

Topics in this Issue

- [NMMSS 2015 Annual Users Training Meeting](#)
- [2015 Lifetime Achievement Award Recipients](#)
- [Success Story: URENCO USA's Transition to IAEA Safeguards](#)
- [Upcoming DOE and NRC Training Courses](#)
- [Recent NRC Reconciliation Success](#)
- [Available NMMSS Products](#)
- [NMMSS Website Updates](#)
- [Transaction and Inventory Due Dates for DOE Sites](#)
- [Upcoming 2015/2016 Observed Holidays](#)
- [NMMSS Points of Contact](#)
- [Unclassified Mail Addresses](#)

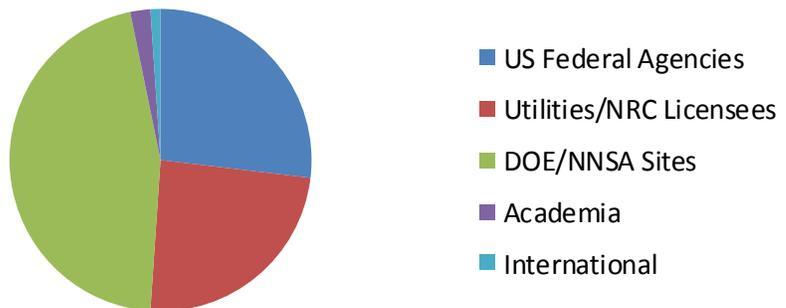
NMMSS 2015 Annual Users Training Meeting -- One of the Most Successfully Attended Meetings in Recent Years

The Nuclear Materials Management and Safeguards System (NMMSS) 2015 Annual Users Training Meeting was held May 11-14, 2015, in Las Vegas, Nevada. Turnout for the 2015 Annual Users Training Meeting, with 186 in attendance, was one of the highest attending meetings in recent years. The meeting was organized and hosted jointly by the Department of Energy (DOE)/National Nuclear Security Administration (NNSA) and the Nuclear Regulatory Commission (NRC). The four-day event provided an opportunity for training and information sharing with NRC licensees, the DOE/NNSA federal and contractor organizations, and other domestic and international entities. The meeting included:

- Basic and specialized training to meet regulatory requirements associated with nuclear material reporting;
- Regulatory updates relevant to nuclear material reporting;
- Programmatic and regulatory issues of importance to the NRC licensees and DOE/NNSA contractors;
- Specialized breakout sessions;
- One-on-one consultations with, and technical support by, NMMSS staff, including a hands-on software orientation;
- Industry roundtable discussions to share ideas and identify opportunities for improvement;
- Topical presentations on emerging domestic and international developments; and
- A tour of the Nevada National Security Site which enabled users to get a firsthand overview of the nuclear material activities

Attendees at the 2015 training meeting representing close to 70 different organizations, encompassed a diverse cross-section of the NMMSS community, as depicted in the chart below.

Attendance at the 2015 NMMSS Training Meeting



The DOE and NRC NMMSS Federal Program Managers expressed their compliments 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:

- The diversity of the plenary session and depth of training topics and presentations provided useful information.
- Industry roundtable discussions and face-to-face interactions with NRC and DOE/NNSA were found to be useful and effective.
- The NMMSS Training and the Challenge Exam was very beneficial.
- 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 and NMMSS Staff.
- The annual training event was viewed as beneficial and productive.
- Suggestions recommendations for future meetings included:
 - Provide in-depth analysis of important issues;
 - Focus on addressing real-life situations – use case studies;
 - Do not schedule other sessions concurrent with the NMMSS Reporting Fundamentals session; and
 - Offer NMMSS Reporting Fundamentals and Challenge Exam every year.

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 2015 training event will be used for planning the 2016 NMMSS Annual Users Training Meeting, which is scheduled to be held May 23-26, 2016, in Philadelphia, Pennsylvania. Registration and preliminary agenda information about the 2016 annual training meeting will become available in autumn 2015. Meanwhile, if you have any recommendations or suggested topics for NMMSS 2016, please contact Mr. Pete Dessaulles at pete.dessaules@nnsa.doe.gov or Mr. Brian Horn at brian.horn@nrc.gov.



2015 NMMSS Lifetime Achievement Award Recipients

Three Lifetime Achievement Awards were presented during the NMMSS Annual Users Training Meeting held on May 11-14, 2015, in Las Vegas, Nevada.

