

Accuracy Performance Accountability

The Nuclear Materials Management and Safeguards System (NMMSS)

**NMMSS**

**2014**

Annual Users Training Meeting

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# Analysis and Feedback on NMMSS Performance

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## NMMSS Performance Metrics

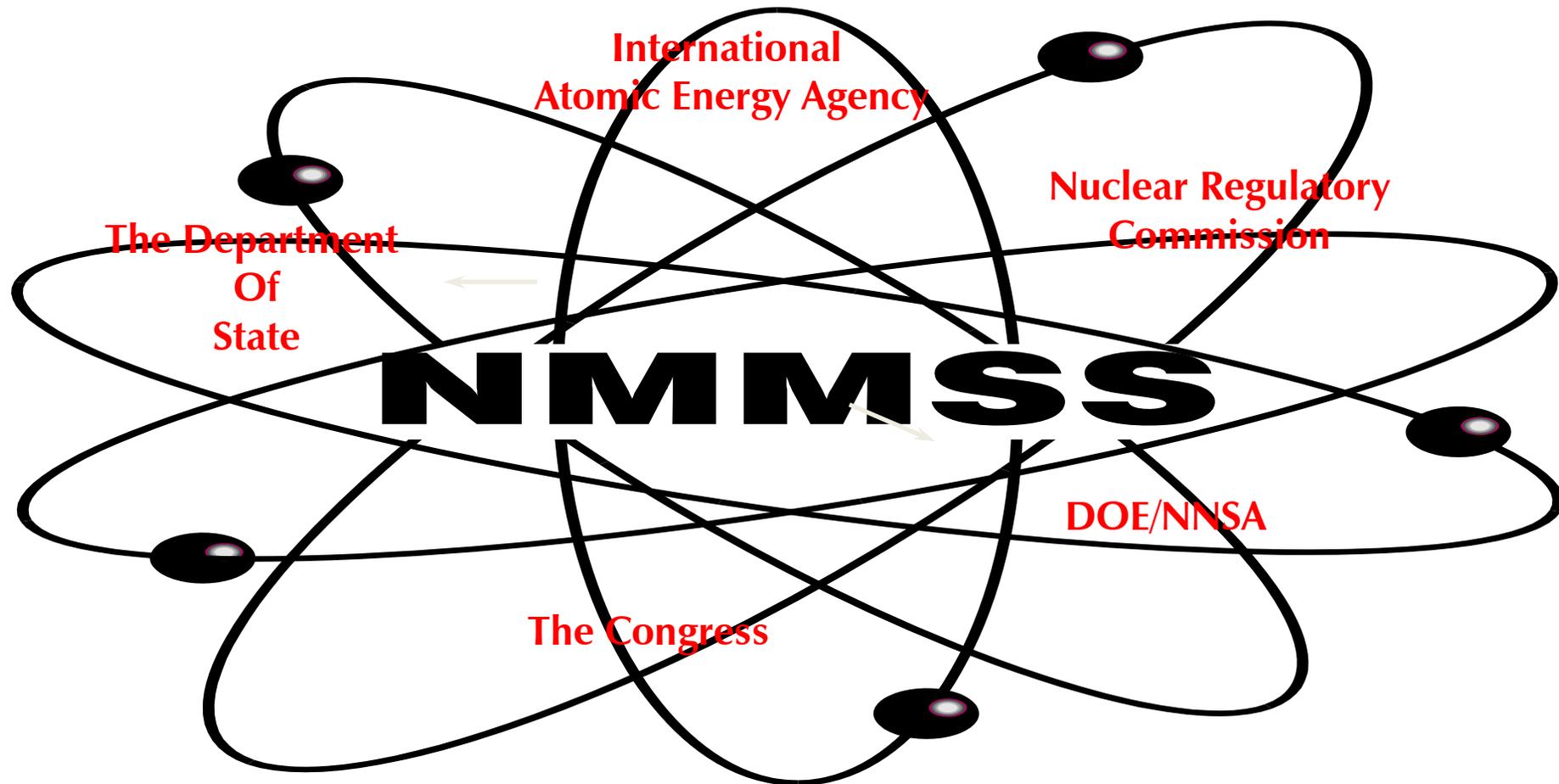
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- Processing Inventory Records
- Processing Transaction Records
- Processing Runs
- Monthly Closures
- NRC Licensee Reconciliations

