

The Nuclear Materials Management and Safeguards System (NMMSS)



2015 Annual
Users
Training
Meeting

Accuracy

Accountability

Performance



May 11-14, 2015

Las Vegas, NV

NMMSS Assistance to Industry Related to Foreign Obligations

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NMMSS



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Introduction



Where NMMSS
fits into the
Foreign
Obligation story?

State of NMMSS
Obligation
Accounting Prior
to Enhancement

123 Agreement
Communications
& NMMSS

Transit Matching
of
Communications
with NMMSS

Benefits of
NMMSS
Obligation
Accounting
Enhancement



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Where NMMSS fits into the Obligations story?



Nuclear Materials Management and Safeguards System (NMMSS)

US Government system for tracking and reporting nuclear materials

- Ensure compliance with domestic requirements
- Ensure compliance with international treaties such as the IAEA and Foreign Obligations per 123 Agreements for Cooperation

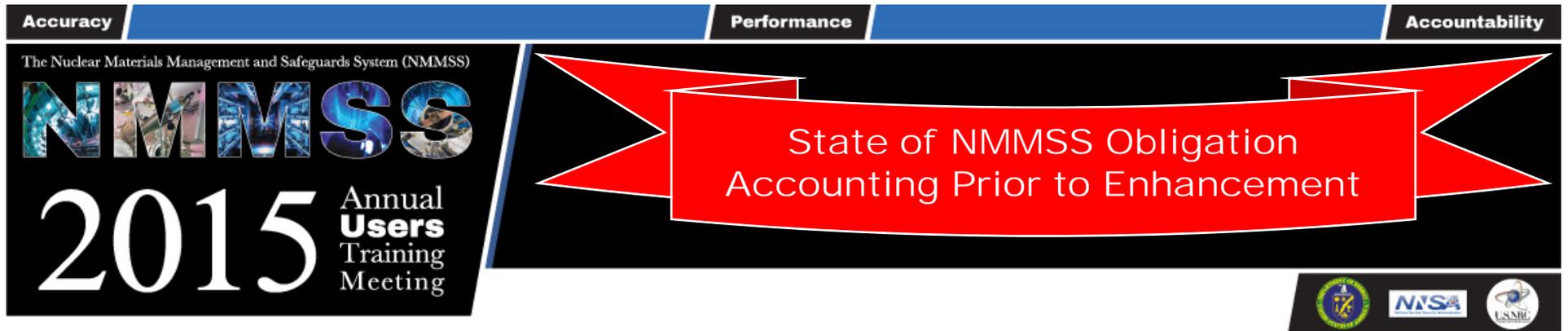
Key

- Import:
- Export:
- Domestic Activity:
- Report to NMMSS:
- US Facility:



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State of NMMSS Obligation Accounting Prior to Enhancement

