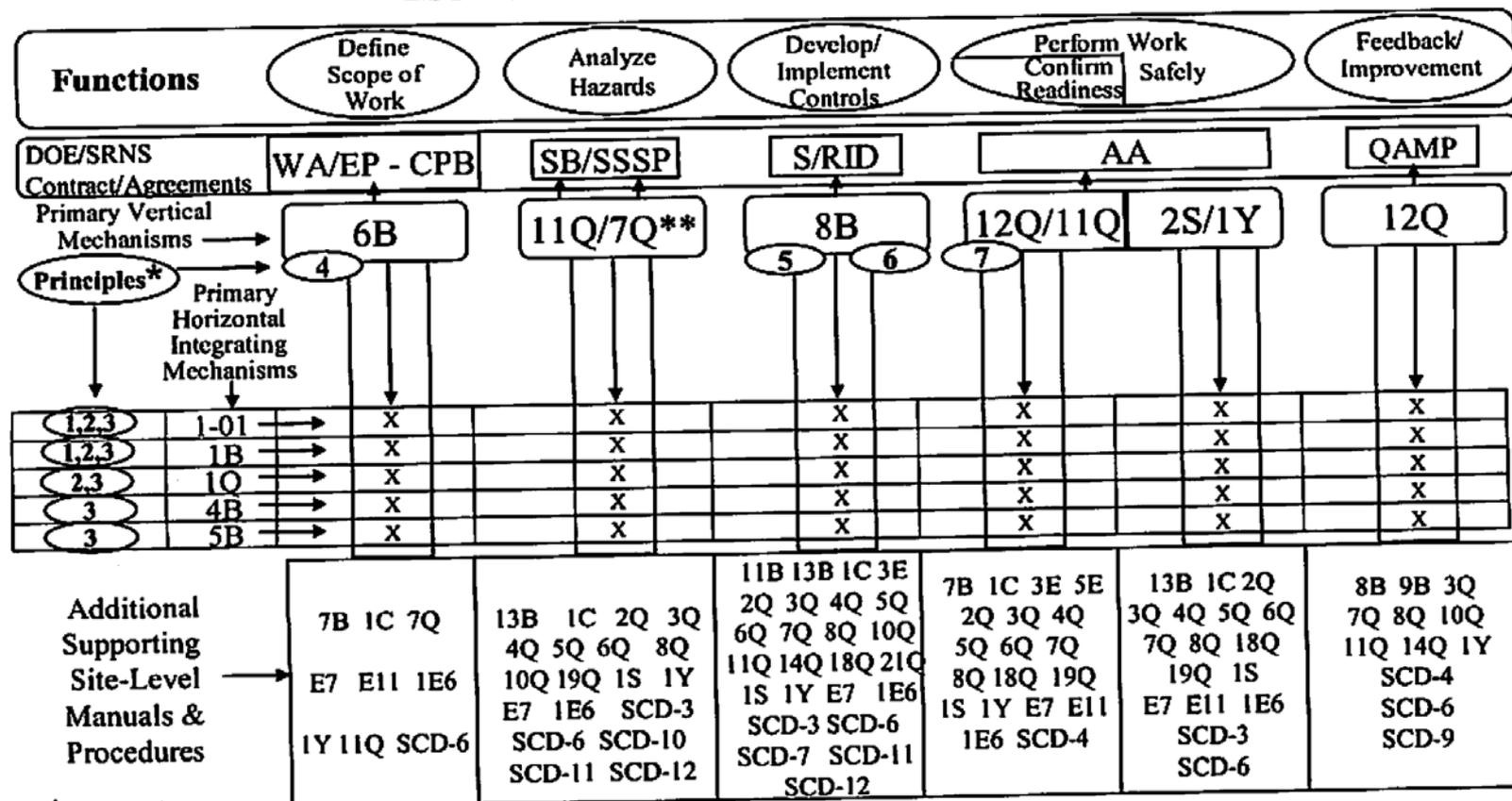


Functional Program Interfaces; Nuclear Safety

- DOE ISM Champions Workshop, September 2010.