The 2015 recipients of the NMMSS Lifetime Achievement Award are **Mr. John Ballard**, *Link Technologies, Inc. – NMMSS*; **Ms. Becky Eddy**, *NNSA Production Office – Y-12*; and **Ms. Carol Wormington**, *URENCO USA*. These awards were given to recognize each individual's accomplishments in ensuring accurate, timely reporting of nuclear materials transaction and inventory data; representing the NMMSS user community; and improving NMMSS. Mr. Ballard was recognized for excellence as a NMMSS trainer, having more than 10 years of experience in training the NMMSS user community and more than 14 years as a senior NMMSS analyst. Ms. Eddy was recognized for her many contributions to the NMMSS community in the area of nuclear materials management. Ms. Wormington was recognized for her work and dedication in getting the new URENCO USA enrichment plant reporting to NMMSS and then, a few months later, transitioning the plant NMMSS reporting process from domestic NRC requirements to the IAEA Protocol reporting.

Since its inception in 2009, the Lifetime Achievement Award has recognized and honored 17 men and women who have made lasting and significant contributions to the betterment of the NMMSS program.



The Nuclear Materials Management and Safeguards System		Lifetime Achievement Awards	
NMMSS		NSA	
2015	2014	2013	2012
Carol Wormington URENCO USA	Benny Martinez Los Alamos National Laboratory	Barry Cooney Westinghouse Nuclear Fuel	Eve Ann Perrino Naval Reactors Laboratory Plant Office Naval Reactors Program
Becky Eddy National Nuclear Security Administration	Thomas Morello Exelon	Karen McCulloch Portsmouth/Pasquett Project Office	Brian Horn Office of Nuclear Material Safety and Safeguards Nuclear Regulatory Commission
John Ballard Link Technologies, Inc.		Neil Passman Stanshul Technologies	Fay Armstrong Savannah River Nuclear Solutions
			Rick Edwards Savannah River Nuclear Solutions Savannah River Site
			Len Myers Protective Services Incorporated NMMSS Program
			Mark Laidlow Dominion
			Lesley Gasperow U.S. Department of Energy
			Rosemarie N. Martyn Global Nuclear Fuel, LLC
			Tim Strickland United States Enrichment Corporation
2010	2009		

Success Story: URENCO USA's Transition to IAEA Protocol Reporting

As part of the global nuclear non-proliferation regime, the DOE and NRC participate in domestic and international activities to account for and control nuclear material assigned to commercial and other peaceful purposes. In order to comply with U.S. Government non-proliferation commitments, the DOE and NRC participate in many different activities such as implementing international safeguards treaties, reviewing import and export licenses, and collecting data through the Nuclear Materials Management and Safeguards System (NMMSS).

One such treaty is between the U.S. and the International Atomic Energy Agency (IAEA) for the Application of Safeguards in the United States. This treaty allows certain U.S. facilities to be placed on a list and become eligible for IAEA safeguards reporting and inspections; four NRC licensed facilities and 1 Department of Energy (DOE) facility are currently selected by the IAEA and are therefore submitting nuclear material accounting data to the IAEA.

On June 28, 2013, the IAEA notified the Nuclear Regulatory Commission (NRC) that it had selected URENCO USA to report under the Protocol to the US/IAEA Safeguards Treaty (10 CFR Part 75). In a July 1, 2013 letter, the NRC notified NMMSS and URENCO USA of the selection. The letter contained details for the path forward, with an aggressive deadline:

- The Physical Inventory Listing (PIL) for June 30, 2013, was due to NMMSS by July 29, 2013;
- URENCO USA needed to develop a Transitional Facility Attachment (TFA); and
- The transition of URENCO USE from domestic NMMSS reporting to the IAEA Protocol NMMSS reporting deadline was established as January 31, 2015.

This is the first U.S. facility to initiate NMMSS reporting to the IAEA Protocol reporting in 15 years; it is only the second U.S. enrichment facility (the first was the DOE gas centrifuge enrichment plant that was selected in 1983) to be selected. IAEA requested that the URENCO USA enrichment plant report nuclear material activities at three internal MBA reporting codes (YK1, YK2, and YK3) to match the reporting template of other IAEA safeguarded gas centrifuge enrichment plants.

To accomplish this feat was no simple task. It required close coordination, communication, and interaction between the NRC, URENCO USA, and NMMSS. The NRC provided guidance and direction throughout the entire transition period.

