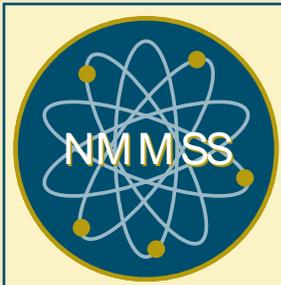


**NMMSS Users Annual Training Meeting**  
**Orlando, Florida—May 23-25, 2006**  
*Sponsored by the U.S. Department of Energy &  
the U.S. Nuclear Regulatory Commission*

# Data Quality Improvements NRC Reconciliation

---

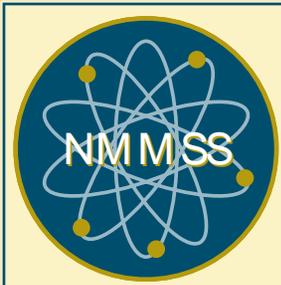
Ron Bonifay  
NMMSS



# Licensee Reporting Requirements

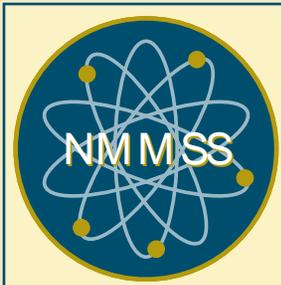
**NMMSS Users Annual Training Meeting**  
**Orlando, Florida—May 23-25, 2006**  
*Sponsored by the U.S. Department of Energy &  
the U.S. Nuclear Regulatory Commission*

- Licensees who are authorized to possess at any one time and location special nuclear material (SNM) totaling more than 350 grams are required to submit a Material Balance Report (MBR) and a Physical Inventory Listing (PIL)



# Reporting Period Guidelines

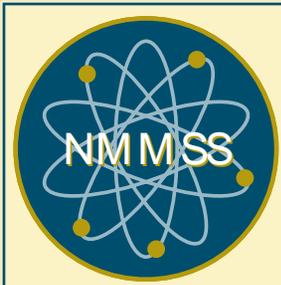
- NRC Category I facilities report semiannually, March 31 and September 30
- For all other NRC facilities reports are to be made and filed within 60 days of the start of the physical inventory taking (most cases annually), unless an alternate date is authorized by the NRC
- For IAEA attached facilities, unless otherwise specified by license, reports are dispatched as soon as possible and in any event within 30 days of the start of the physical inventory



