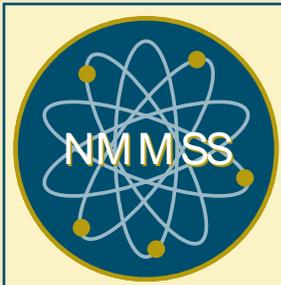


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Non-Reportable Material Balances in the NMMSS

Juan C. Subiry
5/23/2006

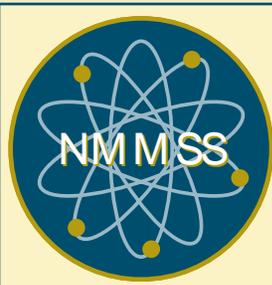


Definition

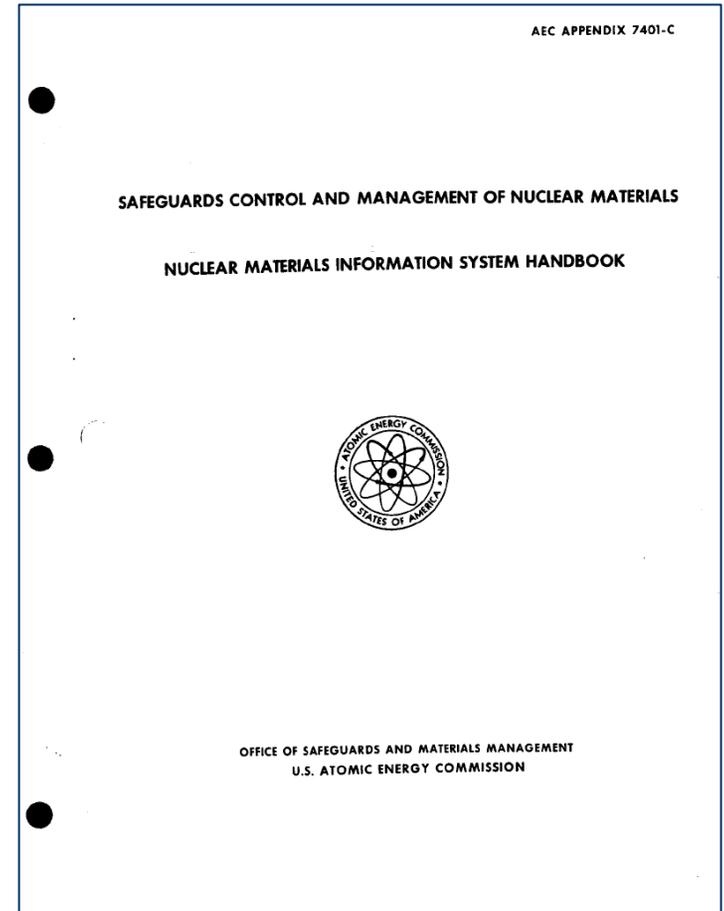
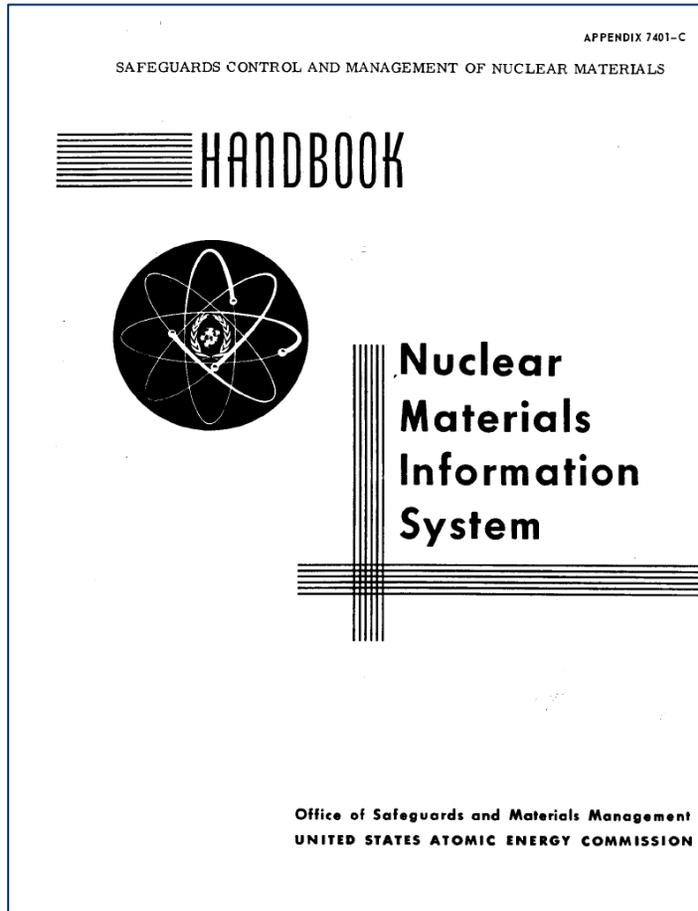
NMMSS non-reportable materials refers to materials not required to be reported per U.S. regulation, but are created as part of a reportable transaction

