



# Selection Criteria for Phase II Assessments (IP Commitment #6)

**Carol Sohn, NNSA Oakland**  
**May 8, 2001**



# Topics to be Discussed



- **Background**
- **Objective of Phase II Assessments**
- **Selection Criteria**
- **Phase II Assessment Prerequisites**
- **Application**
- **Path Forward**



# Background



- **Must be able to demonstrate appropriateness of selections for Phase II Assessments to the DNFSB, EH, and line management**
- **The Quality of the Phase I Assessments and the associated documentation are key to the success of the Phase II Assessment effort**
  - **CRAD must be followed and results documented (the CRAD addresses the specific operability/reliability attributes necessary for continued operational readiness)**
  - **Areas in need of improvement must be identified**
  - **Not intended to repeat Phase I Assessments or other recent assessments**
- **Phase I documentation should be maintained (including Upgrades/Modifications as appropriate)**



# Objectives of Phase II Assessments



- **To obtain the appropriate information where necessary to fully understand and characterize Vital Safety System (VSS) operability/reliability issues, problems, or concerns identified during the Phase I Assessments**
- **To determine the associated causes**
- **To identify a clear path forward for restoring VSS operability/reliability to acceptable levels**
- **To ensure these acceptable levels are maintained on a continuing basis**



# Selection Criteria



- **Phase I results indicate that a significant problem appears to exist**
- **A significant problem is defined as where it is clear that a VSS operability or reliability problem exists and the extent of the problem is unclear or unknown**

**Note: Problems can be at the Complex, site, facility, system, or operability/reliability attribute level**



## Selection Criteria (continued)



- **DOE/NNSA line management agrees that there is sufficient potential safety benefit (“value added”) to be gained from performing the assessment**

**Note: This allows consideration of unique facility specific situations to be factored into the decision making process for Phase II Assessments**

- **The Phase II Assessments in these cases would be expected to clearly define and describe the extent of the problem, identify the causes, and determine the corrective actions required for resolution to restore confidence in VSS operability/reliability**



# Phase II Assessment Prerequisites



- **The VSS(s) involved must be Safety Class or Safety Significant**
- **A significant problem, issue, or concern that brings into question the operability/reliability of the VSS(s) is determined to exist**
- **The extent of the issue, problem, or concern is unclear or unknown and can not be resolved through simple corrective actions**
- **DOE/NNSA management concludes that a Phase II Assessment has value added and should be performed**



# Application of Selection Process

## Step 1



**Step 1: Enter results from the Phase I Assessments into the database provided (done by the Field)**

**Analyze the results to identify candidates for Phase II Assessments (done by Headquarters)**



# Application of Selection Process

## Step 1 (continued)



**The database documents the Field's evaluation of the conformance of each VSS with each of the operability/reliability attributes from the Phase I CRAD using 4-color system:**

- Green - No problems, issues, or concerns**
- Yellow - Minor problems, issues, or concerns are known and corrective actions underway**
- Red - Significant operability/reliability concerns (problems not well understood or corrective actions not planned)**
- White - Information is missing or unavailable**



# Compiled Results of Phase 1 Assessments



| VSS Operability Reliability Attribute | Hanford  |            |                   |                        | RFETS        |            | SRS        |                   | INTEC     |                      |
|---------------------------------------|----------|------------|-------------------|------------------------|--------------|------------|------------|-------------------|-----------|----------------------|
|                                       | PFP      |            | Tank Farms        |                        | Bldg. 371    |            | LRWHF      |                   | CPP-666   |                      |
|                                       | 99B/HVAC | 24A Stacks | 242-T Vent System | 242-T Fire Prot System | HVAC Exhaust | HVAC D-I-D | PVV System | WTE-CLFL Monitors | FAST HVAC | Fire Protect. System |
| 1                                     | Green    | Green      | Green             | Green                  | Green        | Green      | Green      | Green             | Green     | Yellow               |
| 2                                     | Green    | Green      | Green             | Green                  | Green        | Green      | Green      | Green             | Green     | Yellow               |
| 3                                     | Green    | Green      | Green             | Green                  | Green        | Green      | Green      | Green             | Green     | Green                |
| 4                                     | Green    | Green      | Green             | Green                  | Green        | Green      | Green      | Green             | Green     | Green                |
| 5                                     | Green    | Green      | Green             | Green                  | Green        | Green      | Green      | Green             | Green     | Green                |
| 6                                     | Green    | Green      | Green             | Green                  | Green        | Green      | Green      | Green             | Green     | Yellow               |
| 7                                     | Green    | Green      | Yellow            | Green                  | Green        | Green      | Green      | Green             | Green     | Yellow               |
| 8                                     | Green    | Green      | Green             | Green                  | Green        | Green      | Green      | Green             | Yellow    | Green                |
| 9                                     | Green    | Green      | Green             | Green                  | Green        | Green      | Green      | Green             | Green     | Green                |
| 10                                    | Green    | Green      | Green             | Green                  | Green        | Green      | Green      | Green             | Green     | Green                |
| 11                                    | Green    | Green      | Green             | Green                  | Green        | Green      | Green      | Green             | Green     | Green                |
| 12                                    | Green    | Green      | Green             | Green                  | Green        | Green      | Green      | Green             | Green     | Green                |
| 13                                    | Green    | Green      | Green             | Green                  | Green        | Green      | Green      | Green             | Green     | Green                |
| 14                                    | Green    | Green      | Green             | Green                  | Green        | Green      | Green      | Green             | Green     | Green                |
| 15                                    | Green    | Green      | Green             | Green                  | Green        | Green      | Green      | Green             | Green     | Green                |
| 16                                    | Green    | Green      | Green             | Green                  | Green        | Red        | Green      | Green             | Green     | Green                |
| 17                                    | Green    | Green      | Green             | Green                  | Green        | Green      | Green      | Green             | Green     | Green                |



# Application of Selection Process

## Step 2



**Step 2: Perform detailed screening of potential candidates (done collectively by the Field and Headquarters) taking into consideration the unique circumstances surrounding the specific situation(s) involved to select those candidates for Phase II Assessments where safety benefit is determined to be realistic for the resources expended**



# Application of Selection Process

## Step 2 (continued)



**The detailed screening will consider factors such as:**

- **VSS Safety Classification**
- **Alternate means available for providing protection**
- **Verification of/changes to Phase I results**
- **Impact of performing the assessment**
- **Contractor's understanding and responsiveness to safety issues involved**
- **Timeliness of resolving issues relative to facility life and mission**
- **Scope of the issue, problem, or concern**
- **Any other factors bearing on the specific situation**



# Path Forward



- **Additional input on criteria and selection process**
- **Proceed with Field evaluation (Step 1) for start of September assessment**
- **Provide feedback to DP/EM leads on issues**
- **Questions/Discussion**