



NMMSS Technical Progress Report July 2004

Under Contract Number DE-AC03-98SF21544, Tasks 1, 2, & 3

This report summarizes the NMMSS program's technical progress for the month of July 2004. The report was submitted to DOE, SO-20.3 and a copy was provided to the NRC as its Monthly Status Report.

A. Project Management

1. NMMSS continued to receive and respond to licenses in support of the NRC's one-time reconciliation of facility and NMMSS balances, Task 8 under the contract. NMMSS is also reviewing and closing licensee submittals, including resolving licensee/NMMSS discrepancies. As of July 31, responses for 1,324 of the 1,337 commercial nuclear facilities covered by the initiative have been received.
2. Per the NMMSS one-time reconciliation of DOE-owned materials at licensee facilities, NMMSS has reconciled 103 of the 153 non-DOE facilities with DOE-owned material as of July 31.
3. NMMSS closed the May reporting period and distributed monthly reports to users during the month.
4. The overall error rate on transaction data for July 0.98%. The June DOE rate was 0.22, slightly higher than last month's rate of 0.14%. The NRC facilities' error rate was 2.06% in July, significantly lower than the error rate in June (3.55%). Refer to paragraph f. (1), of page 4, below.
5. NMMSS staff met with DOE and NRC sponsors in Washington to discuss the status of Task 8 operations and reconciliations effort.
6. SRS development staff met with NMMSS staff to discuss NMMSS upgrade work and to identify the configuration requirements and software and hardware procurement needs for the upgrade.
7. DOE headquarters conducted the annual Safeguards and Security Periodic Survey of NAC/NMMSS on July 20-21.
8. NMMSS completed the preparation of and distributed the final foreign country report (Canada) to NA-241 during the month.

I. Barriers and Issues

As a result of issues regarding CREM, NMMSS is not currently receiving data from certain DOE sites. While the monthly closure plan is on schedule, as a result of the actions of various DOE facilities in response to the CREM issue, there is a possibility that the July monthly closure schedule could be negatively impacted.

The NRC has instructed NMMSS not to contact any RIS in the State of Iowa. This may impact the reconciliation of several RISs with government-owned material. There are no other barriers and issues.

J. Resource Allocation

During the month, the following NAC staff supported NMMSS: Mike Smith supported the Foreign Obligations task and Juan Subiry, Pat Smith, Fritz Strydom, and Christa Gray supported Task 8 and the DOE one-time reconciliation project. These individuals are expected to be necessary to support the NMMSS project during August. The costs for these activities are within the existing plan. These additional resources will allow NMMSS staff to stay focused on priority, on-going NMMSS activities.

The projected schedule for closures through September is as follows:

<u>Monthly Data</u>	<u>Date Range</u>
May 2004	Closed July 19, 2004
June 2004	Closed August 4, 2004
July 2004	August 20 – September 3, 2004
August 2004	September 20 – October 1, 2004
September 2004	November 15 – December 3, 2004

The schedule above is based on regular NMMSS operations. The stand down of the use of Classified Removable Electronic Media (CREM) has negatively impacted the ability of some DOE contractors to submit required data to NMMSS. Therefore, the CREM stand down will likely also indirectly negatively impact the above closure schedule.

The projected schedule for review and revision of plans and procedures is as follows:

<u>Plan/Procedure</u>	<u>Completion Date</u>
135-PR-665, Data Input, Processing and Closeout	August
135-PL-400, Software Quality Assurance Plan	August
135-PL-330, Software Project Management Plan	August
135-PL-200, Site Security Plan	August

K. Security and Quality Assurance

1. Security

- a. There were no identified security infractions during the month.
- b. There were 46 visitors to the NMMSS area during the month. Twenty-five had "Q" access authorizations, while the remainder had none. Visitors without a "Q" access authorization were escorted.
- c. The following NAC staff have submitted security clearance requests to DOE: Pete Walier, Mike Smith, Fritz Strydom, Ernie Dake, Pat Smith,

Juan Subiry, Chris Rusch, and Gary Leamon. Mike Miles is pursuing an upgrade from an "L" to a "Q."

