



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001**

December 8, 2016

**MEMORANDUM TO:** Anthony Hsia, Deputy Director  
Division of Spent Fuel management  
Office of Nuclear Material Safety  
and Safeguards

**FROM:** John-Chau Nguyen, Senior Project Manager **/RA/**  
Spent Fuel Licensing Branch  
Division of Spent Fuel Management, NMSS  
Office of Nuclear Material Safety  
and Safeguards

**SUBJECT:** SUMMARY OF NOVEMBER 22, 2016, PUBLIC MEETING WITH  
WASTE CONTROL SPECIALISTS TO DISCUSS ITS PROPOSED  
APPROACHES TO REFERENCING PREVIOUSLY APPROVED  
STORAGE CERTIFICATES OF COMPLIANCE AND SAFETY  
ANALYSIS REPORTS, STORAGE OF GREATER THAN CLASS C  
WASTE, AND ADDRESSING NRC COMMENTS FROM THE AUGUST  
22, 2016, MEETING

**PURPOSE:**

For the Nuclear Regulatory Commission (NRC) staff and representatives from Waste Control Specialists (WCS) to discuss WCS proposed approaches to referencing previously approved storage certificates of compliance (CoCs) and final safety analysis reports (SARs), storage of greater than class C (GTCC) waste, addressing NRC comments from the August 22, 2016, meeting as well as obtain NRC feedback on these proposed approaches.

**MEETING SUMMARY:**

On November 22, 2016, NRC staff held a public meeting with representatives from WCS at the NRC's Two White Flint North Building in Rockville, Maryland. Attendees included WCS and its contractors, NRC staff, and members of the public. The list of meeting attendees is in Enclosure 1. The discussion followed the agenda provided in Enclosure 2. WCS provided draft and final meeting slides prior to the meeting. The meeting slides can be found using Agencywide Documents Access and Management System (ADAMS) Accession Number ML16323A108 and ML16334A172 respectively.

After introductions and opening remarks, representatives from WCS made a presentation discussing issues associated with incorporation by reference of previously approved storage systems, storage of GTCC waste, WCS SAR Section 1.2.4, "Materials to Be Stored", and confinement for its site specific consolidated interim storage facility (CISF) application. In its presentation, WCS stated that it would reference previously NRC approved CoCs, SARs, and specific licenses. WCS also discussed the level of details it plans to submit for incorporation by

reference and provided examples. For GTCC waste, WCS proposed that the external design characteristics of the GTCC waste canister will be based on those of the spent fuel canisters; the final storage configuration of the GTCC waste canisters will be identical to the spent fuel canister storage; and to the extent possible, the same procedures and individuals with the same training and qualifications as those used in spent fuel transfer operations will be used. WCS stated that organizational, programmatic, and protective measures will remain in place to ensure continued safe storage of both spent fuel and GTCC waste; WCS also emphasized that storage of GTCC waste at the WCS CISF will adversely affect neither the safe storage of the spent nuclear fuel, safe operation of the CISF, public health and safety, nor the environment. WCS then discussed SAR Section 1.2.4, including its licensing basis, activities on which WCS has been working since the August 22, 2016 public meeting with the NRC, and WCS's plans for expanding SAR Section 1.2.4. WCS concluded the presentation by discussing their proposal to make canister confinement a condition of loading a canister into storage; WCS plans to demonstrate canister confinement will be maintained during shipment to WCS because the loads experienced by the canisters during normal conditions of transport are not large enough to exceed Class A Service Levels in ASME B&PV code; WCS also plans to perform post shipment leak tests of accessible portions of confinement boundary as a prudent measure.

Throughout the meeting, the staff asked questions and provided comments on each of the topics WCS discussed.

Members of the public in attendance had several comments and questions, and no regulatory decisions were made at the meeting.

If you have any questions or comments, please contact John-Chau Nguyen at (301) 415-0262 or [John-Chau.Nguyen@nrc.gov](mailto:John-Chau.Nguyen@nrc.gov).