In July 2013, URENCO USA reported its initial PIL to the IAEA. Subsequently, all applicable transactions, Material Balance Reports (MBRs), and PILs were processed and reported as required. NMMSS staff submitted a total of 21 monthly reports and 5 annual reports for URENCO USA to the IAEA during the transition period.

Meanwhile, procedural and software changes were being made at NMMSS and at URENCO USA. URENCO USA was required to split its nuclear material accounting system into three unique entities, identify and plan for each reporting scenario, and be able to report it accurately to NMMSS for processing. In turn, NMMSS had to modify the system to allow for the unique reporting requirements and to ensure that each reporting scenario could be captured correctly. NMMSS and URENCO USA staff maintained close communications throughout, with crosschecks and verification during each change.

In September 2014, the first site test data was submitted to NMMSS for processing, initiating a four-month testing process where transactions, PILs, and MBRs were processed by NMMSS to cross-validate the changes made at URENCO USA and NMMSS. All reporting issues were quickly resolved and all edit checks formalized. NMMSS and URENCO USA confirmed that they were both ready to complete the transition and begin reporting under the IAEA Protocol requirements.

In December 2014, URENCO USA officially began the migration to the IAEA Protocol NMMSS reporting requirements. NMMSS processed over 6,000 transactions to record the transfer of material from the YKO RIS to the YK1, YK2, and YK3 RISs. NMMSS processed the transactions without incident and was able to accurately report to the IAEA prior to the January 2015 deadline.

This transition was a success. Through coordinated planning, communication, and comprehensive testing, the NRC successfully directed the process. The entire team gained experience and the U.S. government was able to meet a highly visible, aggressive deadline.

Upcoming NMMSS I Training Courses for DOE

The DOE NMMSS I (MCA-112) training course has been scheduled for **September 15-18, 2015**, 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, 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 National Training Center (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 August 31, 2015.



Upcoming NMMSS Training Courses for NRC

NMMSS training for NRC licensees and Federal employees is scheduled for **November 3-5, 2015** at DOE Headquarters in Germantown, MD. This course is designed for individuals with limited experience in NRC reporting requirements or those who need a refresher. The course content 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 the class by contacting John Ballard at (301) 903-0092, or by email at 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 are no training fees for this course.

If interested, please contact John Ballard by October 15, 2015.

Upcoming NMMSS II Training Course for DOE

The DOE NMMSS II (MCA-212) training course has been scheduled for **June 7-9, 2016**, at DOE Headquarters in Germantown, MD. This training 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 DOE NMMSS I course (MCA-112) is the prerequisite for the DOE 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, 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 May 30, 2016.

Recent NRC Reconciliation Success

Thank you to NRC licensees for a fantastic job in submitting your 2014 material balance information accurately and on time! As part of our ongoing responsibility to the NRC, and with the support of the licensee community, NMMSS analysts successfully completed 314 reconciliations for calendar year 2014.

NMMSS staff is pleased to report the following performance metrics, current as of June 30, 2015:

- 314 out of 321 RISs (97.8%) reported for calendar year 2014 and have been reconciled.
- Nearly half the licensees report their annual material balance on December 31 of each year; for 2014, 134 out of 135 sites (99.3%) reported and have been reconciled.
- 4 RISs reported to NMMSS for the first time and were successfully reconciled.
- The 2015 reporting period is on track, 79 licensees have already reported and been reconciled

Licensees wishing to return excess government-owned nuclear materials, please notify Pete Dessaulles at (301) 903-4525 or Pete.Dessaulles@nnsa.doe.gov; or Jim Crabtree at (301) 903-6008 or James.Crabtree@nnsa.doe.gov.



Available NMMSS Products

NMMSS staff has recently updated the following documents that are available to the NMMSS Users.

- D-2: NMMSS Directory of Reporting Identification Symbols (RIS) for Department of Energy sites. This directory contains a listing of RIS's for the DOE sites which NMMSS accepts as valid as of March 2015.
- D-3: NMMSS Directory of Reporting Identification Symbols (RIS) for Nuclear Regulatory Commission/Agreement State licensed sites. This directory contains a listing of RIS's for the licensed sites which NMMSS accepts as valid as of March 2015.
- D-15: NMMSS Directory of Reporting Identification Symbols (RIS) for sites located outside of the United States. This directory contains a listing of RIS's for nuclear sites located outside of the United States and which NMMSS accepts as valid as of March 2015.