2. Quality Assurance

NAC QA reviewed and provided comments and approvals for revised plans and procedures and participated in the CCB meetings.

E. Plans and Procedures Revisions

The Records Management Plan, 135-PL-100, was issued during the month.

F. Data Processing

(1) Transactions Processing

During the month of June there were 21 workdays for processing during which a total of 22 daily processing runs were made. A total of 7,341 741 equivalent records were processed that contained a total of 20,125 transaction records. Of the 20,125 transaction records processed during the month, there were 197 identified errors, for an overall error rate of 0.98% (197/20,125). This represents a significant decrease from the overall June error rate (2.73%). The following table depicts the overall performance of DOE contractor and Licensee facilities.

	Records		Error Rates
DOE Facilities	11,825	26	0.22%
Licensee Facilities	<u>8,300</u>	<u>171</u>	<u>2.06%</u>
Total	20,125	197	0.98%

12

The error rate for the DOE facilities has increased slightly since the previous reporting period (0.14%), but remains low. The NRC facilities error rate has decreased significantly since the previous reporting period (3.55%).

The DOE has established a goal of holding the error rate at a level less than 2%. The following data summarizes the degree to which the metric was met. The number of facilities that had a zero error rate is also listed below. Efforts continue toward the goal of achieving 100% of facilities with error rates below the metric of <2%.

	Number	% of Total
Facilities Reporting	50	100%
Error Rate Below 2%	46	92%
Error Rate of Zero	42	84%

Of the 50 DOE facilities that submitted transaction data, those that did not meet the metric are listed below.

¹ Includes both contractors and DOE-owned and operated facilities.

² Includes both NRC and Agreement State Licensees.

Facility	Records	Errors	Error Rate
CBJ, USDOE, New Brunswick Lab, Illinois	43		2.3 2 %
FZEH, Bechtel Jacobs, ETTP Discard to Holding	31		3.2 2 %
FZF, BWXT-Y-12, LLC	318		4.7 1 %
KZA, Knolls Atomic Power Laboratory, MM	24		4.1 6 %

The error rate for FZF, BWXT-Y-12, LLC was due to errors related to weight percents and project numbers. The other error rates listed above were attributed to the low volume of records compared to the number of records in error.

See the table below for the performance of the major facilities during the month of July. The ten top facilities in terms of volume of transaction records for DOE and NRC facilities are considered major for the purposes of the table.

Facility	Records	Error Rate
AUA, Los Alamos National Laboratory	7,197	0.00%
BYC, USEC, Paducah GDP	1,631	0.00%
YLM, Westinghouse, Commercial Fuel Div.	1,480	0.33%
YLJ, Global Nuclear Fuel – Americas	798	0.50%
YSP, Honeywell International Inc.	617	0.32%
DZA, Westinghouse Savannah River Company	573	0.69%
BXA, USEC, Portsmouth GDP	565	1.23%
YUD, Framatome ANP Inc.	521	0.38%
LZB, U Cal, Lawrence Livermore Laboratory	460	0.00%
ORK, EG&G Rocky Flats	442	0.45%

The Los Alamos National Laboratory and USEC Paducah GDP lead the major facilities in the number of transaction records reported with error rates of 0.00%.

(2) Inventory Reporting

During the month of July, a total of 235,023 inventory records were processed.

a. Licensee Reconciliation Status Based on Annual Reporting Requirement for CY-2004³

Number Reported	Number Reconciled	Number Reported Not Reconciled
67	52	15

(4) International Reporting

Reporting to the IAEA:

Report	RIS	Coverage Period	Date Dispatched
ICR-288, ICR-207, and CN-207	YLJ, YLM, YNJ, YUD	06/01-30/2004	07/29/2004
ICR-288	ZOO	06/01-30/2004	07/13/2004

(5) Standard Report Distribution

A total of 1,462 reports were distributed in July 2004. Distribution was as follows:

Print	150
Diskette	5
Remote Link	879
SIMEX	<u>428</u>
Total	1,462

(6) User Customer Service Issues

REPORT RELATED	DATE	USER	RIS	ISSUE	RESOLUTION/DATE
				No outstanding customer service issues. No new issues were identified this month.	