Docket No.: 72-1050  
CAC No. L25112

Enclosures:

1. Meeting Attendees
2. Agenda

cc: See attached list

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Distribution: NRC Attendees

Filename: G:\SFST\Nguyen\Casework\WCS\November 22, 2016 public meeting\WCS 11222016 meeting summary.docx

**ADAMS No.: ML16344A284**

<b>OFC:</b>	SFM		SFM		SFM	
<b>NAME:</b>	JNguyen		WWheatley		JMcKirgan	
<b>DATE:</b>	12/05/2016		12/06/2016 (email)		12/8/16	

C=Without attachment/enclosure E=With attachment/enclosure N=No copy

**OFFICIAL RECORD COPY**

**MEETING ATTENDEES**

WCS proposed approaches to referencing previously approved storage CoCs and SARs, storage of GTCC waste, and addressing NRC comments from the August 22, 2016 meeting

<b>NAME</b>	<b>AFFILIATION</b>	<b>NAME</b>	<b>AFFILIATION</b>	<b>NAME</b>	<b>AFFILIATION</b>	<b>NAME</b>	<b>AFFILIATION</b>
Mark Lombard	NRC	Yoira Diaz	NRC	Mike Ford	WCS	Carlyn Greene	UXC
Meraj Rahimi	NRC	Steve Everard	NRC	Jack Boshoven	AREVA	Karen Hadden	SEED Coalition
John-Chau Nguyen	NRC	Damaris Marcano	NRC	Jenny Caldwell	WCS	Willis Bixdy	WWBX, LLC
Jose Cuadrado	NRC	Gregory Suber	NRC	Renee Murdock	WCS	Steve Burdick	Morgan Lewis
Michel Call	NRC	Miriam Juckett	SWI	Samuel Fowler	NAC		
Drew Barto	NRC	Jim Prikryl	SWI	Earl Easton	WCS consultant		
David Tang	NRC	Jessica Bielecki	NRC	Lawrence Jacobi	Jacobi Consulting		
James Park	NRC	Diana	NRC	Mike Callahan	WCS consultant		
Darrell Dunn	NRC	Maureen Conley	NRC	Don Shaw	AREVA		
Doug Garner	NRC	Diana Diaz Toro	NRC	Jeff Isakson	AREVA		
Bob Tripathi	NRC	Sam Britton	Bipartisan Policy center	Raheel Haroon	AREVA		
Emil Tabakor	NRC	Cheryl Olson	Dairyland Power Cooperative	Kimberly Manzione	Holtec		
Jimmy Chang	NRC	Diane D'Arrigo	NIRS	Bill Stewart	NNSA		
Jorge Solis	NRC	Tim Morrison	SONGS	Jana Bergman	Scientech		

## Meeting Agenda

Meeting with Waste Control Specialists, LLC

November 22, 2016

10:00 A.M. – 3:30 P.M.

Room T-2 B3

**Purpose:** For WCS to discuss their proposed approaches to referencing previously approved storage CoCs and SARs, storage of GTCC waste, addressing NRC comments from the August 22, 2016, meeting as well as obtain NRC feedback on these proposed approaches.

**Agenda:**

<b>Topic</b>	<b>Time</b>	<b>Speaker</b>
Introductions and opening remarks	10:00 AM – 10:15 AM	(NRC/WCS)
<b>Referencing</b>		
<ul style="list-style-type: none"><li>Discuss “adequate” referencing in the application to ensure clarity and avoid repetition per 10 CFR 72.18</li></ul>	10:15 AM – 11:00 AM	(NRC/WCS)
<b>Greater-Than-Class-C (GTCC) Waste</b>		
<ul style="list-style-type: none"><li>Discuss WCS approach to GTCC pursuant to ISG-17</li><li>Discuss WCS GTCC waste storage programs under Normal, Off-Normal and Hypothetical accident conditions</li></ul>	11:00 A.M.– 12:00 PM	(NRC/WCS)
Lunch Break	12:00 PM – 12:45 PM	(ALL)
<b>Section 1.2.4 Process</b>		
<ul style="list-style-type: none"><li>Revise Section 1.2.4 to demonstrate previously approved amendments are compatible with<ul style="list-style-type: none"><li>Latest cask FSARs referenced in the application, and</li><li>Reconciliation of 72.48 evaluations for specific cask systems</li></ul></li><li>Discuss an example developed from a candidate ISFSI</li></ul>	12:45 PM – 1:45 PM	(NRC/WCS)
<b>Confinement</b>	1:45 PM – 2:45 PM	(NRC/WCS)
<b>Public questions and comments</b>	2:45 PM – 3:15 PM	(NRC/Public)
<b>Closing remarks</b>	3:15 PM – 3:30 PM	(NRC/WCS)

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