AMERICA'S NUCLEAR SOLUTION

April 28, 2016

Mr. Mark Lombard, Director
U.S. Nuclear Regulatory Commission
Division of Spent Fuel Management
Attention: Document Control Desk
One White Flint North
11555 Rockville Pike
Rockville, MD 20852-2738

Subject: License Application to Construct and Operate a Consolidated Interim Storage Facility for Spent Nuclear Fuel in Andrews County, Texas, Docket 72-1050

Dear Mr. Lombard:

Waste Control Specialists LLC (WCS) hereby files its specific license application requesting authorization to construct and operate a Consolidated Interim Storage Facility (CISF) for Spent Nuclear Fuel and Reactor-Related Greater Than Class C Low-Level Waste (referred to henceforth as SNF) in Andrews County, Texas.

WCS requests authorization to possess 5,000 Metric Tons of Uranium (MTU) for dry-cask storage of SNF for a duration of 40 years. The license application focuses primarily on receiving SNF from the existing permanently shutdown and/or decommissioned commercial reactors across the U.S. WCS believes that this approach will allow for the safe consolidated interim storage of SNF in a community that has expressed its willingness to host such a facility consistent with the recommendations from President Barack Obama's Blue Ribbon Commission on America's Nuclear Future, until such time that a permanent geologic repository is licensed, constructed, and able to serve the nation's need as envisioned under the Nuclear Waste Policy Act of 1982.

The purpose and objective of licensing the CISF in Andrews County, Texas, is to allow the removal of SNF and the return of decommissioned reactor sites to a green field status. These lands may be subsequently repurposed in ways that economically benefit the communities that had been willing to host commercial nuclear reactors needed to generate electricity. A conservative and comprehensive cost-benefit analysis concluded that this is an economically efficient solution that could reduce the expenditure of the Federal Government by hundreds of millions of dollars compared to the "no action" alternative. Additionally, by allowing the federal government to meet its obligations to take spent nuclear fuel, this approach could also allow the burden to shift to the ratepayers, who have already paid into the Nuclear Waste Fund, and save taxpayers over 5.4 billion dollars. Finally, there could be a benefit of over 1 billion dollars to the local communities that are currently hosting or that will in the future host de facto "interim storage facilities" at

Corporate
5430 LBJ Freeway, Ste. 1700
Three Lincoln Centre
Dallas, TX 75240
Ph. 972.715.9800
Fx. 972.448.1419

Facility
P.O. Box 1129
Andrews, TX 79714
Ph. 888.789.2783
Fx. 432-525-8902

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decommissioning reactor sites, in that they would be able to more constructively repurpose land being used for no other function than to store "stranded" fuel.

As specified in the license application, WCS anticipates that the U.S. Department of Energy (DOE) would take title to the SNF and transport it from existing storage sites across the U.S. to the CISF.

WCS has prepared the license application consistent with the requirements specified in Title 10 of the Code of Federal Regulations (CFR), Part 72, *Licensing Requirements for the Independent Storage of Spent Nuclear Fuel, High-Level Radioactive Waste, and Reactor-Related Greater Than Class C Waste.* WCS also relied on information provided in Regulatory Guide (RG) 3.50, *Standard Format and Content for a Specific License Application for an Independent Spent Fuel Storage Installation or Monitored Retrievable Storage Facility*, to prepare the license.

The specific license application contains the following:

- A Safety Analysis Report (SAR) which contains the information specified in 10 CFR 72.24, Contents of application: Technical information. It was prepared following the information provided in RG-3.48, *Standard Format and Content for the Safety Analysis Report for an Independent Spent Fuel Storage Installation or Monitored Retrievable Storage Installation (Dry Storage)*. Information provided in NUREG-1567, *Standard Review Plan for Spent Fuel Dry Storage Facilities*, was also used to prepare the SAR.

- A Quality Assurance Program Description is provided in Chapter 6 and Appendix C to the license application pursuant to 10 CFR 72.24(n) and 72.140(d).

- The Physical Security Plan, including the guard training, and a Safeguard Contingency Plan, are provided pursuant to 10 CFR 72.24(o), 72.180, and 72.184, respectively, separately as part of this license application because it contains Safeguards Information.

- Proposed Technical Specifications are provided in Appendix A of the license application pursuant to the requirements specified in 10 CFR 72.26.

- A description of WCS' technical qualifications is provided in Chapters 2 of the license application pursuant to 10 CFR 72.28.

- WCS' proposed training program is similarly described in Chapter 7 of the license application as required under 10 CFR 72.28(b) and §72, Subpart I.

