



Background

- DNFSB Tech Report 25 (01/00) and Tech Report 31 (03/01)
- DNFSB public meetings on QA (2000 and 2001)
- EM and NA QA Reviews (2001)
- Deputy Secretary tasks Ray Hardwick with leading an integrated QA improvement efforts (08/01)
- DNFSB issues letter to Deputy Secretary (02/02)
- EM and NA concur with Quality Assurance Improvement Plant (QAIP) (09/02)
- DNFSB issues Recommendation 2002-1 (09/02)



QA Improvement Team – Executive Members

- Sandy Johnson (EM-5)
- Jim Mangeno (NA-3.6)
- Ray Hardwick (EH-2)
- Continued Discussions with: EE, FE, NE, SC, RW, DNFSB Staff, EFCOG, NLIC, DOE Field Offices and Contractors



QAIP Project Plan Structure

Three Levels:

- Goals
- Actions
- Action Execution implementation details, schedule, Program Office responsible lead



Quality Assurance Improvement Plan Goals

- Goal 1 Correct the weaknesses in the quality assurance program that effect safe operation of items serving vital safety functions at the Department's defense nuclear facilities.
- Goal 2 Establish a program to ensure that safety analysis, design and instrument and control (I&C) software will reliably and effectively support the safe operation of items serving vital safety functions at the Department's defense nuclear facilities.
- Goal 3 Assure effectiveness of Quality Assurance Programs for items serving vital safety functions at the Department's defense nuclear facilities.



- Responsibility and Authority
 - 1. Define responsibility and authority...
 - Developing guidance
 - Conducting oversight
 - Directing research and development
 - 2. Assign responsibilities and authorities



- Recommended Computer Codes for Safety Analysis and Design
 - 3. Identify software recommended in performing design and analysis of SSC's and analysis of expected consequences of potential accidents
 - 4. Identify an organization responsible for management of each software tool



- Proposed Changes to Directives Systems
 - 5. Establish requirements and guidance in the DOE directives system for a rigorous SQA process
- Research and Development
 - 6. Identify evolving areas in software development in which additional research and development is needed



- Executive Board
 - Ray Hardwick, EH-2 (Response Manager)
 - Xavier Ascanio, NA-12
 - Dae Chung, EM-5
 - Mike Glasman, Y-12 Plant
 - Roger Rollins, Savannah River Site
 - David Brown, River Protection
 - Robin Henderson, GC-52
 - TBD, NA Field Office



Near-Term Path Forward

- Issue Quality Assurance Improvement Plan (QAIP)
- Coordinate and track implementation of QAIP actions
- Meet with Defense Board on Recommendation 2002-1
- Issue Secretarial Response Letter for Recommendation (November 22, 2002)
- Continue on-going "toolbox code" actions
- Develop Recommendation 2002-1 Implementation Plan
- Consolidate and coordinate activities of DOE QA groups (QAWG, QSMSIG, SASG, EFCOG, NLIC, NWC QAM, SQAS, SQIG, etc.)



Quality Assurance Program

- Status Updates:
 - http://www.hss.energy.gov/deprep/
 - > "Software Quality Assurance" Button
 - Ray Hardwick 301-903-4244
 - > Raymond.Hardwick@eh.doe.gov
 - Executive Board Members