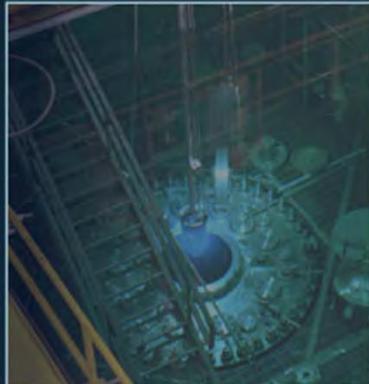


ACCURACY

PERFORMANCE

ACCOUNTABILITY

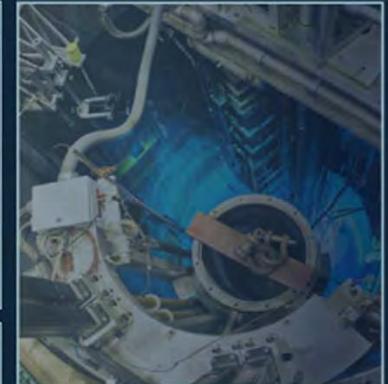


THE NUCLEAR MATERIALS MANAGEMENT AND SAFEGUARDS SYSTEM (NMMSS)

N M M S S  2 0 1 3

USERS ANNUAL TRAINING MEETING

 MAY 20-23, 2013 - ST. LOUIS, MISSOURI 



# MC&A Inspection Summary

THE NUCLEAR MATERIALS MANAGEMENT AND SAFEGUARDS SYSTEM (NMMSS)

N M M S S 2013

USERS ANNUAL TRAINING MEETING

MAY 20-23, 2013 - ST. LOUIS, MISSOURI



Plant: Oyster Creek

Region: I

Inspection Date: 5/18 – 5/19/2010

- Violation: None
- Observations: (minor)
  - Issue Report clarity
  - Missing move sheet signature that we self identified in the FASA
  - SNM in the flammable materials section of the warehouse is not a violation but is not a good practice
- Comments:
  - NRC Inspector preferred not doing this during an outage, but doing it when there are Reactor Services available to move the bridge and perform 10-15 bundle spot check verifications
  - Next inspection scheduled for week of September 9, 2013
- Contact: Rosanne Carmean 630-657-2166  
[rosanne.carmean@exeloncorp.com](mailto:rosanne.carmean@exeloncorp.com)



Plant: Limerick

Region: I

Inspection Date: 6/15 – 6/17/2010

- Violation: None
- Observations: (minor)
  - The inspection was very well coordinated concerning documentation and observation of fuel locations
  - Water in the fuel pool was of good water quality
  - Fuel history sheets were very helpful in tracking fuel
- Comments:
  - The inspector observed fuel locations in the spent fuel pool for a set of fuel bundles
  - Next inspection scheduled for 2013; no date confirmed at this time
- Contact: Rosanne Carmean 630-657-2166  
[rosanne.carmean@exeloncorp.com](mailto:rosanne.carmean@exeloncorp.com)

THE NUCLEAR MATERIALS MANAGEMENT AND SAFEGUARDS SYSTEM (NMMSS)

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NNSA



Plant: LaSalle

Region: III

Inspection Date: 9/20 – 9/23/2010

- Violation: None
- Observations: None
- Comments:
  - Next inspection scheduled for 2013; no date confirmed at this time
- Contact: Rosanne Carmean 630-657-2166  
[rosanne.carmean@exeloncorp.com](mailto:rosanne.carmean@exeloncorp.com)

THE NUCLEAR MATERIALS MANAGEMENT AND SAFEGUARDS SYSTEM (NMMSS)

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USERS ANNUAL TRAINING MEETING

MAY 20-23, 2013 - ST. LOUIS, MISSOURI



Plant: Clinton

Region: III

Inspection Date: 10/12 – 10/19/2010

- Violation: None
- Observations: None
- Comments:
  - Next inspection scheduled for May 2013
- Contact: Rosanne Carmean 630-657-2166  
[rosanne.carmean@exeloncorp.com](mailto:rosanne.carmean@exeloncorp.com)

THE NUCLEAR MATERIALS MANAGEMENT AND SAFEGUARDS SYSTEM (NMMSS)

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USERS ANNUAL TRAINING MEETING

MAY 20-23, 2013 - ST. LOUIS, MISSOURI



Plant: Peach Bottom

Region: I

Inspection Date: 11/16 – 11/18/2010

- Violation: None
- Observations: (Issue Reports were generated for these observations)
  - The NRC inspector noted two housekeeping examples where SNM in the warehouse was not stored in an appropriate manner. The inspector also identified a posted SNM placard in the warehouse which did not note Reactor Engineering to be contacted about questions or information concerning the SNM
  - The NRC noted the NRC inspection procedure being used was new and requested any feedback for future inspection improvement
  - The NRC inspector specifically recognized Special Nuclear Material Custodian for his inspection support and assistance
- Comments:
  - Next inspection week of May 6, 2013
- Contact: Rosanne Carmean 630-657-2166  
[rosanne.carmean@exeloncorp.com](mailto:rosanne.carmean@exeloncorp.com)

