

Accuracy Performance Accountability

The Nuclear Materials Management and Safeguards System (NMMSS)

**NMMSS**

**2014**

Annual Users Training Meeting

May 12-15, 2014  
Denver, Colorado



# Tips for Successful Reporting to NMMSS by DOE Contractors and NRC Licensees

*John Ballard, DOE Reconciliation*  
*Mary McConnell, NRC Reconciliation*  
LINK Technologies



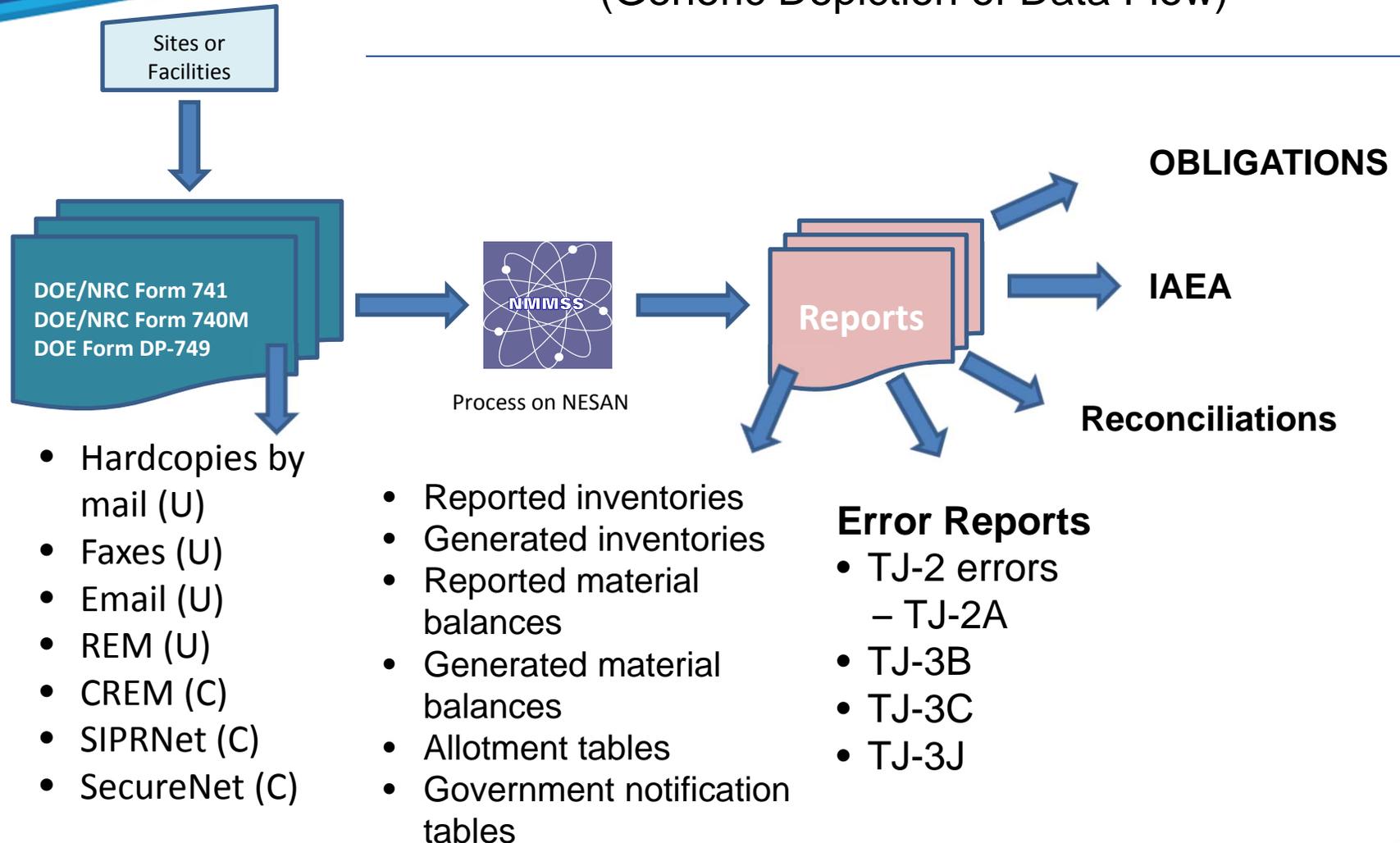
## Outline

---

- The NMMSS process
- Best Practices
- Tips for success
- Resources
- Facility Performance

