Dated: April 25, 2024.

For the Nuclear Regulatory Commission.

Jeffrey A. Whited,

Chief, Plant Licensing Branch 3, Division of Operating Reactor Licensing, Office of Nuclear Reactor Regulation.

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NUCLEAR REGULATORY COMMISSION

[Docket Nos. 72-53, 50-254, and 50-265; NRC-2024-0074]

Constellation Energy Generation, LLC; Quad Cities Nuclear Power Station, Units 1 and 2; Independent Spent Fuel Storage Installation; Environmental Assessment and Finding of No Significant Impact

AGENCY: Nuclear Regulatory Commission.

ACTION: Notice; issuance.

SUMMARY: The U.S. Nuclear Regulatory Commission (NRC) is issuing an environmental assessment (EA) and a finding of no significant impact (FONSI) for an exemption request submitted by Constellation Energy Generation, LLC (Constellation) that would permit the Quad Cities Nuclear Power Station (QCNPS) to load four new 68M multipurpose canisters (MPC) with continuous basket shims (CBS) beginning June 2024 in the HI–STORM 100 Cask System at its QCNPS Units 1 and 2 independent spent fuel storage installation (ISFSI) in a storage condition where the terms, conditions, and specifications in the Certificate of Compliance (CoC) No. 1014, Amendment No. 8, Revision No. 1, are not met.

DATES: The EA and FONSI referenced in this document are available on April 30, 2024.

ADDRESSES: Please refer to Docket ID NRC–2024–0074 when contacting the NRC about the availability of information regarding this document. You may obtain publicly available information related to this document using any of the following methods:

- Federal Rulemaking Website: Go to https://www.regulations.gov and search for Docket ID NRC-2024-0074. Address questions about Docket IDs in Regulations.gov to Stacy Schumann; telephone: 301-415-0624; email: Stacy.Schumann@nrc.gov. For technical questions, contact the individual listed in the FOR FURTHER INFORMATION CONTACT section of this document.
- NRC's Agencywide Documents Access and Management System

(ADAMS): You may obtain publicly available documents online in the ADAMS Public Documents collection at https://www.nrc.gov/reading-rm/adams.html. To begin the search, select "Begin Web-based ADAMS Search." For problems with ADAMS, please contact the NRC's Public Document Room (PDR) reference staff at 1–800–397–4209, at 301–415–4737, or by email to PDR.Resource@nrc.gov. For the convenience of the reader, instructions about obtaining materials referenced in this document are provided in the "Availability of Documents" section.

• NRC's PDR: The PDR, where you may examine and order copies of publicly available documents, is open by appointment. To make an appointment to visit the PDR, please send an email to PDR.Resource@nrc.gov or call 1–800–397–4209 or 301–415–4737, between 8 a.m. and 4 p.m. eastern time (ET), Monday through Friday, except Federal holidays.

FOR FURTHER INFORMATION CONTACT: Yen-Ju Chen, Office of Nuclear Material Safety and Safeguards, U.S. Nuclear Regulatory Commission, Washington, DC 20555; telephone: 301–415–1018; email: Yen-Ju.Chen@nrc.gov.

SUPPLEMENTARY INFORMATION:

I. Introduction

The NRC is reviewing an exemption request from Constellation, dated March 15, 2024. Constellation is requesting an exemption, pursuant to section 72.7 of title 10 of the Code of Federal Regulations (10 CFR), in paragraphs 72.212(a)(2), 72.212(b)(3) 72.212(b)(5)(i), 72.212(b)(11), and 72.214 that require Constellation to comply with the terms, conditions, and specifications of the CoC No. 1014, Amendment No. 8, Revision No. 1. If approved, the exemption would allow Constellation to load four MPC-68M-CBS beginning June 2024 in the HI-STORM 100 Cask System at the QCNPS ISFSI in a storage condition where the terms, conditions, and specifications in the CoC No. 1014, Amendment No. 8, Revision No. 1, are not met.

II. Environmental Assessment

Background

QCNPS is located 32 kilometers (20 miles) northeast of the Quad Cities Metropolitan Area of Davenport and Bettendorf, Iowa, and Rock Island, Moline and East Moline, Illinois. The site is on the east bank of Pool 14 of the Mississippi River, between Lock and Dams 13 and 14 and approximately 810 kilometers (506 miles) upstream from its confluence with the Ohio River. Both Units 1 and 2 began operating in 1973.

Constellation has been storing spent fuel in an ISFSI at QCNPS under a general license as authorized by 10 CFR part 72, subpart K, "General License for Storage of Spent Fuel at Power Reactor Sites." Constellation currently uses the HI–STORM 100 Cask System under CoC No. 1014, Amendment No. 8, Revision No. 1, for dry storage of spent nuclear fuel in a specific MPC (*i.e.*, MPC–68M) at the QCNPS ISFSI.

