

Ensuring Safe, Compliant Work at RFETS

- Assurance Program Overview

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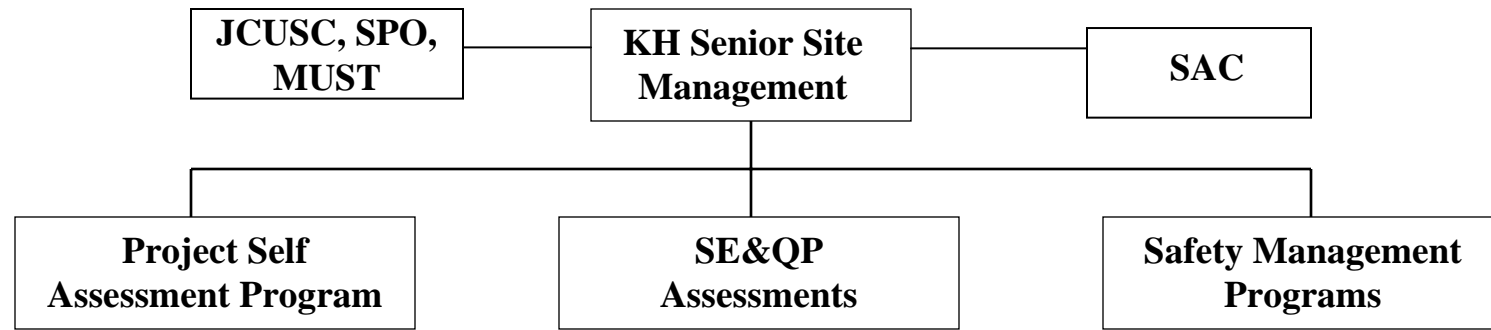
Self Assessment / Assurance Activities

- Broad Array of Tools/Types of Assessments
- Self Assessments
 - Project Self Assessment Program
 - Internal Independent Assessments
 - Safety Management Program Assessments
- External Independent Assessments
- Safety Analysis Center
- Joint Evaluation Team
- Surveillances
- Readiness Determinations
- Project ESH&Q and Manager Walkdowns/Walk-Around
- SCI-FI, CSI - leading indicators

Expectations of Assessment / Assurance Program

- Safe work
- Adherence to applicable requirements
- Achievement of performance objectives
- Implementation of best management practices
- Continuous improvement

Assurance Program Structure



- Focused Self Assessments
- Management Directed Assessments
- Walk Arouns
- Ops and management on the floor
- Surveillance Programs
- Project union safety reps
- Mentoring

- Safety Analysis Center (SAC)
 - Event analysis
 - Performance indicators
- Independent Assessment
- Management Directed Assessments
- External Risk & Vulnerability Assessments
- Readiness Determinations
- Implementation Validation Reviews
- Leading indicators - SCI-FI, CSI

- Quarterly Program Reviews
- Management Directed Assessments
- Centers of Excellence Reviews

Project Self Assessment

- Implementing Directive: PRO-1576-SAP-001
 - **Ongoing Self Assessments** - continuing basis - verify desired standards of performance are being achieved
 - **Management Directed Self Assessments** - based on emerging adverse performance trends or indicators - immediate determination of process or programmatic condition
 - **Focused Self Assessments** - periodic - evaluate programs, processes or performance against specific criteria

Internal Independent Assessments

- Implementing Directive: 3-B52-IA-003
 - Formally conducted and documented evaluations performed by qualified individuals, groups, or organizations not part of the organizations directly performing or accountable for the work being assessed
 - Measure item and service quality; adequacy of work performance; implementation and effectiveness of programs, operation processes, and past corrective actions; compliance with requirements and/or procedures; promote improved performance
 - Planned and scheduled IAW 1-W37-IA-002:
 - » Integrated Assessment Schedule
 - Annual
 - Periodic
 - Conditional
 - Management directed

Safety Management Program Assessments

- Implementing Directive: PRO-1331-SMP
 - 17 Safety Management Programs
 - Evaluate program performance, report results, recommend actions for improvements
 - » Quarterly
 - » Annually
 - Suite of methods
 - » review of internal and external assessments
 - » analysis of SAC events
 - » participation in SAC process
 - » floor level observations
 - » feedback from Center of Excellence members