# NMMSS Flow of Data

(Generic Depiction of Data Flow)



## Best Practices

---

- Report data electronically
- All shipments and receipts reported
- All corrections reported
- Decay reported
- Normal Operating Loss reported
- Rounding reported
- All data reported is within the reporting period

## Tips for Success

- ***If in doubt, please contact NMMSS about the following:***
  - How to complete transactions, inventory, and material balance
  - Next transaction number in the series
  - Is the month ‘open’ or ‘closed’
  - Request reports
  - Find a Reporting Identification Symbol (RIS) for a site
  - RIS contact information

# NMMSS Contact List

## NMMSS Points-of-Contact for Assistance

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

## Tips for Success

- **Report with Electronic files (XML)**
  - Improve accuracy and timeliness
  - Reduces manual input errors
  - Options
    - SAMS Software 8.0
    - Fillable Forms
    - Generated examples of XML

# Physical Inventory Reporting DOE

- Use September 30 reporting date for annual reconciliation
- Use valid Project numbers
- Use valid composition codes
- Missing lines
  - Total lines for each material type
  - Detail lines not equal to total (899) line

## Physical Inventory Reporting NRC

- Detail lines on PIL (form 742c) must equal the 899 (total) line for each material type
- Correct composition codes must be used per the NUREG
- Multiple material types may be reported on the same 742c form
- Make sure the inventory totals (899 lines) match material balance totals

# Physical Inventory Reporting NRC

- Licensees that possess government-owned source material must as part of their Material Status Report (MSR) submission
  - Confirm the continuing need for government-owned nuclear materials in their possession
  - Identify any excess government-owned materials
  - Licensees who wish to return excess government-owned nuclear material, please contact Pete Dessaulles or Jim Crabtree

## Material Balance Reporting NRC

- Make sure correct dates are reported
  - *First date of reporting period must be one day AFTER ending date of last period*
- Make sure the correct material types are reported
  - *Reportable material types per the NUREG only*
- All activity during the period reported on 742 form
- Material Balance totals match Inventory totals

# FOREIGN OBLIGATIONS

## *DOE*

- Remember to verify ending totals on an IA-OBL-05 report or material balance report - section “B”

# FOREIGN OBLIGATIONS

## NRC

---

- Make sure section “B” of the 742 form is completed correctly
  - Foreign-obligated materials must be reported

## Tips for Success

- Request NMMSS Reports
  - Daily reports with transaction activity
  - Final NMMSS reports after monthly NMMSS closing
  - Preliminary reports prior to reconciliation
    - Compare facility books to NMMSS books *before* submittal

## Frequently Requested Reports

- NMMSS Reports
  - TJ-1X – Daily Transaction Activity by facility
  - A-200 – Shows any differences for DOE and government owned material at NRC sites
  - A-210 – Material balance by Project number (DOE)
  - M-742 – Material balance report
  - M-742A – Material balance report by action date
  - TJ-45 Transactions
  - TJ-23 Transactions (Closed months)
  - IA-OBL-05 – Foreign obligation balance

## Tips for Success

### Keep contact information up to date

- Update D-2 (DOE) and D-3 (NRC) Directory Information
  - Contacts
  - Facility name
  - Address
- New D-2, D-3, D-15



## Resources

- NMMSS Website

**[www.nnsa.energy.gov/nmmss](http://www.nnsa.energy.gov/nmmss)**

- Forms
- DOE Order
- NUREGS
- NMMSS User Guide
- Contacts
- User Annual Training
- NMMSS Training
- NMMSS Newsletter

## Resources

- **NMMSS Newsletter**
  - Located on the NMMSS website
  - Articles of interest
    - *Facilities are welcome to submit articles or lessons learned*
  - NMMSS Training class schedule
  - User Training Meeting Registration
  - Website Updates
  - Transaction/Inventory Due Dates for DOE sites

## Facility Performance

- Facilities are doing a great job
- All DOE sites reconciled on November 19, 2013
  - Seven days earlier than 2012
- Over 300 NRC Licensees were reconciled in 2013

## Summary

---

- Call NMMSS for help before you submit
- Request reports
- Report using XML files
- Attend training
- Keep contact information updated

## Tips for Success

---

*Any tips or lessons  
learned from the  
audience?*