February 2, 2017

MEMORANDUM TO: Doug Broaddus, Chief
Special Projects and Process Branch
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

FROM: Undine Shoop, Chief ***/RA/***
Radiation Protection and Accident Consequence Branch
Division of Risk Assessment
Office of Nuclear Reactor Regulation

SUBJECT: SAFETY EVALUATION FOR OYSTER CREEK NUCLEAR GENERATING STATION PROPOSED CHANGES TO TECHNICAL SPECIFICATIONS SECTION 6.0 ADMINISTRATIVE CONTROLS FOR PERMANENTLY DEFUELED CONDITION (CAC NO. MF8108)

By letter dated May 17, 2016 (Agencywide Documents Access and Management System [ADAMS] Accession No. ML16138A129), as supplemented by letter dated November 2, 2016 (ADAMS Accession No. ML16308A029), Exelon Generation Company, LLC (the licensee), proposed changes to the Oyster Creek Nuclear Generating Station Technical Specifications (TS). The proposed changes to the TS delete or revise certain organization, staffing and training requirements contained in Section 6.0, "Administrative Controls," to prepare for decommissioning following permanent cessation of operations.

The Radiation Protection & Consequence Branch (ARCB) has reviewed radiation protection-related aspects of the requested amendment. The ARCB review, as discussed in the enclosed safety evaluation, concludes that the requested changes are acceptable. This memorandum concludes ARCB review efforts under Cost Activity Code Numbers MF8108. The staff's review is enclosed.

Enclosure:
Staff's Review

CONTACT: David Garmon-Candelaria, NRR/DRA/ARCB
(301) 415-0961

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ADAMS Accession No. **ML17018A213** * via email

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DATE	01 / 19 / 2017	01 / 27/ 2017	02 / 02 / 2017

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SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. XXX TO

RENEWED FACILITY OPERATING LICENSE NO. DPR-16

EXELON GENERATION COMPANY, LLC

OYSTER CREEK NUCLEAR GENERATING STATION

NRC DOCKET NO. 50-219

1.0 INTRODUCTION

By Letter dated May 17, 2016 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML16138A129), as supplemented by letter dated November 2, 2016 (ADAMS Accession No. ML16308A029), Exelon Generation Company, LLC (the licensee), proposed changes to the Oyster Creek Nuclear Generating Station (OCNGS) Technical Specifications (TS). The proposed changes to the TS delete or revise certain organization, staffing and training requirements, contained in Section 6.0, “Administrative Controls,” to prepare for decommissioning following permanent cessation of operations.

The licensee has notified the NRC of its contingent determination to permanently cease operations at OCNGS no later than December 31, 2019 (ADAMS Accession No. ML110070507).

2.0 REGULATORY EVALUATION

The regulatory requirements and guidance that were considered by the staff in its review of the LAR are:

- NUREG-1433, "Standard Technical Specifications Generic Electric BWR/4 Plants," Revision 4 (STS).
- 10 CFR 50.36, “Technical Specifications,” paragraph (c)(5)
- 10 CFR 20.1101, “Radiation Protection Programs”
- 10 CFR 20.1501, “General” paragraphs (a) and (c)

3.0 TECHNICAL EVALUATION

3.1 Current TS 6.2.2.2(f) states:

An individual qualified in radiation protection measures shall be on site when fuel is in the reactor.

Revised TS 6.2.2.2(f) has been redesignated as TS 6.2.2(e) and states:

An individual qualified in radiation protection measures shall be on site during movement of fuel and during the movement of loads over the fuel.

The licensee modified TS 6.2.2.2(f) to accommodate renumbering and to reflect those activities requiring radiation protection staffing following the permanent shutdown of the reactor. Following certification of permanent removal of fuel to the spent fuel pool, fuel can no longer reside in the reactor. The TS has been modified to reflect those remaining activities where individuals qualified in radiation protection procedures are required to be present. The NRC staff reviewed these changes and found them acceptable.

3.2 Current TS 6.2.2.3 states:

Individuals who train the operating staff and those who carry out the health physics and quality assurance function shall have sufficient organizational freedom to be independent of operational pressures, however, they may report to the appropriate manager on site.

Revised TS 6.2.2.3 has been resdesignated as TS 6.2.1(d) and states:

Individuals who train the operating Certified Fuel Handlers and those who carry out the health physics and quality assurance functions report to the appropriate manager on site; however, these individuals shall have sufficient organizational freedom to ensure their ability to perform their assigned functions.

The purpose of the current TS 6.2.2.3 is to ensure, in part, that staff who carry out health physics can do so without being subject to operational pressures (e.g., schedule and budget). The licensee's proposed change to the TS reflects the permanently shutdown and defueled status of the plant. The NRC staff concludes this is acceptable because the changes result in a TS that more accurately describes the condition of the plant upon permanent cessation of operations, while maintaining that health physics staff shall have sufficient organizational freedom to ensure their ability to perform their assigned functions.

3.3 Current TS 6.8.4(a) does not reference the provisions of Surveillance Requirement (SR) 4.0.2.

Revised TS 6.8.4(a) has been updated to add to following statement:

The provisions of SR 4.0.2 apply to the Radioactive Effluent Controls Program surveillance frequencies.

The purpose of OCNGS SR 4.0.2 is to provide direction on actions to take if a surveillance is not performed within its specified frequency. The STS provide similar direction through SR 3.0.3. SR 3.0.3 is referenced by STS 5.5.4, the STS that addresses Radioactive Effluent Controls Program. This change will make OCNGS TS 6.8.4(a) consistent with STS 5.5.4 and does not impact the licensee's ability to adequately monitor effluents with calibrated instruments as required by 10 CFR 20.1501(a) and (c); therefore the NRC staff concludes this change is acceptable.

3.4 Current TS 6.8.4(d) states:

> The Radioactive Effluent Release Report covering the operation of the unit during the previous year shall be submitted prior to May 1 of each year in accordance with 10 CFR 50.36a. The report shall include a summary of the quantities of radioactive liquid and gaseous effluent and solid waste released from the unit. The material provided shall be consistent with the objectives outlined in the Offsite Dose Calculation Manual (ODCM) and Process Control Program and in conformance with 10 CFR 50.36a and 10 CFR Part 50, Appendix I, Section IV.B.1.

Revised TS 6.8.4(d) states:

> The Radioactive Effluent Release Report covering the operation of the facility during the previous year shall be submitted prior to May 1 of each year in accordance with 10 CFR 50.36a. The report shall include a summary of the quantities of radioactive liquid and gaseous effluent and solid waste released from the facility. The material provided shall be consistent with the objectives outlined in the ODCM and Process Control Program and in conformance with 10 CFR 50.36a and 10 CFR Part 50, Appendix I, Section IV.B.1.

The licensee is changing the term “unit” to “facility,” which the staff considers more appropriate with a plant in a permanently shutdown and defueled condition. Additionally, this is an administrative change with no safety implications; therefore, the staff concludes this change is acceptable.

In conclusion, the changes proposed by this LAR do not impact the licensee’s ability to operate the facility within the requirements of 10 CFR 20 or to maintain doses to occupational workers and members of the public to levels that are as far below the limits as is reasonably achievable. Therefore, the changes proposed by this LAR are acceptable.