

Eisenhower Avenue, Alexandria, VA 22314; Telephone: (703) 292-8100.

**PURPOSE OF MEETING:** To provide advice concerning issues related to the oversight, integrity, development and enhancement of NSF's business operations.

**AGENDA**

- Welcome/Introductions/Previous Recommendations
- Updates: Annual Conflicts of Interest; BFA; OIRM; Budget/OLPA
- Knowledge Management at NSF
- Hybrid Workforce Evaluation
- Subcommittee on NSF's Information Technology and Enterprise Architecture Strategy
- Meeting with Karen Marrongelle and Teresa Grancorvitz

Dated: November 10, 2022.

**Crystal Robinson,**

*Committee Management Officer.*

[FR Doc. 2022-24907 Filed 11-15-22; 8:45 am]

**BILLING CODE 7555-01-P**

**NATIONAL SCIENCE FOUNDATION**

**Alan T. Waterman Award Committee; Notice of Meeting**

In accordance with the Federal Advisory Committee Act (Pub. L. 92-463, as amended), the National Science Foundation (NSF) announces the following meeting:

**NAME AND COMMITTEE CODE:** Alan T. Waterman Award Committee (#1172).

**DATE AND TIME:** January 30, 2023; 12:30 p.m.–5:30 p.m. (Eastern).

**PLACE:** NSF, 2415 Eisenhower Avenue, Alexandria, VA 22314 (Virtual).

**TYPE OF MEETING:** Closed.

**CONTACT PERSONS:** Gayle Pugh Lev, OD/OIA, National Science Foundation, 2415 Eisenhower Avenue, Alexandria, VA 22314; Telephone: 703-292-7589.

**PURPOSE OF MEETING:** Virtual meeting to provide advice and recommendations in the selection of the Alan T. Waterman Award recipient.

**AGENDA:** To review and evaluate nominations as part of the selection process for awards.

**REASON FOR CLOSING:** The nominations being reviewed include information of a personal nature where disclosure would constitute unwarranted invasions of personal privacy. These matters are exempt under 5 U.S.C. 552b(c), (6) of the Government in the Sunshine Act.

Dated: November 10, 2022.

**Crystal Robinson,**

*Committee Management Officer.*

[FR Doc. 2022-24906 Filed 11-15-22; 8:45 am]

**BILLING CODE 7555-01-P**

**NATIONAL SCIENCE FOUNDATION**

**President's Committee on the National Medal of Science; Notice of Meeting**

In accordance with the Federal Advisory Committee Act (Pub., L. 92-463, as amended), the National Science Foundation (NSF) announces the following meeting:

*Name and Committee Code:*

Presidential Committee on the National Medal of Science (#1182).

*Date and Time:* December 15, 2022; 8:30 a.m.–5 p.m. (Eastern).

*Place:* NSF, 2415 Eisenhower Avenue, Alexandria, VA 22314 (Virtual).

*Type of Meeting:* Closed.

*Contact Persons:* Gayle Pugh Lev, National Science Foundation, 2415 Eisenhower Avenue, Alexandria, VA 22314; Telephone: 703-292-7589.

*Purpose of Meeting:* Virtual meeting to provide advice and recommendations to the President in the selection of the 2022 National Medal of Science laureates. The committee assists the President in carrying out his responsibilities under 42 U.S.C. 1880-1881.

*Agenda:* To review and evaluate nominations as part of the selection process for awards.

*Reason for Closing:* The nominations being reviewed include information of a personal nature where disclosure would constitute unwarranted invasions of personal privacy. These matters are exempt under 5 U.S.C. 552b(c), (6) of the Government in the Sunshine Act.

Dated: November 10, 2022.

**Crystal Robinson,**

*Committee Management Officer.*

[FR Doc. 2022-24934 Filed 11-15-22; 8:45 am]

**BILLING CODE 7555-01-P**

**NUCLEAR REGULATORY COMMISSION**

**[Docket Nos. 72-1014, 72-51, 50-247 and 50-286; NRC-2022-0152]**

**Holtec Decommissioning International, LLC, Indian Point Energy Center, Independent Spent Fuel Storage Installation**

**AGENCY:** Nuclear Regulatory Commission.

**ACTION:** Exemption; issuance.

**SUMMARY:** The U.S. Nuclear Regulatory Commission (NRC) is issuing an exemption in response to a request submitted by Holtec Decommissioning International, LLC (HDI), on behalf of Holtec Indian Point 2, LLC and Holtec Indian Point 3, LLC on March 24, 2022.

