



# NMMSS News

Nuclear Materials Management & Safeguards System

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## Topics in this Issue

- [Highlights of the NMMSS 2014 Annual Users Training Meeting](#)
- [Important Reminder for All Transfers of Materials to or from the Department of Defense \(DoD\)](#)
- [New Obligation Codes for Russian Federation](#)
- [Status of OMB Approval of DOE/NRC Forms 740M, 741, 742, 742C](#)
- [Upcoming DOE and NRC Training Courses](#)
- [IAEA Reporting Summary 2013](#)
- [NRC Reconciliation - Return of Excess Government-Owned Nuclear Material](#)
- [Website Updates](#)
- [Directories](#)
- [Transaction and Inventory Due Dates for DOE Sites](#)
- [Upcoming 2014 Observed Holidays](#)
- [NMMSS Points of Contact](#)
- [Unclassified Mail Addresses](#)

## Highlights of the NMMSS 2014 Annual Users Training Meeting

The Nuclear Materials Management and Safeguards System (NMMSS) Annual Users Training Meeting was held on May 12-15, 2014, in Denver, Colorado.

The NMMSS serves a critical role in the U.S. Government's ability to maintain operational awareness of the inventory, status, and whereabouts of nuclear materials. Accuracy, transparency, and completeness of the data enable informed decision-making for a wide range of issues affecting the national security of the United States and public safety and health.

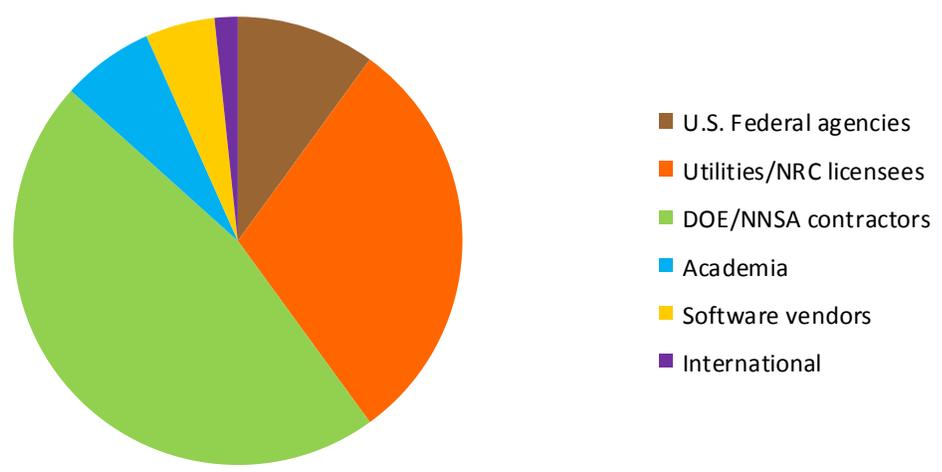
The four-day annual training event was organized and hosted jointly by the Department of Energy (DOE), National Nuclear Security Administration (NNSA), and the Nuclear Regulatory Commission (NRC). The training meeting consisted of a plenary session and multiple technical training breakout sessions. The technical presentations and training focused on topics of relevance to the:

- NMMSS community: DOE, NNSA, and NRC licensees;
- Nuclear Materials Management Team (NMMT); and
- Local Area Nuclear Material Accountability Software (LANMAS) users.

Industry, NRC, and NNSA/DOE representatives also facilitated impromptu sessions covering special topics of interest.

The 2014 training meeting was attended by 152 individuals, representing 60 different organizations encompassing a diverse cross-section of the NMMSS community, as depicted in the chart below.

## Attendance at the 2014 NMMSS Training Meeting



*NMMSS News is sponsored by the Department of Energy and the Nuclear Regulatory Commission.*

The DOE and NRC sponsors expressed their praise to the NMMSS user community for their continued improvements in reporting inventories in a timely manner, working with the NMMSS staff to reconcile material balances, and reporting nuclear transaction reports with a very low number of errors or processing issues. Below is a summary of the feedback provided by the attendees:

- Industry roundtable discussions and face-to-face interactions with NRC and DOE/NNSA were found to be useful and effective.
- Professional development benefits and gains ranged from a greater understanding of NMMSS fundamentals to networking with peers and learning from operating experience by other DOE/NNSA contractors and NRC licensees.
- Several participants indicated that they were able to resolve their facility- or site-specific issues by interacting with their peers.
- The diversity and depth of training topics and presentations were valued and appreciated.
- The annual training event was viewed as beneficial and productive.
- Suggestions for improvement include:
  - Greater opportunities for smaller, focused working groups and sessions;
  - More one-on-one technical support; and
  - An increased focus on succession planning by encouraging newer users to attend.