Andrew Vincent

ISMS MECHANISMS AT SRNS



*** Principles:**

- 1 - Line Management Responsibility for Safety
- 2 - Clear Roles and Responsibilities
- 3 - Competence Commensurate With Responsibilities
- 4 - Balanced Priorities
- 5 - Identification of Safety Standards and Requirements
- 6 - Hazard Controls Tailored to Work Being Performed
- 7 - Operations Authorization

Note: For the titles of each Manual shown above, refer to the Listing in Section 8

** The mechanism for Safeguards & Security Vulnerability and Risk Analyses is the Security Manual (Procedure Manual 7Q)

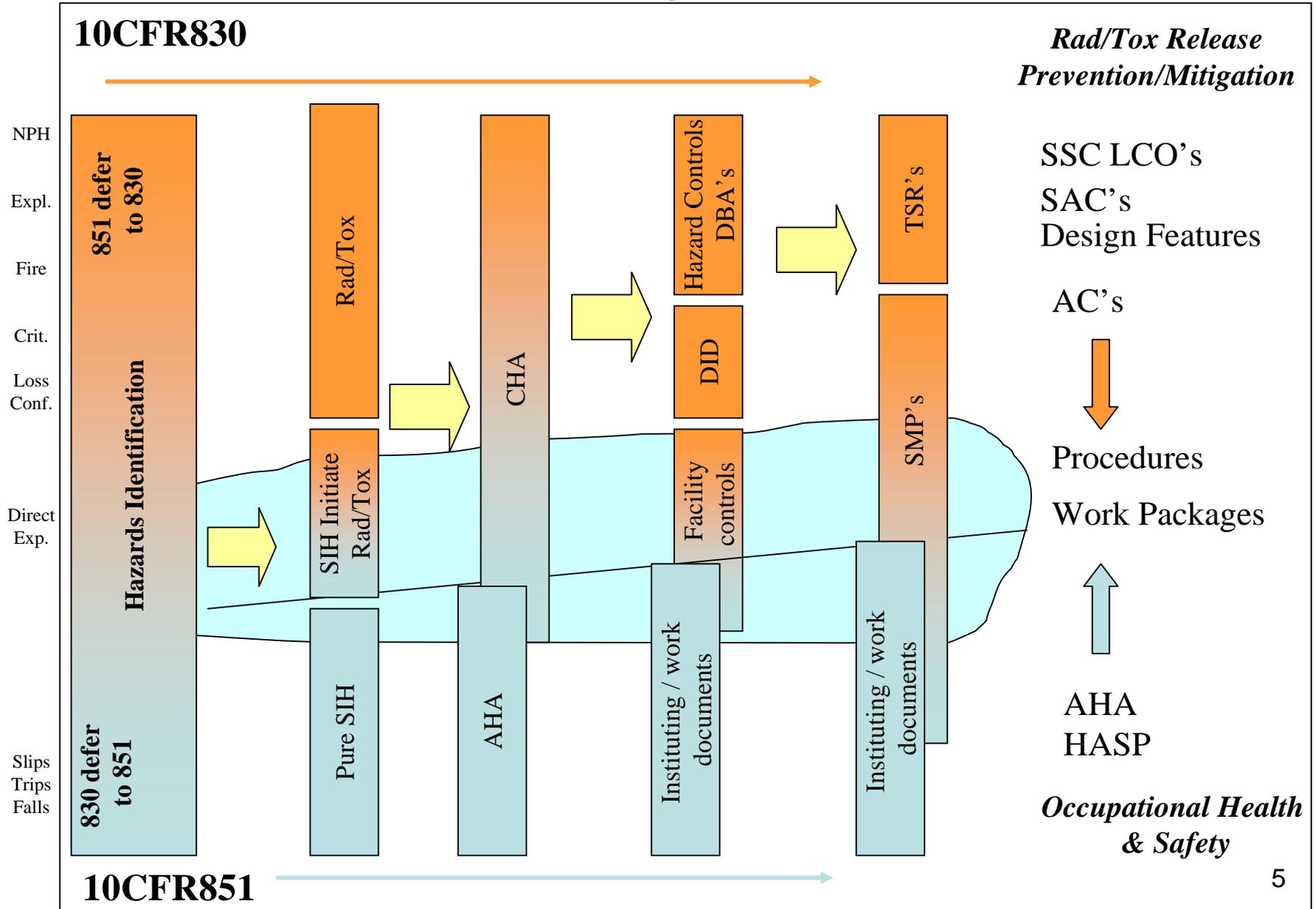
DOE STD 3009

- Ch. 1: Site Characteristics
 - Ch. 2: Facility Description
 - Ch. 3: Hazard and Accident Analyses *(all hazards)*
 - Ch. 4: Safety Structures, Systems, and Components
 - Ch. 5: Derivation of Technical Safety Requirements
 - Ch. 6: Prevention of Inadvertent Criticality *(DCA)*
 - Ch. 7: Radiation Protection *(Rad. program)*
 - Ch. 8: Hazardous Material Protection *(all hazards)*
 - Ch. 9: Radioactive and Hazardous Waste Management *(PA, UDQ)*
 - Ch. 10: Initial Testing, In-Service Surveillance, and Maintenance *(WC)*
 - Ch. 11: Occupational Safety *(AHA, FHA)*
 - Ch. 12: Procedures and Training
 - Ch. 13: Human Factors
 - Ch. 14: Quality Assurance
 - Ch. 15: Emergency Preparedness Program *(EPHA)*
 - Ch. 16: Provisions for Decontamination and Decommissioning
 - Ch. 17: Management, Organization, & Industrial Safety Provisions
-
- USQ Program
 - Transportation *(OSA, TSQ)*

