Quality Assurance Briefing

Defense Nuclear Facilities Safety Board

October 4, 2007

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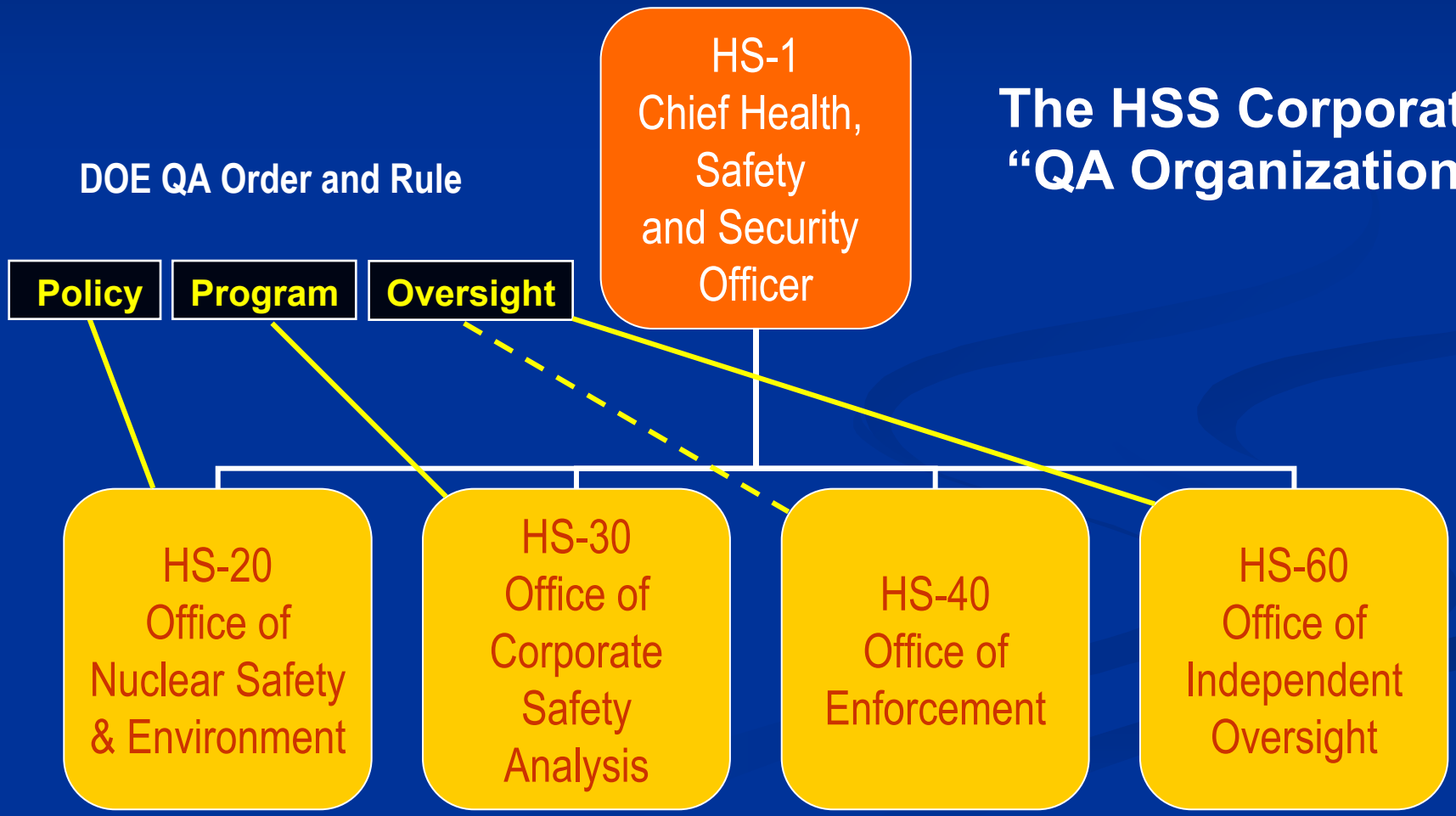
HSS

HSS Corporate Approach to Quality

HSS

The HSS Corporate "QA Organization"



* Does not include all HSS organizations.

