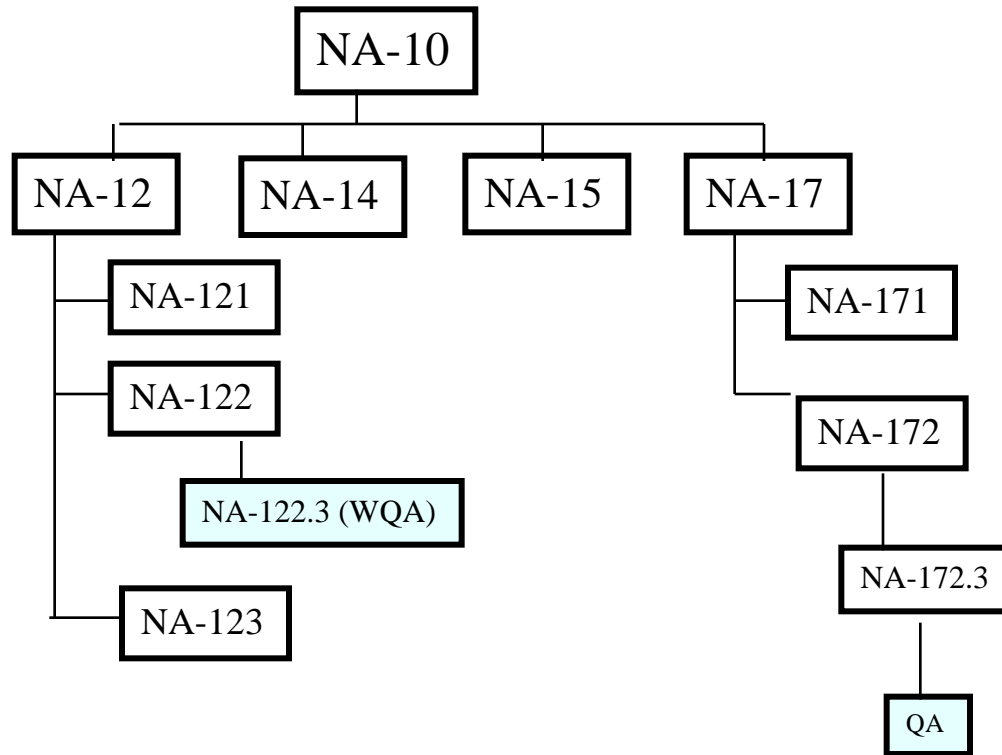


**Defense Programs  
QUALITY ASSURANCE  
Status Briefing**

**August, 25, 2009**

# NA-10 Re-Organization of 2008

*Office of Nuclear Safety and  
Operations (NA-17)*



**Sam Johnson, NA-172.3**  
NA-17 QA Agent  
NA-10 QA Manager

## **SAM JOHNSON, NA-172.3**

- **NA-17 QA Agent & NA-10 QA Manager**
- **Experience:**
  - 15 years in DOE ES&H & QA
  - 34 years in U. S. Navy (8 enlisted; 26 Officer)
    - Served in Command of USS HENRY L STIMSON (SSBN 655)
      - Engineer Officer of USS JAMES MONROE (SSBN ^22)
      - Executive Officer of USS FRANCIS SCOTT KEY (SSBN 655)
    - New Construction; Refueling Overhaul; Defueling & Decommissioning
    - 16 SSBN Strategic Deterrent Patrols and numerous SSN & SS “deployments”
- **Education:**
  - BEEE (Bachelor Of Engineering (Electrical Engineering)), 1975, Vanderbilt University
  - MBA, Frostburg University, 2000
- **“Distinguished West Virginian”** by Dean of Engineering School, WVU, 2002

## Contractors

- **DOE Order 414.1C is in all nuclear site contracts**
- **Sites have implemented SSQA requirements and programs**
  - Significant progress has been made across entire complex
  - Safety Software Experts Working Group (SSEWG)
  - Safety Software Registry and Website
  - **Closing out DNFSB Recommendation 2002-1**
- **Contractors continuing to mature self-assessment programs**
- **Continuing to emphasize improved work planning**
  - Using DOE Quality Council and (annual +) surveys to raise the bar
  - Encouraging EFCOG ISM/QA working group participation
  - **EFCOG Joint QAIP in progress; milestones being met**
- **Improving construction quality assurance**
  - **Emphasizing NQA-1 Version 2000+ & Lead Auditor Training**
  - **Primary initial focus of QA Improvement Project with EFCOG**

