

ACCURACY

PERFORMANCE

ACCOUNTABILITY

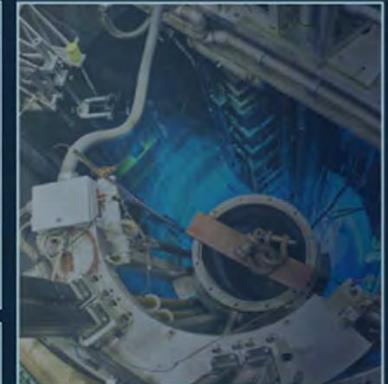


THE NUCLEAR MATERIALS MANAGEMENT AND SAFEGUARDS SYSTEM (NMMSS)

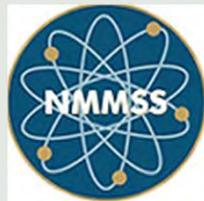
# NMMSS 2013

USERS ANNUAL TRAINING MEETING

 MAY 20-23, 2013 - ST. LOUIS, MISSOURI 



# STATE OF NMMSS



Brian Horn, NRC  
Peter Dessaulles, DOE/NNSA

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# Overview

- NMMSS has had a highly successful year in which it reduced reconciliation and closing times, improved report products, and delivered commitments to DOE/NNSA, NRC, and other government agencies on schedule.
- This would not be possible without your efforts.

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## Mission Statement

- NMMSS is the U.S. Government's official information system containing current and historical accounting data and other related nuclear material information collected from both government and commercial nuclear facilities.
- NMMSS provides output reports to those facilities and other interested parties, primarily U.S. government offices charged with the management and safeguarding of nuclear materials.

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# SPONORS

NMMSS is cosponsored by the:

- National Nuclear Security Administration's (NNSA) Office of Materials Integration within the U.S. Department of Energy
- U.S. Nuclear Regulatory Commission.



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# NMMSS Timeline

Year	Activity
1964	System development began at Oak Ridge, Tennessee
1965	Inventory and MBR data were added to the system
1968	Transaction data collection began
1975	Formation of ERDA and NRC and separation of NMMSS oversight
1979	International data backfit began after passage of the NNPA
1995	System began operation on a PC platform
2003	Obligations Accounting begins
2009	NRC lowered the inventory reporting threshold for SNM and certain source materials

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## Size of NMMSS

- The NMMSS database is ~ 47 gigs
  - Inventory records date back to 1966
  - Transaction records date back to 1950
  - Material balance records date back to 1965



## Execution

- Objectives and goals are accomplished by:
  - Tracking NM located within the U.S.
  - Tracking NM entering/exiting the U.S.
  - Tracking obligated NM within the U.S.
  - Reporting selected facility data to the IAEA
  - Producing and distributing NM reports

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# Customer Based Products

- Provide NM information to DOE/NNSA, NRC, and other government agencies in five areas:
  - Regulatory functions
  - International programs
  - Materials management
  - Program management
  - Financial management



## Criteria for Success

- Success hinges on interdependencies
- NMMSS operations
  - Ease of data collection (SAMS, Fillable Forms)
  - Efficiency of data processing (edit checks)
  - Flexibility of report production/distribution (Excel reports)
  - Timeliness, report accuracy, data interpretation/analysis
- Data submitters
  - Accuracy of data (error rates, reconciliation)
  - Currency of data (timeliness, electronic submission, XML2)
- Subject Matter Experts