This exemption would, if granted, permit HDI to load up to three MPC-32Ms, using Amendment No. 15 of the Holtec International Certificate of Compliance (CoC) No. 1014 for the HI-STORM 100 storage system, with either up to 32 fuel assemblies each containing either a Californium-252 (Cf-252) or an Antimony-Beryllium (Sb-Be) neutron source assemblies (NSA) with sufficient cooling time, or a combination of up to five Plutonium-Beryllium (Pu-Be) NSAs and up to all of the remaining basket locations with fuel assemblies each containing either a Cf-252 or an Sb-Be NSA with sufficient cooling time. Further, it would permit HDI to load the fuel assemblies containing either Cf-252 or Sb-Be NSAs in any location in the basket and the fuel assemblies containing Pu-Be NSAs such that one is located in the center of the basket and no more than one NSA is located in each of the four basket quadrants.

**DATES:** The exemption was issued on November 7, 2022.

**ADDRESSES:** Please refer to Docket ID NRC-2022-0152 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-2022-0152. Address questions about Docket IDs 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/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, 301-415-4737, or by email to [PDR.Resource@nrc.gov](mailto: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:* You may examine and purchase copies of public documents, by appointment, at the NRC's PDR, Room P1 B35, One White Flint North, 11555 Rockville Pike, Rockville, Maryland 20852. 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 8:00 a.m. and 4:00 p.m. Eastern Time (ET), Monday through Friday, except Federal holidays.

**FOR FURTHER INFORMATION CONTACT:** Chris Allen, Office of Nuclear Material Safety and Safeguards, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001; telephone: 301-415-6877; email: *William.Allen@nrc.gov*.

**SUPPLEMENTARY INFORMATION:**

**I. Background**

Holtec Decommissioning International, LLC (HDI), holds a general license for the Indian Point Energy Center Independent Spent Fuel Storage Installation (ISFSI) under provisions in part 72 of title 10 of the *Code of Federal Regulations* (10 CFR), "Licensing Requirements for the Independent Storage of Spent Nuclear Fuel, High-Level Radioactive Waste, and Reactor-Related Greater Than Class C Waste." Under 10 CFR 72.212(a)(2), (b)(3), (b)(5)(i), (b)(11) and 72.214, a general licensee may store spent fuel in a cask, so long as it is one of the approved casks listed in 10 CFR 72.214 and the general licensee conforms to the terms, conditions, and specifications of the relevant certificate of compliance (CoC) or amended CoC. HDI has stated that it plans to use the HI-STORM 100 dry storage system, CoC No. 1014, Amendment No. 15 in an upcoming spent fuel loading campaign.

**II. Request/Action**

By letter dated March 24, 2022, as supplemented on June 17, 2022, HDI, on behalf of Holtec Indian Point 2, LLC and Holtec Indian Point 3, LLC, requested an exemption under 10 CFR 72.7. HDI further clarified its request during a Microsoft Teams call on September 20, 2022. HDI specifically requested an exemption from the requirements of 10 CFR 72.212(b)(3), and the portion of 10 CFR 72.212(b)(11) that states "[t]he licensee shall comply with the terms, conditions, and specifications of the certificate of compliance (CoC)." The exemption request would permit, if granted, HDI to load up to three MPC-32Ms, using Amendment No. 15 of the Holtec International Certificate of Compliance (CoC) No. 1014 for the HI-STORM 100 storage system, with either up to 32 fuel assemblies each containing either a Californium-252 (Cf-252) or an Antimony-Beryllium (Sb-Be) NSA with sufficient cooling time, or a combination of up to five fuel assemblies each containing a Plutonium-Beryllium (Pu-Be) NSA and up to all of the remaining basket locations with fuel assemblies each containing either a Cf-252 or an Sb-

Be NSA with sufficient cooling time. Further, as discussed later, it would permit HDI to load the fuel assemblies containing either Cf-252 and Sb-Be NSAs in any location in the basket and the fuel assemblies containing Pu-Be NSAs such that one is located in the center of the basket and no more than one is located in each of the four basket quadrants. Additionally, although HDI's analysis included information about polonium beryllium (Po-Be) NSAs, based on its September 20, 2022, Microsoft Teams call, HDI indicated that they only wanted to load Cf-252 and Sb-Be NSAs.

Although HDI only requested exemptions from 10 CFR 72.212(b)(3) and (b)(11), to carry out this action, the NRC would also need to grant exemptions from 72.212(a)(2), (b)(5)(i), and 72.214. Consequently, in evaluating the request, the NRC also considered, pursuant to its authority in 10 CFR 72.7, exempting HDI from similar requirements in 10 CFR 72.212(a)(2), 10 CFR 72.212(b)(5)(i); and 10 CFR 72.214, "List of Approved Spent Fuel Storage Casks." For clarity, when this **Federal Register** notice refers to HDI's requested exemption, it means both the two provisions from which HDI requested exemption and the additional provisions from which the NRC staff is considering exempting HDI on its own initiative.