**The presentations and final program with a list of participants and the agenda are available online at:**  
<http://nnsa.energy.gov/aboutus/ourprograms/nuclearsecurity/nmmsshome>

The feedback and recommendations from the 2014 training event will be used for planning the 2015 NMMSS Annual Users Training Meeting, which is scheduled to be held May 11-14, 2015, in Las Vegas, Nevada. Registration and preliminary agenda information about the 2015 annual training meeting will become available in autumn 2014. Meanwhile, if you have any recommendations or suggested topics for NMMSS 2015, please contact Mr. Pete Dessaulles at [pete.dessaules@nnsa.doe.gov](mailto:pete.dessaules@nnsa.doe.gov) or Mr. Brian Horn at [brian.horn@nrc.gov](mailto:brian.horn@nrc.gov).



## 2014 NMMSS Lifetime Achievement Award Recipients

Two Lifetime Achievement Awards were presented during the NMMSS Annual Users Training Meeting held on May 12-15, 2014, in Denver, Colorado.

The 2014 recipients of the Lifetime Achievement Award are **Mr. Benny Martinez**, *Los Alamos National Laboratory*, and **Mr. Thomas Morello**, *Exelon*. The awards were given to recognize these individuals for their commitment to accurate, timely reporting of nuclear material inventories, representing the NMMSS User Community and helping to improve NMMSS.

Since its inception in 2009, the Lifetime Achievement Award has recognized and honored 14 men and women who have made lasting and significant contribution to the betterment of the NMMSS program.

2014	2013	2012	2011	2010	2009
Benny Martinez <i>Los Alamos National Laboratory</i>	Barry Cooney <i>Westinghouse Nuclear Fuel</i>	Eye Ann Perrine <i>Naval Reactors Laboratory Field Office Naval Reactors Program</i>	Fay Armstrong <i>Savannah River Nuclear Solutions</i>	Rosemarie N. Martyn <i>Global Nuclear Fuel, LLC</i>	Tim Strickland <i>United States Enrichment Corporation</i>
Thomas Morello <i>Exelon</i>	Karen McCulloch <i>Portsmouth/Paducah Project Office</i>	Brian Horn <i>Office of Nuclear Material Safety and Safeguards Nuclear Regulatory Commission</i>	Lesley Gasperow <i>U.S. Department of Energy</i>		
	Neil Passman <i>Standish Technologies</i>	Rick Edwards <i>Savannah River Nuclear Solutions Savannah River Site</i>			
		Mark Laidlow <i>Dominion</i>			
		Len Myers <i>Protection Strategies Incorporated NMMSS Program</i>			

## DOE Sites: Important Reminder for All Transfers of Materials to or from the Department of Defense (DoD)

As stated in 6.1.3.2 of the DOE NMMSS User Guide - Rev. 2.0, dated April 1, 2013, “**Transfers of Material to or from DoD Pursuant to 42 U.S.C. §2121(b)**” the Albuquerque Complex (NA-123.1) must be provided a copy of the completed DOE/NRC Form 741 for transfers of material to or from DoD. Please note that 741 copies can be electronic or hard copy versions. For questions contact Carol Combs at (505) 845-4743.

## New Obligation Codes for Russian Federation

In May 2008, the Agreement for Peaceful Nuclear Cooperation between the U.S. and the Russian Federation entered into force. Like most other Agreements for Peaceful Nuclear Cooperation, this Agreement allows for nuclear material imported to the U.S. to be subject to the terms and conditions of the Agreement, including tracking and reporting. NRC has recently been informed that the first shipments of Russian nuclear materials are expected to be delivered to the U.S. this calendar year. In preparation for the material imports, the following eight new foreign obligation codes have been established in NMMSS to allow

industry to track and report Russian Federation nuclear materials; these codes are available for immediate use:

