

IV. Conclusion

Based on these considerations, the NRC has determined that, pursuant to 10 CFR 72.7, the exemption is authorized by law, will not endanger life or property or the common defense and security, and is otherwise in the public interest. Therefore, the NRC grants CEG an exemption from the requirements of §§ 72.212(a)(2), 72.212(b)(3), 72.212(b)(5)(i), 72.212(b)(11), and 72.214 solely with respect to the planned loading and transport operations for six MPC-89 at NMP ISFSI for the loading campaign beginning in May 2025.

This exemption is effective upon issuance.

Dated: March 12, 2025.

For the Nuclear Regulatory Commission.

/RA/

Tom Boyce,

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

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NUCLEAR REGULATORY COMMISSION

[Docket Nos. 72-1036, 50-220, and 50-410; NRC-2025-0037]

Constellation Energy Generation, LLC; Nine Mile Point Nuclear 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 Constellation Energy Generation, LLC, permitting Nine Mile Point Generating Station (NMP) to maintain nine loaded and to load six new 89 multi-purpose canisters (MPC) with continuous basket shims in the HI-STORM Flood/Wind MPC Storage System at its NMP 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. 3, Revision No. 0 are not met.

DATES: The exemption was issued on March 12, 2025.

ADDRESSES: Please refer to Docket ID NRC-2025-0037 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-2025-0037. Address

questions about Docket IDs in *Regulations.gov* to Bridget Curran; telephone: 301-415-1003; email: Bridget.Curran@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. 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: John-Chau Nguyen, Office of Nuclear Material Safety and Safeguards, U.S. Nuclear Regulatory Commission, Washington, DC 20555; telephone: 301-415-0262; email: John-Chau.Nguyen@nrc.gov.

SUPPLEMENTARY INFORMATION: The text of the exemption is attached.

Dated: March 14, 2025.

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. 72-1036, 50-220, and 50-410

Constellation Energy Generation, LLC; Nine Mile Point Nuclear Station, Units 1 and 2

Independent Spent Fuel Storage Installation

I. Background

Constellation Energy Generation, LLC (Constellation) is the holder of Renewed Facility Operating License Nos. DPR-63 and NPF-69, which authorize operation of the Nine Mile Point Nuclear Station (NMP) in the town of Scriba, New York, 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. Constellation 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 NMP ISFSI. Under the terms of the general license, Constellation stores spent fuel at its NMP 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. 3, Revision No. 0.

II. Request/Action

By a letter dated January 30, 2025 (Agencywide Documents Access and Management System [ADAMS] Accession No. ML25031A016), as supplemented on February 6, 2025 (ML25042A159), Constellation 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 require NMP to comply with the terms, conditions, and specifications of the CoC No. 1032, Amendment No. 3, Revision No. 0 (ML17214A041). If approved, Constellation's exemption request would accordingly allow NMP to maintain nine loaded and to load six MPCs with continuous basket shims (CBS) (*i.e.*, MPC-89-CBS) 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. 3, Revision No. 0 are not met.

Constellation currently uses the HI-STORM FW MPC Storage System under CoC No. 1032, Amendment No. 3, Revision No. 0, for dry storage of spent nuclear fuel in the MPC-89 at the NMP ISFSI. Holtec International (Holtec), the designer and manufacturer of the HI-STORM FW MPC Storage System, developed a variant of the design with CBS for the MPC-89, known as MPC-89-CBS. Holtec performed a non-mechanistic tip-over analysis with favorable results and implemented the CBS variant design under the provisions of 10 CFR 72.48, "Changes, tests, and experiments," 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 is not the type of change allowed without a CoC amendment. For this reason, the NRC issued three Severity Level IV violations to Holtec (ML24016A190). Holtec subsequently submitted Amendment 7 to the HI-STORM FW CoC to address the issues; however, NMP was not able to take advantage of the final NRC approved methodology in Amendment 7 for performing the non-mechanistic tip-over analysis because NMP's site specific

parameters were not bounded by that analysis. On February 6, 2025, Constellation submitted supplemental information, which documents a non-mechanistic tip-over analysis of the HI-STORM FW containing the MPC-89-CBS incorporating the NMP site-specific ISFSI pad parameters. The staff reviewed the results of the analysis which document that the MPC confinement boundary is not breached as a result of this site-specific tip-over event. Based on this review, staff concludes that although the structural integrity of the fuel basket is inconclusive, the MPC confinement boundary is maintained and allows the fuel to remain in a dry storage condition with no moderator present. As a result, the fuel will remain subcritical and there are no significant safety consequences. This conclusion is consistent with the staff's assessment in the Safety Determination Memorandum. Therefore, employment of the Safety Determination Memorandum as a basis for this exemption request is found to be acceptable.