Description of the Proposed Action

The CoC is the NRC approved design for each dry cask storage system. The proposed action would exempt the applicant from the requirements of 10 CFR 72.212(a)(2), 72.212(b)(3), 72.212(b)(5)(i), 72.212(b)(11), and 72.214 only as these requirements pertain to the use of the MPC-68M-CBS in the HI–STORM 100 Cask System for the near-term planned loading of the systems. The exemption would allow Constellation to load four MPC-68M-CBS in the HI-STORM 100 Cask System at the QCNPS ISFSI beginning June 2024, despite the MPC-68M-CBS in the HI-STORM 100 Cask System not being in compliance with the terms, conditions, and specifications in the CoC No. 1014, Amendment No. 8, Revision No. 1.

The HI-STORM 100 Cask System CoC provides the requirements, conditions, and operating limits necessary for use of the system to store spent fuel. Holtec International (Holtec), the designer and manufacturer of the HI-STORM 100 Cask System, developed a variant of the design with continuous basket shims (CBS) for the MPC-68M, known as MPC-68M-CBS. Holtec originally implemented the CBS variant design under the provisions of 10 CFR 72.48, which allows licensees to make changes to cask designs without a CoC amendment under certain conditions (listed in 10 CFR 72.48(c)). After evaluating the specific changes to the cask designs, the NRC determined that Holtec erred when it implemented the CBS variant design under 10 CFR 72.48, as this was not the type of change allowed without a CoC amendment. For this reason, the NRC issued three Severity Level IV violations to Holtec. Constellation plans to load four MPC-68M-CBS in the HI-STORM 100 Cask System beginning in June 2024. This exemption considers the near-term planned loading of the four canisters with the CBS variant basket design.

Need for the Proposed Action

Constellation requested this exemption in order to allow QCNPS to load four MPC–68M–CBS in the HI– STORM 100 Cask System at the QCNPS ISFSI for the future loading campaign scheduled to begin in June 2024. Approval of the exemption request would allow Constellation to effectively manage the spent fuel pool margin and capacity to enable refueling and offloading fuel from the reactor. It would also allow Constellation to effectively manage the availability of the specialized workforce and equipment needed to support competing fuel loading and operational activities at QCNPS and other Constellation sites.

Environmental Impacts of the Proposed Action

This EA evaluates the potential environmental impacts of granting an exemption from the terms, conditions, and specifications in CoC No. 1014, Amendment No. 8, Revision No. 1. The exemption would allow four MPC–68M–CBS to be loaded in the HI–STORM 100 Cask System in the nearterm loading campaign and maintained in storage at the QCNPS ISFSI.

The potential environmental impacts of storing spent nuclear fuel in NRCapproved storage systems have been documented in previous assessments. On July 18, 1990 (55 FR 29181), the NRC amended 10 CFR part 72 to provide for the storage of spent fuel under a general license in cask designs approved by the NRC. The EA for the 1990 final rule analyzed the potential environmental impacts of using NRCapproved storage casks. The EA for the HI-STORM 100 Cask System, CoC No. 1014, Amendment No. 8, Revision No. 1 (80 FR 49887), published in 2015, tiers off of the EA issued for the July 18, 1990, final rule. "Tiering" off earlier EAs is a standard process encouraged by the regulations implementing the National Environmental Policy Act of 1969 (NEPA) that entails the use of impact analyses of previous EAs to bound the impacts of a proposed action where appropriate. The Holtec HI-STORM 100 Cask System is designed to mitigate the effects of design basis accidents that could occur during storage. Considering the specific design

requirements for the accident conditions, the design of the cask would prevent loss of containment, shielding, and criticality control. If there is no loss of containment, shielding, or criticality control, the environmental impacts would not be significant.

The exemptions requested by Constellation at the QCNPS site as they relate to CoC No. 1014, Amendment No. 8, Revision No. 1, for the HI–STORM 100 Cask System are limited to the use of the CBS variant basket design only for the near-term planned loading of four canisters utilizing the CBS variant basket design. The staff has determined that this change in the basket will not result in either radiological or nonradiological environmental impacts that significantly differ from the environmental impacts evaluated in the environmental assessment supporting the issuance of CoC No. 1014, Amendment No. 8, Revision No. 1. If the exemption is granted, there will be no significant change in the types or amounts of any effluents released, no significant increase in individual or cumulative public or occupational radiation exposure, and no significant increase in the potential for or consequences from radiological accidents. Accordingly, the Commission concludes that there would be no significant environmental impacts associated with the proposed action.

