor Coolant System (RCS) hot legs (i.e., known as "Hot Leg Switch-Over" (HLSO)) during a Loss of Coolant Accident (LOCA) scenario to prevent boron precipitation in the reactor core. In summary, Reference 2 provided justification for maintaining the HLSO time at 8.5 hours which is the current value.

Upon review of this HLSO time justification, the NRC has indicated that an HLSO time of 8.5 hours is acceptable for operation of Byron Station and Braidwood Station under up-rated power

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conditions for a period of 18 months from the date of issuance of the power uprate license amendment. A subsequent HLSO time confirmatory analysis using an acceptable model will be performed by EGC and submitted to the NRC by June 1, 2002.

Should you have any questions or concerns regarding this information, please contact Mr. J. A. Bauer at (630) 663-7287.

Respectfully,

A handwritten signature in black ink, appearing to read 'R. M. Krich', with a stylized flourish at the end.

R. M. Krich
Director – Licensing
Mid-West Regional Operating Group

cc: Regional Administrator – NRC Region III
NRC Senior Resident Inspector – Braidwood Station
NRC Senior Resident Inspector – Byron Station
Office of Nuclear Safety – Illinois Department of Nuclear Safety

STATE OF ILLINOIS)
COUNTY OF DUPAGE)
IN THE MATTER OF)
EXELON GENERATION COMPANY, LLC) Docket Numbers
BYRON STATION UNITS 1 AND 2) STN 50-454 AND STN 50-455
BRAIDWOOD STATION UNITS 1 AND 2) STN 50-456 AND STN 50-457

**SUBJECT: Additional Information Supporting the License Amendment Request to
Permit Upgraded Power Operations at Byron and Braidwood Stations**

AFFIDAVIT

I affirm that the content of this transmittal is true and correct to the best of my
knowledge, information and belief.



R. M. Krich
Director – Licensing

Subscribed and sworn to before me, a Notary Public in and

for the State above named, this 16th day of

April, 2001.



Notary Public