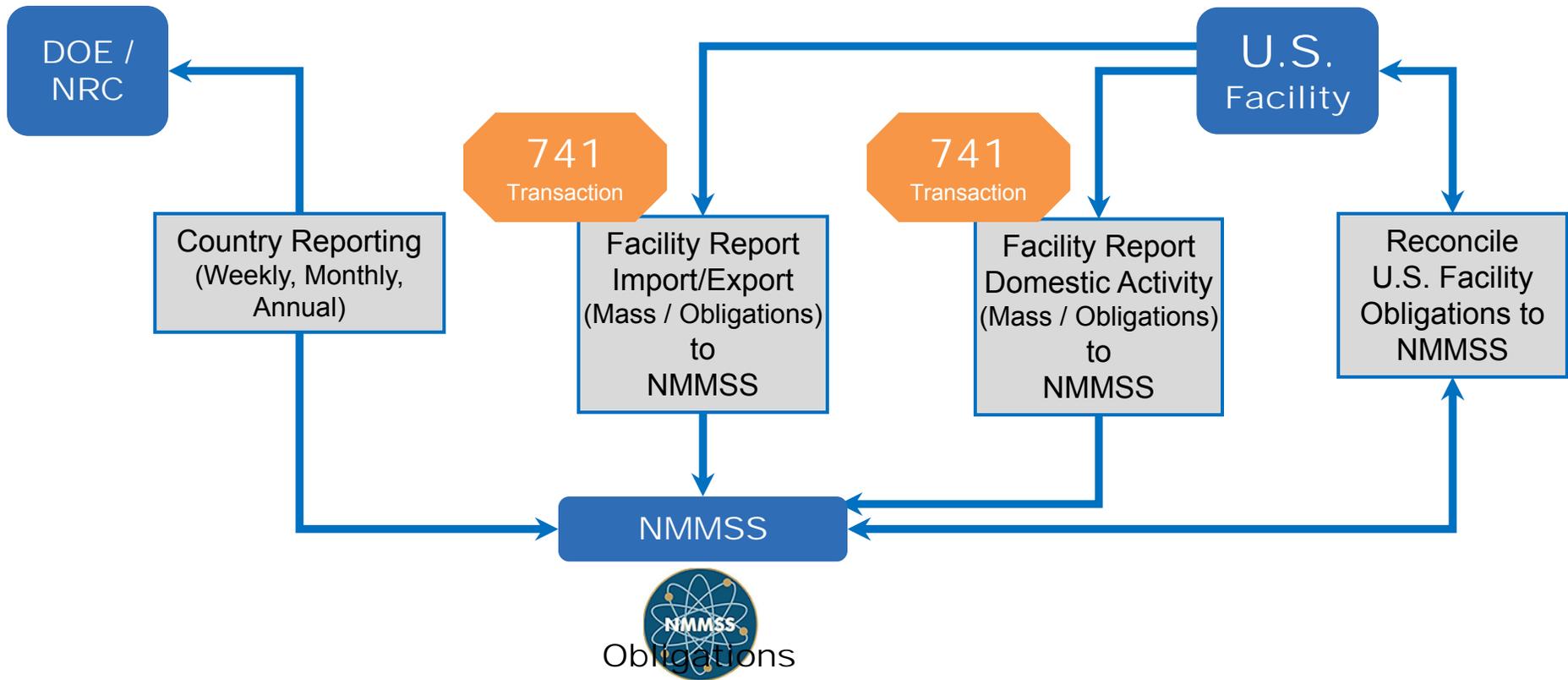


Core Functions of NMMSS Obligations Accounting

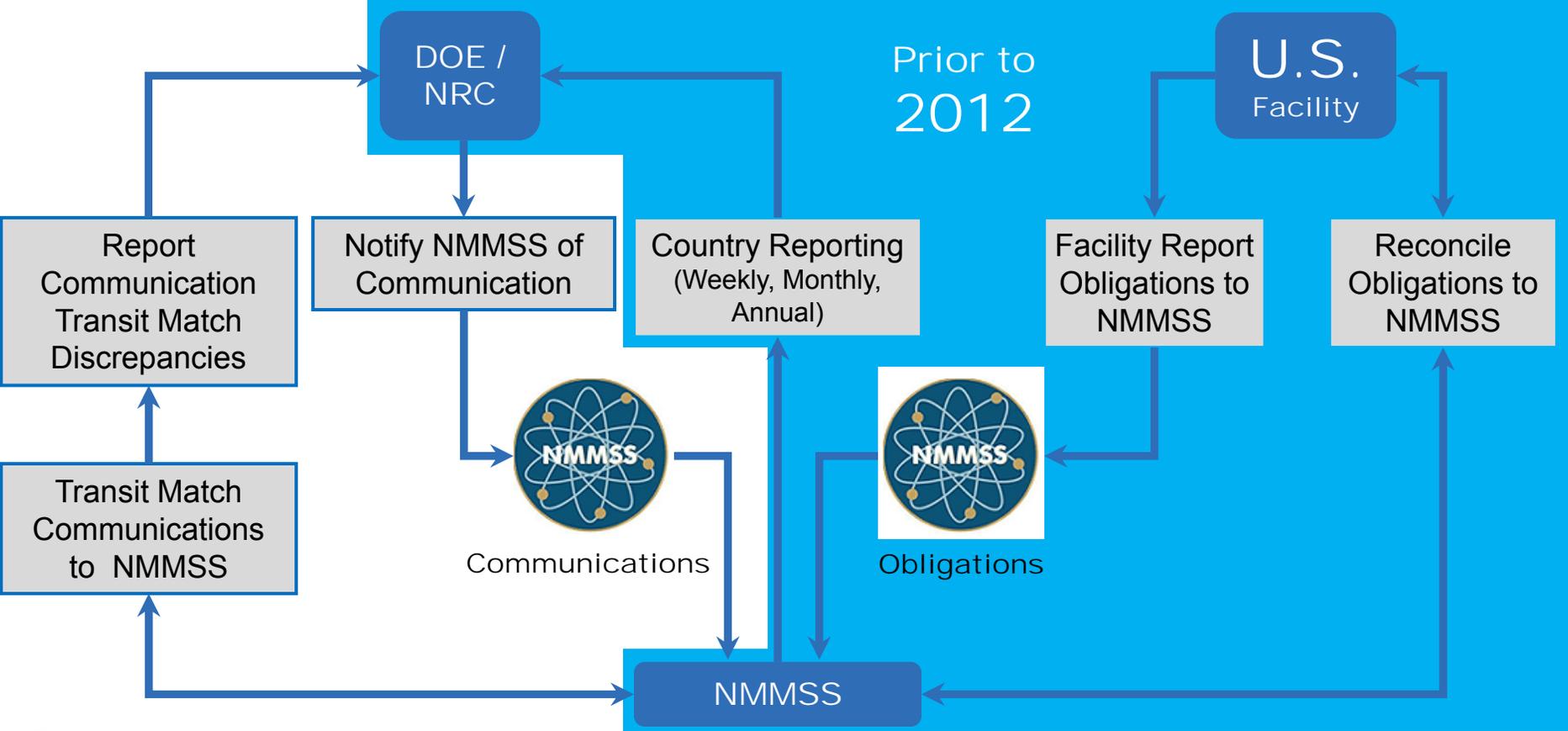
US facilities account for obligated material as it flows through the fuel cycle