# Types of Facilities Submitting MBR and PIL

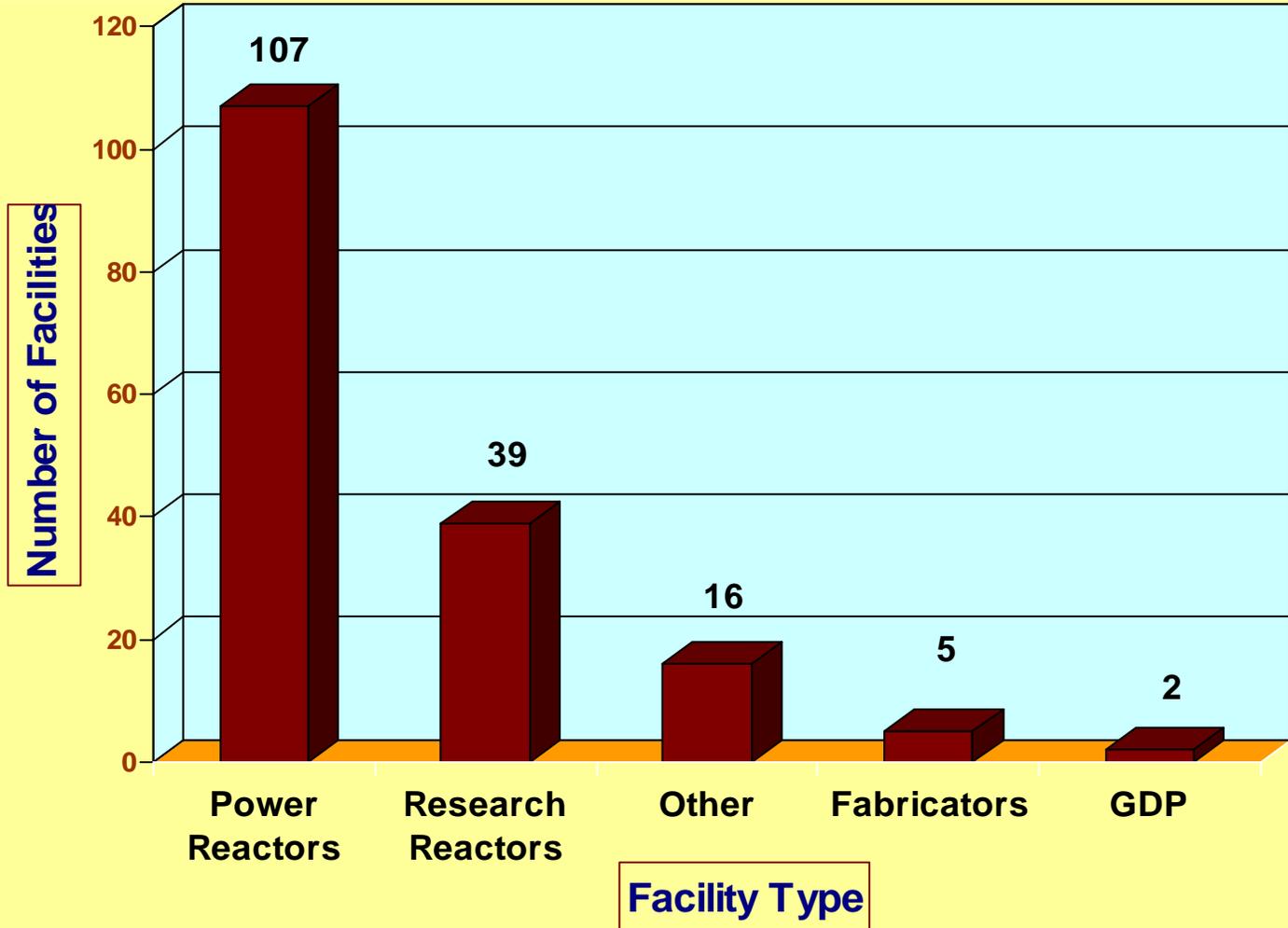
**NMMSS Users Annual Training Meeting**  
**Orlando, Florida—May 23-25, 2006**  
*Sponsored by the U.S. Department of Energy &  
the U.S. Nuclear Regulatory Commission*

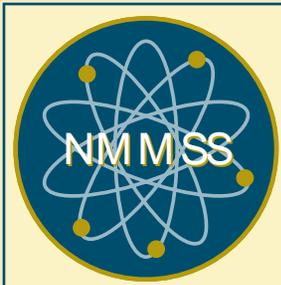
- Power Reactors
- Research Reactors
- Fabricators
- Gaseous Diffusion Plants (GDP)
- Other Licensee Facilities



# Number of Facilities Currently Submitting an MBR & PIL

NMMSS Users Annual Training Meeting  
Orlando, Florida—May 23-25, 2006  
Sponsored by the U.S. Department of Energy &  
the U.S. Nuclear Regulatory Commission

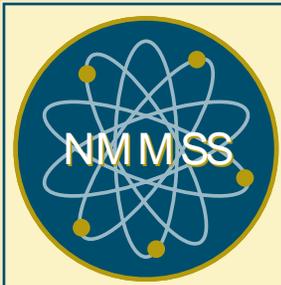




# Reconciliation Process Overview

NMMSS Users Annual Training Meeting  
Orlando, Florida—May 23-25, 2006  
Sponsored by the U.S. Department of Energy &  
the U.S. Nuclear Regulatory Commission

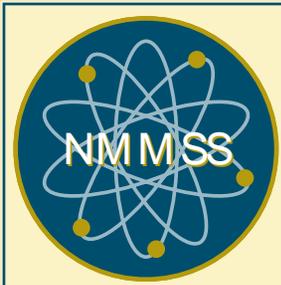
- NMMSS internal metric of 10 days allowed prior to initiating reconciliation after receipt of the MBR and PIL
- Facility submitted MBR (Section A & B) compared to NMMSS M-742 & OBL-05 Reports
- MBR compared to PIL
- Facility is notified of any discrepancies
- Facilities are responsible for resolving discrepancies



# Reconciliation Process Overview (cont.)

NMMSS Users Annual Training Meeting  
Orlando, Florida—May 23-25, 2006  
Sponsored by the U.S. Department of Energy &  
the U.S. Nuclear Regulatory Commission

