National Nuclear Security Administration

Office of Operations & Construction Management

NNSA ROADMAP FOR QUALITY ASSURANCE EXCELLENCE

EFCOG Quality Assurance Subgroup Meeting

November 15-16, 2004
Albuquerque, New Mexico
Rabi Singh

ROADMAP

Quality Assurance Excellence

Quality Assurance Excellence For Nuclear Facilities

NNSA Nuclear Facility QA Roadmap

(Continued)

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PROGRAMS *(The WHAT)*	
Desired End State	**Champion**
1. Clear Requirements/ Standards/Guidance.	**Chuck Moseley, BWXT Y12 Paul Chimah, NNSA/SC**
2. Clear Requirements/ Standards/Guidance for Safety Software QA.	**Greg Pope, LLNL Barbara Campbell, LLNL Debra Williams, BWXT Y12 Debra Sparkman, EH-31**
3. Clearly Defined QA Expectations.	**Mark Hamilton, SSO Keith Morrell, SRS**

NNSA Nuclear Facility QA Roadmap

(Continued)

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PROGRAMS *(The WHAT)* *Continued*	
Desired End State	**Champion**
4. Balanced Priorities (safety, operations and production).	**Mike Marelli, NSO** **Contractor - TBD**
5. Consistent Flow Down of QA Requirements from NNSA to M&O Contractors to Subcontractors and Vendors.	**Frank Denny, BWXT Y12** **Luis Soler, LLNL** **C.T. Shen, YSO**
6. Integration of QA with ISM.	**Mike Marelli, NSO** **Craig Barnes, BN** **Dave Torczon, LASO** **Paul Chimah, NNSA SC** **Nancy Linarez-Royce, SNL**

NNSA Nuclear Facility QA Roadmap

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PROGRAMS *(The WHAT)* *Continued*	
Desired End State	**Champion**
7. Well Defined Contract Boundaries (scope/resources).	**TBD**
8. Clear Lists of SSCs/Safety Software.	**Barbara Campbell, LLNL Adeliza Cordis, LSO**

NNSA Nuclear Facility QA Roadmap

(Continued)

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PROCESSES *(The HOW)*	
Desired End State	**Champion**
1. Management Assessments Effectively Self-Identify QA Issues.	**C.T. Shen, YSO Vaughn Hooks, BWXT Y12 John Sanchez, NSO Nancy Linarez-Royce, SNL**
2. Timely and Effective Corrective Action.	**Chris Murnane, LASO Nancy Linarez-Royce, SNL Carol Burditt, BWXT Y12**

NNSA Nuclear Facility QA Roadmap

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PROCESSES *(The HOW)* *Continued*	
Desired End State	**Champion**
3. Single/Integrated Site Office/Contractor Corrective Action Management System.	**Rabi Singh, NNSA-HQ and Johnnie Nevarez, NNSA SC Carol Burditt, BWXT Y12 Reps from all sites (TBD) NNSA Service Center (TBD)**
4. Implementation of QA Programs and Procedures.	**Dan Zweifel, SRSO Vince Grosso, WSRC**
5. Effective Federal Oversight.	**Rabi Singh, NNSA/HQ Mike Glassman, YSO**

Integrated Sitewide Issues Management System

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Current State

- Y12 - two systems, acting as one
- KCP - two separate systems, partially linked
- NTS - one system in operation (Labs need to use it)–tracking only
- PX - two separate systems, to be linked
- LLNL - two separate systems, not linked
- LANL - multiple disconnected systems, site office has no system, LANL/LASO team evaluating software solutions
- SRS - two separate systems, not linked
- SNL - two separate systems, not linked

Desired State

Build an Interface such that multiple systems act as one.

Path Forward – Help the Sites that Need Help to Achieve

One Integrated Sitewide Issues Management System

Champions: – Rabi Singh, NNSA/HQ and Johnnie Nevarez, NNSA Service Center

Proposed Team:

- Carol Burditt, BWXT Y12
- Steve Flipowicz, BWXT Pantex
- Jim Wells, LLNL
- Jack Todd, Bechtel Nevada
- Jeff Williams, LASO
- Reps from all Sites (TBD)
- NNSA Service Center (TBD)
- NNSA CIO (TBD)

Integration of QA Criteria and ISM

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Champion: Mike Marelli, NSO

Team Members: Craig Barnes, NTS
Dave Torczon, LASO
Paul Chimah, NNSA Service Center
Nancy Linarez-Royce, SNL

Actions from Breakout:

1. Review Successful Model of "Procedures for Writing Procedures/Work Instructions."

2. Develop a "Principle Based Template" Based on the Models Above.

3. Train site/contractor to use template in order to achieve integration.

Software Quality Assurance

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1. Implementation of Lessons Learned from SQA Assessment

Champion: Sherry Hardgrave, YSO

2. Propose Revision to SQA CRADs

Action: Provide Proposed CRAD Revisions to EH.

Issued Addressed:

1. Safety, Risk and Mitigation
2. Ranking/Quantitative Measurers
3. Legacy Software
4. Report Format
5. Tailoring
6. Metrics

Champion: Maysa Peterson, LANL