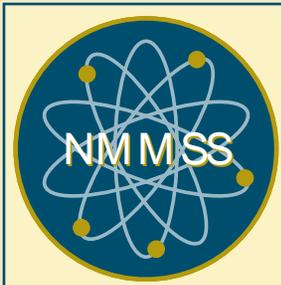
- *Privately source materials (Natural Uranium, Depleted Uranium, Thorium) with no foreign obligations*
- *Other non-SNM private materials traditionally reported as DOE-owned which includes; Americium, Curium, Californium, Enriched Lithium, Neptunium, Deuterium, and Tritium*

Accounting requirements AEC Manual Appendix 7401



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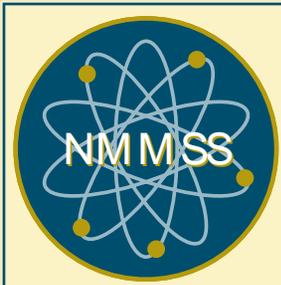


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History

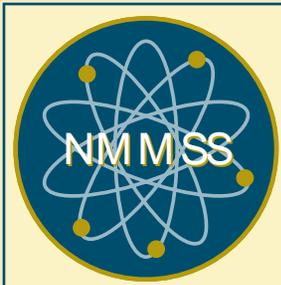
Reporting requirements early 1970s;

“All transfers of SNM, AEC-owned source material, and certain other AEC owned materials within the U.S and foreign entities shall be reflected on a Nuclear Material Transaction Report, Form AEC-741.”



History

- *NRC became an independent agency in 1975, by passage of the Energy Reorganization Act of 1974*
 - *Safeguards of nuclear materials at private facilities*
 - *Responsibility for nuclear materials with government proprietary interest was retained by ERDA (later DOE).*



NRC Regulations

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DOE/NRC Form 741

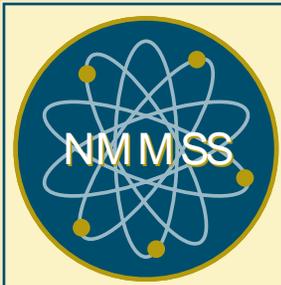
- *SNM (include SNM covered under IAEA agreement)*
- *Certain Source materials (1980)*

Foreign Obligations

Import / Export purposes

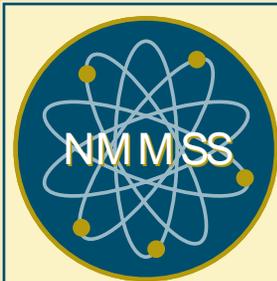
Material covered under IAEA agreement

“...741 is normally required as a matter of contract or lease administration for all Government-owned nuclear materials transferred..”



Non-Reportable Material Balances in the NMMSS

- *Primarily generated as a result of a shipment / receipt where only one side of the transaction is for reportable materials*
 - *DOE sale of material to a private entity*
 - *Import / Export of source materials*
- *Business Practices*
 - *Shipment documented by receiver to meet alternate requirements or material balance*

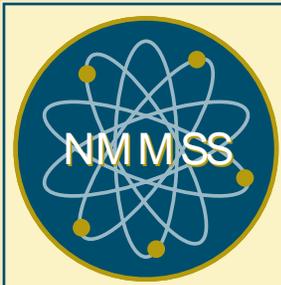


Non-Reportable Materials Balances in the NMMSS

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Transaction Examples

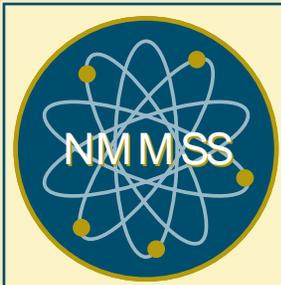
Shipper	Receiver	Material Type	Owner Code	TI Code
DOE	XYZ	48	G	R, S
XYZ	DOE	48	J	G
XYZ	RXYZ	81	J	-
RXYZ	XYZ	81	J	-