## How Big is the User Community

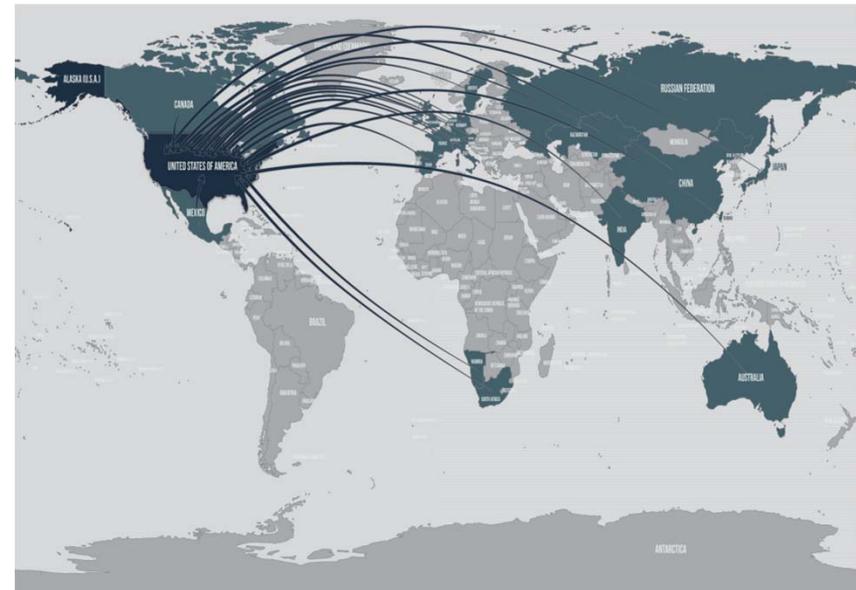
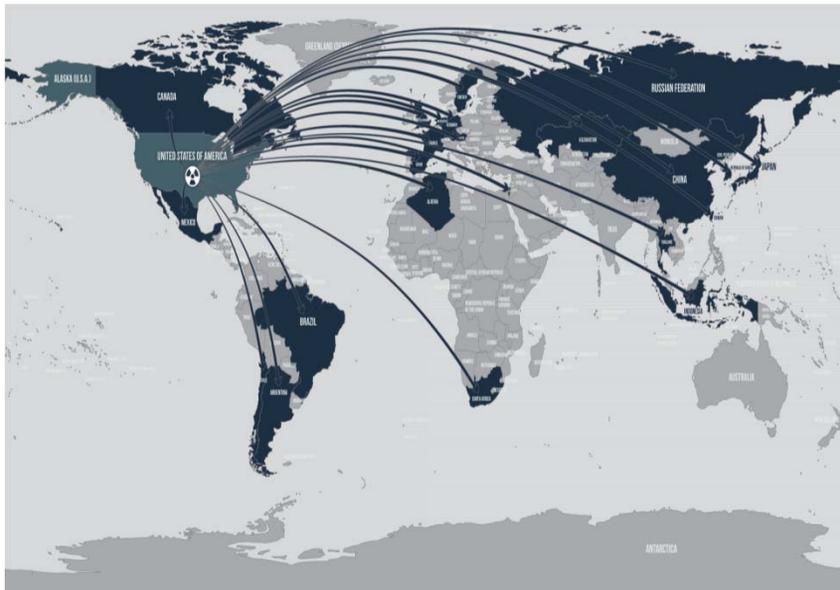
- DOE Facilities and Organizations
  - 74 Primary RIS Codes (0 new / 0 deactivated)
- NRC Facilities and Organizations
  - 759 Primary RIS Codes (3 new / 1 deactivated)
- International Organizations
  - 1541 Foreign RIS Codes (4 new / 0 deactivated)

