

For the Nuclear Regulatory Commission.  
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## NUCLEAR REGULATORY COMMISSION

[Docket Nos. 72-78, 50-317, and 50-318;  
 NRC-2024-0085]

### Constellation Energy Generation, LLC; Calvert Cliffs Nuclear Power Plant, 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 Calvert Cliffs Nuclear  
 Power Plant to maintain nine loaded  
 and to load six new 37 multi-purpose  
 canisters (MPC) with continuous basket  
 shims in HI-STORM Flood/Wind MPC  
 Storage System at its Calvert Cliffs  
 Nuclear Power Plant, Unit 1 and Unit 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. 1, Revision No.  
 1, are not met.

**DATES:** The exemption was issued on  
 May 20, 2024.

**ADDRESSES:** Please refer to Docket ID  
 NRC-2024-0085 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-2024-0085. Address  
 questions about Docket IDs in  
[Regulations.gov](https://www.regulations.gov) to Stacy Schumann;  
 telephone: 301-415-0624; email:  
[Stacy.Schumann@nrc.gov](mailto: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/  
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 "Begin Web-based ADAMS Search." For  
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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](mailto: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  
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 by appointment. To make an  
 appointment to visit the PDR, please  
 send an email to [PDR.Resource@nrc.gov](mailto: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](mailto:Yen-Ju.Chen@nrc.gov).

**SUPPLEMENTARY INFORMATION:** The text of  
 the exemption is attached.

Dated: May 21, 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. 72-78, 50-317, and 50-318

### Constellation Energy Generation, LLC Calvert Cliffs Nuclear Power Plant 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-53  
 and DPR-69, which authorize operation  
 of the Calvert Cliffs Nuclear Power Plant  
 (CCNPP), Units 1 and 2, in Lusby,  
 Maryland, 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 CCNPP ISFSI. Under the terms of  
 the general license, Constellation stores  
 spent fuel at its CCNPP 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. 1, Revision No. 1.

#### II. Request/Action

By a letter dated March 22, 2024  
 (Agencywide Documents Access and  
 Management System [ADAMS]  
 Accession No. ML24082A008),  
 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 CCNPP to comply  
 with the terms, conditions, and  
 specifications of the CoC No. 1032,  
 Amendment No. 1, Revision No. 1  
 (ML15152A358). If approved,  
 Constellation's exemption request  
 would accordingly allow CCNPP to  
 maintain nine loaded and to load six  
 MPCs with continuous basket shims  
 (CBS) (*i.e.*, MPC-37-CBS) in the HI-  
 STORM FW MPC Storage System, and  
 thus, to maintain and load the systems  
 in a storage condition where the terms,  
 conditions, and specifications in the  
 CoC No. 1032, Amendment No. 1,  
 Revision No. 1, are not met.

Constellation currently uses the HI-  
 STORM FW MPC Storage System under  
 CoC No. 1032, Amendment No. 1,  
 Revision No. 1, for dry storage of spent  
 nuclear fuel in MPC-37 at the CCNPP  
 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-37, known as MPC-  
 37-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).

Prior to the issuance of the violations,  
 Constellation had loaded nine MPC-37-

CBS in the HI-STORM FW MPC Storage System, which are safely in storage at the CCNPP ISFSI. Constellation's near-term loading campaign for the CCNPP ISFSI include plans to load six MPC-37-CBS in the HI-STORM FW MPC Storage System beginning in July 2024. While Holtec was required to submit a CoC amendment to the NRC to seek approval of the CBS variant design, such a process will not be completed in time to inform decisions for this near-term loading campaign. Therefore, Constellation submitted this exemption request in order to allow for the continued storage of the nine already loaded MPC-37-CBS, and future loading of six MPC-37-CBS beginning in July 2024 at the CCNPP ISFSI. This exemption is limited to the use of MPC-37-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-37-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-37-CBS in the HI-STORM FW MPC Storage System at its CCNPP ISFSI in a storage condition where the terms, conditions, and specifications in the CoC No. 1032, Amendment No. 1, Revision No. 1, 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-37-CBS in the HI-STORM FW MPC Storage System at the CCNPP ISFSI in a storage condition where the terms, conditions, and specifications in the CoC No. 1032, Amendment No. 1, Revision No. 1, 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-37-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 CCNPP 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 updated final safety analysis report (UFSAR) for the HI-STORM FW MPC Storage System CoC No. 1032, Amendment 1, Revision No. 1, that is used at the CCNPP site. Constellation also described its administrative controls for handling of the HI-STORM FW MPC Storage System at the CCNPP ISFSI to prevent a tip-over or handling event. Those controls include using single-failure-proof handling systems as defined in Section 5.1.6 of NUREG-0612, "Control of Heavy Loads at Nuclear Power Plants" (ML070250180). CCNPP's UFSAR Section 5.7 describes the spent fuel cask handling crane as being designated single-failure-proof