**III. Discussion**

Pursuant to 10 CFR 72.7, 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.

The NRC staff prepared a safety evaluation report to document its safety evaluation of the requested exemption. As summarized in this document, the NRC's safety review concluded that the requested exemption meets the requirements for issuance in 10 CFR 72.7.

*A. The Exemption Is Authorized by Law*

The Commission has the legal authority to issue exemptions from the requirements of 10 CFR part 72 as provided in 10 CFR 72.7. Issuance of this exemption is consistent with the Atomic Energy Act of 1954, as amended, and is not otherwise inconsistent with NRC's regulations or other applicable laws. Therefore, issuance of the exemption is authorized by law.

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

The staff reviewed HDI's exemption request and concludes, as discussed further, that the proposed exemption from certain requirements of 10 CFR part 72 will not cause the HI-STORM 100 storage cask to encounter conditions beyond those for which it has already been evaluated and demonstrated to meet the applicable safety requirements in 10 CFR part 72. The staff followed the guidance in NUREG-2215, "Standard Review Plan for Spent Fuel Dry Storage Systems and Facilities," April 2020, to complete its safety evaluation.

**Safety Review of the Requested Exemption**

HDI submitted an exemption request to deviate from the requirement in CoC No. 1014, Appendix D, table 2.1-1, section V, "MPC MODEL: MPC-32M," Item C of Amendment No. 15 for CoC No. 1014 only permits general licensees to load a single NSA per cask. Further, per Final Safety Analysis Report (FSAR) table 2.II.1.1, Rev. 22, the single NSA must be located in a cell in the inner part of the basket (*i.e.*, fuel storage location 13, 14, 19, or 20). The staff reviewed the exemption request and concluded that the proposed exemption from certain requirements of 10 CFR part 72 will not cause the HI-STORM 100 storage system to encounter conditions beyond those for which it has been evaluated and demonstrated to meet the applicable safety requirements in 10 CFR part 72.

The staff determined that the presence of additional NSAs or the presence of those NSAs in different locations throughout the basket will not cause the bounding canister weight previously evaluated in approving Amendment No. 15 to be exceeded, making a structural evaluation unnecessary. Further, the staff determined that the decay heat contribution from activated metal associated with the NSAs at issue in the specified locations is negligible compared to the decay heat from the fuel assembly.

Consequently, the staff determined that a thermal evaluation is unwarranted. Since the NSAs are located inside the confinement boundary of the multi-purpose canister (MPC) and changing the number of NSAs, or their locations, will not change that fact, a confinement evaluation is also not necessary. In addition, increasing the neutron source terms by adding NSAs in different locations does not increase the multiplication factor. Therefore, criticality safety is not affected, and a criticality evaluation is

unnecessary. Therefore, shielding is the only area potentially affected by the requested exemption.

#### Shielding

The current CoC authorizes general licensees to load only a single fuel assembly containing an NSA per cask, and that fuel assembly must be loaded in a cell within the inner part of the basket (*i.e.*, fuel storage location 13, 14, 19, or 20) because NSAs can have a significant neutron source term. The applicant developed a quantitative analysis that explicitly evaluated the neutron dose rates associated with storing more than one fuel assembly containing an NSA per cask to support new loading requirements. In its analysis, the applicant evaluated two possible high-level loading scenarios: a maximum of 32 fuel assemblies each containing an NSA and a maximum of five fuel assemblies each containing a Pu-Be NSA.

For both scenarios, the applicant considered three primary NSA types in its evaluation: Cf-252, Pu-Be, and Po-Be. During the September 20, 2020, Microsoft Teams call, HDI indicated that they only wanted to load Cf-252 and Sb-Be NSAs. Consequently, the staff did not consider Po-Be NSAs in its evaluation of this exemption. Cf-252 and Pu-Be NSAs have half-lives of 2.646 years and 87.7 years, respectively. The applicant also considered a secondary NSA type, Sb-Be, with a half-life of 60.2 days. For Cf-252, which decays by neutron emission, the analysis identified that the neutron source strength will reduce gradually over time because the half-life is on the order of a few years; neither long enough for the source strength to remain relatively constant, nor short enough for the reduction to be quick. For Pu-Be, which generates neutrons when the beryllium absorbs an alpha particle emitted by the plutonium, the analysis identified that the neutron source strength will remain essentially the same as when the NSA was manufactured (*i.e.*, it will not reduce significantly over time) because the half-life for plutonium is very long. For Sb-Be, which produces neutrons when the beryllium interacts with a high energy gamma emitted by activated antimony (*i.e.*, antimony that has absorbed neutrons), the analysis identified that the neutron source strength will reduce very quickly over time because of the short half-life of the activated antimony.