- Accurate reporting of obligations to imports/exports
- Accurate reporting of obligations to domestic activity (shipments, receipts, exchanges)
- Proportional assignment of obligations to material inventories
- Equivalent assignment of obligations to production and losses with US facilities

NMMSS Obligations Process (prior to 2012)



Enhanced NMMSS Obligations/Communications Process

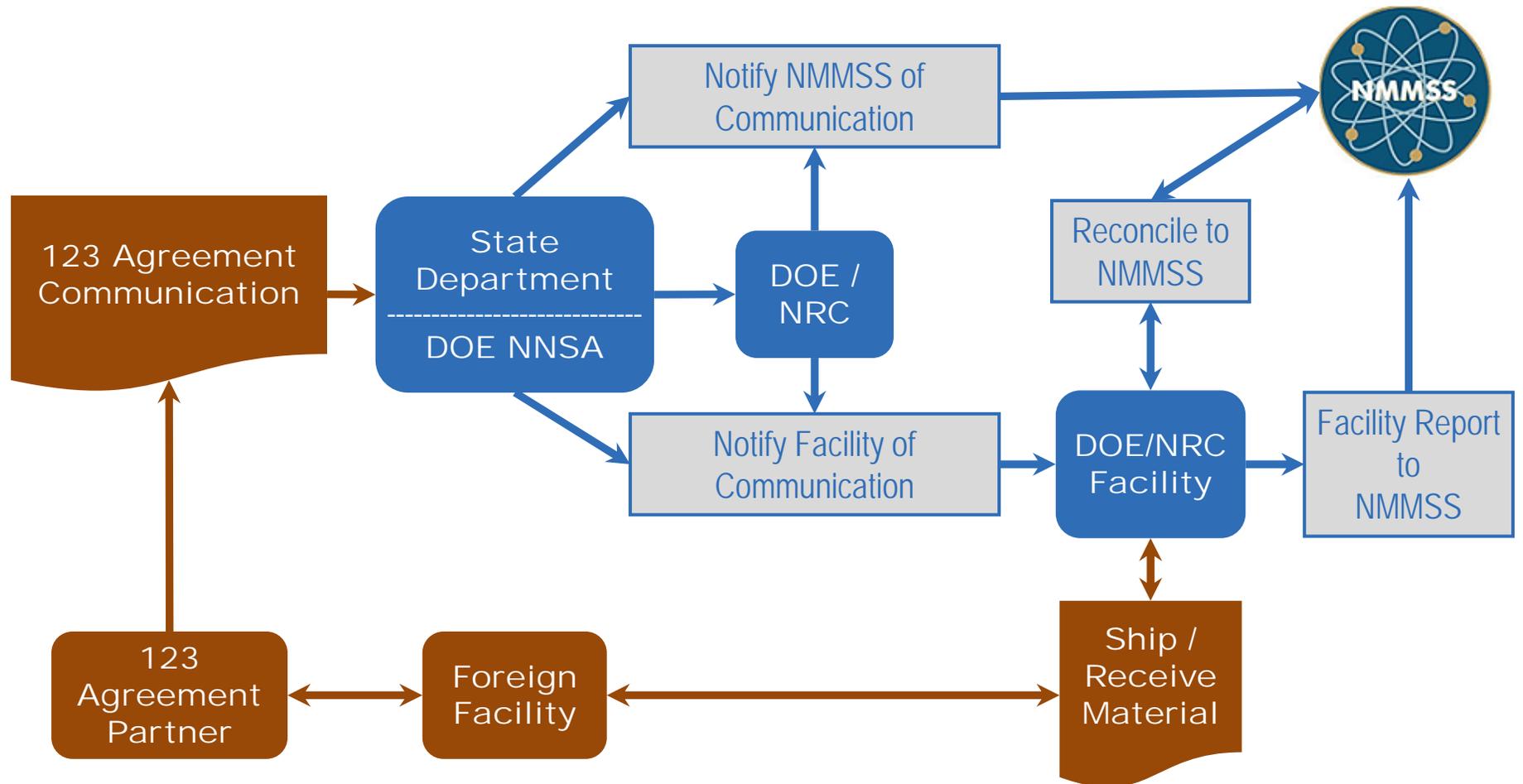


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123 Agreement Communications & NMMSS



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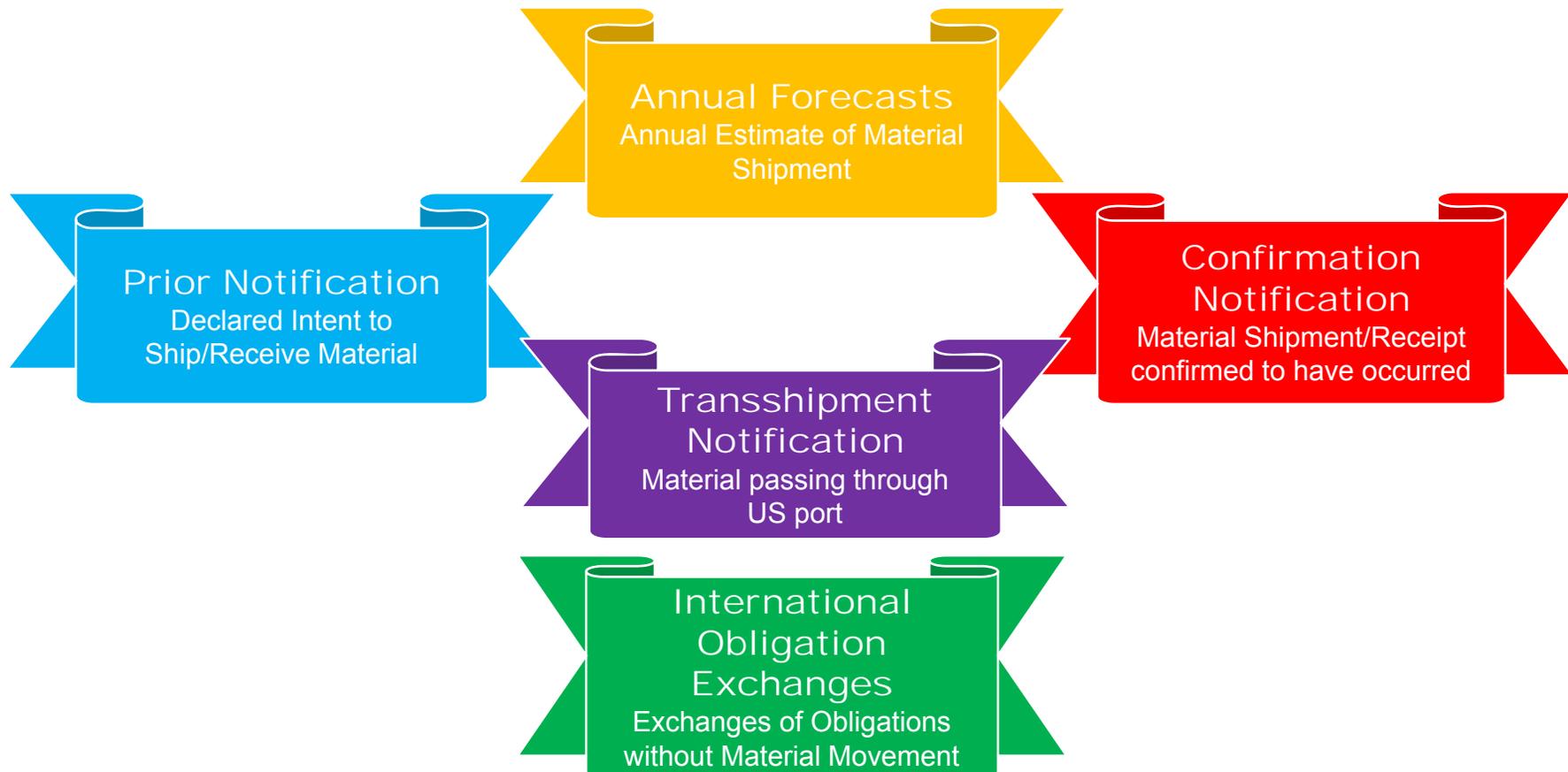


