



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

June 20, 2016

Mr. Bryan C. Hanson
Senior Vice President
Exelon Generation Company, LLC
President and Chief Nuclear Officer (CNO)
Exelon Nuclear
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: BYRON STATION, UNIT NOS. 1 AND 2, AND BRAIDWOOD STATION, UNITS 1 AND 2 - EXEMPTION FROM THE REQUIREMENTS OF 10 CFR PART 50, SECTION 50.46 AND APPENDIX K TO ALLOW THE USE OF OPTIMIZED ZIRLO™ CLAD FUEL RODS (CAC NOS. MF7399, MF7400, MF7401 AND MF7402)

Dear Mr. Hanson:

The U.S. Nuclear Regulatory Commission has approved the enclosed exemption from specific requirements of Title 10 of the *Code of Federal Regulations* (10 CFR), Part 50, Section 50.46, "Acceptance criteria for emergency core cooling systems [ECCS] for light-water nuclear power reactors," and paragraph I.A.5 of Appendix K to 10 CFR Part 50, "ECCS Evaluation Models," for the Braidwood Station, Units 1 and 2, and Byron Station, Unit Nos. 1 and 2. This action is in response to your application dated February 23, 2016 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML16055A149). The requested amendment is addressed under separate correspondence.

A copy of the exemption is enclosed. The exemption has been forwarded to the Office of the Federal Register for publication.

Sincerely,

A handwritten signature in cursive script, reading "Joel S. Wiebe", is positioned above the typed name.

Joel S. Wiebe, Senior Project Manager,
Plant Licensing Branch III-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

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

Enclosure:
Exemption

cc w/encl: Distribution via Listserv

June 20, 2016

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/RA/

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Exemption: ML16126A061 Package: ML16125A538 Letter ML16126A032

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DATE	5/9/16	5/5/16	4/12/2016	5/20/16
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