In evaluating the scenario of loading a maximum of 32 fuel assemblies containing NSAs, the applicant determined, using the initial source strength and the half-life values in the

previous paragraph, that after seven half-lives the neutron source strength of a fuel assembly containing either a Cf-252 or an Sb-Be NSA is negligibly higher than the neutron source strength of a design basis fuel assembly. Therefore, the applicant asserted that, after seven half-lives, the presence of either a Cf-252 or an Sb-Be NSA within a design basis fuel assembly will not significantly increase the dose rate from a design basis fuel assembly. Consequently, the applicant concluded that up to 32 fuel assemblies each containing either a Cf-252 or an Sb-Be NSA can be loaded per basket, and that they can be loaded into any basket location.

Staff reviewed the applicant's approach. In reviewing this approach, staff found that the applicant could load up to 32 fuel assemblies each containing either a Cf-252 or an Sb-Be NSA—with those 32 fuel assemblies having any combination of Cf-252 and Sb-Be NSAs—and that the neutron source strength of each fuel assembly with either a Cf-252 NSA or an Sb-Be NSA increased by only a small amount, approximately  $2 \times 10^{-6}$  neutrons per second, after seven half-lives relative to a design basis fuel assembly. Because this increase is so small, after seven half-lives, the dose rate of a canister containing 32 fuel assemblies with either Cf-252 or Sb-Be NSAs that have undergone seven half-lives of decay will be very similar to the dose rate of a container containing 32 design basis fuel assemblies. More specifically, accounting for statistical uncertainties, dose rates would potentially increase a millirem/hr or less, if at all, under both normal and accident conditions. The NRC staff considers dose rate increases of this magnitude to be negligible relative to the dose rates from design basis fuel assemblies. Therefore, the staff determined that the analysis demonstrated that dose rates under both normal and accident conditions would increase negligibly by the addition of 32 fuel assemblies containing either Cf-252 or Sb-Be NSAs after seven half-lives of decay time. Further, because a canister loaded with 32 fuel assemblies each containing either a Cf-252 or Sb-Be NSA would have an NSA loaded in every fuel loading location and because the effect on dose would be negligible, the NRC staff concludes that loading fuel assemblies containing either a Cf-252 or an Sb-Be NSA in any location in the basket would have a negligible effect on dose.

In evaluating loading a maximum of five fuel assemblies each containing a Pu-Be NSA the applicant performed dose rate calculations assuming each

NSA had the design basis fuel assembly neutron source term in HI-STORM 100 FSAR table 5.2.15 rather than the actual source strength of an NSA. The applicant evaluated dose rates using the general-purpose, continuous-energy, generalized-geometry, time-dependent Monte Carlo N-Particle (MCNP) code. The applicant used MCNP5 version 1.41 to model the MPC-32M, with up to five NSAs per basket, in both the HI-TRAC Version MS and the HI-STORM 100S Version E overpack. The MCNP model located one NSA in the center of the MPC-32M (*i.e.*, cell locations 13, 14, 19 and 20 of appendix D, figure 2.1-1). In addition, the model located the remaining four NSAs on the basket periphery with one NSA in each basket quadrant.

The applicant calculated the maximum dose rate from the NSAs in the fuel assembly and not the maximum total dose rate from the fuel assembly and the NSA. The applicant asserted that this approach would result in conservative dose rates because the maximum dose rate due to the design basis fuel assembly may be in a different location (*e.g.*, the midplane of the overpack radial surface) from the maximum dose rate due to the NSAs. The applicant calculated dose rates at the same surface and one-meter locations for design basis fuel under normal conditions as reported in HI-STORM 100 FSAR tables 5.II.1.1 and 5.II.1.3. Additionally, the applicant evaluated the dose rate at 100 meters for design basis fuel in the HI-TRAC under accident conditions at the same locations as reported in HI-STORM 100 FSAR table 5.II.1.4. The analysis determined the maximum dose rate increase under normal conditions due to adding four fuel assemblies each containing a Pu-Be NSA, in addition to the fuel assembly containing an NSA authorized by CoC No. 1014, at the following locations: the overpack surface, one meter from the overpack surface, the HI-TRAC surface, and one meter from the HI-TRAC surface. The analysis calculated the following dose rate increases at these locations: 3.44 millirem per hour (mrem/hr), 0.78 mrem/hr, 1099.92 mrem/hr and 122.69 mrem/hr respectively. Finally, the analysis determined the maximum dose rate increase under accident conditions due to adding four NSAs, in addition to the NSA authorized by CoC No. 1014, at 100 meters from the HI-TRAC is 0.27 mrem/hr.