- A proposed decommissioning plan and decommissioning funding plan is provided in Chapter 10, as well as Appendices B and D of license application. A decommissioning cost estimate supporting the license application was prepared following NUREG-1757, *Consolidated Decommissioning Guidance.*

- WCS' Emergency Response Plan (ERP) is included as part of this application pursuant to 10 CFR 72.32. This plan was prepared to include the location and hazards associated with storing SNF at the CISF following RG 3.67, *Standard Format and Content for Emergency Plans for Fuel Cycle and Materials Facilities*, and other guidance specified in the ERP.

- An Environmental Report was prepared to assess the radiological and non-radiological impacts associated with storing up to 40,000 MTU of SNF for a period of 40 years following NUREG-1748, *Environmental Review Guidance for Licensing Actions Associated with NMSS Programs*. WCS ensured that the cumulative environmental impacts associated with storing SNF at the CISF were evaluated in a manner that avoids segmentation of the requirements specified in the National Environmental Policy Act of 1969. WCS also incorporated by reference Environment Impact Statements previously conducted by the NRC related to the transportation and storage of SNF, as well as at the National Enrichment Facility located on property adjacent to the CISF.

- Proposed license conditions are provided in Chapter 13 of the license application pursuant to 10 CFR 72.44.

WCS hereby files its license application with the NRC. Both proprietary and non-proprietary versions of the license application and supporting documents are provided herein accompanied by the enclosed affidavits pursuant to 10 CFR 2.390.

WCS requests that a copy of all correspondence regarding this matter be directly emailed to my attention (skirk@valhi.net) as soon as possible after issuance. If you have any questions or need additional information, please call me at 972-450-4284.

I certify under penalty of perjury that the foregoing is true and correct.

Executed on April 25, 2016.

J. Scott Kirk, CHP
Vice President of Licensing and Regulatory Affairs

I certify the above named person appeared before me and executed this document on this the 25th day of April, 2016.

Greta Wallace
Notary Public

February 22, 2018
My commission expires

GRETA WALLACE
Notary Public, State of Texas
My Commission Expires
February 22, 2018

Mr. Mark Lombard, Director
U.S. Nuclear Regulatory Commission
April 28, 2016

cc: entire submittal (computer DVD)

John-Chau Nguyen, NRC
WCS Records Management
Charles Maguire, TCEQ

cc: w/o enclosures (paper copy)

Scott Moore, NRC
Rodney Baltzer, WCS
Elicia Sanchez, WCS
Jay Cartwright, WCS
Jay Britten, WCS
Jeremy Vesely, WCS
Michael McMahon, AREVA
Kent Cole, NAC International
WCS Regulatory Compliance

Enclosures:

1. WCS Application for a License for a Consolidated Interim Spent Fuel Storage Facility
2. WCS Consolidated Interim Storage Facility System Safety Analysis Report, Revision 0 (Proprietary Version)
3. WCS ERP-100, Consolidated Emergency Response Plan, 04-19-2016 Revision
4. WCS Consolidated Interim Spent Fuel Storage Facility Environmental Report, Revision 0 (Proprietary Version)
5. Affidavits Pursuant to 10 CFR 2.390
   - Waste Control Specialist LLC (two affidavits)
   - AREVA (E-45107)
   - NAC International
6. Calculations (Proprietary)
   - WCS01-0502 Revision 0, Confinement Evaluation (Proprietary)
   - 30039-2020 Revision 0, MPC Concrete Cask Lift Evaluation (Proprietary)
7. Drawings
   - 414-862 Revision 6, Loaded Vertical Concrete Cask (VCC) CY-MPC
   - 414-866 Revision 6, Reinforcing Bare and Concrete Placement, Vertical Concrete Cask (VCC) CY-MPC
   - 455-862 Revision 9, Loaded Vertical Concrete Cask (VCC) MPC-Yankee
   - 455-866 Revision 6, Reinforcing Bare and Concrete Placement, Vertical Concrete Cask (VCC) MPC-Yankee
   - 630045-862 Revision 1, Loaded Vertical Concrete Cask (VCC) MPC-LACBWR
   - 630045-866 Revision 2, Reinforcing Bare and Concrete Placement, Vertical Concrete Cask (VCC) MPC-LACBWR

8. WCS Procedure QP-10.02 Revision 1, Post Transport Package Evaluation (Proprietary)
9. ADAMS Accession Numbers Tables
   - NAC International Inc.
   - NUHOMS® Systems
10. LCO Matrices for Various Licenses and CoCs
11. CISF LA NUREG-1567 Cross Reference Matrix, Rev. 06.xlsx
12. Canister Licensing Histories
13. WCS Consolidated Interim Storage Facility System Safety Analysis Report, Revision 0 (Non-proprietary Version)
14. WCS Consolidated Interim Spent Fuel Storage Facility Environmental Report, Revision 0 (Non-proprietary Version)

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