Safety Analysis Center

PRO-1441-SAC-01

- Implementing Directive: PRO-1441-SAC-01
 - Collection of data from events and other safety issues, analysis of that information, dissemination of results, and coordination of management action to be taken
 - Daily meeting to discuss safety issues and events
 - » Project ESH&Q managers
 - » SE&QP personnel
 - » Project management
 - » RFFO

Frequency of Self Assessment Activities

- Over 600 discrete, formal assessments
 - 26 Independent (SE&QP) assessments (1 Joint with RFFO)
 - 611 Project self assessments
 - 108 Corrective Actions identified and entered into site tracking systems
- 1700 Events reviewed by Safety Analysis Center
 - Used to focus assessments and take actions to head off future events
- Leading indicators
 - 4000 SCI-FI observations
 - 210 CSI observations (new program)

Scope of Assessment Topics

	Self	Independent	Total
• Conduct of Operations, Work Control, Document Management	134	6	140
• Criticality Safety, Nuclear Safety	43	8	51
• Radiological Protection, Emergency Preparedness	76	3	79
• Fire Protection, Engineering, Configuration Management	47	3	50
• Quality Assurance, Testing, Surveillance, and Maintenance	121	3	124
• Industrial Safety	50	3	53
• Environmental Management	49	0	49
• Waste Management, Transportation Safety	66	0	66
• Training	25	0	25

DOE P226.1 Implementation

Changes required:

- Few - currently meeting the intent
- Technical assets adequate, key resources available on demand
 - Technical resources concentrated in line organization
 - Adequate core assessment and safety program expertise maintained in SE&QP
 - Funding flexibility/availability to bring in outside experts
- Implementation approach
 - Contract direction
 - Full implementation within 6 months

Actions to Fully Comply with Draft DOE Guidance

- Prepare and submit a detailed program description for RFFO review and approval
- Formalize qualification program for project self assessment personnel - already institutionalized for internal independent assessment teams
- Evaluating the following for incorporation prior to issuance of new directive
 - Enhance our ability to utilize assessment data identify negative trends and collective significance
 - Revise assurance program descriptions to ensure that support organizations perform self-assessments of their performance and the adequacy of their processes
 - Enhance programmatic requirement to validate that corrective actions are effectively implemented and accomplish their intended purpose
 - Provide clearer programmatic guidance on performance measures and performance indicators

K-H Technical Staffing

- Technical staffing levels
 - Safety/technical/assessment support 170
 - SE&QP 30
- Dedicated independent assessment staff, formal qualification process, supported by matrixed project personnel
- Safety staff have increased in FY03 in occupational safety and industrial hygiene
- No constraints on safety resources
- Fully supports implementation of contractor assurance program

Corrective Action Program

- Cause Analysis Requirements Manual - MAN-062-CAUSEANALYSIS
- Corrective Action Process - 3-X31-CAP-001
- Price Anderson Amendments Act Program Manual - 1-MAN-022-PAAAPROG
- Self Assessment Program feeds directly into Corrective Action Program

Tracking System (FY03)	Total Entered	Total Closed
Plant Action Tracking System (PATS)	1340	1549
Waste & Environmental Management system (WEMS)	2490	3651
Environmental Corrective Action Tracking System (ECATS)	171	169
Radiological Improvement Reporting System (RIRs)	280	269
Occurrence Reporting & Processing System (ORPS)	177	210
PAAA Noncompliance Tracking System (NTS) and Price Anderson Screening System (PASS)	5	1
Criticality Safety Deficiency Tracking Database	27	23

Safety Issue Resolution

- High significance issues receive formal Causal Analysis
 - Barrier analysis
 - Change analysis
 - MORT
 - Event and causal factors charting
 - Phoenix handbook
- The Site's CA Program has undergone several significant revisions and is mature
 - Continuous improvement and vigilance are required
 - Increasing focus to screening and CA of potential leading events