In conducting its evaluation, the applicant assumed the Pu-Be NSA source strength equaled the design basis fuel assembly source strength of  $1.4 \times 10^9$  neutrons per second. The staff

determined that this approach is conservative because the initial source term of a Pu-Be NSA is approximately  $1.5 \times 10^6$  neutrons per second which is less than the value HDI used. Because the MCNP code is a standard tool in the nuclear industry for performing Monte Carlo criticality safety and radiation shielding calculations, the staff found MCNP an acceptable code for this application. Because the exemption request is limited to fuel stored in an MPC-32M, which can only be stored in the HI-STORM 100S Version E overpack, and because the HI-TRAC MS can only be used with the HI-STORM 100S Version E overpack, staff found it acceptable to limit the MCNP analyses to the HI-TRAC MS and the HI-STORM 100S Version E overpack. In addition, the applicant calculated the dose rates related to this exemption at the same locations at which it calculated the dose rates for HI-STORM Amendment No. 15. In issuing Amendment No. 15, staff determined the dose rates at these locations satisfied as low as is reasonably achievable (ALARA) principles, where relevant, and demonstrated compliance with 10 CFR 72.104 and 10 CFR 72.106, as well as 10 CFR part 20, as documented in Section 6 of the SER staff prepared to support issuance of Amendment No. 15. Nothing about this exemption would affect, or in any way make inapplicable, the staff's previous finding that calculating the dose rate at those locations is acceptable. Therefore, staff finds these locations are appropriate for calculating dose rates associated with this exemption.

Further, the staff reviewed the applicant's approach of only calculating the maximum dose rate caused by the NSAs in the fuel assemblies and not the overall maximum dose rate. The total dose rate from two different sources (*i.e.*, the design basis fuel assembly and the NSA) is simply the sum of the individual dose rates. Consequently, by taking the dose rate caused by design basis fuel assemblies in the canister, which are found in FSAR tables 5.II.1.1, 5.II.1.3 and 5.II.1.4 and adding them to the dose rate caused by the NSAs within fuel assemblies, the staff was able to evaluate the overall maximum dose rate as part of its review. Therefore, the staff also found acceptable the applicant's approach of only calculating the maximum dose rate due to fuel assemblies containing NSAs.

When the staff approved the MPC-32M, the HI-TRAC MS and the HI-STORM 100S Version E overpack, the staff identified two accident conditions that increased the dose at the controlled area boundary: (1) the draining of the

neutron shield water jacket for the transfer cask and (2) a non-mechanistic tipover of the overpack which exposes the bottom of the cask. As discussed in the SER approving the HI-STORM 100S Version E overpack, staff found it very unlikely that the Version E overpack would tip over. Nothing about this exemption would affect that conclusion. Therefore, the staff found the applicant's approach of modeling the HI-TRAC with the assumed loss of the neutron absorber as the bounding accident acceptable for this evaluation.

NRC staff concluded that the increased dose rates under normal conditions from the presence of up to five fuel assemblies containing Pu-Be NSAs are acceptable for the HI-STORM overpack because the dose rate increase is less than a mrem/hr for all locations except at the midplane of the radial surface on the overpack surface where it increased by less than four mrem/hr. Relative to the dose rates from loading the canister as already approved, staff considers dose rate increases of this magnitude negligible. Additionally, the dose rate increases at a distance of one meter are even less than the dose rate increases at the surface. Thus, relative to the dose rates from loading the canister as already approved, the staff also considers these dose rate increases to be negligible. Further, the HI-TRAC MS dose rates increased by less than ten percent compared to the dose rates in HI-STORM 100 FSAR table 5.II.1.3 at all locations both on the HI-TRAC MS surface and one meter from the HI-TRAC MS surface except at the HI-TRAC MS radial surface midplane where the dose rate increased by 28 percent (*i.e.*, 1099.92 mrem/hr). Staff considers the dose rate increase at the HI-TRAC MS radial surface midplane a very localized effect due to the reduced neutron shielding capability of the HI-TRAC MS compared to the HI-STORM 100S Version E overpack. The staff considers the HI-TRAC MS dose rate increases, including the increase at the radial surface midplane, acceptable for the following reasons. First, radiological workers would only be exposed to these increased dose rates for relatively short periods of time. Second, members of the public will be exposed to even lower dose rates since 10 CFR 72.106(b) requires a minimum distance of 100 meters between spent fuel and members of the public and dose rates decrease as distance increases. NRC staff also determined that an increase in the HI-TRAC dose rates of less than ten percent compared to the dose rates in HI-STORM 100 FSAR table 5.II.1.4 for the HI-TRAC MS accident condition dose