³ The following licensees (RISs) have not reconciled for one or more previous reporting periods: GTS Duratek (ZBI, ZIB, ZIV), University of Illinois (ZJR) (one period not reconciled), and University of Michigan-Michigan Memorial Phoenix Project (ZMZ).

G. Status of Special Tasks

- (1) NMMSS continued to assist licensees in support of NRC's Task 8 and DOE's one-time reconciliation projects. Bi-monthly reports are provided to the sponsors.

H. FoxPro NMMSS Maintenance

- (1) During the month, two software configuration control board meetings were held to act on Software Change Requests (SCRs). During the month, SO-20.3 approved four SCRs for moving to the production database and three were approved for programming.
- (2) Software assistance was provided to the NMMSS analysts in running data requests and in problem resolution related to routine NMMSS operations.
- (3) Enclosure four lists the outstanding SCRs.

I. Planned Activities for August 2004

- (1) NMMSS will begin procuring software and hardware to support the new upgrade configuration effort.
 - (2) NMMSS staff will focus on processing licensee Task 8 submittals and on reconciling licensee facilities with DOE-owned materials.
 - (3) NMMSS plans to close the June processing month.
- (1) NMMSS will contract with Virginia Tech to evaluate the upgrade documentation and the SRS-produced system requirements and preliminary program plan.

Data Requests Issued in July 2004

Enclosure 1

#	Organization	Name
1	NAC	Dan Collier
2	DOE/HDQ	Jay Beams
3	DOE/AAA	G. D. Roberson
4	DOE/HDQ	Alice Morris

Inventory Data Submitted Late, Fiscal Year 2004
DOE Facilities

RIS	Facility	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
AAA	Albuquerque DOE			5			8						
ACD	Lovelace Foundation			14			6						
CCA	Princeton Plasma Physics Lab			1									
CZA	Argonne – East			7									
CZC	Argonne – West			7									
DAA	Savannah River DOE			11									
FCC	Materials and Chem. Lab			5									
FDD	East TN Tech Park			11									
FZH	Y-12 Plant, IAEA Area			8									
JAB	Idaho DOE			12			4						
JBF	BNFL			6									
JRK	Special Manufacturing, DOD			5									
JXI	INTEC			5			4						
LZB	U Cal, Lawrence Livermore Laboratory				1								
NAB	Nevada Test Site			5									
NAE	Bechtel Nevada			11									
QZG	Albuquerque, 91C Material			5			8						

Monitoring Reconciliation for 2004

RIS	Facility	2004 Important Dates			
		Inventory Date for 2004	Date Received	Date Reconciled	Date Expected for 2004/2005 Inventory
					12/31/2004
			6/8/2004		3/31/2004
			7/30/2004		5/7/2004
					7/31/2004
					9/30/2004
					7/1/2004
					5/31/2004
					6/1/2004
			4/15/2004	5/12/2004	9/30/2004
					7/31/2004
			7/8/2004		5/12/2004
					6/2/2004
			7/23/2004		5/31/2004
			6/14/2004	7/2/2004	7/1/2004
					7/31/2004
					7/31/2004
					8/19/2004
					7/31/2004
					10/1/2004
			4/8/2004	4/19/2004	3/31/2005
			5/24/2004	6/14/2004	8/12/2004

Monitoring Reconciliation for 2004

RIS	Facility	2004 Important Dates			
		Inventory Date for 2004	Date Received	Date Reconciled	Date Expected for 2004/2005 Inventory
			6/15/2004	6/30/2004	4/16/2004
					7/11/2004
					9/25/2004
			7/8/2004		5/8/2004
					8/31/2004
					7/31/2004
					12/3/2004
			5/24/2004	6/11/2004	7/1/2004
					5/31/2004
					7/31/2004
					7/31/2004
			3/15/2004	6/10/2004	2/3/2004
					7/1/2004
			4/26/2004	5/10/2004	9/30/2004
					8/5/2004
					8/4/2004
					7/31/2004
					7/31/2004
					8/13/2004
					5/31/2004
					7/7/2004
					9/30/2004
					9/30/2004

