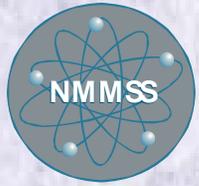


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NMMSS Role in Safeguards Implementation

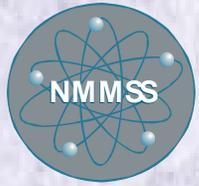
Gary L. Hirsch
Senior Nuclear Materials Analyst
(770) 662-8110 ext. 117
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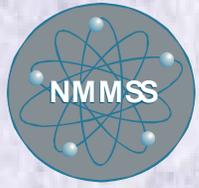
- Legal Basis
 - Treaty on the Non-Proliferation of Nuclear Weapons (NPT) 1970
 - Article III.2, : Requires each State Party to the NPT not to provide source or special fissionable material, or equipment or material especially designed or prepared for the processing, use or production of special fissionable material, to a NNWS for peaceful purposes unless the source or special fissionable material is subject to Agency safeguards



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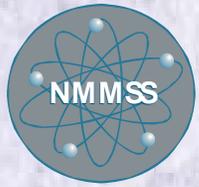
- **INFCIRC/153**
 - Basis for negotiating safeguards agreements under the NPT
- **INFCIRC/288**
 - Voluntary Offer
- **INFCIRC/207**
 - Import/Export Notifications



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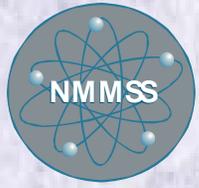
- **INFCIRC/288**
 - **Voluntary Offer**
 - Annex I facilities (eligible for IAEA selection)
 - Annex II facilities (selected for inspection and reporting)
 - Protocol facilities (selected for reporting, no inspection)



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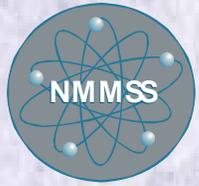
- INFCIRC/288 Facilities:
 - DOE: (Annex II)
 - DZC - Westinghouse (WSRC) CAMS
 - FZH - BWXT – Y-12 International Safeguards Storage
 - HTB - FDHC, International Safeguards Account
 - NRC: (Protocol)
 - YLJ - Global Nuclear Fuel – Americas
 - YLM – Westinghouse, Commercial Fuel Division
 - YNJ – Framatome Advanced Nuclear Power ANP
 - YUD – Framatome ANP Inc.



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- **INFCIRC/207**
 - Annex I facilities
 - Material under safeguards in the partner States

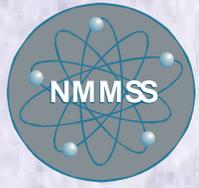


IAEA Reporting

- What does this all mean?

NMMSS utilizes the standard reporting vehicles for collecting data from Nuclear Facilities and reformats the data received to meet the IAEA requirements on either a monthly or annual basis

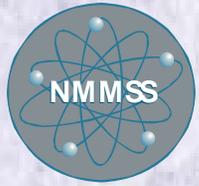
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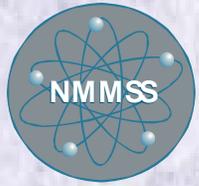
- Monthly Reporting:
 - ICR-288
 - CN-288
 - ICR-207
 - CN-207
- Annual Reporting:
 - PIL-288
 - MBR-288



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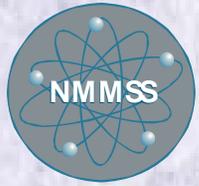
- What does this mean for facilities reporting to NMMSS?
 - Selected:
 - Continue to report domestic Comp Codes on transaction and inventory reporting
 - All transaction activity is reported to the IAEA on a monthly ICR-288
 - Facility is required to report Batchid information
 - Annual line item Inventory and Material Balance reporting and reconciliation – reported to IAEA on PIL-288 and MBR-288



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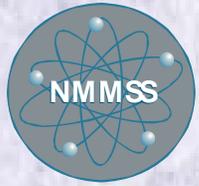
- Selected and Attached:
 - Report IAEA defined Comp Codes, Key Measurement Points, and Measurement Basis as established in site specific facility attachment
 - All transaction activity is reported to the IAEA on a monthly ICR-288
 - Facility is required to report Batchid information
 - Annual line item Inventory and Material Balance reporting and reconciliation – reported to IAEA on PIL-288 and MBR-288



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- Non-selected
 - Continue to report domestic Comp Codes on transaction and inventory reporting
 - All import/export transaction activity is reported to the IAEA on a monthly ICR-207
 - Facility is required to report Batchid information on import/export activity or activity involving an IAEA facility
 - No annual reporting is done



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- What is reported to the IAEA?
 - Material Types:
 - Natural Uranium – M/T 81
 - Depleted Uranium – M/T 10
 - Thorium – M/T 88
 - Enriched Uranium – M/T 20
 - Plutonium – M/T 50

