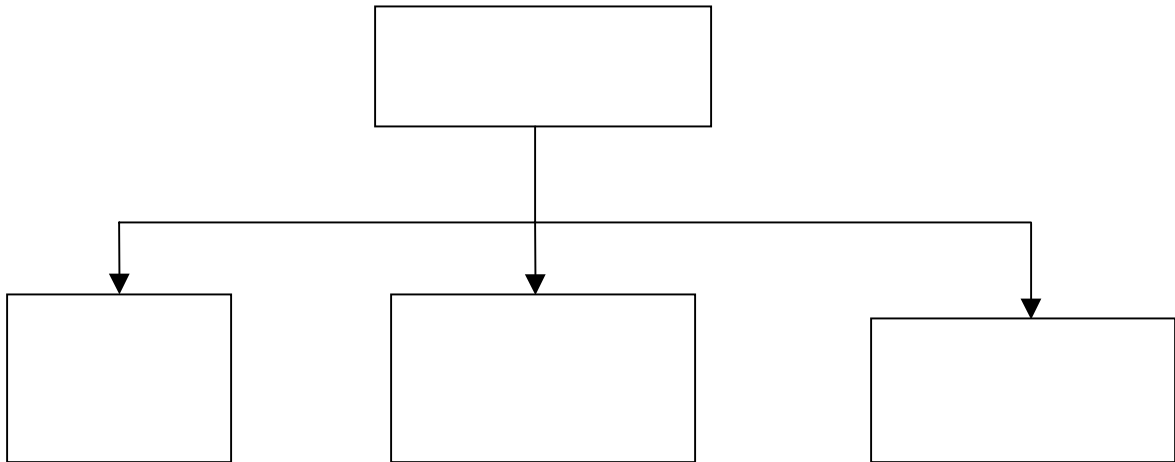


Attachment 2
Industry Proposal for Phase I SDP
9/4/02

Concept



For any fire protection finding, enter the Phase I SDP process includes the evaluation of fire frequency, defense-in-depth (DID) degradations, and safe shutdown credit. Each of these areas is given a high, medium, or low rating, and the screening process is carried out as follows:

Screening result	Fire Frequency	Defense-In-Depth Degradation	Safe Shutdown Trains Available
Screen out	Low Low Low	Low, None Moderate Low/None	Credit Credit Credit
Phase II required* *length of degradation needs to be considered	Low Low Moderate Moderate High	High Low/None Low/None Moderate Low/None	Credit Credit Credit Credit Credit
Phase III required	Moderate Moderate High	High Moderate/High Moderate/High	Credit/No Credit* Credit/No Credit* Credit/No Credit*

*Phase 3 analysis required any time a safe shutdown train cannot be credited

Criteria

Fire Frequency (Damaging Fire)

Low: $< 1 \text{ E-4/yr}$

Moderate: $1\text{E-4 to } 1\text{E-3}$

High: $> 1\text{E-3}$

Defense-In-Depth (Overall)

None: No DID elements degraded

Low: Fewer than 3 DID elements low; remainder none

Moderate: greater than 3 low DID elements in an area

High: One or more DID elements high; any systemic problem with a DID element

Safe Shutdown

Credit: At least one train is available

No Credit: Safe shutdown train not available

Defense-In Depth Elements

For each element the primary factor in determining degradation is the magnitude of the impairment. The out-of-service time for the impairment should be considered in Phase II. The following are the DID elements to be considered:

- Automatic suppression
- Automatic detection
- Fire barriers
- Manual suppression equipment
- Brigade performance
- Administrative Controls

General

Moderate: Any combination of 3 or more low degradations of DID elements

Automatic Suppression

High: Sprinkler system OOS; systemic code violation

Low: Less than 10 % of sprinkler heads degraded; minor code violations

Detection

High: Zone of detection OOS; lack of supervisory detection; systemic code violation

Low: Less than 10 % of detectors out of service; trouble alarm allowing fire alarm override to the supervisory panel; battery trouble; minor code violations

Barriers

High: Greater than 3” diameter hole in barrier; systemic code violation

Low: Less than or equal to a 3” hole in a barrier

Manual Suppression

High: Hose reel OOS in area; major brigade equipment problem

Low: Minor brigade equipment issues

Fire Brigade

High: Systemic brigade performance problem (training, response time, core competency)

Low: Minor performance issues

Administrative Controls

High: More than 3 systemic failures per area (condition reports)

Low: 3 or less systemic failures per area