



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

December 2, 2020

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

SUBJECT: BYRON STATION, UNIT NOS. 1 AND 2 - EXEMPTION FROM SELECT
REQUIREMENTS OF 10 CFR PART 26 (EPID L-2020-LLE-0218 [COVID-19])

Dear Mr. Hanson:

The U.S. Nuclear Regulatory Commission (NRC) has approved the requested exemption from specific requirements of Title 10 of the *Code of Federal Regulations* (10 CFR) Part 26, "Fitness for Duty Programs," Section 26.205, "Work hours," for the Byron Station, Unit Nos. 1 and 2. This action is in response to Exelon Generation Company, LLC's (Exelon, the licensee) application dated November 24, 2020 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML20329A533), as supplemented by letter dated December 1, 2020 (ADAMS Accession No. ML20336A341), which cited the March 28, 2020 and November 10, 2020 (ADAMS Accession Nos. ML20087P237 and ML20261H515, respectively), letters from Mr. Ho Nieh describing a process to request expedited review of certain exemptions from 10 CFR Part 26 during the COVID-19 public health emergency (PHE).

The application provided the following information:

- a statement that explains how, and for which covered groups, the COVID-19 PHE impacts the licensee's ability to meet the work-hour control requirements of 10 CFR 26.205(d)(1)-(d)(7);
- a statement that describes how an exemption from the 10 CFR 26.205(d)(1)-(d)(7) work-hour control requirements would be used to manage the impact of the COVID-19 PHE on maintaining plant operational safety and security;
- a list of positions for which the licensee is requesting exemption from the current work-hour controls under 10 CFR 26.205(d)(1)-(7);
- the date and time when the licensee will begin implementing its site-specific COVID-19 PHE fatigue-management controls for personnel specified in 10 CFR 26.4(a);

- a statement that the licensee's site-specific COVID-19 fatigue-management controls are consistent with the constraints outlined in the March 28 and November 10, 2020, letters; and
- a statement of the alternative controls that the licensee will use for the management of fatigue during the exemption period. At a minimum, these controls ensure that, for individuals subject to the controls:
 - (1) not more than 16 work hours in any 24-hour period and not more than 86 work hours in any 7-day period, excluding shift turnover;
 - (2) a minimum 10-hour break is provided between successive work periods;
 - (3) 12-hour shifts are limited to not more than 14 consecutive days;
 - (4) a minimum of 6 days off is provided in any 30-day period;
 - (5) the calculation of work hours and days off includes all work hours and days off during the applicable calculation periods, including those work hours and days off preceding initiation of the exemption period; and
 - (6) requirements are established for behavioral observation and self-declaration during the period of the exemption.

Because this subsequent exemption request is requesting an exemption period to begin (December 3, 2020) less than 14 days following the last day (December 3, 2020) of a preceding exemption period, the application also provided the following:

- the requested duration of the subsequent exemption period, and
- a technical basis for why the NRC would continue to have reasonable assurance that cumulative fatigue during the subsequent exemption period from 10 CFR 26.205(d)(1)-(d)(7) work-hour controls will not compromise plant safety or security due to impaired worker fitness for duty.

Therefore, the NRC finds that the technical basis for an exemption described in the March 28, 2020, and November 10, 2020, letters is applicable to Exelon's specific request. Exelon only plans to implement the alternative controls when warranted by the COVID-19 conditions during the exemption period, that is, normal work hour controls would be continued or restored as conditions allow.

Section 26.9, "Specific exemptions," of 10 CFR allows the NRC to grant exemptions from the requirements of 10 CFR Part 26. The NRC staff has determined that granting the licensee's requested exemption is authorized by law, will not endanger life or property or the common defense and security, and is otherwise in the public interest.

The underlying purpose of 10 CFR 26.205(d) is to prevent impairment from fatigue due to duration, frequency, or sequestering of successive shifts. Based on the evaluation provided in the NRC's March 28, 2020, and November 10, 2020, letters and the criteria discussed above, no new accident precursors are created by utilizing whatever licensee staff resources may be

necessary or available during the term of this exemption to respond to a plant emergency and to ensure that the plant maintains a safe and secure status. Therefore, the probability of postulated accidents is not increased. Also, the consequences of postulated accidents are not increased because there is no change in the types of accidents previously evaluated. The requested exemption would allow the utilization of licensee staff resources as may be necessary to maintain safe operation of the plant and to respond to a plant emergency. Therefore, the NRC finds that there is no undue risk to public health and safety from granting the requested exemption.

The requested exemption would allow the utilization of licensee security staff resources as may be necessary to ensure the common defense and security. Therefore, the NRC finds that there is no impact on common defense and security from granting the requested exemption.

Due to the impacts that the COVID-19 PHE has had on the licensee's ability to comply with the work-hour controls of 10 CFR 26.205(d), the importance of maintaining the operations of the Byron Station, Unit Nos. 1 and 2, and the controls the licensee has established, the NRC finds that granting the requested exemption is in the public interest.

Granting the requested exemption from the requirements of 10 CFR 26.205 is categorically excluded under 10 CFR 51.22(c)(25), and there are no extraordinary circumstances present that would preclude reliance on this exclusion. The NRC staff determined, per 10 CFR 51.22(c)(25)(vi)(I), that the requirements from which the exemption is sought involve other requirements of an administrative, managerial, or organizational nature.

The NRC staff also determined that approval of this exemption involves no significant hazards consideration because it does not authorize any physical changes to the facility or any of its safety systems, does not authorize changes to any of the assumptions or limits used in the facility licensee's safety analyses, and does not introduce any new failure modes. There is no significant change in the types or significant increase in the amounts of any effluents that may be released offsite because this exemption does not affect any effluent release limits as provided in the facility licensee's technical specifications or by the regulations in 10 CFR Part 20, "Standards for Protection Against Radiation." There is no significant increase in individual or cumulative public or occupational radiation exposure because this exemption does not affect limits on the release of any radioactive material or the limits provided in 10 CFR Part 20 for radiation exposure to workers or members of the public. There is no significant construction impact because this exemption does not involve any changes to a construction permit. There is no significant increase in the potential for or consequences from radiological accidents because the exemption does not alter any of the assumptions or limits in the licensee's safety analysis. In addition, the NRC staff determined that there would be no significant impacts to biota, water resources, historic properties, cultural resources, or socioeconomic conditions in the region. Therefore, pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the approval of this exemption request.

Based on the above, the NRC staff finds that (1) the exemption is authorized by law, (2) the exemption will not endanger life or property or the common defense and security, and (3) the exemption is otherwise in the public interest.

B. Hanson

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This exemption is effective from December 3, 2020, through February 1, 2021.

Sincerely,

David J. Wrona, Acting Deputy Director
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-454 and 50-455

cc: Listserv

SUBJECT: BYRON STATION, UNIT NOS. 1 AND 2 - EXEMPTION FROM SELECT REQUIREMENTS OF 10 CFR PART 26 (EPID L-2020-LLE-0218 [COVID-19]) DATED DECEMBER 2, 2020

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ADAMS Accession No.: ML20332A017

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