Prior to the issuance of the violations, Constellation had loaded nine MPC-89-CBS in the HI-STORM FW MPC Storage System, which are in storage at the NMP ISFSI. Constellation's near-term loading campaign for the NMP ISFSI include plans to load six MPC-89-CBS in the HI-STORM FW MPC Storage System beginning in May 2025. Constellation submitted this exemption request in order to allow for the continued storage of the nine already loaded MPC-89-CBS, and future loading of six MPC-89-CBS beginning in May 24, 2025, at the NMP ISFSI. This exemption is limited to the use of MPC-89-CBS in the HI-STORM FW MPC Storage System only for the nine already loaded canisters and specific near-term planned loading of six new canisters using the MPC-89-CBS variant basket design.

III. Discussion

Pursuant to 10 CFR 72.7, "Specific exemptions," the Commission may, upon application by any interested person or upon its own initiative, grant such exemptions from the requirements of the regulations of 10 CFR part 72 as it determines are authorized by law and will not endanger life or property or the common defense and security and are otherwise in the public interest.

A. The Exemption Is Authorized by Law

This exemption would allow Constellation to maintain nine loaded and to load six MPC-89-CBS in the HI-STORM FW MPC Storage System at its NMP ISFSI in a storage condition where the terms, conditions, and specifications in the CoC No. 1032, Amendment No. 3, Revision No. 0, are not met. Constellation is requesting an exemption from the provisions in 10 CFR part 72 that require the licensee to comply with the terms, conditions, and specifications of the CoC for the approved cask model it uses. Section 72.7 allows the NRC to grant exemptions from the requirements of 10 CFR part 72. This authority to grant exemptions is consistent with the Atomic Energy Act of 1954, as amended, and is not otherwise inconsistent with NRC's regulations or other

applicable laws. Additionally, no other law prohibits the activities that would be authorized by the exemption. Therefore, the NRC concludes that there is no statutory prohibition on the issuance of the requested exemption, and the NRC is authorized to grant the exemption by law.

B. The Exemption Will Not Endanger Life or Property or the Common Defense and Security

This exemption would allow Constellation to maintain nine loaded and to load six MPC-89-CBS in the HI-STORM FW MPC Storage System at the NMP ISFSI in a storage condition where the terms, conditions, and specifications in the CoC No. 1032, Amendment No. 3, Revision No. 0, are not met. In support of its exemption request, Constellation asserts that issuance of the exemption would not endanger life or property because the administrative controls the applicant has in place prevent a tip-over or handling event, and that the containment boundary would be maintained in such an event. Constellation relies, in part, on the approach in the NRC's Safety Determination Memorandum (ML24018A085). The NRC issued this Safety Determination Memorandum to address whether, with respect to the enforcement action against Holtec regarding this violation, there was any need to take an immediate action for the cask systems that were already loaded with non-compliant basket designs. The Safety Determination Memorandum documents a risk-informed approach concluding that, during the design basis event of a non-mechanistic tip-over, the fuel in the basket in the MPC-89-CBS remains in a subcritical condition.

Constellation also provided site-specific technical information, including information explaining why the use of the approach in the NRC's Safety Determination Memorandum is appropriate for determining the safe use of the CBS variant baskets at the NMP ISFSI. Specifically, Constellation described that the analysis of the tip-over design basis event that is relied upon in the NRC's Safety Determination Memorandum, which demonstrates that the MPC confinement barrier is maintained, is documented in the final safety analysis report (FSAR) for the HI-STORM FW MPC Storage System CoC No. 1032, Amendment 3, Revision No. 0, that is used at the NMP site. Constellation also described its administrative controls for handling of the HI-STORM FW MPC Storage System at the NMP ISFSI to prevent a tip-over or handling event. Those controls include using single-failure-proof handling systems as defined in NUREG-0612. Constellation referenced their "Rigging and Lifting Program" and "Control of Heavy Loads Program" to further demonstrate that NMP has applicable operational procedures in place to safely load, process, transfer and move the MPCs in accordance with Appendix A of the CoC and the HI-STORM FW FSAR.