Alternative to the Proposed Action

The staff considered the no-action alternative. The no-action alternative (denial of the exemption request) would require Constellation to delay the nearterm planned future loading of four MPC-68M-CBS in the HI-STORM 100 Cask System. Not allowing the planned future loading campaign could affect Constellation's ability to manage pool capacity, reactor fuel offloading, and refueling. It could also pose challenges to spent fuel heat removal and impact the availability of the specialized workforce and equipment needed to support competing fuel loading and operational activities at QCNPS and

other Constellation sites. The NRC has determined that the no-action alternative would result in undue potential human health and safety impacts that could be avoided by proceeding with the proposed exemption, especially given that the staff has concluded in the NRC's Safety Determination Memorandum, issued with respect to the enforcement action against Holtec regarding these violations, that fuel can be stored safely in the MPC–68M–CBS canisters.

Agencies Consulted

The NRC provided the Illinois Emergency Management Agency and Office of Homeland Security (IL–IEMA– OHS) a copy of this draft EA for review by an email dated April 15, 2024. On April 23, 2024, the IL–IEMA–OHS provided its concurrence by email.

III. Finding of No Significant Impact

The environmental impacts of the proposed action have been reviewed in accordance with the requirements in 10 CFR part 51, which implement NEPA. Based upon the foregoing environmental assessment, the NRC finds that the proposed action of granting the exemption from the regulations in 10 CFR 72.212(a)(2), 72.212(b)(3), 72.212(b)(5)(i), 72.212(b)(11) and 72.214, which require the licensee to comply with the terms, conditions, and specifications of the CoC, in this case limited to the specific future loading of four canisters with the CBS variant basket design beginning June 2024, would not significantly impact the quality of the human environment. Accordingly, the NRC has determined that a FONSI is appropriate, and an environmental impact statement is not warranted.

IV. Availability of Documents

The documents identified in the following table are available to interested persons through ADAMS, as indicated.

Document description	ADAMS accession No. or Federal Register notice
Constellation's request for exemption, dated March 15, 2024	ML24075A001.
Certificate of Compliance No. 1014, Amendment 8, Revision 1, dated February 10, 2016	ML16041A233 (Package).
Holtec International, Inc.—Notice of Violation; The U.S. Nuclear Regulatory Commission Inspection Report No. 07201014/2022–201, EA–23–044, dated January 30, 2024.	ML24016A190.
10 CFR part 72 amendment to allow spent fuel storage in NRC-approved casks, dated July 18, 1990	55 FR 29181.
EA for part 72 amendment to allow spent fuel storage in NRC-approved casks, dated March 8, 1989	ML051230231.
Final rule for List of Approved Spent Fuel Storage Casks: Holtec International HI–STORM 100 Cask System CoC No. 1014, Amendment 8, Revision 1, dated August 18, 2015.	80 FR 49887.
Safety Determination of a Potential Structural Failure of the Fuel Basket During Accident Conditions for the HI-STORM 100 and HI-STORM Flood/Wind Dry Cask Storage Systems, dated January 31, 2024.	ML24018A085.
NRC email to IL-IEMA-OHS requesting review of EA/FONSI for Quad Cities Exemption, dated April 15, 2024.	ML24114A170.

Document description	ADAMS accession No. or Federal Register notice
IL-IEMA-OHS email response, regarding review of EA/FONSI for Quad Cities Exemption," dated April 23, 2024.	ML24114A171.

Dated: April 24, 2024.

For the Nuclear Regulatory Commission.

Yoira Diaz-Sanabria,

Chief, Storage and Transportation Licensing Branch, Division of Fuel Management, Office of Nuclear Material Safety and Safeguards.

[FR Doc. 2024–09231 Filed 4–29–24; 8:45 am]

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NUCLEAR REGULATORY COMMISSION

[Docket Nos. 72-0028, 50-387, and 50-388; NRC-2024-0068]

Susquehanna Nuclear, LLC; Susquehanna Steam Electric Station, Units 1 and 2; Independent Spent Fuel Storage Installation; Exemption

AGENCY: Nuclear Regulatory

Commission.

ACTION: Notice; issuance.

SUMMARY: The U.S. Nuclear Regulatory Commission (NRC) issued an exemption to Susquehanna Nuclear, LLC, permitting Susquehanna Steam Electric Station to load six new 89 multipurpose canisters (MPC) with continuous basket shims in the HI-STORM Flood/Wind MPC Storage System at its Susquehanna Steam Electric Station, Units 1 and 2 independent spent fuel storage installation in a storage condition where the terms, conditions, and specifications in the Certificate of Compliance No. 1032, Amendment No. 5, are not met. **DATES:** The exemption was issued on April 22, 2024.