rates due to the presence of up to five fuel assemblies containing Pu-Be NSAs is acceptable because staff confirmed through hand calculations that the dose at 100 meters meets the 10 CFR 72.106 requirement assuming a 30-day duration. Finally, after adding the dose rates considered when issuing CoC 1014, Amendment No. 15 to the dose rate increases that would result from approving this exemption, staff finds that canisters loaded in accordance with this exemption will continue to satisfy overall dose limits of 10 CFR 72.104 for normal conditions, 10 CFR 72.106 for accident conditions, and the limits in 10 CFR part 20. These conclusions only apply, however, when the fuel assemblies containing the Pu-Be NSAs are loaded such that one is located in the center of the basket (*i.e.*, fuel storage location 13, 14, 19, or 20) and no more than one is located in each of the four basket quadrants.

As referenced earlier, if granted, this exemption would permit HDI to load a fuel canister with up to five fuel assemblies each containing a Pu-Be NSA and up to all of the remaining basket locations with fuel assemblies each containing either a Cf-252 or an Sb-Be NSA that has decayed for at least seven half-lives. HDI did not provide an analysis of this specific configuration. That said, as discussed previously, staff has already analyzed a canister loaded with five fuel assemblies each containing a Pu-Be NSA and a canister loaded with 32 fuel assemblies each containing either a Cf-252 or an Sb-Be NSA that has decayed for at least seven half-lives. Staff concluded that the neutron source strength of a fuel assembly with either a Cf-252 NSA or an Sb-Be NSA increased by only a small amount—approximately  $2 \times 10^{-6}$  neutrons per second—after seven half-lives relative to a design basis fuel assembly. As discussed before, the staff concluded that that source strength increase was so small that the neutron dose rate increase, if any, associated with loading a canister with 32 fuel assemblies each containing either a Cf-252 or an Sb-Be NSA would be negligible. As the dose rate increase from loading a canister with 32 fuel assemblies each containing either a Cf-252 or an Sb-Be NSA would be negligible, it follows that adding 27 fuel assemblies each containing either a Cf-252 or an Sb-Be NSA that has undergone seven half-lives of decay, will have a similarly negligible effect on dose rate because the increase in neutron source strength will be even smaller than when loading 32 such fuel assemblies. Consequently, loading 27

fuel assemblies each containing either a Cf-252 or an Sb-Be NSA that has undergone seven half-lives of decay into a canister with five fuel assemblies each containing a Pu-Be NSA will negligibly increase the neutron dose rate, if at all, beyond the neutron dose rate associated with loading just five fuel assemblies each containing a Pu-Be NSA.

Therefore, the staff determined that under this loading scenario—up to five fuel assemblies each containing a Pu-Be NSA and up to 27 fuel assemblies, each containing a Cf-252 or an Sb-Be NSA—the dose rates under both normal and accident conditions will continue to satisfy overall dose limits of 10 CFR 72.104 for normal conditions, 10 CFR 72.106 for accident conditions, and the limits in 10 CFR part 20. Finally, the staff determined that this loading scenario, along with the scenario of loading 32 fuel assemblies each containing a Cf-252 or an Sb-Be NSA bound all loading scenarios that this exemption, if granted, would permit because the other loading scenarios will be a version of these two scenarios with fewer fuel assemblies containing NSAs and, therefore, less dose.

As a final note, the staff's analysis of a canister loaded with five fuel assemblies each containing a Pu-Be NSA depends on HDI's dose rate analysis. As discussed previously, that analysis was based on a model with one NSA in the center of the MPC-32M (*i.e.*, cell locations 13, 14, 19 and 20 of appendix D, figure 2.1-1) and the remaining four NSAs on the basket periphery with one NSA in each basket quadrant.

Consequently, the staff's analysis of and conclusions about this loading scenario—up to five fuel assemblies each containing a Pu-Be NSA and up to 27 fuel assemblies, each containing a Cf-252 or an Sb-Be NSA—only apply when the fuel assemblies containing Pu-Be NSAs are loaded with one in the center of the basket and a maximum of one in each of the remaining quadrants.