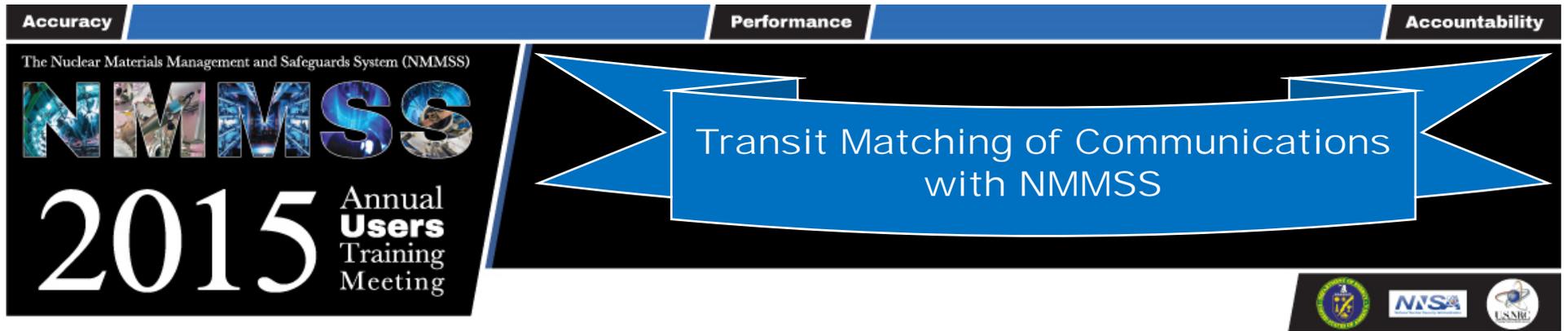
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123 Agreement Communications & NMMSS



Types of Communications





Communication Transit Matching

- Pair foreign government notifications to NMMSS transaction (741) data
- Perform notification follow-up with facilities as necessary based on transit matching activity
- Quarterly transit matching report produced