## NMMSS Stakeholders



# International Transaction Activity

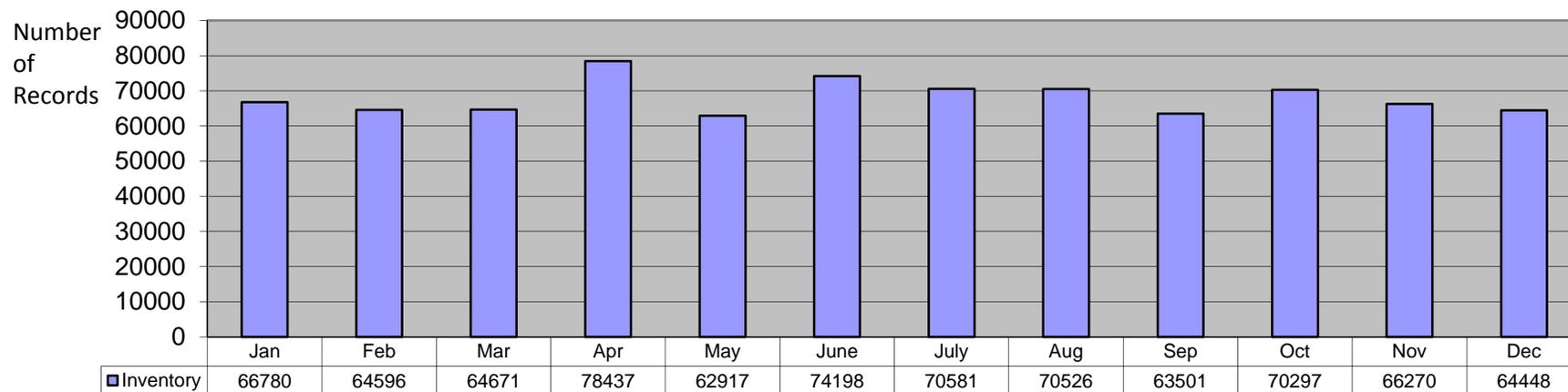
- Exports to 23 countries
- Imports from 19 countries



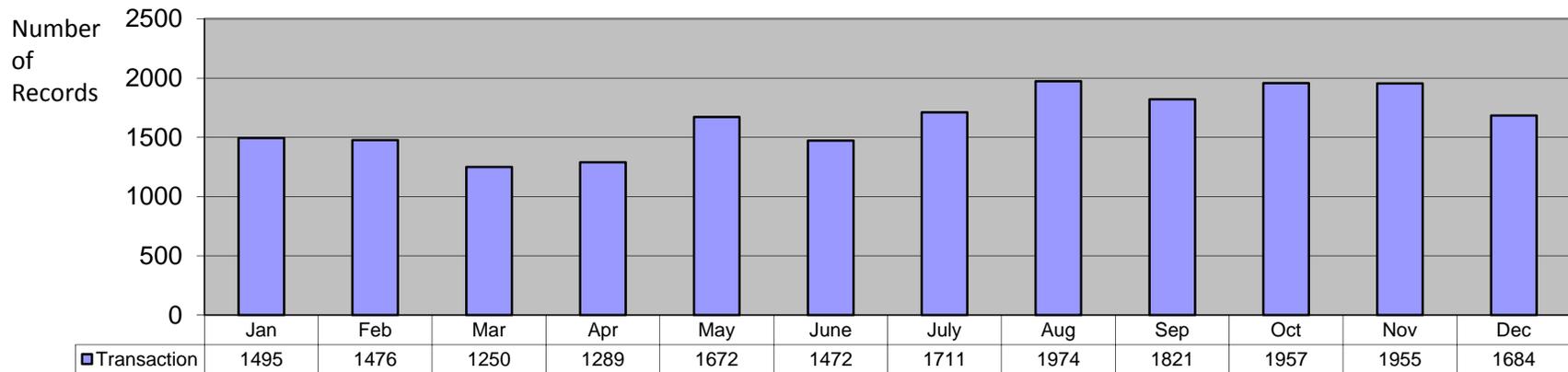
## Inventory / MBR Activity

- NMMSS received and processed 817,222 inventory records in 2013
  - Inventory file submissions are processed daily for
    - Monthly
    - Quarterly
    - Annual
  - Inventory is reconciled with the facility based on facility status and requirements