## Obligation Codes (continued)

Obligation Code*	MBR Category	Obligation Title	MBR Line Title
36	C1	Russia	C1. RUSSIA (36)
96	C2	Australia/Russia	C2. AUSTRALIA/RUSSIA (96)
97	C3	Canada/Russia	C3. CANADA/RUSSIA (97)
65	C4	Japan/Russia	C4. JAPAN/RUSSIA (65)
66	C5	EURATOM/Russia	C5. EURATOM/RUSSIA (66)
67	C6	Australia/Japan/Russia	C6. AUSTRALIA/JAPAN/RUSSIA (67)
68	C7	Canada/Japan/Russia	C7. CANADA/JAPAN/RUSSIA (68)
69	C8	EURATOM/Japan/Russia	C8. EURATOM/JAPAN/RUSSIA (69)

\*The above new obligation codes do not replace the “WR” code that continues to be used to identify downblended Russian weapons material.

If there is a need for an additional foreign obligation code, please contact Mitch Hembree at (301) 903-6299 or by email at [Mitch.Hembree@nnsa.doe.gov](mailto:Mitch.Hembree@nnsa.doe.gov).

## Status of Office of Management and Budget (OMB) Approval of DOE/NRC Forms 740M, 741, 742, and 742C

Several months ago, the *Federal Register* reported that NRC planned to renew the approval from OMB for DOE and NRC to collect information using:

- DOE/NRC Form 740M, “Concise Note,”
- DOE/NRC Form 741, “Nuclear Material Transaction Report,”
- DOE/NRC Form 742, “Material Balance Report,” and
- DOE/NRC Form-742C, “Physical Inventory Listing.”

The above NMMSS forms were submitted to OMB in May with a request to convert them into common forms, meaning that all Federal agencies may request to use the forms without additional 30- or 60-day notice and comment requirements.

As of June 23, OMB has not responded to the request to renew the above four forms. The NRC notes that it is the NRC’s policy to submit all forms to the Office of Management and Budget (OMB) for review prior to their expiration dates. If OMB does not complete its review of a form prior to the form’s expiration date, the expiration date is automatically extended. Forms currently under review by OMB may display an expiration date that has passed. Once OMB review is complete and a new expiration date is assigned, the date will be updated. For a list of forms currently under review at OMB, go to the OMB’s [Information Collection Review page](#) and select “Nuclear Regulatory Commission” in the box titled “Currently Under Review.” You may send an email to [Forms.Resource@nrc.gov](mailto:Forms.Resource@nrc.gov) to verify that a form is still in the renewal process.

<b>NRC FORM 742C</b> (8-2011) MANDATORY DATA COLLECTION AUTHORIZED BY 10 CFR 90.40, 90.70, 72, 74, 75, 150, Public Laws 93-703, 93-438, 95-91	<b>U.S. DEPARTMENT OF ENERGY AND U.S. NUCLEAR REGULATORY COMMISSION</b>  <b>PHYSICAL INVENTORY LISTING</b>	<b>APPROVED BY OMB: NO. 3150-0058</b> Estimated burden per response to comply with this mandatory collection request: 6 hours. This information is required by NRC to fulfill its safeguards responsibilities, bilateral agreements, and responsibilities as a participant in the US/EU/IAEA Safeguards Agreement. Send comments regarding burden estimate to the Information Services Branch (1-3-FS), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to <a href="mailto:infocoll@nrc.gov">infocoll@nrc.gov</a> , and to the Desk Officer, Office of Information and Regulatory Affairs, NRC-1010, (1-150-0058), Office of Management and Budget, Washington, DC 20503. If a report used to report an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.
<b>EXPIRES: 06/30/2014</b>		
<b>2. REPORTING IDENTIFICATION SYMBOL (RIS)</b>		