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# Daily Operations

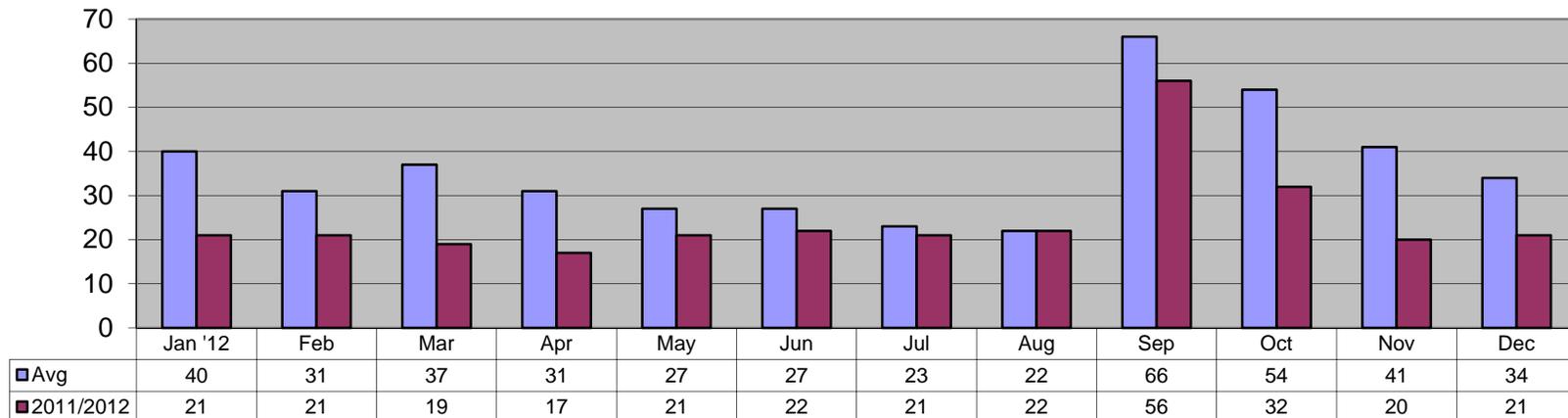
- Processed 1,034,306 inventory records
- Processed 18,631 transactions with an overall error rate around 1%
- Issued 14,448 standard reports
- Completed 49 special request for data (international, health studies, Congressional inquiries)



# Closing of Accounting Month

NMMSS closed 12 processing months on schedule and within target: averaged 24 days for 2012 – down from 29 days for 2011

**Closing of the Accounting Month  
(Number of days closed after month end)  
January 2012 - December 2012**





# Reconciliation

- DOE Annual Reconciliation September 2012
  - 49 RIS Codes required to reconciled with NMMSS
  - 63% were reconciled within 2 days of receipt
  - Closed on 11/26/2012, 18 days ahead of last year and 10 days ahead of historical average
  
- NRC Reconciliations
  - NMMSS received 267 reconciliation packages for 2012
  - 33 packages were reconciled on the same day as receipt
  - Average is 13 days from receipt to closure

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# Training

- Conducted 5 training classes for data submitters/users
  - 3 NRC Training Course in Germantown, MD
  - 1 DOE NMMSS II Course in Germantown, MD
  - 1 DOE NMMSS I Course in Oak Ridge, TN
  - A total of 50 students attended the training
- Committed to user training. Published schedule for remainder of 2013 and 2014.



# Focus on Electronic Submission

- Electronic Submission to NMMSS
  - 52% of facilities reporting exclusively in XML2 format
    - Preferred format as it requires no conversion
    - Need to open each file to determine file type
    - 90% of Transactions
  - 12% of facilities reporting in other electronic formats
    - XML1 and 80 Column reporting requires conversion
    - 7% of Transactions
  - 36% of facilities reporting in hardcopy format
    - Requires manual input
    - Least effective and error prone
    - 3% of Transactions

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# Software Enhancement Agenda

- Automation of annual obligation reports for selected countries
- Computerization of the obligation process
- Rewrite of the IAEA reporting module
- Develop standard reports in support of National Institute for Occupational Safety and Health (NIOSH) studies



# Summary

- NMMSS has had a very successful year.
- Success would not be possible without our user community which remains the driving force behind NMMSS performance.

Thank you:

- Data submitters
- Data customers
- NMMSS operations team
- DOE/NRC management team
- Special awards and recognition