Although the exemption request did not explicitly evaluate the gamma dose associated with storing more than one NSA, the applicant asserted that the additional gamma dose due to activation of the NSA components will remain within the limits of 10 CFR 72.104 for normal conditions and 10 CFR 72.106 for accident conditions. In evaluating this assertion, staff reviewed HI-STORM 100 FSAR sections 5.2.7.1 submitted with Amendment No. 15 in which Holtec International stated that the total Burnable Poison Rod Assembly (BPRAs) activation source term bounded the total NSA activation source term. In approving Amendment No. 15, in SER

section 6.2.2.3, the staff found the use of the BPRAs source term to represent all non-fuel hardware—including Pu-Be, Cf-252, and Sb-Be NSAs—acceptable. Further, the SER approving Amendment No. 15 determined that a canister loaded with 32 fuel assemblies containing BPRAs would remain within the limits of 10 CFR 72.104 for normal conditions and 10 CFR 72.106 for accident conditions. Because the staff found that the BPRAs activation source term bounded the NSA activation source term in approving Amendment No. 15, and because this exemption does not change or affect that determination, the staff determined, for this exemption request, that the gamma source term associated with storing either five fuel assemblies each containing a Pu-Be NSA and up to 27 fuel assemblies each containing either a Cf-252 or an Sb-Be NSA or 32 fuel assemblies each containing either a Cf-252 or an Sb-Be NSA in an MPC-32M canister is bounded by the dose rates evaluated in Amendment No. 15. Therefore, because the dose rates evaluated in Amendment No. 15 met the applicable regulatory requirements, the staff finds that the dose due to activation of NSA components will remain within the limits of 10 CFR 72.104 for normal conditions, 10 CFR 72.106 for accident conditions, and the limits in 10 CFR part 20.

Finally, the staff reviewed the application from the perspective of dose rates remaining ALARA. Staff determined that the proposed exemption did not alter those aspects of the HI-STORM 100 system that the SER issued with CoC No. 1014 Amendment No. 15 had indicated contributed to a finding that ALARA had been satisfied (*e.g.*, temporary shielding equipment utilized during loading operations). In addition, as explained in section 11.1.2 of the SER issued with Amendment No. 15 to CoC No. 1014, the staff found reasonable assurance that the design of the HI-TRAC MS and the operational restrictions meet ALARA objectives for direct radiation levels because the estimated occupational exposure in FSAR table 10.II.3 was below the 10 CFR 20.1202(a) dose limit for an individual. For this exemption request, staff increased the estimated occupational exposure in FSAR table 10.II.3.1 by 3.3 percent, which was the greatest increase for locations where most operations occurred. The revised estimated occupational exposure remained below the 10 CFR 20.1201(a) dose limit. Therefore, consistent with these previous evaluations, the staff finds that for a canister loaded as

permitted by this exemption, the occupational doses would remain ALARA despite the overall increase in dose.

#### Review of Common Defense and Security

HDI's exemption request is not related to any aspect of the physical security or defense of the Indian Point Energy Center ISFSI. In addition, the number of NSAs stored within a multipurpose canister does not affect the Indian Point Energy Center ISFSI security plans. Therefore, granting the exemption would not result in any potential impacts to common defense and security.

As discussed earlier, the staff has evaluated the effects this exemption would have, if granted, on shielding for the configurations that exist during the different stages of storage operations including under both normal and accident conditions. This evaluation includes dose rate results which lead the staff to conclude that the HI-STORM 100 system will meet the limits in 10 CFR part 20, the 10 CFR 72.104 and 72.106 radiation protection requirements, and that ALARA principles for occupational exposure are adequately considered and incorporated into the HI-STORM 100 system design and operations after implementing the exemption. The staff reached this finding based on a review that considered the regulations, appropriate regulatory guides, applicable codes and standards, accepted engineering practices, and the statements and representations in the application. Based on this evaluation, the staff concludes that granting this exemption will not endanger life, property or the common defense and security.

#### D. Otherwise in the Public Interest

During a June 17, 2022, Microsoft Teams call with the NRC, the applicant indicated that granting the requested exemption would result in shorter operation of the spent fuel pool cleaning system. Shorter operation of the cleaning system would generate less waste of which the licensee would ultimately need to dispose. The staff reviewed the information provided by HDI, and based upon the earlier stated information, concludes that granting the requested exemption would be in the public interest because it would result in the generation of less low-level waste.

#### E. Environmental Considerations

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 quantities of effluents that may be released offsite, and there is 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 October 31, 2022 (87 FR 65613).

**IV. Conclusion**

Based on the statements and representations provided by HDI in its

exemption request, the staff concludes that the proposed action is authorized by law and will not endanger life, property, or the common defense and security, and is otherwise in the public interest. As a result, the NRC staff concludes the requested exemption meets the requirements in 10 CFR 72.7. Therefore, the NRC staff hereby grants HDI, an exemption from 10 CFR 72.212(a)(2), (b)(3), (b)(5)(i), (b)(11), and 72.214, pursuant to 10 CFR 72.7, permitting HDI to load up to three MPC-32Ms, using Amendment No. 15 for CoC No. 1014, with either up to 32 fuel assemblies each containing either a Cf-252 or an Sb-Be NSA with sufficient cooling time, or a combination of up to five fuel assemblies each containing a Pu-Be NSA and up to all of the remaining basket locations with fuel

assemblies each containing either a Cf-252 or an Sb-Be NSA with sufficient cooling time. Further, it permits HDI to load the fuel assemblies containing either Cf-252 or Sb-Be NSAs in any location in the basket and the fuel assemblies containing Pu-Be NSAs such that one is located in the center of the basket (i.e., fuel storage locations 13, 14, 19, or 20) and no more than one is located in each of the four basket quadrants.