Recent Experience

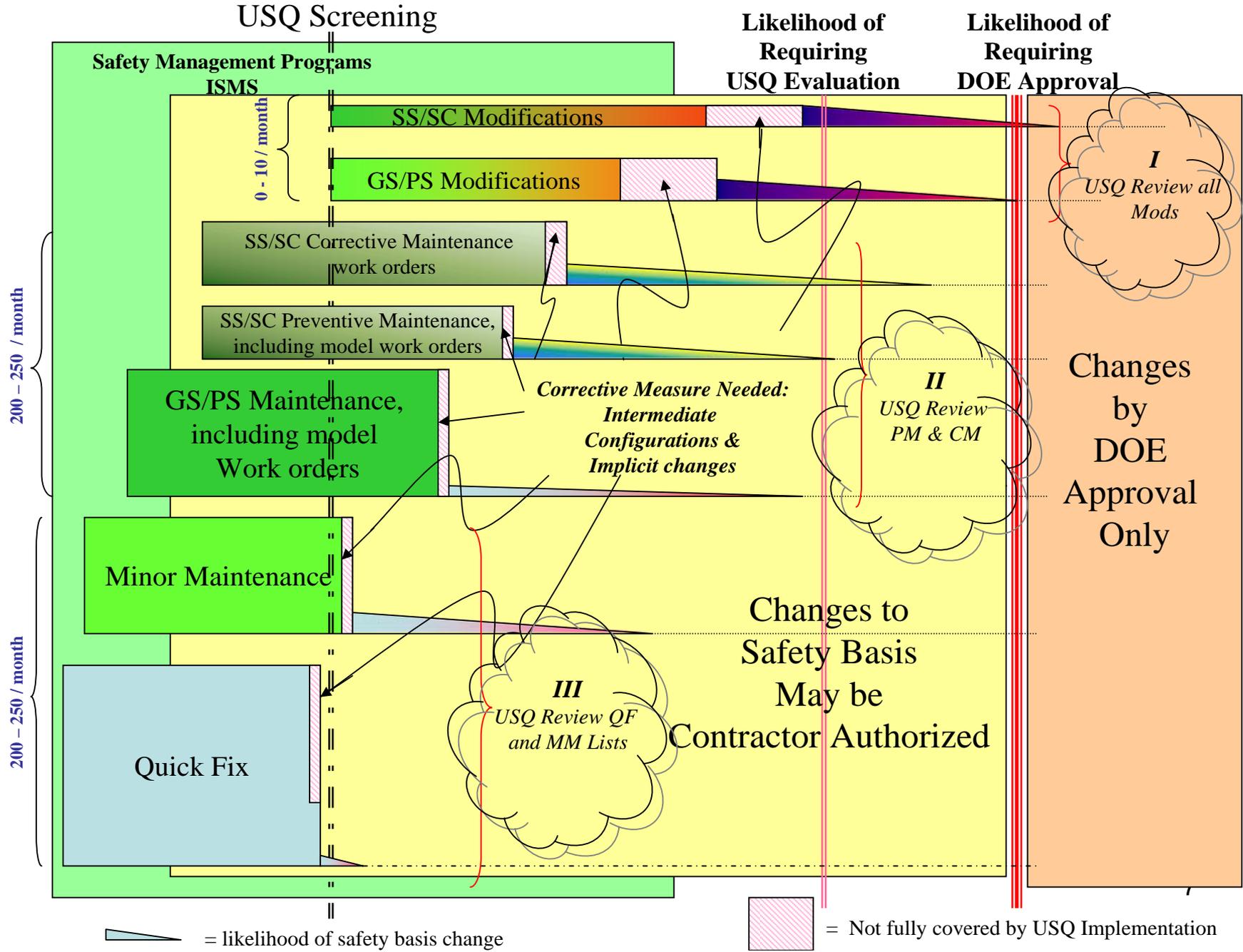
- DSA HA to OSA – PISA’s declared
 - Transport container accident scenarios and assumptions – loading, in transit, unloading
 - DSA assumptions regarding credit for OSA program (boundaries of respective analyses)
- DSA HA to AHA
 - DSA considers wide range
 - CHAP covers range including the “old” PHR scope
 - Where is the floor of one and the ceiling of the other?