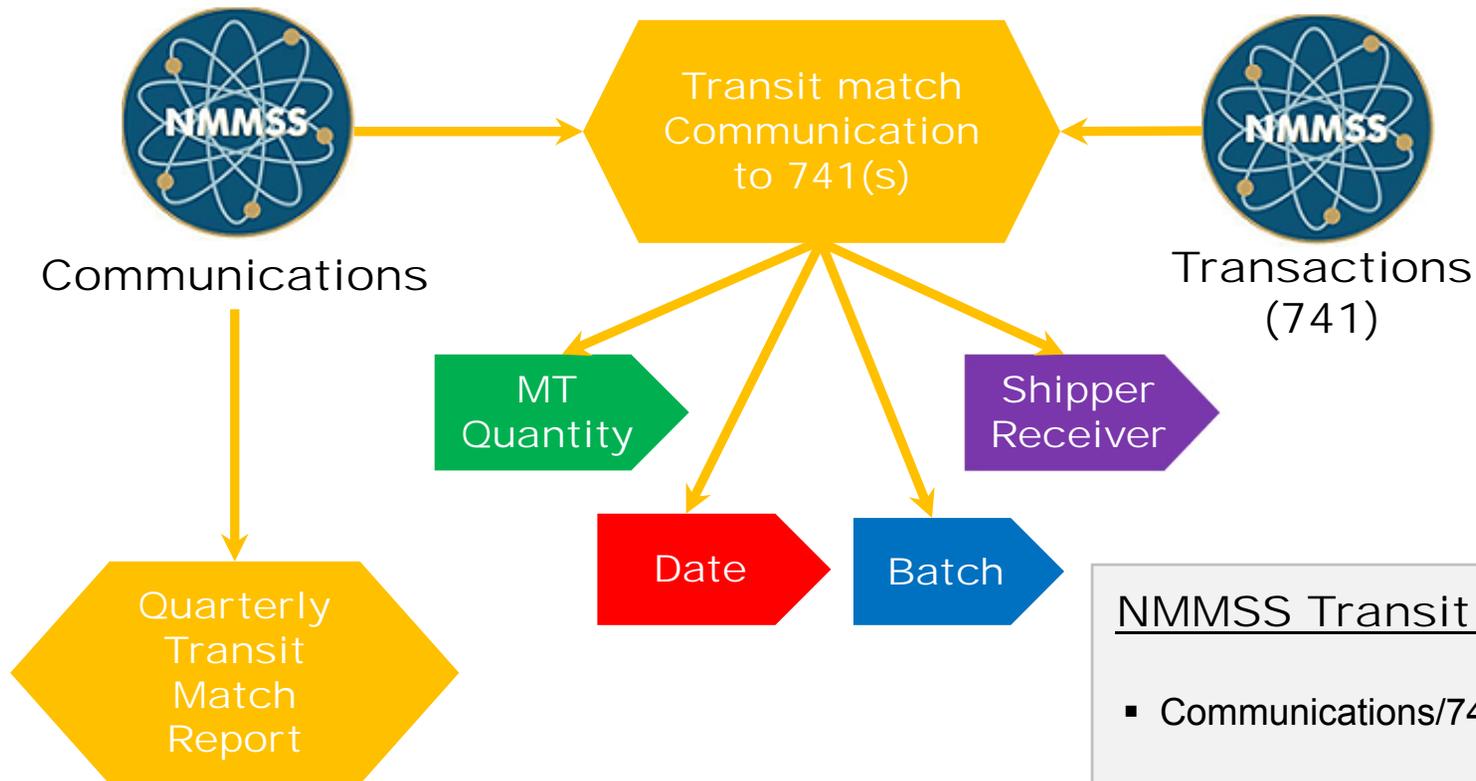
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Transit Matching of Communications with NMMSS