The exemption is effective upon issuance.

**V. Availability of Documents**

The documents identified in the following table are available to interested persons through one or more of the following methods, as indicated.

Document description	ADAMS accession No.
Issuance of Certificate of Compliance No. 1014, Amendment No. 15 for the HI-STORM 100 Multipurpose Canister Storage System, dated May 13, 2021.	ML21118A862 (package).
Indian Point Energy Center—Request for Exemption from an Allowable Contents Requirement Contained in the Certificate of Compliance No. 1014 for the HI-STORM 100S Version E Cask, dated March 24, 2022.	ML22083A191.
Indian Point Exemption Environmental Assessment Conversation Record (6-16-22), date of contact June 16, 2022	ML22172A174
Neutron Source Assembly Loading Clarification Call, date of contact September 20, 2022	ML22264A045.
Safety Evaluation Report, dated November 7, 2022	ML22217A017.
HI-2002444, Revision 22, Holtec International Final Safety Analysis Report for the HI-STORM 100 Cask System, dated July 1, 2021.	ML21221A329.

Dated: November 9, 2022.

For the Nuclear Regulatory Commission.

**Yaira K. Diaz-Sanabria,**

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

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**BILLING CODE 7590-01-P**

**POSTAL REGULATORY COMMISSION**

[Docket Nos. MC2023-41 and CP2023-40; MC2023-42 and CP2023-41]

**New Postal Products**

**AGENCY:** Postal Regulatory Commission.

**ACTION:** Notice.

**SUMMARY:** The Commission is noticing a recent Postal Service filing for the Commission’s consideration concerning a negotiated service agreement. This notice informs the public of the filing, invites public comment, and takes other administrative steps.

**DATES:** *Comments are due:* November 18, 2022.

**ADDRESSES:** Submit comments electronically via the Commission’s Filing Online system at <http://www.prc.gov>. Those who cannot submit comments electronically should contact the person identified in the **FOR FURTHER**

**INFORMATION CONTACT** section by telephone for advice on filing alternatives.

**FOR FURTHER INFORMATION CONTACT:** David A. Trissell, General Counsel, at 202-789-6820.

**SUPPLEMENTARY INFORMATION:**

**Table of Contents**

- I. Introduction
- II. Docketed Proceeding(s)

**I. Introduction**

The Commission gives notice that the Postal Service filed request(s) for the Commission to consider matters related to negotiated service agreement(s). The request(s) may propose the addition or removal of a negotiated service agreement from the Market Dominant or the Competitive product list, or the modification of an existing product currently appearing on the Market Dominant or the Competitive product list.

Section II identifies the docket number(s) associated with each Postal Service request, the title of each Postal Service request, the request’s acceptance date, and the authority cited by the Postal Service for each request. For each request, the Commission appoints an officer of the Commission to represent the interests of the general public in the

proceeding, pursuant to 39 U.S.C. 505 (Public Representative). Section II also establishes comment deadline(s) pertaining to each request.

The public portions of the Postal Service’s request(s) can be accessed via the Commission’s website (<http://www.prc.gov>). Non-public portions of the Postal Service’s request(s), if any, can be accessed through compliance with the requirements of 39 CFR 3011.301.<sup>1</sup>

The Commission invites comments on whether the Postal Service’s request(s) in the captioned docket(s) are consistent with the policies of title 39. For request(s) that the Postal Service states concern Market Dominant product(s), applicable statutory and regulatory requirements include 39 U.S.C. 3622, 39 U.S.C. 3642, 39 CFR part 3030, and 39 CFR part 3040, subpart B. For request(s) that the Postal Service states concern Competitive product(s), applicable statutory and regulatory requirements include 39 U.S.C. 3632, 39 U.S.C. 3633, 39 U.S.C. 3642, 39 CFR part 3035, and 39 CFR part 3040, subpart B. Comment deadline(s) for each request appear in section II.

<sup>1</sup> See Docket No. RM2018-3, Order Adopting Final Rules Relating to Non-Public Information, June 27, 2018, Attachment A at 19-22 (Order No. 4679).