## Inventory Processing January 2013 – December 2013

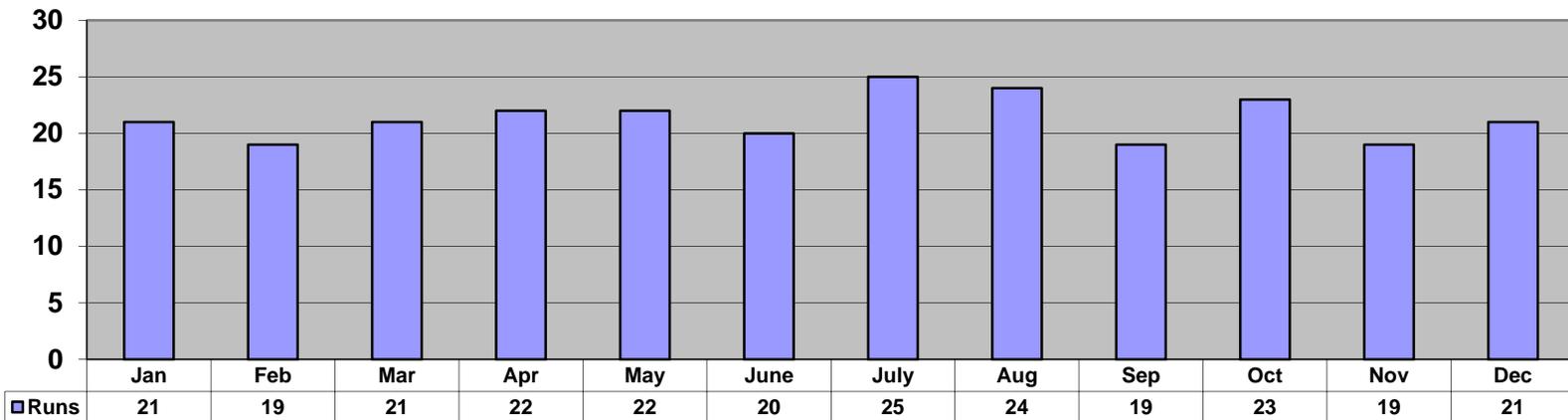


# Transaction Processing January 2013 – December 2013



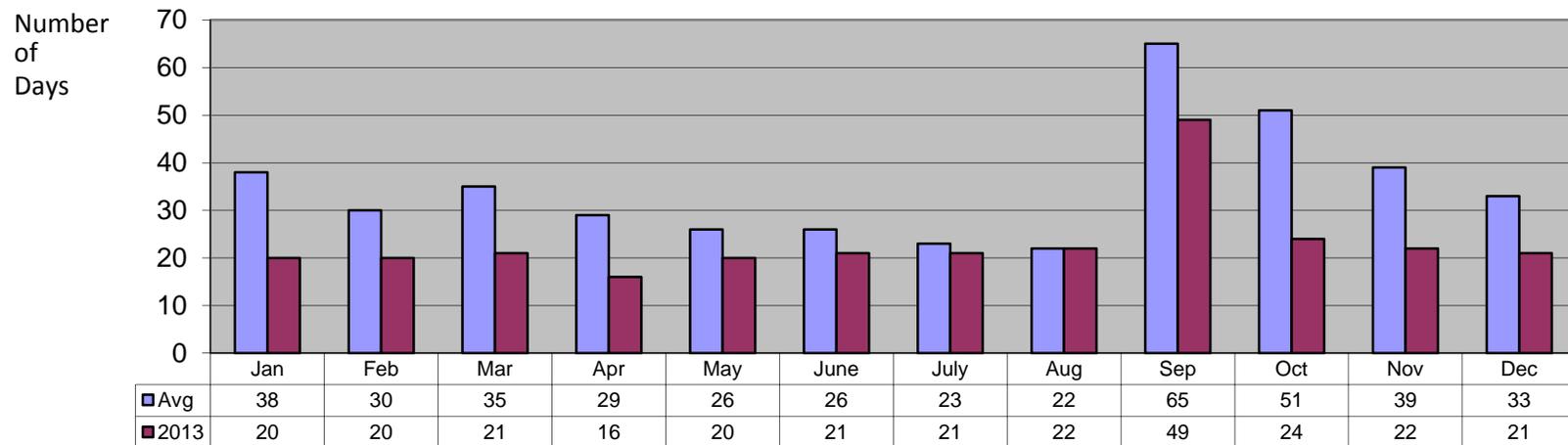
## Daily Processing Runs January 2013 – December 2013