Additionally, Constellation provided specific information from NMP's 72.212 Evaluation Report, Revision 1, indicating that during the design basis event of a non-mechanistic tip-over, NMP's ISFSI would

meet the requirements in 10 CFR 72.104, "Criteria for radioactive materials in effluents and direct radiation from an ISFSI or MRS," and 72.106, "Controlled area of an ISFSI or MRS." Specifically, Constellation described that, in the highly unlikely event of a tip-over, any potential fuel damage from a non-mechanistic tip-over event would be localized, the confinement barrier would be maintained, and the shielding material would remain intact. Coupled with the distance of the NMP ISFSI to the site area boundary, Constellation concluded that compliance with 72.104 and 72.106 is not impacted by approving this exemption request.

The NRC staff reviewed the information provided by Constellation and concludes that issuance of the exemption would not endanger life or property because the administrative controls Constellation has in place at the NMP ISFSI sufficiently minimize the possibility of a tip-over or handling event, and that the containment boundary would be maintained in such an event. The staff confirmed that these administrative controls are documented in the technical specifications and FSAR for the HI-STORM FW MPC Storage System CoC No. 1032, Amendment 3, Revision No. 0, that is used at the NMP site. In addition, the staff confirmed that the information provided by Constellation regarding NMP's 72.212 Evaluation Report, Revision 1, demonstrates that the consequences of normal and accident conditions would be within the regulatory limits of the 10 CFR 72.104 and 10 CFR 72.106. The staff also determined that the requested exemption is not related to any aspect of the physical security or defense of the NMP ISFSI; therefore, granting the exemption would not result in any potential impacts to common defense and security.

For these reasons, the NRC staff has determined that under the requested exemption, the storage system will continue to meet the safety requirements of 10 CFR part 72 and the offsite dose limits of 10 CFR part 20 and, therefore, will not endanger life or property or the common defense and security.

C. The Exemption Is Otherwise in the Public Interest

The proposed exemption would allow the nine already loaded MPC-89-CBS in the HI-STORM FW MPC Storage System to remain in storage at the NMP ISFSI and allow Constellation to load six MPC-89-CBS in the HI-STORM FW MPC Storage System beginning in May 2025, at the NMP ISFSI, even though the CBS variant basket design is not part of the approved CoC No. 1032, Amendment No. 3, Revision No. 0. According to Constellation, the exemption is in the public interest because unloading fuel from already loaded canisters and not being able to load fuel into dry storage in future loading campaigns would impact Constellation's ability to offload fuel from the NMP reactor units, consequently impacting continued safe reactor operation. The reflooding of the MPCs, removal of fuel assemblies, and replacement into a different MPC would result in additional doses and handling operations with no added safety

benefit. In addition, future loading campaigns would need to be delayed until older design canisters can be fabricated and delivered to the site.

Constellation stated that to unload already loaded MPC-89-CBS or delay the future loading campaigns would impact the ability to effectively manage the margin to full core discharge capacity in the NMP Units 1 and 2 spent fuel pools. The low spent fuel pool capacity would make it difficult to refuel and present potential risks to fuel handling operations during pre- and post-outage. In addition, a crowded spent fuel pool would challenge the decay heat removal demand of the pool and increase the likelihood of a loss of fuel pool cooling event and a fuel handling accident. Furthermore, NMP planned the cask loading campaigns years in advance based on availability of the specialized workforce and equipment that is shared throughout the Constellation fleet. These specialty resources support competing priorities including refueling outages, loading campaigns, fuel pool cleanouts, fuel inspections, fuel handling equipment upgrade and maintenance, fuel sipping, new fuel receipt, and crane maintenance and upgrades. Any delays would have a cascading impact on other scheduled specialized activities.

For the reasons described by Constellation in the exemption request, the NRC agrees that it is in the public interest to grant the exemption. If the exemption is not granted, in order to comply with the CoC, Constellation would have to unload MPC-89-CBS from the HI-STORM FW MPC Storage System at the NMP ISFSI and reload into the older design MPC-89 to restore compliance with terms, conditions, and specifications of the CoC. This would subject onsite personnel to additional radiation exposure, increase the risk of a possible fuel handling accident, and increase the risk of a possible heavy load handling accident. Furthermore, the removed spent fuel would need to be placed in the spent fuel pool until it can be loaded into another storage cask or remain in the spent fuel pool if it is not permitted to be loaded into casks for future loading campaigns. As described by Constellation, this scenario would affect Constellation's ability to effectively manage the spent pool capacity and reactor fuel offloading at NMP. In addition, the rescheduling of the specialized resources for the future loading campaigns would impact the operations of NMP and other Constellation sites.