SAMS, Version 8.0: SAMS is a facility-based version of the Nuclear Material Management and Safeguards System (NMMSS) software maintained by the U.S. Department of Energy (DOE) and the U.S. Nuclear Regulatory Commission (NRC). The latest SAMS software package provides the NMMSS user the ability to input data and perform edit checks at their facility for transactions, material balance reports, and inventories and provides an updated Authority Reference File.

Copies of the above items are available free of charge. Please contact any of the NMMSS staff. Requests may also be made through the NMMSS mailbox (NMMSS@nnsa.doe.gov) if you would like any of the above items sent to you.

NMMSS Website Updates

- NMMSS Users Meeting 2015: <http://nnsa.energy.gov/aboutus/ourprograms/nuclearsecurity/nmmsshome>
- Updated DOE/NRC Forms 740M, 741,742, and 742C, both PDF and fillable PDF:
<http://nnsa.energy.gov/aboutus/ourprograms/nuclearsecurity/nmmsshome/nmmssinfo/doenrcforms>
<http://nnsa.energy.gov/aboutus/ourprograms/nuclearsecurity/nmmsshome/nmmssinfo/fillableforms>
- Schedule of Upcoming Training in 2015 and 2016:
<http://nnsa.energy.gov/sites/default/files/nnsa/inlinefiles/Upcoming%20NMMSS%20Training%20March%202015-2016.pdf>

Transaction/Inventory Due Dates for DOE Sites

Reporting Month	Transaction Due	Inventory Due
June 2015	July 10	July 15
July 2015	August 10	August 17
August 2015	September 10	September 15
September 2015	October 13	October 15
October 2015	November 10	November 16
November 2015	December 10	December 15
December 2015	January 11	January 15
January 2016	February 10	February 16

Upcoming 2015-2016 Observed Holidays

Labor Day	Monday, September 7
Columbus Day	Monday, October 12
Veterans Day	Wednesday, November 11
Thanksgiving Day	Thursday, November 26
Christmas Day	Friday, December 25
New Year's Day	Friday, January 1



July 2015 NMMSS Points of Contact For Nuclear Material Reporting Technical Support and Assistance

Name	Topic	Phone	Email Address
Karen Antizzo	Data Submission NMMSS Reports IAEA Reporting	(301) 903-0872	Karen.Antizzo@nnsa.doe.gov
John Ballard	DOE/NNSA Reconciliation Training	(301) 903-0092	John.Ballard@nnsa.doe.gov
Elaine Beacom	Foreign Obligations International Reporting	(301) 903-1328	Elaine.Beacon@nnsa.doe.gov
Carl Berger	Special Requests	(301) 903-3656	Carl.Berger@nnsa.doe.gov
Mitch Hembree	Foreign Obligations	(301) 903-6299	Mitch.Hembree@nnsa.doe.gov
Gary Hirsch	NRC Reconciliation	(301) 903-6870	Gary.Hirsch@nnsa.doe.gov
Mark Huffman	NRC Reconciliation	(301) 903-0236	Mark.Huffman@nnsa.doe.gov
Mary McConnell	NRC Reconciliation	(301) 903-6240	Mary.McConnell@nnsa.doe.gov

Program Management
Department of Energy Peter Dessaules (301) 903-4525 Pete.Dessaules@nnsa.doe.gov
Nuclear Regulatory Commission Brian Horn (301) 415-7440 Brian.horn@nrc.gov
International POC
DOE International POC James Crabtree (301) 903-6008 James.Crabtree@nnsa.doe.gov
NRC International POC Santiago Aguilar (301) 415-7918 Santiago.Aguilar@nrc.gov
EMAIL: NMMSS@nnsa.doe.gov Unclassified Fax: (301) 903-1998 www.nnsa.energy.gov/nmmss

Unclassified/Overnight Surface Mailing Addresses

Unclassified

Karen Antizzo

NMMSS Program, NA-532/Germantown Bldg.
U.S. Department of Energy
1000 Independence Avenue, SW
Washington, DC 20585-1290

Overnight – Unclassified

Karen Antizzo

Attn: NMMSS Program, NA-532
U.S. Department of Energy
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-532 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.

NMMSS News is sponsored by the Department of Energy (POC: Pete Dessaules; Pete.Dessaules@nnsa.doe.gov, (301) 903-4525) and the Nuclear Regulatory Commission (POC: Brian Horn; Brian.Horn@nrc.gov, (301) 415-7440). Please provide feedback or suggested topics of interest to Karen Antizzo at Karen.Antizzo@nnsa.doe.gov, (301) 903-0872.