Non-reportable materials

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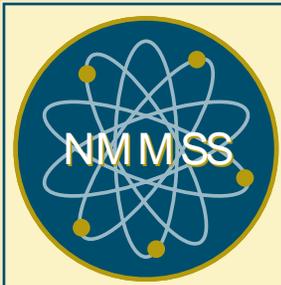
- *Government shipments – causes most non-reportable material inventories (donated or sold)*
- *No requirements for reporting inventory of these materials*
- *No reconciliation requirements but corrections are typically addressed during reconciliation of other materials*
- *Removal increased potential for negative balances (Example: Sale to DOE)*
- *Inventories have increased over the years*



Removal Activities

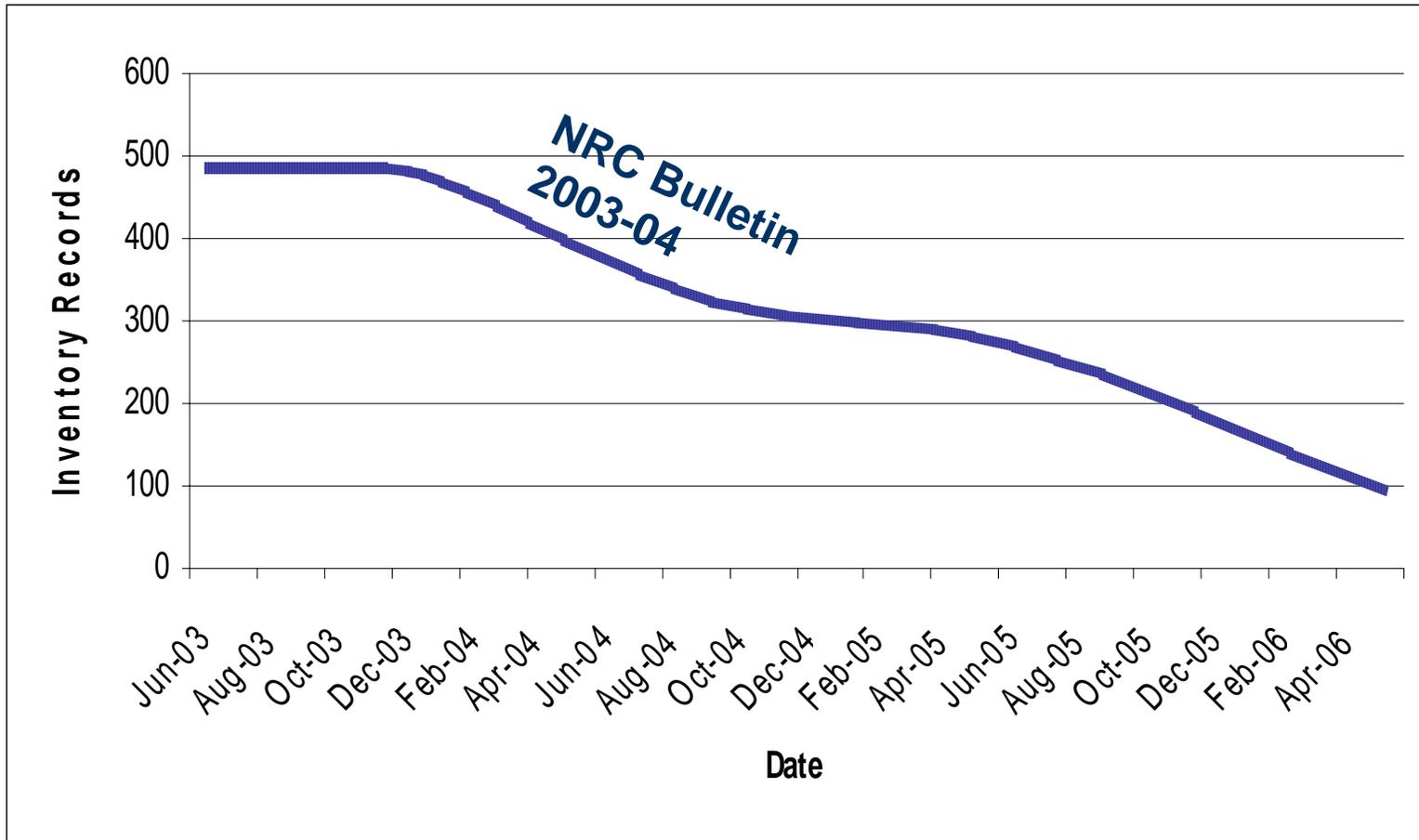
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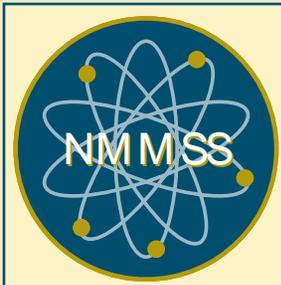
- *One-time reconciliation per NRC Bulletin 2003-04 (Task 8)*
- *Reconciliation of DOE materials at NRC and Agreement State Licensees*
- *Data Cleanup Activities (Oct 05-Now)*
 - *Correction of negative balances*
 - *Contact campaign*
 - *Activities performed as part of routine operations*