NUCLEAR MATERIAL TRANSACTION REPORT

Estimated burden per response to comply with this mandatory collection request: 1 hr and 15 minutes. This information is required for NRC accounting reports that show changes in inventory of nuclear materials. Send comments regarding burden estimate to the Records Management Branch (1-F-52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by Internet e-mail to rlmcollect@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NE-09-10202 (3150-0003), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

1 ADDRESS NO		2 RECEIVER'S NO		3 TRANSACTION		4 COMMODITY		5 PROCESS CODE		6 MATERIAL		7 OCCURRENCE (Only if material is classified SECRET)	
8 NAME AND ADDRESS OF SHIPPER		9 NUMBER NO		10 NAME AND ADDRESS OF RECEIVER		11 LICENSE NO		12 REPORT NO		13 DATE OF TRANSACTION		14 NO OF PAGES COPY OF WORKS SHEETS	
15 ATTENTION		16 ATTENTION		17 NO OF REPORT TRANSFER		18 REPORT FOR ACCOUNT OF		19 NO OF REPORT TRANSFER		20 REPORT TO ACCOUNT OF		21 NO OF REPORT TRANSFER	
18 TELEPHONE		19 TELEPHONE		22 EXPORT OR IMPORT TRANSFER LICENSE NO		23 ACTION DATE		24 MONTH		25 DAY		26 YEAR	
27 TRANSFER AUTHORITY - CONTRACT, AM DRAFT, OR ORDER NUMBER		28 MATERIAL TYPE AND DESCRIPTION		29 TOTAL GROSS WEIGHT		30 TOTAL VOLUME (Other Than Gas)		31 SHIPPER'S DATA		32 RECEIVER'S DATA		33 DISTRIBUTION OF COPIES	

27a. MISCELLANEOUS

28. COMMENTS ATTACHED YES NO

29. IS REPORTABLE? YES NO

31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
LINE NUMBER	COUNTRY OF ORIGIN	ISOTOPE TYPE	ISOTOPE WEIGHT	ORIGINATED INVENTORY WEIGHT	ACTION DATE		SHIPMENT	SHIPPER'S CONNECTION	RECEIPT	RECEIVER'S MEASUREMENT	RECEIVER'S CONNECTION	MONTH	DAY	YEAR	NO	DISTRIBUTION OF COPIES			

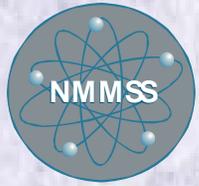
26. SHIPPER'S DATA	BACK REFERENCE NUMBER	LINE NO.	TYPE OF MV CHANGE	IDENTIFICATION (ITEM OR CONTAINER)	NO OF ITEMS	PROJECT NUMBER	MATERIAL TYPE	SHIPMENT FACILITY CODE	INVENTORY CODE	KEY MARK POINT	HEAD DIST			GROSS WEIGHT	NET WEIGHT	ELEMENT WEIGHT	ELEMENT UNIT OF BRICK	WEIGHT % ISOTOPE	ISOTOPE WEIGHT	ISOTOPE LIMIT OF BRICK	
											1	2	3								
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	

34. SHIPPER'S DATA SIGNATURE OF THE SHIPPER AND DATE SIGNED

37. RECEIVER'S DATA SIGNATURE OF AUTHORIZED OFFICIAL AND DATE SIGNED

26. SHIPPER'S DATA	27. RECEIVER'S DATA

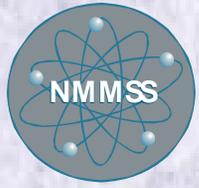
WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECTS. 18 U.S.C. SECTION 1001 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.



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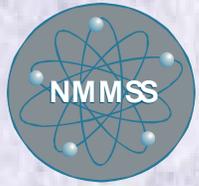
- Timeliness of ICR
 - Must be dispatched to the Agency on or before the 30th day of the end of the month in which event
- Timeliness of PIL/MBR
 - Must be dispatched to the Agency on or before the 30th day of the end of the PIL/MBR closing date



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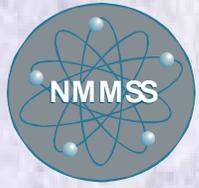
- Reporting Activities
 - Each report is assigned a sequential number for the RIS
 - Each diskette is assigned a sequential number for the year
 - For every diskette transmitted to the Agency, NMMSS receives a Diskette Summary
 - Dispatch Date
 - Receipt Date
 - Records Received
 - Problems with reported data



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- Reporting Activity Summary
(for the period 4/1/2004 – 3/31/2005)
 - 38 Diskettes were transmitted to Agency
 - 61000+ Records transmitted to the Agency
 - 22 Day average to dispatch ICR's
 - Error rate of .06% for reporting period



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- Summary/Questions

Reporting nuclear material data to the IAEA is a very important function of NMMSS. It is a very visible and vital activity but it cannot be done without the timely and accurate reporting by each and every facility that reports to NMMSS