THE NUCLEAR MATERIALS MANAGEMENT AND SAFEGUARDS SYSTEM (NMMSS)

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MAY 20-23, 2013 - ST. LOUIS, MISSOURI



Plant: Byron

Region: III

Inspection Date: 12/20 – 12/22/2010

- Violation #1: Licensee identified violation of very low significance (Non-cited Violation, NCV)
  - Byron failed to establish and follow MC&A procedure and conduct adequate physical inventories of all SNM in its possession
  - Specifically, the dosimeter seed material in the reactor vessel specimens, which contained SNM after irradiation, were not controlled and accounted for as SNM and piece-counted during annual physical inventories
  - Byron corrected the deficiency in September 2010
- NRC Identified Minor Violation (Undocumented)
  - Annual Inventory Error
  - Record keeping issue
- Observations: None
- Comments:
  - Next inspection scheduled for 2013; no date confirmed at this time
- Contact: Rosanne Carmean 630-657-2166 [rosanne.carmean@exeloncorp.com](mailto:rosanne.carmean@exeloncorp.com)

THE NUCLEAR MATERIALS MANAGEMENT AND SAFEGUARDS SYSTEM (NMMSS)

NMMSS 2013

USERS ANNUAL TRAINING MEETING

MAY 20-23, 2013 - ST. LOUIS, MISSOURI



NNSA



Plant: Peach Bottom

Region: I

Inspection Date: 5/6 – 5/9/2013

- Violations: none
- Observations / Comments:
  - SNM items not segregated from non-SNM items in Warehouse and SFP
  - Signs identifying SNM stored in Warehouse could be improved
  - Procedure guidance doesn't adequately address potential of aggregation of non-fuel SNM exceeding reportability threshold
- Contact: Rosanne Carmean 630-657-2166  
[rosanne.carmean@exeloncorp.com](mailto:rosanne.carmean@exeloncorp.com)

THE NUCLEAR MATERIALS MANAGEMENT AND SAFEGUARDS SYSTEM (NMMSS)

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USERS ANNUAL TRAINING MEETING

MAY 20-23, 2013 - ST. LOUIS, MISSOURI



Plant: TMI

Region: I

Inspection Date: 1/11 – 1/12/2011

- Violation #1: Licensee identified green Non-cited Violation
  - 6 radioactive sources were being controlled under the Rad Pro procedures but should have also been controlled under the SNM procedures because they contained small amounts of Pu
  - These were in a drum of sources ready for disposal from TMI-2 cleanup but under TMI-1's control
  - Were not being tracked under SNM program
- Observations:
  - NRC Inspector reviewed the fuel rod transfer logs from T1R18
  - It was noted that in some instances, neither the Y nor the N had been circled in the column to record whether the fuel rod was seated in its destination location. For some log entries, neither the Y nor the N was circled. This does not meet the expectations for procedure usage at TMI. It also creates a potential ambiguity as to the status of the fuel rod - full down or not.
- Comments: None
- Contact: Rosanne Carmean 630-657-2166 [rosanne.carmean@exeloncorp.com](mailto:rosanne.carmean@exeloncorp.com)

THE NUCLEAR MATERIALS MANAGEMENT AND SAFEGUARDS SYSTEM (NMMSS)

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USERS ANNUAL TRAINING MEETING

MAY 20-23, 2013 - ST. LOUIS, MISSOURI



Plant: Dresden

Region: III

Inspection Date: 06/13 – 06/17/11

- Violation: None
- Observations:
  - The NRC noted that the program has made some great improvements since 2007-2008
  - Program owner was very knowledgeable of the program
  - Program makes good use of the peer calls to ensure consistency within the fleet
- Comments: None
- Contact: Rosanne Carmean 630-657-2166  
[rosanne.carmean@exeloncorp.com](mailto:rosanne.carmean@exeloncorp.com)



Plant: Braidwood

Region: III

Inspection Date: 11/9/2012

- Violation #1: Licensee identified violation of very low significance (Non-cited Violation, NCV)
  - Same issue as Byron and Zion; identified at Braidwood in August of 2010
  - Failure in the past to treat coupons that were inserted in the reactor vessel as part of monitoring the stresses the reactor vessel receives, which were not treated as special nuclear material and were not entered into the MC&A program
- Observations: The Inspector noted a good use of CAP in documenting the low level issues associated with reactor engineering items
- Comments: None
- Contact: Rosanne Carmean 630-657-2166  
[rosanne.carmean@exeloncorp.com](mailto:rosanne.carmean@exeloncorp.com)



