



NMMSS Technical Progress Report August 2004

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

This report summarizes the NMMSS program's technical progress for the month of August 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 licensees 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 August 31, responses for 1,335 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 110 of the 153 non-DOE facilities with DOE-owned material as of August 31.
3. NMMSS closed the June and July reporting periods and distributed monthly reports to users during the month.
4. The overall error rate on transaction data for August was 2.96%, compared to 0.98% in July. The DOE rate for the month was 0.92, slightly higher than last month's rate of 0.22%. The NRC facilities' error rate was 3.56% in August, which was higher than the error rate in July (2.06%). Refer to paragraph f. (1), of page 4, below.
5. NMMSS contracted with Virginia Tech to evaluate the upgrade documentation and the SRS-produced system requirements and preliminary program plan.
6. NAC QA initiated the annual audit of NMMSS operations during the month.

G. 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 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 DOE reconciliation effort of several RISs with government-owned material. There are no other barriers and issues.

H. 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>
June 2004	Closed August 4, 2004
July 2004	Closed August 20, 2004
August 2004	September 20, 2004
September 2004	November 05 – 30, 2004

The schedule above is based on regular NMMSS operations and DOE Headquarters direction to close NMMSS books by the 20th of following month for all months, excluding reconciliation months (September and March). 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 may also negatively impact the closure schedule for September 2004 without direction from DOE Headquarters.

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	September
135-PL-400, Software Quality Assurance Plan	September
135-PL-330, Software Project Management Plan	September
135-PL-200, Site Security Plan	September
135-PL-282, STE/STU-III Facsimile Security Plan	September
135-PL-230, Direct Link Classified Information System Security Plan	September
135-PL-001, Project Management Plan	September

I. Security and Quality Assurance

1. Security

- a. There were no identified security infractions during the month.
- b. There were 53 visitors to the NMMSS area during the month. Thirty-one had "Q" access authorizations, while the remainder had none. Visitors without a "Q" access authorization were escorted.
- c. NAC received interim "Q" clearance authorizations for Juan Subiry and Pat Smith.

- d. The following NAC staff have submitted security clearance requests to DOE: Pete Walier, Mike Smith, Fritz Strydom, Ernie Dake, 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 meeting. NAC QA also began its annual QA audit of NMMSS operations during the month.

E. Plans and Procedures Revisions

While several plans and procedures were worked on during the month, no plans or procedures were issued during the month.

F. Data Processing

(1) Transactions Processing

During the month of August there were 22 workdays for processing during which a total of 24 daily processing runs were made. A total of 3,764 741 equivalents were processed containing a total of 17,157 transaction records. Of the 17,157 transaction records processed during the month, there were 507 identified errors, for an overall error rate of 2.96% (507/17,157). This represents a significant increase from the overall July error rate (0.98%). The following table depicts the overall performance of DOE contractor and Licensee facilities.

	Records		Error Rates
DOE Facilities	3,918	36	0.92%
Licensee Facilities	13,239	471	3.56%
Total	17,157	507	2.96%

The error rate for the DOE facilities has increased since the previous reporting period (0.22%), but remains well below the 2% metric. The NRC facilities error rate has increased since the previous reporting period (2.06%).

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	49	100%
Error Rate Below 2%	45	92%

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

² Includes both NRC and Agreement State Licensees.

Error Rate of Zero	4	8%
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Of the 49 DOE facilities that submitted transaction data, those that did not meet the metric are listed below.

Facility	Records	Errors	Error Rate
CAK, Ames Laboratory, Iowa State University	3		33.33%
FCC, Materials and Chemistry Laboratory, Inc.	15		40.00%
FDD, BNFL, D&D Recycle Project	32		21.87%
VAB, USDOE, Nevada Test Site, Burial Ground	2		10.00%

The 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 August. 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
BYC, USEC, Paducah GDP	3,239	0.00%
YLM, Westinghouse, Commercial Fuel Div.	1,736	1.55%
HTA, Fluor Daniel Hanford	1,063	0.56%
YLJ, Global Nuclear Fuel – Americas	979	0.20%
YSP, Honeywell International Inc.	938	0.85%
YUD, Framatome ANP Inc.	768	0.65%
XOL, Unitech Services Group, Inc.	654	0.61%
BXA, USEC, Portsmouth GDP	580	0.00%
ZBF, BWX Technologies, Inc.	434	0.00%
LZB, U Cal, Lawrence Livermore Laboratory	390	0.76%

The USEC Paducah GDP and Westinghouse, Commercial Fuel Division lead the major facilities in the number of transaction records reported with error rates below 2%. Los Alamos, usually a leader in the number of records submitted, is not listed since they were unable to submit data due to CREM restrictions.