Monitoring Reconciliation for 2004

RIS	Facility	2004 Important Dates			
		Inventory Date for 2004	Date Received	Date Reconciled	Date Expected for 2004/2005 Inventory
			6/1/2004	7/2/2004	3/31/2004
					12/9/2004
					12/30/2004
					9/15/2004
					6/16/2004
					6/1/2004
					9/30/2004
					7/31/2004
					7/11/2004
			7/30/2004		8/13/2004
					6/30/2004
			5/24/2004	6/28/2004	3/26/2004
					9/30/2004
					5/31/2004
					7/28/2004
					9/9/2004
					4/8/2004
			7/19/2004	7/26/2004	6/10/2004
					9/30/2004
			7/30/2004		8/13/2004
			7/30/2004		5/19/2004
					10/20/2004

Monitoring Reconciliation for 2004

RIS	Facility	2004 Important Dates			
		Inventory Date for 2004	Date Received	Date Reconciled	Date Expected for 2004/2005 Inventory
					5/31/2004
					7/31/2004
					8/31/2004
					9/30/2004
					7/31/2004
			4/27/2004	5/10/2004	9/30/2004
					7/31/2004
					9/7/2004
					9/7/2004
					9/31/2004
					7/1/2004
			4/12/2004	4/19/2004	9/30/2004
			4/26/2004		9/30/2004
			7/8/2004		5/8/2004
			5/5/2004	5/11/2004	9/30/2004
			4/21/2004	4/29/2004	9/30/2004
					7/15/2004
					9/1/2004
			7/30/2004		8/13/2004
			4/29/2004	5/12/2004	1/31/2004
					8/18/2004
					9/30/2004
					7/31/2004

Monitoring Reconciliation for 2004

RIS	Facility	2004 Important Dates			
		Inventory Date for 2004	Date Received	Date Reconciled	Date Expected for 2004/2005 Inventory
			6/23/2004	6/28/2004	4/8/2004
					7/17/2004
			6/22/2004		4/18/2004
					11/1/2004
					3/31/2004
			3/1/2004	5/12/2004	2/9/2005
					8/19/2004
					4/10/2004
					7/31/2004
			5/11/2004	6/21/2004	3/17/2004
			5/10/2004	5/14/2004	3/10/2004
			6/14/2004		6/24/2004
					7/14/2004
					7/31/2004
					6/2/2004
					9/30/2004
			5/25/2004	6/28/2004	3/31/2004
					7/31/2004
			5/14/2004	6/2/2004	4/14/2004
			5/25/2004	7/8/2004	3/31/2004
					7/31/2004
					7/31/2004
			6/8/2004		3/31/2004

Monitoring Reconciliation for 2004

RIS	Facility	2004 Important Dates			
		Inventory Date for 2004	Date Received	Date Reconciled	Date Expected for 2004/2005 Inventory
					9/30/2004
					5/31/2004
					7/31/2004
					8/15/2004
			6/1/2004	6/22/2004	3/31/2004
					7/31/2004
					8/13/2004
					9/30/2004
			5/10/2004	5/13/2004	3/31/2004
					9/30/2004
					9/30/2004
			4/30/2004	5/11/2004	9/30/2004
			4/13/2004	6/15/2004	3/31/2004
			4/30/2004	5/10/2004	3/31/2004
					7/31/2004
					7/31/2004
			5/3/2004	5/10/2004	3/31/2004
					10/31/2004
			4/28/2003	5/17/2004	9/30/2004
			4/5/2004	5/13/2004	10/1/2004
					9/30/2004
			4/29/2004	7/8/2004	9/30/2004