<b>DOE/NRC FORM 742</b> (8-2011) MANDATORY DATA COLLECTION AUTHORIZED BY 10 CFR 90.70, 72, 74, 75, 150, Public Laws 93-703, 93-438, 95-91	<b>U.S. DEPARTMENT OF ENERGY AND U.S. NUCLEAR REGULATORY COMMISSION</b>  <b>MATERIAL BALANCE REPORT</b>	<b>APPROVED BY OMB: NO. 3150-0058</b> Estimated burden per response to comply with this mandatory collection request: 1 hour and 15 minutes. This information is required for AEC accounting reports that show changes in inventory of nuclear materials. Send comments regarding burden estimate to the Information Services Branch (1-3-FS), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to <a href="mailto:infocoll@nrc.gov">infocoll@nrc.gov</a> , and to the Desk Officer, Office of Information and Regulatory Affairs, NRC-1010, (1-150-0058), Office of Management and Budget, Washington, DC 20503. If a report used to report an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.
<b>EXPIRES: 05/31/2014</b>		
1. NAME AND ADDRESS 2. LICENSE NUMBER(S) 3. REPORT PERIOD FROM TO		
<b>SECTION A MATERIAL ACCOUNTABILITY</b>		
PC	SEQ	A, EI
	8.	BEGINNING INVENTORY -- U.S. GOV'T-OWNED
	9.	BEGINNING INVENTORY -- NOT U.S. GOV'T-OWNED
<b>RECEIPTS</b>		
	11.	PROCUREMENT FROM DOE RIS
FROM		

<b>DOE/NRC FORM 741</b> (8-2011) MANDATORY DATA COLLECTION AUTHORIZED BY 10 CFR 90.40, 90.70, 72, 74, 75, 150, Public Laws 93-703, 93-438, 95-91	<b>U.S. DEPARTMENT OF ENERGY AND U.S. NUCLEAR REGULATORY COMMISSION</b>  <b>NUCLEAR MATERIAL TRANSACTION REPORT</b>	<b>APPROVED BY OMB: NO. 3150-0003</b> Estimated burden per response to comply with this mandatory collection request: 1 hour and 15 minutes. This information is required for AEC accounting reports that show changes in inventory of nuclear materials. Send comments regarding burden estimate to the Information Services Branch (1-3-FS), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to <a href="mailto:infocoll@nrc.gov">infocoll@nrc.gov</a> , and to the Desk Officer, Office of Information and Regulatory Affairs, NRC-1010, (1-150-0003), Office of Management and Budget, Washington, DC 20503. If a report used to report an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.
<b>EXPIRES: 05/31/2014</b>		
1. REPORTER'S NAME AND ADDRESS 2. TRANSACTION NO. 3. CONTRACT NO. 4. SHEET NO. 5. RECEIVING CODE 6. SUPPLY 7. RECEIVER 8. NRC CODE 9. DOCUMENTATION CODE (PRIORITY & SECURITY)		
10. NO. OF DATA LINES 11. NATURE OF TRANSACTION 12. REPORT OR IMPORT TRANSPORT LICENSE NO.		
13. MATERIAL TYPE AND DESCRIPTION 14. ACTION DATE 15. SHEET		

## Upcoming NMMSS Training Courses for NRC

NMMSS training for NRC licensees is scheduled for **December 2-4, 2014**, at DOE Headquarters in Germantown, MD. This course is designed for individuals with limited experience in NRC reporting requirements and is based on NUREG/BR-0006, Rev. 7 and NUREG/BR-0007, Rev. 6. The following topics, among others, will be included:

- Completion of data forms: transactions, inventory, and material balance;
- Inventory reconciliation;
- Foreign obligations reporting; and
- Report products.

The desired class size is 10 or less. A minimum of 6 is required to conduct the class. You may register for either class by contacting John Ballard at (301) 903-0092, or by email at [John.Ballard@nnsa.doe.gov](mailto:John.Ballard@nnsa.doe.gov), and providing him with your name, nationality, job title, facility name, address, telephone number, and email address. Due to security requirements for entering the DOE Germantown facility, all potential students who are not U.S. citizens MUST register for this workshop at least 45 days prior to the instruction dates. There is no cost for this course.

*If interested, please contact John Ballard by November 15, 2014.*

## Upcoming NMMSS I Training Courses for DOE

The DOE NMMSS I (MCA-112) training course has been scheduled for **September 9-12, 2014**, at DOE Headquarters in Germantown, MD. This course is designed for personnel who have less than two years' experience in nuclear materials accounting.

The desired class size is 12 or less. A minimum of 6 is required to conduct the class. You may register for the class by contacting John Ballard at (301) 903-0092, or by email at [John.Ballard@nnsa.doe.gov](mailto:John.Ballard@nnsa.doe.gov), and providing him with your name, nationality, job title, facility name, address, telephone number, and email address. Students must also register for the class with the NTC at <https://ntc.doe.gov/default.aspx>. There are no training fees for this course.