(2) Inventory Reporting

During the month of August, a total of 121,647 inventory records were processed.

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

Number Reported	Number Reconciled	Number Reported Not Reconciled
85	77	8

(4) International Reporting

Reporting to the IAEA:

Report	RIS	Coverage Period	Date Dispatched
ICR-288, ICR-207, and CN-207	YLJ, YLM, YNJ, YUD	07/01-31/2004	08/20/2004
ICR-288	ZOO	07/01-31/2004	08/23/2004

(5) Standard Report Distribution

A total of 1,863 reports were distributed in August 2004. Distribution was as follows:

Print	224
Diskette	111
Remote Link	971
SIMEX	<u>557</u>
Total	1,863

(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.	

G. Status of Special Tasks

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).

- (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.
- (2) NMMSS produced a draft document that lists and discusses tasks and deliverables for an Implementation Plan. A schedule for the deliverables will be completed by the end of September.

H. FoxPro NMMSS Maintenance

- (1) During the month, one software configuration control board meeting was held to act on Software Change Requests (SCRs). During the month, SO-20.3 approved five 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 September 2004

- (1) NMMSS will continue 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 August processing month.
- (1) NAC QA will complete the annual NMMSS audit.
- (2) NMMSS will continue to participate in upgrade status meets hosted by the NMMSS development team.
- (3) NMMSS will host the Office of Assessments while it conducts a survey of NMMSS activities beginning in September.

Data Requests Issued in August 2004

Enclosure 1

#	Organization	Name
1	NRC/HDQ	Dori Votolato
2	NAC/QFA	Garland Proco
3	NRC/HDQ	Larry Harris
4	DOE/FAA	Pauline Douglas

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			14			
CCA	Princeton Plasma Physics Lab			1									
CCB	US DOE, Env. Meas. Laboratory									12			
CZA	Argonne – East			7						5			
CZC	Argonne – West			7									
DAA	Savannah River DOE			11									
FCC	Materials and Chem. Lab			5									
FDD	East TN Tech Park			11									
FXA	Bechtel Jacobs, DOE Portsmouth GDP									7			
FZH	Y-12 Plant, IAEA Area			8									
HYA	Battelle, Pacific NW Laboratory									11			
JAB	Idaho DOE			12			4						
JBF	BNFL			6						1			
JRK	Special Manufacturing, DOD			5									
JXI	INTEC			5			4						
KAS	Nuclear Fuel Services									12			
LAZ	GE Nuclear, Vallecitos									11			
LZB	U Cal, Lawrence Livermore Laboratory				1								
NAB	Nevada Test Site			5									
NAE	Bechtel Nevada			11									
ORK	RFETS									11			
ORK	RFETS, Holding									11			
QZG	Albuquerque, 91C Material			5			8						

MBR /PIL Reporting Schedule

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		3/31/2005
			7/30/2004		5/31/2005
					7/31/2004
					9/30/2004
					7/1/2004
					5/31/2004
					6/1/2004
			4/15/2004	5/12/2004	3/31/2005
					7/31/2004
			7/8/2004	8/23/2004	5/10/2005
			7/23/2004	8/10/2004	5/31/2005
			7/23/2004	8/26/2004	5/31/2005
			6/14/2004	7/2/2004	4/12/2005
			8/23/2004	8/31/2004	7/31/2005
					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	3/31/2005

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	4/16/2005
			8/16/2004	8/24/2004	6/8/2005
					9/25/2004
			7/8/2004	8/31/2004	5/10/2005
					8/31/2004
					7/31/2004
					12/3/2004
			5/24/2004	6/11/2004	3/31/2005
			8/12/2004	8/31/2004	5/31/2005
					7/31/2004
					7/31/2004
			3/15/2004	6/10/2004	1/27/2005
					7/1/2004
			4/26/2004	5/10/2004	3/31/2005
					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	3/30/2005
					12/9/2004
					12/30/2004
					9/15/2004
			8/2/2004	8/18/2004	6/2/2005
			8/2/2004	8/18/2004	6/1/2005
					9/30/2004
					7/31/2004
			8/16/2004	8/24/2004	6/8/2005
			7/30/2004	8/10/2004	6/2/2005
			8/23/2004	8/31/2004	6/23/2005
			5/24/2004	6/28/2004	3/26/2005
					9/30/2004
			8/2/2004	8/31/2004	5/31/2005
					7/28/2004
					9/9/2004
			8/9/2004	8/9/2004	4/7/2005
			7/19/2004	7/26/2004	5/31/2005
			5/3/2004	8/30/2004	3/31/2005
	**Was included w/ ZQM				9/30/2004
			7/30/2004	8/23/2004	6/2/2005
			7/30/2004	8/10/2004	5/30/2005