Non-reportable Inventory Records in the NMMSS

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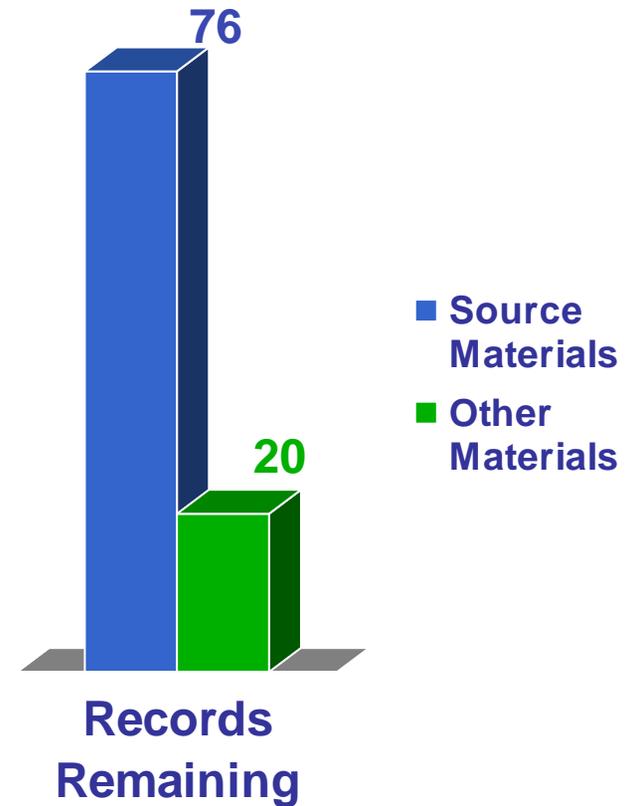


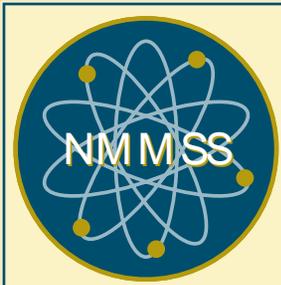


Current Status

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- 96 records remaining
- These are the most difficult with specific issues:
 - Exporters
 - Business Practices
 - Material processors
- May require SCRs for special handling or may become recurring balances

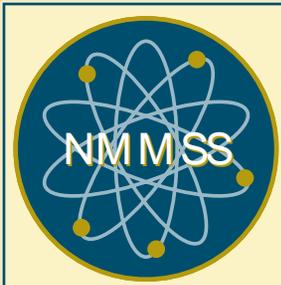




Issues Pending

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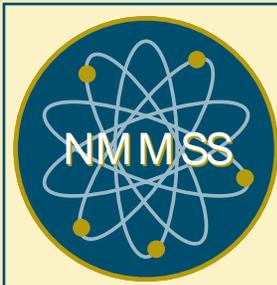
- Retaining balances for:
 - Future reportable shipments
 - Business Practice / Material balance
 - Auditing trail
- Small number of Mines
 - Not required to report production
 - Export requires 741
 - Adjustments to avoid negative balances



How can you help?

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- Collaboration From All NMMSS Users Is Important to minimize the creation of these balances
- NMMSS is authorized by the NRC to assist NRC and Agreement State licensees with the removal of these balances from the system
- Awareness during reconciliation activities



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Questions?

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