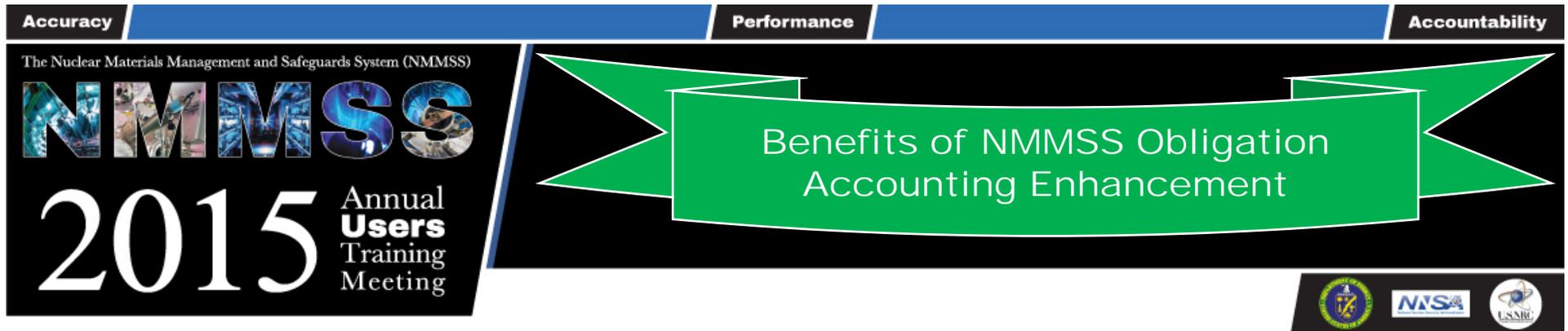
NMMSS Transit Matching Tools

- Communications/741 Interface
- Automated Transit Matching
- 741 Listing Reports



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The banner features the NMMSS logo with a blue and white color scheme, the year '2015' in large white font, and the text 'Annual Users Training Meeting'. A green ribbon graphic contains the text 'Benefits of NMMSS Obligation Accounting Enhancement'. Logos for the Department of Energy, NNSA, and USNIB are visible in the bottom right corner.

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Benefits of NMMSS Obligation Accounting Enhancement

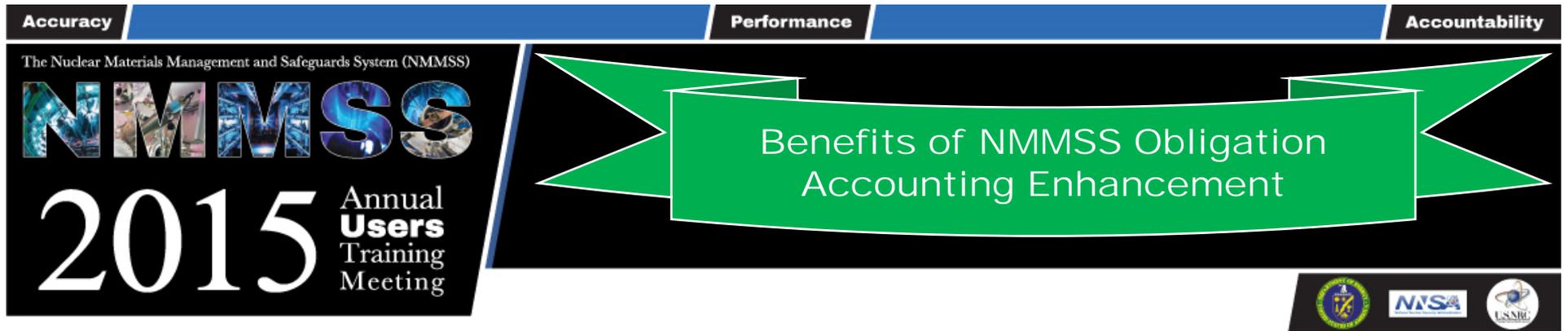
U.S. DEPARTMENT OF ENERGY NNSA USNIB

- Assimilate 123 Agreement partner communications into NMMSS to validate US assignment of foreign obligations to material through import/export and as it flows through the fuel cycle
- NMMSS applied universal approach to recording various 123 Agreement communications
- Maintain transfer and retransfer information contained in foreign government notifications or other diplomatic documents from U.S. Agreement partners
- Investigate inquiries from 123 Agreement partners concerning foreign obligated nuclear material



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Benefits of NMMSS Obligation Accounting Enhancement



The banner features a dark background with a blue header containing the words 'Accuracy', 'Performance', and 'Accountability'. On the left, it displays the NMMSS logo and '2015 Annual Users Training Meeting'. A large green ribbon in the center contains the text 'Benefits of NMMSS Obligation Accounting Enhancement'. At the bottom right, there are logos for the National Nuclear Security Administration (NNSA) and the United States Nuclear Information Bureau (USNIB).

- 123 Agreement communications provide verification for IAEA import/export transit matching
- NMMSS transit match 123 Agreement communications with US facility reported obligations
- Transit matched communications used to verify US annual obligation reporting with 123 Agreements partners
- 123 Agreement communication transit matching helps ensure US standards of high quality and accuracy



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Questions