*If interested, please contact John Ballard by August 22, 2014.*



## Upcoming NMMSS II Training Course for DOE

The DOE NMMSS II (MCA-212) training course has been scheduled for **June 9-11, 2015**, at DOE Headquarters in Germantown, MD. It is a follow-up to NMMSS I and addresses topics and report products associated with nuclear materials accounting as they apply to NMMSS. Participants are also encouraged to share NMMSS-related issues and potential problems they may currently be experiencing. The NMMSS I course (MCA-112) is the prerequisite for the NMMSS II workshop.

The desired class size is 12 or less. A minimum of 6 is required to conduct the class. You may register for the class by contacting John Ballard at (301) 903-0092, or by email at [John.Ballard@nnsa.doe.gov](mailto:John.Ballard@nnsa.doe.gov), and providing him with your name, nationality, job title, facility name, address, telephone number, and email address. Students must also register for the class with the NTC at <https://ntc.doe.gov/default.aspx>. There are no training fees for DOE personnel or DOE contractors.

*If interested, please contact John Ballard by May 30, 2015.*

## NRC Reconciliation

All NRC and Agreement State licensees who possess, or had possessed in the previous year, reportable quantities of special nuclear material, foreign obligated material, and/or DOE government-owned source material (G owner code) are required to report their physical inventory and material balance information to NMMSS. Information from DOE/NRC Form 742, 742C, along with any necessary 741s, is compiled to create the facility Material Status Report (MSR). The MSR is required by NMMSS for facility reconciliation.

As a benchmark for activity in 2013, 322 MSRs were received and processed by the NMMSS staff; of these, 306 were reconciled with the respective facility for CY 2013. On a monthly average, NMMSS received 27 MSRs. The average number of days between NMMSS's receipt of the MSR and the facility reconciliation closure is 13 days. Please ensure that your MSR is reported on time and is complete to help NMMSS to process your submittal in a timely manner.

**Licensees who wish to return excess government-owned nuclear material need to notify Pete Dessaulles, (301) 903-4525, [Pete.Dessaulles@nnsa.doe.gov](mailto:Pete.Dessaulles@nnsa.doe.gov); or Jim Crabtree, (301) 903-6008, [James.Crabtree@nnsa.doe.gov](mailto:James.Crabtree@nnsa.doe.gov), as soon as possible.**

## NMMSS Website Updates

- Highlights of NMMSS 2014 Users Training Meeting

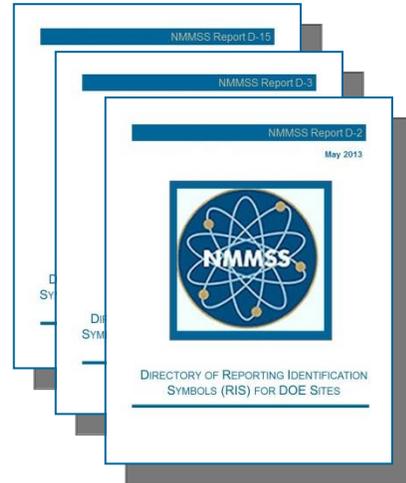
<http://nnsa.energy.gov/aboutus/ourprograms/nuclearsecurity/nmmsshome>
- Schedule of Upcoming Training in 2014 and 2015:

<http://nnsa.energy.gov/sites/default/files/nnsa/04-14-inlinefiles/2014-04-11%20Upcoming%20NMMSS%20Training%202014%20and%202015%20Final.pdf>
- NMMSS Users Guide* for use by the Department of Energy, Rev. 2.0, dated April 2013:

<http://nnsa.energy.gov/sites/default/files/nnsa/04-13-inlinefiles/2013-0408%20Nuclear%20Materials%20Management%20and%20Safeguards%20System%20Users%20Guide%20Rev%202%20April%202013.pdf>

## NMMSS Directories for Reporting Identification Symbols (RIS)

NMMSS staff requests that sites submit updates to the *D-2: NMMSS Directory of Reporting Identification Symbols (RIS)* for DOE sites and the *D-3: NMMSS Directory of Reporting Identification Symbols (RIS)* for NRC/Agreement State licensed sites. The latest versions of the directories are available. Please contact a member of the NMMSS Staff if you wish to receive a copy.