Number  
of  
Processing  
Runs



■ Runs

## Monthly Closings January 2013 – December 2013



## Reconciliations (DOE)

### ■ Reconciliation

#### – DOE Reconciliation September 2013

- 49 RIS Codes required to reconcile with NMMSS
- 40 were received by 10/15/2013
- 40 were reconciled within 2 days of receipt
  - (29% improvement over 2012 results)
- Closed September on 11/19/2013, 2 days ahead of last year and 16 days ahead of average

## Reconciliations (NRC)

### ■ Reconciliation

#### – NRC Reconciliations

- NMMSS received 313 Material Status Reports (MSRs) for 2013
  - NMMSS reconciled 305 MSRs in 2013
    - » Average is 10 days from receipt to closure
  - 2013 Reconciliation statistics
    - » 65 reconciled in 0 days
    - » 215 reconciled between 1 and 29 days
    - » 17 reconciled between 30 and 59 days
    - » 8 reconciled 60 + days
    - » 8 remain unreconciled

\* NUREG BR-0007, 30 day requirement

# Current NRC Reconciliation Status

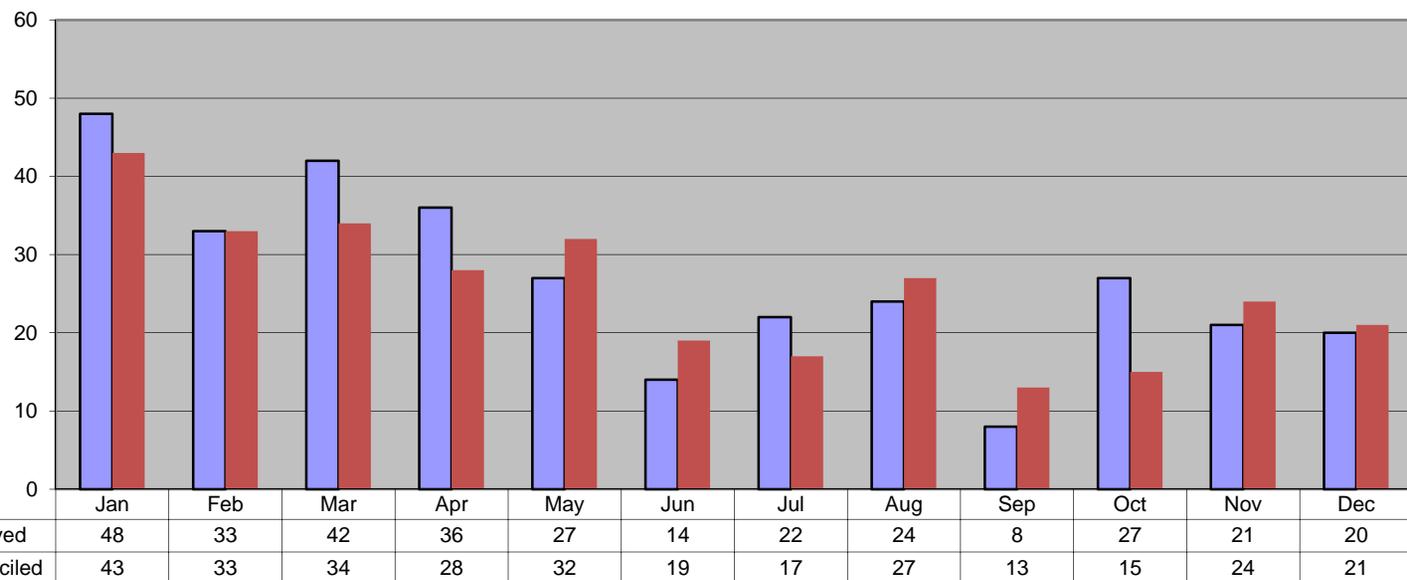
- NRC Reconciliation Backlog
  - As of 4/30/2014 there are currently
    - 22 open reconciliations 0 to 30 days
    - 4 open reconciliations 31 to 90 days
    - 4 open reconciliations 91 days to 1 year
    - 8 open reconciliations 1 year +