## Site Offices

- **All NNSA Site Offices have QAPs approved by NA-10**
  - **3 Sites' QAP Revisions approved in FY 2009**
  - **2 more Sites (SRSO and LASO have submitted QPA Revisions for NA-10 review**
- **QA staffing is limited**
  - Adequate for routine operations (SQA FLP Intern: Gladys Udentia)
  - Need to improve our depth chart
  - Improvement efforts need more attention at some sites
  - Nuclear construction project offices QA staff improved at UPC and PDCF
  - Available funding limits options
- **Emphasizing reducing repeat QA / work planning incidents**
- **Supporting Departmental initiatives**
  - Using DOE Quality Council and (annual +) surveys to raise the bar
  - DOE Quality Council and (annual +) surveys to raise the bar
  - **Safety Software Experts Working Group (success story)**
  - **HEPA filter action team**
- **Improving construction quality assurance**
  - Improving Federal QA staffing and oversight of projects (**PDCF & UPF**)
  - Strengthening assessments (e.g. T-IPR; CDNS Biennial Reviews)
  - **NA-10 audits (PDCF design (DONE) & RLWTF planned for OCT with T-IPR)**
    - **SNRL Container Program audit DONE; writing report**
  - Implementing NQA-1 (**NA-10 QAP & EFCOG Joint QAIP**)
  - Supporting QA Improvement Project (with EFCOG) in **"Execution Phase"**

## Headquarters

- **Site Office MSD/QAP approvals (see previous page)**
    - **3 Sites' QAP Revisions approved in FY 2009**
    - **2 more Sites (SRSO and LASO have submitted QPA Revisions for NA-10 review)**
  - **QA Federal staffing**
    - HQ QA is understaffed (**lost new hire; gained SQA FLP Intern**)
    - Establishing Human Capital Management System for Federal QA personnel
- Emphasizing reduction of repeat incidents**
- Some Site Offices have a well defined approach.
  - Identifying best practices (**EFCOG Joint QAIP tasking**)
  - **“Lessons Learned” is a major ultimate goal of the EFCOG Joint QAIP**
- **Supporting Departmental QA Initiatives**
    - DOE Quality Council and (annual +) surveys to raise the bar
    - Safety Software QA (SSEWG, website and registry; nuclear construction project SQA)

## Headquarters continued

- **Improving (nuclear) construction QA**
  - Improving Federal QA staffing and oversight of projects **(PDCF & UPF)**
  - Strengthening assessments (e.g. T-IPR; CDNS Biennial Reviews; **NA-10 NQA-1 Audits (PDCF Design & RLWTF (planned for OCT) Emphasizing NQA-1 Version 2000+ & Lead Auditor Training (Several recent graduates – need audit experience)**)
  - Primary initial focus of QA Improvement Project (with EFCOG)
  - Developing CRADs and Lessons Learned based on factual data
- **Study of QA “Culture” in the NNSA complex is complete; reviewing results.**
  - **(EFCOG Joint QAIP Project)**
  - **Study is complete; Evaluating Results**
- **QA Personnel Human Capital Management System in development**
  - **(EFCOG evaluating)**

## Headquarters continued

### **Line Oversight Contractor Assurance System Procedure Issued**

- LOCAS process description and reporting procedures issued
- LOCAS may influence how NNSA oversees contractor QA, but Site Offices will continue to perform primary Federal oversight.

### **NNSA Headquarters FRAM, ISMS System Description and QAP are Complete**

- Interim NA-17 Management System Description issued (includes HQ QAPD)
- Finalizing document while formally implementing

### **QA Roadmap is closed out** (using more formal mechanisms)

### **NA-1 Nuclear Oversight Focus Group**

- Seeking to improve nuclear safety information flow and oversight processes (includes QA) – will interface with LOCAS IC

### **CDNS Biennial Review of NA-10 Corrective Actions: 4 QA Items**

- QA-1: Update the NA-10 QAP [Now due 09/30/09]
- QA-2: Update the NA-10 QAP IP [Now due 11/30/09]
- QA-3: Develop a Process Description for QA (DONE)
- QA-4: Develop a Process Description for Weapons QA (DONE)





# QA Improvement Project

## Joint with EFCOG ISM/QA Group

*Office of Nuclear Safety and  
Operations (NA-17)*

- **EFCOG Joint QAIP **Project Plan Revision 2** approved 06/26/09**
- **Project Plan focuses on nuclear construction QA**

### Project Organization

#### Executive Committee

**Jerry Talbot**      **Dave Amerine**  
NA-17 &              EFCOG ISM/QA BoD  
Acting NA 10-1

**Mike Thompson**   **Frank Russo**   **Norm Barker**   **Pam Horning**  
NA-172                  NA-3.6                  Energy Solutions      EFCOG Chair  
                                                                                                 B&W Y-12

#### Project Managers

**Sam Johnson**              **Bob Dotson**  
NA-17 QA Agent &              B&Q PTX  
NA-10 QA Manager      Performance Assurance Manager