Monitoring Reconciliation for 2004

RIS	Facility	2004 Important Dates			
		Inventory Date for 2004	Date Received	Date Reconciled	Date Expected for 2004/2005 Inventory
			4/19/2004	7/27/2004	9/30/2004
			4/26/2004	4/29/2004	9/30/2004
			6/14/2004	6/21/2004	9/30/2004
			5/17/2004	5/25/2004	3/31/2004
					9/30/2004
					9/30/2004
					9/30/2004
			4/30/2004	5/10/2004	9/30/2004
			6/1/2004	7/1/2004	3/31/2004
					9/30/2004
			4/19/2004	5/7/2004	9/30/2004
			5/3/2004		3/31/2004
	<i>Will report the same as in the past (twice a year)</i>		4/26/2004	4/29/2004	9/30/2004
					10/10/2004
					9/30/2004
					10/1/2004
					7/31/2004
			4/29/2004	6/21/2004	9/30/2004
					7/31/2004
			4/29/2004	5/10/2004	9/30/2004
			4/5/2004	4/19/2004	3/31/2005
					9/30/2004

Monitoring Reconciliation for 2004

RIS	Facility	2004 Important Dates			
		Inventory Date for 2004	Date Received	Date Reconciled	Date Expected for 2004/2005 Inventory
			4/26/2004	5/13/2004	9/30/2004
			4/12/2004	5/18/2004	3/31/2005
					12/19/2004
			5/3/2004	5/11/2004	9/30/2004
					7/22/2004
			7/1/2004	7/8/2004	9/30/2004
					9/30/2004
			4/19/2004	5/10/2004	9/30/2004
			4/19/2004	5/10/2004	3/31/2004
			4/12/2004	4/29/2004	3/31/2005
			5/13/2004	6/16/2004	3/31/2004
			4/12/2004	4/19/2004	3/31/2005
					3/31/2004
					7/2/2004
					7/31/2004

SCRs Outstanding⁴

SCR #	Description	Priority	Schedule	Comments
40354	V station must enter owner code if detail lines are reported, otherwise the record is in error	Important	Complete	On hold per SO-62, 9/18/02
40369	When receiving V station submits an A/B transaction with zero detail lines, NMMSS will generate detail lines and will use owner code entered by the shipper	Important	Complete	On hold per SO-62, 9/18/02
50035	Create a report that fulfills the requirements in the NMMSS Guidance Document 2002-01	Non-critical	Assigned to RMH	
50036	Create a report that fulfills the requirements in the NMMSS Guidance Document 2002-02	Non-critical	Assigned to RRR	
50037	Create a windows based application to download files from the direct links.	Non-critical	In Test	
50055	Add an edit to ensure that receiver's weights are within 10% +/- the shipper's weights	Non-critical	TBD	
50078	NMMSS report IA-OBL-04 is a new report that provides the equivalent of Section B on facility submission of Form DOE/NRC 742. Its logic will be transferred to the NMMSS generated M-742.	Important	Assigned to RMH	
50080	Convert SAMS from DOS to Windows	Important	Assigned to SLB	
50090	Enhance report H-5 to permit generating if for more than a year and produce report in an ASCII text file	Non-critical	TBD	
50094	Modified the report TJ-110 to add additional features desired by the NRC. An estimate will be prepared and forwarded to the NRC for evaluation and a decision as to whether the cost benefit is determined by NRC to be supportive of proposed changes.	Important	In test	
50099	Per request of NRC, create a temporary report by modifying a TJ-45 for use in NRC Task 8 site visits	Very Important	Ready for CCB (Production)	
50100	Based on impending decision by the US to accept the IAEA request that material description codes have zeroes in certain positions rather than alpha Os, NMMSS software will be changed in the test server but the change will not be activated in the production server until sponsor approval is provided	Important	Ready for CCB (Production)	
50102	Currently, to obtain the foreign obligation notifications, the data generation program must be run with only the foreign obligations generation option set to "True." All other options must be false. This results in requiring the analysts to run data generation twice. This needs to be corrected	Important	Ready for CCB (Production)	
50103	Government notifications are not capturing retransfers to countries not on the obligations list. Additional countries need to be added.	Very Important	Ready for CCB (Production).	

⁴Note: SCR numbers in bold affect facilities. Other numbers affect internal NMMSS operations only.