\* NUREG BR-0007, 30 day requirement

# NRC Reconciliations

## January 2013 – December 2013

Material  
 Status  
 Reports

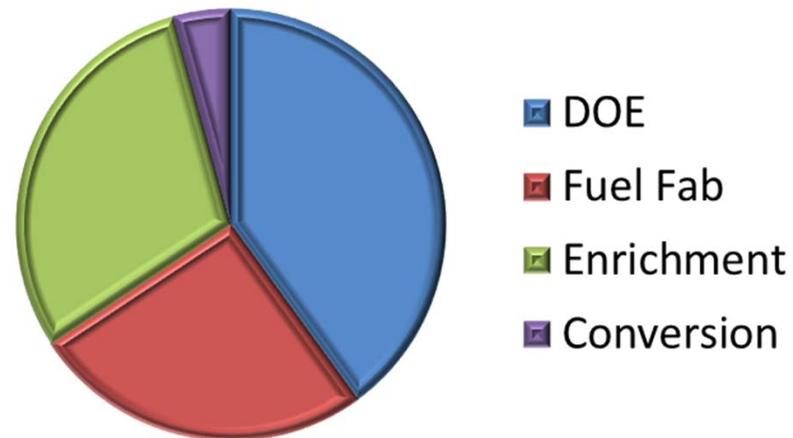


## Transaction Activity

- NMMSS received and processed 19,758 transaction records in 2013.
  - The overall error rate is 1.25% for the entire community
    - .03% for DOE
    - 1.6% for NRC

## Top 15 Transaction Reporters

- Top 15 Reporting facilities
  - 70% of the transaction volume
    - 8 DOE facilities (28%)
    - 4 Fuel fabrication facilities (18%)
    - 2 Enrichment facilities (21%)
    - 1 Conversion facility (3%)
  - Average error rate of .22%
  - All of the facilities report electronically

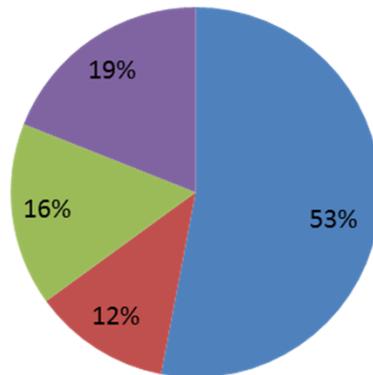


## Error Rate Comparison

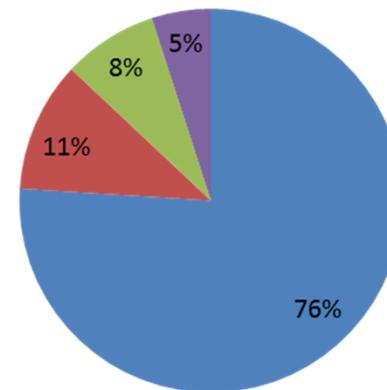
### – Overall Facilities Reporting Activity

- 290 facilities reported transactions in 2013
- 76% of facilities had 0% error rate
- 11% of facilities had less than 1% but greater than 0%
- 8% of facilities had less than 5% but at least 1%
- 5% of facilities had 5% or greater

2012 Error Rates



2013 Error Rates



## NMMSS Performance

- Processing Records
  - 95+% submitted Electronically
  - Error Free transaction submittals up by 23%
- Processing Runs
  - NMMSS performs at least on processing run per day
- Monthly Closures
  - Met or beat average all 12 months of 2013
  - Facilities are proactive in resolving errors
- NRC Reconciliations
  - Average reconciliation time 10 day

\* NUREG BR-0007, 30 day requirement



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- Questions?
- Comments?
- Concerns?