Therefore, the staff concludes that approving the exemption is in the public interest.

Environmental Consideration

The NRC staff also considered whether there would be any significant environmental impacts associated with the exemption. For this proposed action, the NRC staff performed an environmental assessment pursuant to 10 CFR 51.30. The environmental assessment concluded that the proposed action would not significantly impact the quality of the human environment. The NRC staff concluded that the proposed action would not result in any changes in the types

or amounts of any radiological or non-radiological effluents that may be released offsite, and there would be no significant increase in occupational or public radiation exposure because of the proposed action. The environmental assessment and the finding of no significant impact was published on March 11, 2025 (90 FR 11756).

IV. Conclusion

Based on these considerations, the NRC has determined that, pursuant to 10 CFR 72.7, the exemption is authorized by law, will not endanger life or property or the common defense and security, and is otherwise in the public interest. Therefore, the NRC grants Constellation an exemption from the requirements of §§ 72.212(a)(2), 72.212(b)(3), 72.212(b)(5)(i), 72.212(b)(11), and 72.214 with respect to the ongoing storage of nine MPC-89-CBS in the HI-STORM FW MPC Storage System and a future loading in the HI-STORM FW MPC Storage System of six new MPC-89-CBS beginning in May 2025.

This exemption is effective upon issuance.

Dated: March 12, 2025.

For the Nuclear Regulatory Commission.

/RA/

Tom Boyce,

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

[FR Doc. 2025-04555 Filed 3-18-25; 8:45 am]

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NUCLEAR REGULATORY COMMISSION

[NRC-2025-0062]

Privacy Act of 1974; Systems of Records

AGENCY: Nuclear Regulatory Commission.

ACTION: Notice of modified systems of records; request for comments.

SUMMARY: Pursuant to the Privacy Act of 1974 and Office of Management and Budget (OMB) Circular No. A-108, to ensure the system of records notices remain accurate, the U.S. Nuclear Regulatory Commission (NRC) staff reviews each notice on a periodic basis. As a result of this review, the NRC is republishing 13 of its system of records notices with minor corrective, clarifying, and administrative changes. These minor modifications include updating authorities, system managers, retention schedules, and various other minor updates, as well as edits that are intended to improve clarity of the notices but that are not intended to modify the systems themselves. None of the modifications the NRC is making meet the threshold criteria established by OMB for either a new or altered system of records.

DATES: Submit comments on revisions and changes by April 18, 2025.

Comments received after this date will be considered if it is practical to do so, but the Commission is able to ensure consideration only for comments received before this date.

ADDRESSES: You may submit comments by any of the following methods; however, the NRC encourages electronic comment submission through the Federal rulemaking website:

- *Federal rulemaking website:* Go to <https://www.regulations.gov> and search for Docket ID NRC-2025-0062. Address questions about Docket IDs in [Regulations.gov](https://www.regulations.gov) to Bridget Curran; telephone: 301-415-1003; email: Bridget.Curran@nrc.gov. For technical questions, contact the individual listed in the **FOR FURTHER INFORMATION CONTACT** section of this document.

- *Mail comments to:* Office of Administration, Mail Stop: TWFN-7-A60M, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, ATTN: Program Management, Announcements and Editing Staff.

For additional direction on obtaining information and submitting comments, see "Obtaining Information and Submitting Comments" in the **SUPPLEMENTARY INFORMATION** section of this document.

FOR FURTHER INFORMATION CONTACT:

Sally Hardy, Office of the Chief Information Officer, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001; telephone: 301-415-5607; email: Sally.Hardy@nrc.gov.

SUPPLEMENTARY INFORMATION:

I. Obtaining Information and Submitting Comments

A. Obtaining Information

Please refer to Docket ID NRC-2025-0062 when contacting the NRC about the availability of information for this action. You may obtain publicly available information related to this action by any of the following methods:

- *Federal Rulemaking Website:* Go to <https://www.regulations.gov> and search for Docket ID NRC-2025-0062.
- *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.