National Materials Program Pilot Projects

Organization of Agreement States

2003 OAS Annual Meeting

Status of National Materials Program

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Major Milestones
Completed

- Selected Pilot Project Chairs (Oct 2002)
- Developed Implementation Plan (Jan 2003)
- Established Working Groups (Feb 2003)
- Finalized Charter for each Pilot (Mar 2003)
- Briefed at CRCPD meeting (May 2003)
- Completed Working Group Work Product Plans (Aug 2003)
- Updated NMP web site (Aug 2003)

http://www.hsrd.ornl.gov/nrc/materials.htm

Major Milestones

Upcoming

- Public meeting on NMP (Mar 2004)
- Submit Pilot Projects Progress Report to the Commission (Mar 2004)
- Complete Pilot Projects (Apr 2004)
- Brief at CRCPD meeting (May 2004)
- Brief at OAS meeting (Oct 2004)
- Submit Final Report to the Commission (Nov 2004)

National Materials Program
Pilot Project One:

Establishment of Priorities

By: Shawn Rochelle Smith
2003 OAS Meeting
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Charter

Objectives

- Develop a process to identify and prioritize regulatory items needed for the development of materials policy, rulemaking, and guidance products
- Ensure that Agreement State regulatory needs are known in the establishment of national priorities
- Demonstrate shared decision-making between NRC and Agreement States

Work Products

- A framework and process that NRC and the Agreement States could use to prioritize regulatory needs in a National Materials Program under the Alliance Option
- A national priority list agreed upon by both NRC and Agreement States

Completed Activities

- Obtained input from NRC and States on a list of regulatory needs
- Analyzed/consolidated list of regulatory needs
- Identified needs currently being addressed
- Developed/Distributed prioritization package to Agreement States and NRC
- Developed strategy for analyzing the results of prioritization package
- Developed draft outline for framework

Path Forward

- Analyze prioritization worksheets
- Develop National Priorities List
- Distribute National Priorities List to Agreement States and NRC for comment and concurrence
- Finalize and Submit pilot project report, work products, lessons learned report, and analysis of success measures

Working Group

- Shawn Rochelle Smith, NRC **Co-Chair**
- Ruth McBurney, Texas **Co-Chair**
- James Lynch, NRC
- Jayne Halvorsen, NRC
- Anita Turner, NRC
- Kimberly Ferrell, NRC
- Robert Walker, Massachusetts

Questions?

Comments?

National Materials Program Pilot Project 2:

A National Industrial Radiographer Certification Program

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CRCPD’s G-34 Committee on Industrial Radiography selected to serve as the lead group in developing the concept for the oversight of all activities associated with a national industrial radiographer certification program

What we've done:

- created flow charts that define the application, review and program evaluation process
- created documents that formalize the review criteria
- selected the state of Louisiana as our test case

What we're doing now:

- waiting for Louisiana to prepare and submit their "application"
- reviewing comments on our draft criteria and process

What’s left to do:

- **review the application submitted by Louisiana**
- **complete the draft pilot project reports and products**

Working Group Members

- Jan Endahl,Texas (Chair)
- Lauren Palmer, Georgia
- David Turberville, Alabama
- Bruce Carrico, NRC
- Jim Myers, NRC
- Donny Dicharry, NDTMA/ASNT

NMP PILOT 3: OPERATING EXPERIENCE EVALUATION

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USE OF OPERATING EXPERIENCE INFORMATION

- Domestic and foreign event data
- Inspections, special studies, and generic reviews
- Industry-wide analyses
- Risk insights and metrics
- Performance indicators
- Feedback for regulatory action

REGULATORY EFFECTIVENESS

- Generic communications that do not work
- Refining data versus developing trends and insights
- Studies that are not applied to oversight programs – inspection, licensing, etc.
- Attention to risk evaluation - priorities, resources, and methods
- Means to address human error consistently

INCIDENT AND WORKING GROUP REPORTS

- Evaluating common root causes, generic issues, and communications
- Examining for trends and common themes
- Assessing the effectiveness of regulatory actions and follow-up
- Considering opportunities for expanded use of risk insights

PILOT 3 SURVEY

- Interviews/questionnaires of managers, inspectors, and reviewers to assess:
  - Information needs
  - Regulatory decisions
  - Communications practices, tools, and methods
- OAS Meeting participants
  - Test cases

TEST CASES

- Intravascular brachytherapy - item of current interest in medical events
  - Training
  - Devices
  - Data on malfunctions
- Portable gauges – optimize State experiences in common NRC/AS program
  - Trends and oversight
  - Rules, generic communications, and results

RECOMMENDATIONS

- Regulatory framework for use by NRC and Agreement States
  - Procedures
  - Sources of information
  - Evaluation criteria
- Integrated decision making
  - Organizational interfaces
  - Methods to better communicate

WORKING GROUP MEMBERS

- Marcia Howard, Ohio (Co-chair)
- Michael Markley, NRC/IMNS (Co-chair)
- Debbie Gilley, Florida
- Duncan White, NRC/RI

National Materials Program Pilot Project 5:

Implementation of Phase II Recommendations

NRC Inspection Manual,

Temporary Instruction 2800/033,

Revised Materials Inspection Program

U.S. Nuclear Regulatory Commission

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Basis for Revised IMC 2800

- Mallinckrodt Lessons Learned Task Group Report—Phase I (November 2000)
- Phase II Byproduct Material Review (August 2001)

Phase II Recommendations for IMC 2800

The following were selected as “quick hits”:

- II-5 Revise inspection priorities
- II-9 Empower inspectors
- II-10 Streamline inspection preparation
- II-11 Revise initial inspections
- II-12 Revise field office inspections
- II-16 Expand the use of NRC Form 591

7 Risk-Informed Focus Elements

INSPECTION PROCEDURES

- 1) Security and control of licensed material;
- 2) Shielding of licensed material;
- 3) Comprehensive safety measures;
- 4) Radiation dosimetry program;
- 5) Radiation instrumentation and surveys;
- 6) Radiation safety training and practices; and
- 7) Management oversight

IMPACT TO THE INSPECTION PROCESS

- Inspection remains a performance-based evaluation of licensee activities
- Changes in preparation and documentation of inspections
- 14 % FTE reduction overall for the materials inspection program

Revised Materials Inspection Program--Completion Steps

- 2002-03, NRC field testing
  - Revised IMC 2800
  - 12 Inspection Procedures
  - Preliminary Analyses
- 2003
  - Summer, Final Analysis
  - Fall, Final Versions of IMC 2800 and 12 IPs
- 2004
  - NMP-Pilot Project Final Report