Plant: Zion

Region: III

Inspection Date: 11/9/2012

- Violation #1: NCV
  - Failure to adequately account for dosimeter seed material in the reactor vessel specimen capsules, which contained SNM after irradiation
- Violation #2: NOV
  - Failure to keep adequate records of all SNM in the licensee's possession and failure to maintain and follow procedures sufficient to account for all SNM. Specifically, the licensee failed to keep complete accounting and inventory records for 43 incore detectors
- Observations: None
- Comments: None
- Contact: Rosanne Carmean 630-657-2166  
[rosanne.carmean@exeloncorp.com](mailto:rosanne.carmean@exeloncorp.com)

THE NUCLEAR MATERIALS MANAGEMENT AND SAFEGUARDS SYSTEM (NMMSS)

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USERS ANNUAL TRAINING MEETING

MAY 20-23, 2013 - ST. LOUIS, MISSOURI



Plant: Quad Cities

Region: III

Inspection Date: 12/18/2012

- Violation: None
- Observations:
  - No issues of significance were identified
  - The MC&A program at Quad Cities is considered effective
- Comments: None
- Contact: Rosanne Carmean 630-657-2166  
[rosanne.carmean@exeloncorp.com](mailto:rosanne.carmean@exeloncorp.com)

THE NUCLEAR MATERIALS MANAGEMENT AND SAFEGUARDS SYSTEM (NMMSS)

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USERS ANNUAL TRAINING MEETING

MAY 20-23, 2013 - ST. LOUIS, MISSOURI



Plant: Fermi 2

Region: 3

Inspection Date: 11/5-9/2012

- Violation #1: Failure to Adequately Install Tamper Sealing Devices on Two Containers Containing Local Power Range Monitors (LPRMs)
  - Significance Level: Green Non-cited – Cornerstone: Security
  - Cross Cutting Aspect: H.2.c, Human Performance



Plant: Fermi 2

Region: 3

Inspection Date: 11/5-9/2012

## Observations / Comments:

- The LPRM Box is approximately 35 feet long with 6 lid sections. Four of the lid sections had tamper seals installed. Two lid sections did not. It was believed that since the lid sections overlapped, the un-sealed sections would not be able to be removed without disturbing the seals on the other sections. That proved to be incorrect.
- Procedure guidance was not adequate to ensure that sufficient tamper-seals were installed.

THE NUCLEAR MATERIALS MANAGEMENT AND SAFEGUARDS SYSTEM (NMMSS)

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Plant: Fermi 2

Region: 3

Inspection Date: 11/5-9/2012

- Inspection occurred 2 years into the 3-year interval and DTE was given 1-month notice of the inspection.
- Contact: (e.g., Matt Kirkland (734) 586-1852  
kirklandm@dteenergy.com)

THE NUCLEAR MATERIALS MANAGEMENT AND SAFEGUARDS SYSTEM (NMMSS)

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USERS ANNUAL TRAINING MEETING

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Plant: Hope Creek

Region: 1

Inspection Date: 5/29-5/31

- Will send out an update once the inspection happens
- Contact: Michelle Baca, 856.339.1049,  
michelle.baca@pseg.com

THE NUCLEAR MATERIALS MANAGEMENT AND SAFEGUARDS SYSTEM (NMMSS)

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USERS ANNUAL TRAINING MEETING

✻ MAY 20-23, 2013 - ST. LOUIS, MISSOURI ✻



Plant: Salem U1 & U2

Region: 1

Inspection Date: TBD (1Q 2014)

- Contact: Michelle Baca, 856.339.1049,  
michelle.baca@pseg.com

THE NUCLEAR MATERIALS MANAGEMENT AND SAFEGUARDS SYSTEM (NMMSS)

N M M S S 2013

USERS ANNUAL TRAINING MEETING

MAY 20-23, 2013 - ST. LOUIS, MISSOURI



Plant: Wolf Creek

Region: IV

Inspection Date: Feb 4-7, 2013

- Violation #1: Performed inventory of non-installed incore detectors in containment every refueling vice every 12 months.
  - Reference ANSI N15.8-2009, Section 8.3.5
  - Significance Level: Green Noncited
  - Cross Cutting Aspect: H.1.b, Conservative assumptions in decision making
- Observations / Comments:
  - NRC Inspector questioned the absence of overall guidance on the tamper indication seal program in the Quality program
- Contact: Paul Adam (620)364-8831x4761 paadam@wcnoc.com