## Transaction/Inventory Due Dates for DOE Sites

Reporting Month	Transaction Due	Inventory Due
June 2014	July 11	July 15
July 2014	August 12	August 15
August 2014	September 11	September 15
September 2014	October 10	October 15
October 2014	November 11	November 17
November 2014	December 10	December 15

## Upcoming 2014 Observed Holidays

Labor Day	Monday, September 1
Columbus Day	Monday, October 13
Veterans Day	Tuesday, November 11
Thanksgiving	Tuesday, November 27
Christmas Day	Thursday, December 25



## NMMSS Points of Contact

Name	Topic	Phone	Email Address
Karen Antizzo	Data Submission and Reports DOE Reconciliation	(301) 903-0872	<a href="mailto:Karen.Antizzo@nnsa.doe.gov">Karen.Antizzo@nnsa.doe.gov</a>
John Ballard	DOE Reconciliation	(301) 903-0092	<a href="mailto:John.Ballard@nnsa.doe.gov">John.Ballard@nnsa.doe.gov</a>
Elaine Beacom	Data Submission and Reports	(301) 903-1328	<a href="mailto:Elaine.Beamon@nnsa.doe.gov">Elaine.Beamon@nnsa.doe.gov</a>
Carl Berger	IAEA Reports Foreign Obligations	(301) 903-3656	<a href="mailto:Carl.Berger@nnsa.doe.gov">Carl.Berger@nnsa.doe.gov</a>
Mitch Hembree	Foreign Obligations	(301) 903-6299	<a href="mailto:Mitch.Hembree@nnsa.doe.gov">Mitch.Hembree@nnsa.doe.gov</a>
Gary Hirsch	IAEA Reports	(301) 903-6870	<a href="mailto:Gary.Hirsch@nnsa.doe.gov">Gary.Hirsch@nnsa.doe.gov</a>
Mary McConnell	NRC Reconciliation	(301) 903-6240	<a href="mailto:Mary.McConnell@nnsa.doe.gov">Mary.McConnell@nnsa.doe.gov</a>
Len Myers	Special Requests	(301) 903-2180	<a href="mailto:Len.Myers@nnsa.doe.gov">Len.Myers@nnsa.doe.gov</a>
Patricia Smith	NRC Reconciliation	(301) 903-6860	<a href="mailto:PatriciaR.Smith@nnsa.doe.gov">PatriciaR.Smith@nnsa.doe.gov</a>

**Department of Energy**  
 Peter Dessaulles (301) 903-4525  
[Pete.Dessaules@nnsa.doe.gov](mailto:Pete.Dessaules@nnsa.doe.gov)

**Nuclear Regulatory Commission**  
 Brian Horn (301) 287-9129  
[Brian.Horn@nrc.gov](mailto:Brian.Horn@nrc.gov)



**DOE International POC**  
 James Crabtree (301) 903-6008  
[James.Crabtree@nnsa.doe.gov](mailto:James.Crabtree@nnsa.doe.gov)

**NRC International POC**  
 Santiago Aguilar (301) 287-9136  
[Santiago.Aguilar@nrc.gov](mailto:Santiago.Aguilar@nrc.gov)

**Homepage:** <http://nnsa.energy.gov/nmmss>  
**Email:** [NMMSS@nnsa.doe.gov](mailto:NMMSS@nnsa.doe.gov)  
**Unclassified Fax:** (301) 903-1998

## Unclassified/Overnight Surface Mail Addresses

### Unclassified

#### Karen Antizzo

NMMSS Program, NA-73, Germantown Bldg  
 U.S. Department of Energy  
 1000 Independence Avenue, SW  
 Washington, DC 20585-1290

### Overnight – Unclassified

#### Karen Antizzo

U.S. Department of Energy  
 Attn: NMMSS Program, NA-73  
 19901 Germantown Road  
 Germantown, MD 20874-1207

### Classified

The NMMSS classified mailing address is available on the Safeguards and Security Information Management System (SSIMS) or by calling a NMMSS analyst. Identify Karen Antizzo as the recipient and NA-73 as the organization.

**IMPORTANT:** The “DO NOT X-RAY” marking does not prevent incoming packages from being sanitized. Please package compact discs (CDs) in cardboard rather than plastic casings. The plastic is heated by the sanitization machine, thereby warping the CD. There is less chance of this occurring if the CD is packaged in cardboard.

For information on transmitting classified data to NMMSS electronically, contact Jim Crabtree, (301) 903-6008 or [James.Crabtree@nnsa.doe.gov](mailto:James.Crabtree@nnsa.doe.gov).

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