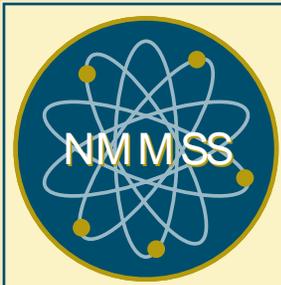
- NMMSS continues to maintain contact and provides assistance until the discrepancies are resolved
- All correcting data must be submitted to NMMSS
- NRC is routinely informed of the reconciliation status of the facilities and provides assistance if needed
- The facility is notified when they are reconciled



NMMSS Users Annual Training Meeting  
Orlando, Florida—May 23-25, 2006  
Sponsored by the U.S. Department of Energy &  
the U.S. Nuclear Regulatory Commission

# Reconciliation Responsibilities

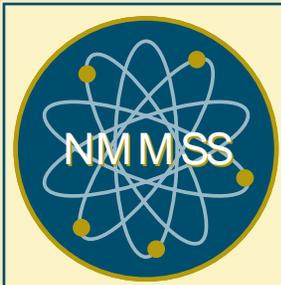
- NMMSS Responsibility: *To provide reasonable assistance, i.e. sending reports, transaction data, addressing licensee questions and concerns*
- Licensee Responsibility: *To Reconcile*



# Common Reconciliation Issues

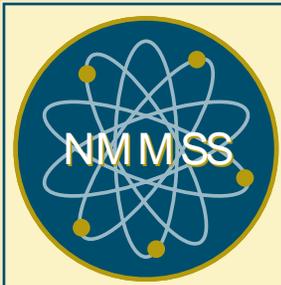
NMMSS Users Annual Training Meeting  
Orlando, Florida—May 23-25, 2006  
Sponsored by the U.S. Department of Energy &  
the U.S. Nuclear Regulatory Commission

- Beginning Balance of current period not the same as Ending Balance of last reported period.
- Rounding bias, i.e. sum and round vs. round an sum
- Difference between adjustment transactions captured by NMMSS and related adjustments on the facility's MBR
- Not reporting the 899 line (total) on electronic submittal of the PIL



# Common Reconciliation Issues (cont.)

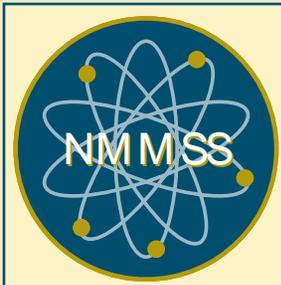
- Total lines on the PIL not equal to the sum of the detail lines.
- Incorrect formatting of the MBR & PIL
- Failing to change action code A to B when reporting receipts electronically



# Reconciliation Defined



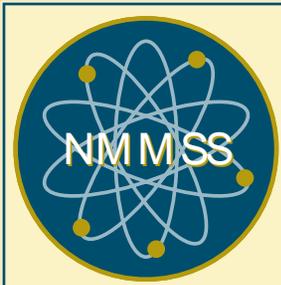
- No discrepancies in the balance of material related to the following:
  - Open Transactions (reported Period)
  - SNM (reconciled by owner code)
  - All government owned
  - Project numbers (If applicable)
  - Foreign obligated source material



# Means of Notification

NMMSS Users Annual Training Meeting  
Orlando, Florida—May 23-25, 2006  
Sponsored by the U.S. Department of Energy &  
the U.S. Nuclear Regulatory Commission

- Facility is notified via email when they have reconciled with NMMSS
- Notification includes a statement that they have been reconciled by:
  - Material type, owner code, project numbers and foreign obligated
- If applicable the statement includes notification that the NMMSS indicates Non- Special Nuclear Material not government owned or foreign obligated material that is not reconciled; asked to contact NMMSS if they wish to remove it to discuss options.



NMMSS Users Annual Training Meeting  
Orlando, Florida—May 23-25, 2006  
Sponsored by the U.S. Department of Energy &  
the U.S. Nuclear Regulatory Commission

# Reconciliation Improvements

- Reconciled 97% of reporting facilities to an NRC approved reconciliation procedure.
- Implemented two software change requests to facilitate reconciliation
  - Edit check to prevent “doubling” and inventory by importing it twice
  - Allow the use of process code “N” (known delay in reporting) to include obligated material detail lines
- Reconcile by project number for “G” material