Topics

- 2007 Survey on Quality Assurance Implementation
- Directives & Standards
- Federal DOE Quality Council
- Management Assessments in HSS
- Suspect/Counterfeit/Defective Item Program
- Safety Software Requirements
- Other Initiatives
- Summary

2007 Survey on QA Implementation

- Secretary Bodman memo "Improving Quality Assurance" (4/2006)
- Update to 2006 Survey
  - Includes 2006 focus areas
  - Three additional focus areas
  - Management Assessment results or survey response
- Deputy Secretary memo (10/2007)
- Response due Oct 26, 2007
- Summary report in early 2008
- "Survey" every 2 years

Directives & Standards

- DOE G 414.1-1X, Management and Independent Assessments Guide – Updated and in process of being issued
- DOE G 413.3-2, Quality Assurance Program Guide Draft B (Oct 2007)
- DOE-STD-1172, SQA Functional Area Qualification Standard moving into RevCom
- DOE O 414.1C, Quality Assurance will be reviewed in FY-08 for possible updates

DOE Quality Council

- Establishing the DOE Quality Council
  - Fed employees from HQ and Field
- Purpose: To improve the Department's QA posture by promoting communication, consistency, and collaboration across the DOE-complex
- Proposed role for the Council is to assist the DOE in:
  - Identifying cross-cutting QA issues
  - Evaluating effectiveness of lessons learned program
  - Recommending QA notifications via alerts or bulletins

Management Assessments in HSS

- HSS Management Assessment
  - FMFIA is the mechanism for Management Assessment
  - Currently enhancing the FMFIA QA checklist – 12/07
  - FY08 Assessment to be completed in May
- HS-30 Management Assessment
  - Program Reviews Planned
  - Assessment plans drafted using six key attributes:

    - Responsibilities and authorities, management involvement & interaction, Program Managers interaction, resources and qualifications, processes and procedures; feedback and improvement
  - Assessment planned for FY08

Suspect/Counterfeit/ Defective Item Program

- Strengthened training program
- Conducted training for approximately 300 individuals (July 2007)
- Conducted complex wide videoconference featuring a presentation by Underwriters' Laboratory (UL) Anti-counterfeiting Unit (July 2007)
- FY-08 SCDI planned activities
  - Incorporate SCDI into Lessons Learned data bases
  - Evaluate use of CBT combined with hands-on training

Safety Software Central Registry Status / Actions

- Status:
  - DOE has made limited progress addressing gaps identified in the original 6 toolbox codes
  - Constraints:
    - DOE does not own or control the codes and the codes were developed prior to DOE SQA requirements in DOE 414.1C
    - Code owners willingness to readily address SQA requirements
    - Funding to address the gaps
- Actions:
  - HSS will develop an approach and schedule, by the end 2007, for closeout of 2002-1 recommendations
    - Prioritize the gaps to be addressed
    - Clarify expectations on the role of the toolbox and code usage
    - Map out plan of action for each code

Management of Safety Software QA Requirements

- Review approach, expectation, and scope
- Assess DOE's implementation of SQA, including:
  - Revamping HSS corporate communication infrastructure
  - Review of Digital I&C practices and implementation strategy
  - Establishment of an SQA support group
  - Implementation of centralized lessons learned forum
  - Assessment of the Central Registry
- Determine resources needed to effectively manage safety software QA requirements
- Engage PSOs and other stakeholders and explore options for more viable/effective approaches for implementing SQA
- Report back to the Board on plan-of-action – by 2nd QTR CY08

Other Initiatives

- Providing assistance to the Field/PSOs
- Interface with EFCOG (e.g., QA Subgroup)
- Interacting with External QA entities (ASQ, ASME NQA-1 committee, etc.)
- Interface between HSS organizations, HQ organizations, and Field (e.g., Assistance to Field/PSOs)
- Participating in NQA-1 Lead Auditor Certification

Summary

- HSS offices working in an integrated fashion to manage QA policy, program, and oversight
- Proceeding with the FY07 Survey on QA Implementation
- Directives/Standards activity
- DOE Quality Council being established
- Strengthening the SCDI Program
- Working towards closure of Recommendation 2002-1
- Increased collaboration with EFCOG, HQ and Field, and other external agencies