ADDRESSES: Please refer to Docket ID NRC–2024–0068 when contacting the NRC about the availability of information regarding this document. You may obtain publicly available information related to this document using any of the following methods:

• Federal Rulemaking Website: Go to https://www.regulations.gov and search for Docket ID NRC-2024-0068. Address questions about Docket IDs in Regulations.gov to Stacy Schumann; telephone: 301-415-0624; email: Stacy.Schumann@nrc.gov. For technical questions, contact the individual listed in the FOR FURTHER INFORMATION

 NRC's Agencywide Documents Access and Management System (ADAMS): You may obtain publicly available documents online in the

CONTACT section of this document.

ADAMS Public Documents collection at https://www.nrc.gov/reading-rm/adams.html. To begin the search, select "Begin Web-based ADAMS Search." For problems with ADAMS, please contact the NRC's Public Document Room (PDR) reference staff at 1–800–397–4209, at 301–415–4737, or by email to PDR.Resource@nrc.gov. The ADAMS accession number for each document referenced (if it is available in ADAMS) is provided the first time that it is mentioned in this document.

• NRC's PDR: The PDR, where you may examine and order copies of publicly available documents, is open by appointment. To make an appointment to visit the PDR, please send an email to PDR.Resource@nrc.gov or call 1–800–397–4209 or 301–415–4737, between 8 a.m. and 4 p.m. eastern time (ET), Monday through Friday, except Federal holidays.

FOR FURTHER INFORMATION CONTACT:

Christian Jacobs, Office of Nuclear Material Safety and Safeguards, U.S. Nuclear Regulatory Commission, Washington, DC 20555; telephone: 301–415–6825; email: *Christian.Jacobs@nrc.gov.*

SUPPLEMENTARY INFORMATION: The text of the exemption is attached.

Dated: April 25, 2024.

For the Nuclear Regulatory Commission.

Yoira Diaz-Sanabria,

Chief, Storage and Transportation Licensing Branch, Division of Fuel Management, Office of Nuclear Material Safety, and Safeguards.

Attachment—Exemption

NUCLEAR REGULATORY COMMISSION

[Docket Nos. 72–0028, 50–387, and 50–388]

Susquehanna Nuclear, LLC; Susquehanna Steam Electric Station Units 1 and 2; Independent Spent Fuel Storage Installation

I. Background

Susquehanna Nuclear, LLC (Susquehanna) is the holder of Renewed Facility Operating License Nos. NPF–14 and NPF–22, which authorize operation of the Susquehanna Steam Electric Station (SSES), Units 1 and 2 in Salem Township, Luzerne County, PA (70 miles northeast of Harrisburg, PA), pursuant to Part 50 of Title 10 of the Code of Federal Regulations (10 CFR),

"Domestic Licensing of Production and Utilization Facilities." The licenses provide, among other things, that the facility is subject to all rules, regulations, and orders of the U.S. Nuclear Regulatory Commission (NRC) now or hereafter in effect.

Consistent with 10 CFR part 72, subpart K, "General License for Storage of Spent Fuel at Power Reactor Sites," a general license is issued for the storage of spent fuel in an Independent Spent Fuel Storage Installation (ISFSI) at power reactor sites to persons authorized to possess or operate nuclear power reactors under 10 CFR part 50. Susquehanna is authorized to operate nuclear power reactors under 10 CFR part 50 and holds a 10 CFR part 72 general license for storage of spent fuel at the SSES ISFSI. Under the terms of the general license, Susquehanna stores spent fuel at its SSES ISFSI using the HI-STORM Flood/Wind (FW) Multi-Purpose Canister (MPC) Storage System in accordance with Certificate of Compliance (CoC) No. 1032, Amendment No. 5.

II. Request/Action

By a letter dated March 19, 2024 (Agencywide Documents Access and Management System [ADAMS] Accession No. ML24079A070) and supplemented on March 21, 2024 (ML24081A335), Susquehanna requested an exemption from the requirements of 10 CFR 72.212(a)(2), 72.212(b)(3), 72.212(b)(5)(i), 72.212(b)(11), and 72.214 that requires SSES to comply with the terms, conditions, and specifications of the CoC No. 1032, Amendment No. 5 (ML20163A701). If approved, Susquehanna's exemption request would accordingly allow SSES to load MPCs with continuous basket shims (CBS) (i.e., MPC-89-CBS), an unapproved variant basket design, in the HI-STORM FW MPC Storage System, and thus, to load the systems in a storage condition where the terms, conditions, and specifications in the CoC No. 1032, Amendment No. 5, are not met.

Susquehanna currently uses the HI–STORM FW MPC Storage System under CoC No. 1032, Amendment No. 5, for dry storage of spent nuclear fuel at the SSES ISFSI. Holtec International (Holtec), the designer and manufacturer of the HI–STORM FW MPC Storage