using criteria from NUREG-0554, "Single-Failure-Proof Cranes For Nuclear Power Plants." Constellation referenced its "Rigging and Lifting Program" and use of the Lift Lock (a special lifting device designed to the increased stress limits of ANSI N14.6, "for Radioactive Materials—Special Lifting Devices for Shipping Containers Weighing 10 000 Pounds (4500 kg) or More") to further demonstrate that CCNPP has applicable operational procedures in place to safely load, process, transfer and move the MPCs in accordance with the Technical Specifications in Appendix A of the CoC and the HI-STORM FW UFSAR.

Additionally, Constellation provided specific information from CCNPP's 72.212 Evaluation Report, Revision 3, indicating that during the design basis event of a non-mechanistic tip-over, CCNPP'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 CCNPP 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 CCNPP 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 UFSAR for the HI-STORM FW MPC Storage System CoC No. 1032, Amendment 1, Revision No. 1, that is used at the CCNPP site. In addition, the staff confirmed that the information provided by Constellation regarding CCNPP's 72.212 Evaluation Report, Revision 3, 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 CCNPP 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-37-CBS in the HI-STORM FW MPC Storage System to remain in storage at the CCNPP ISFSI, and allow Constellation to load six MPC-37-CBS in the HI-STORM FW MPC Storage System beginning in July 2024 at the CCNPP ISFSI, even though the CBS variant basket design is not part of the approved CoC No. 1032, Amendment No. 1, Revision No. 1. 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 the future loading campaign would impact Constellation's ability to offload fuel from the CCNPP 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-37-CBS or delay the future loading campaign would impact the ability to effectively manage the margin to full core discharge capability in the CCNPP Units 1 and 2 spent fuel pools. The low spent fuel pool capability 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. It could also result in higher dose to divers routinely performing underwater maintenance on the spent fuel pool fuel transfer system. Furthermore, CCNPP 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 shpping, 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-37-CBS from the HI-STORM FW MPC Storage System at the CCNPP ISFSI and reload into the older design MPC-37 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 the future loading campaign. As described by Constellation, this scenario would affect Constellation's ability to effectively manage the spent pool capacity and reactor fuel offloading at CCNPP. In addition, the rescheduling of the specialized resources for the future loading campaign would impact the operations of CCNPP 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 May 20, 2024 (89 FR 43878).

### 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-37-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-37-CBS beginning in July 2024.

This exemption is effective upon issuance.

Dated: May 20, 2024.

For the Nuclear Regulatory Commission.  
/RA/

**Yoira Diaz-Sanabria,**

*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 No. 72-10; NRC-2024-0086]

#### **Northern States Power Company; Prairie Island Independent Spent Fuel Storage Installation; License Amendment Application**

**AGENCY:** Nuclear Regulatory Commission.

**ACTION:** Opportunity to request a hearing and to petition for leave to intervene.

**SUMMARY:** The U.S. Nuclear Regulatory Commission (NRC) has received a license amendment application from Northern States Power Company (NSPM) for an amendment to Special Nuclear Materials License No. SNM-2506 for the Prairie Island Independent Spent Fuel Storage Installation (PI ISFSI) located in Welch, Minnesota. The amendment request seeks to change License Conditions 23(a), 24(A)(2), and 24(B)(2). The subject license conditions are management activities with specified inspection intervals of three months or one quarter. The inspection intervals are "not to exceed every quarter" for license condition 23 and "not to exceed three months" for license condition 24. This is inconsistent with similar independent spent fuel storage installation (ISFSI) technical specifications (TS) surveillance requirements (SRs), for example, SR