Monitoring Reconciliation for 2004

RIS	Facility	2004 Important Dates			
		Inventory Date for 2004	Date Received	Date Reconciled	Date Expected for 2004/2005 Inventory
					10/20/2004
					5/31/2004
					7/31/2004
					8/31/2004
					9/30/2004
					7/31/2004
			4/27/2004	5/10/2004	3/31/2005
					7/31/2004
					9/7/2004
					9/7/2004
					9/31/2004
					7/1/2004
			4/12/2004	4/19/2004	9/30/2005
			4/26/2004		3/31/2005
			7/8/2004	8/24/2004	5/10/2005
			5/5/2004	5/11/2004	3/31/2005
			4/21/2004	4/29/2004	3/31/2005
					7/15/2004
					9/1/2004
			7/30/2004	8/23/2004	6/2/2005
			4/29/2004	5/12/2004	3/31/2005
					8/18/2004
					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
					7/31/2004
			6/23/2004	6/28/2004	4/30/2005
					7/17/2004
			6/22/2004		5/22/2005
					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	3/15/2005
			5/10/2004	5/14/2004	4/8/2005
			6/14/2004	7/2/2004	4/14/2005
			8/9/2004	8/24/2004	7/8/2005
					7/31/2004
			8/2/2004	8/10/2004	8/25/2005
					9/30/2004
			5/25/2004	6/28/2004	3/31/2005
			8/23/2004	8/31/2004	7/31/2005
			5/14/2004	6/2/2004	4/12/2005
			5/25/2004	7/8/2004	3/31/2005
					7/31/2004
					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
			6/8/2004		3/31/2005
					9/30/2004
			8/12/2004	8/31/2004	5/31/2005
					7/31/2004
					8/15/2004
			6/1/2004	6/22/2004	3/31/2005
					7/31/2004
					8/13/2004
					9/30/2004
			5/10/2004	5/13/2004	3/31/2005
			4/28/2004		9/30/2004
	**MSR was on the link original receipt date used.				9/30/2004
			4/30/2004	5/11/2004	3/31/2005
			4/13/2004	6/15/2004	2/12/2005
			4/30/2004	5/10/2004	3/31/2005
					7/31/2004
					7/31/2004
			5/3/2004	5/10/2004	3/31/2005
					10/31/2004
			4/28/2003	5/17/2004	3/31/2005
			4/5/2004	5/13/2004	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
			4/29/2004	7/8/2004	3/31/2005
			4/19/2004	7/27/2004	3/31/2005
			4/26/2004	4/29/2004	3/31/2005
			6/14/2004	6/21/2004	3/31/2005
			5/17/2004	5/25/2004	3/31/2005
					9/30/2004
					9/30/2004
					9/30/2004
			4/30/2004	5/10/2004	3/31/2005
			6/1/2004	7/1/2004	3/31/2005
					9/30/2004
			4/19/2004	5/7/2004	3/31/2005
			5/3/2004		3/31/2005
		<i>Will report the same as in the past (twice a year)</i>			
			4/26/2004	4/29/2004	3/31/2005
					10/10/2004
					9/30/2004
					10/1/2004
					7/31/2004
			4/29/2004	6/21/2004	3/31/2005
					7/31/2004
			4/29/2004	5/10/2004	3/31/2005
			4/5/2004	4/19/2004	3/31/2005

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
			4/26/2004	5/13/2004	3/31/2005
			4/12/2004	5/18/2004	3/31/2005
					12/19/2004
			5/3/2004	5/11/2004	3/31/2005
			8/12/2004		7/12/2005
			7/1/2004	7/8/2004	3/31/2005
					9/30/2004
			4/19/2004	5/10/2004	3/31/2005
			4/19/2004	5/10/2004	3/31/2005
			4/12/2004	4/29/2004	3/31/2005
			5/13/2004	6/16/2004	3/31/2005
			4/12/2004	4/19/2004	3/31/2005
					3/31/2004
			8/6/200	8/31/2004	7/2/2005
					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	Re-assigned to SLB	
50036	Create a report that fulfills the requirements in the NMMSS Guidance Document 2002-02	Non-critical	In Test	
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	
50097	Modify edit program to permit addition of a facility's MBR data at different times.	Non-critical	TBD	
50104	Revise program that generates 741s to mark each with the appropriate classification.	Non-critical	TBD	
50105	Although cumulative monthly balances in report IA-OBL-05 are correct when starting with October 1, 2003, cumulative balance calculations beginning with another date are not calculated correctly.	Important	TBD	
50106	Report TJ-6M, is to be revised to provide additional totals for NMMSS internal use.	Non-critical	TBD	

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