Hazards Analysis



Comparisons: Recent Experience

- USQ to Work Control
 - Revised 1Y 8.20 as an action from USQ assessment

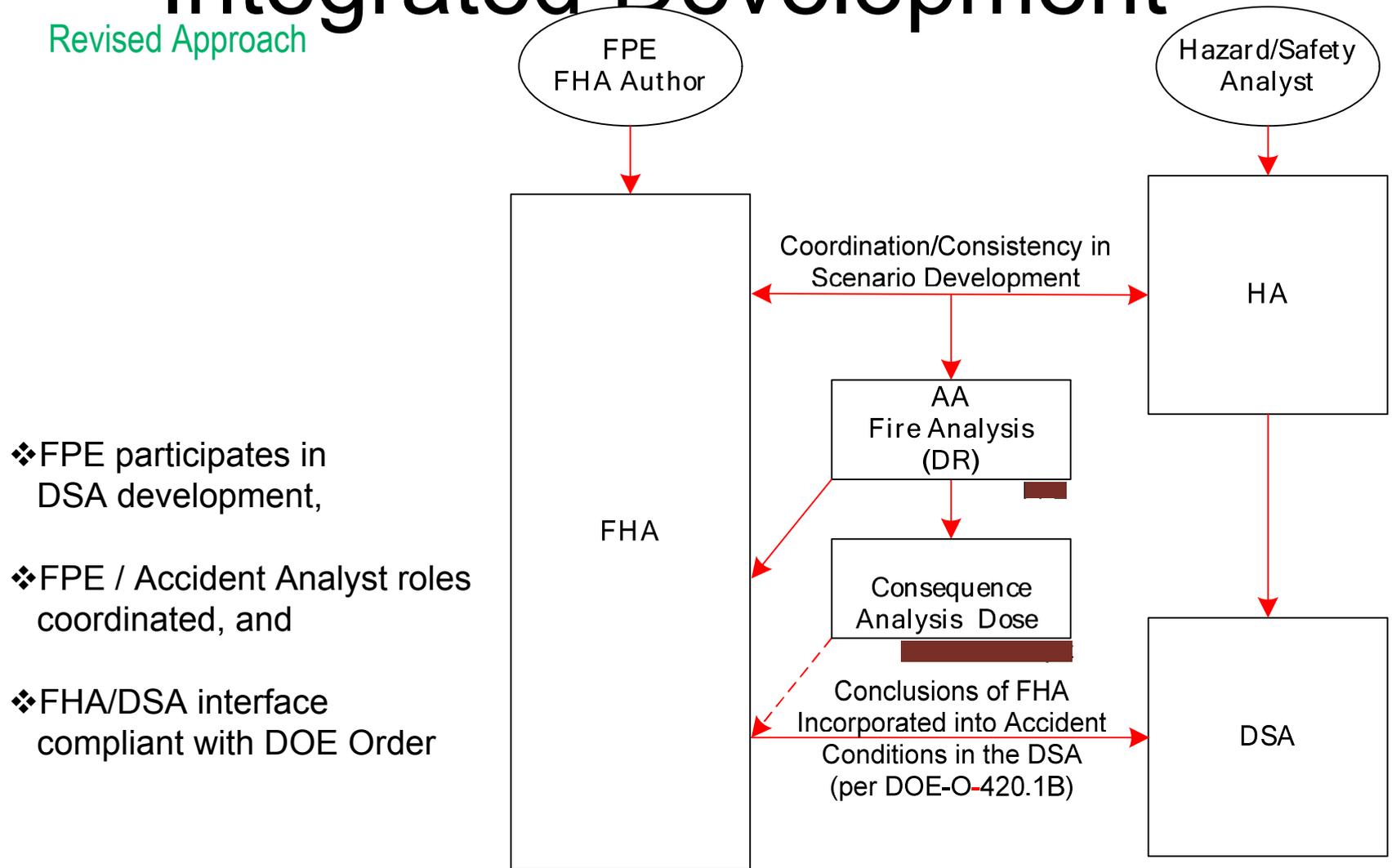


Comparisons: Recent Experience

- DSA HA to FHA
 - Fire scenarios
 - DOE O 420.1 speaks to relationship generically
 - SCD-10 & SCD-11 improvements

Integrated Development

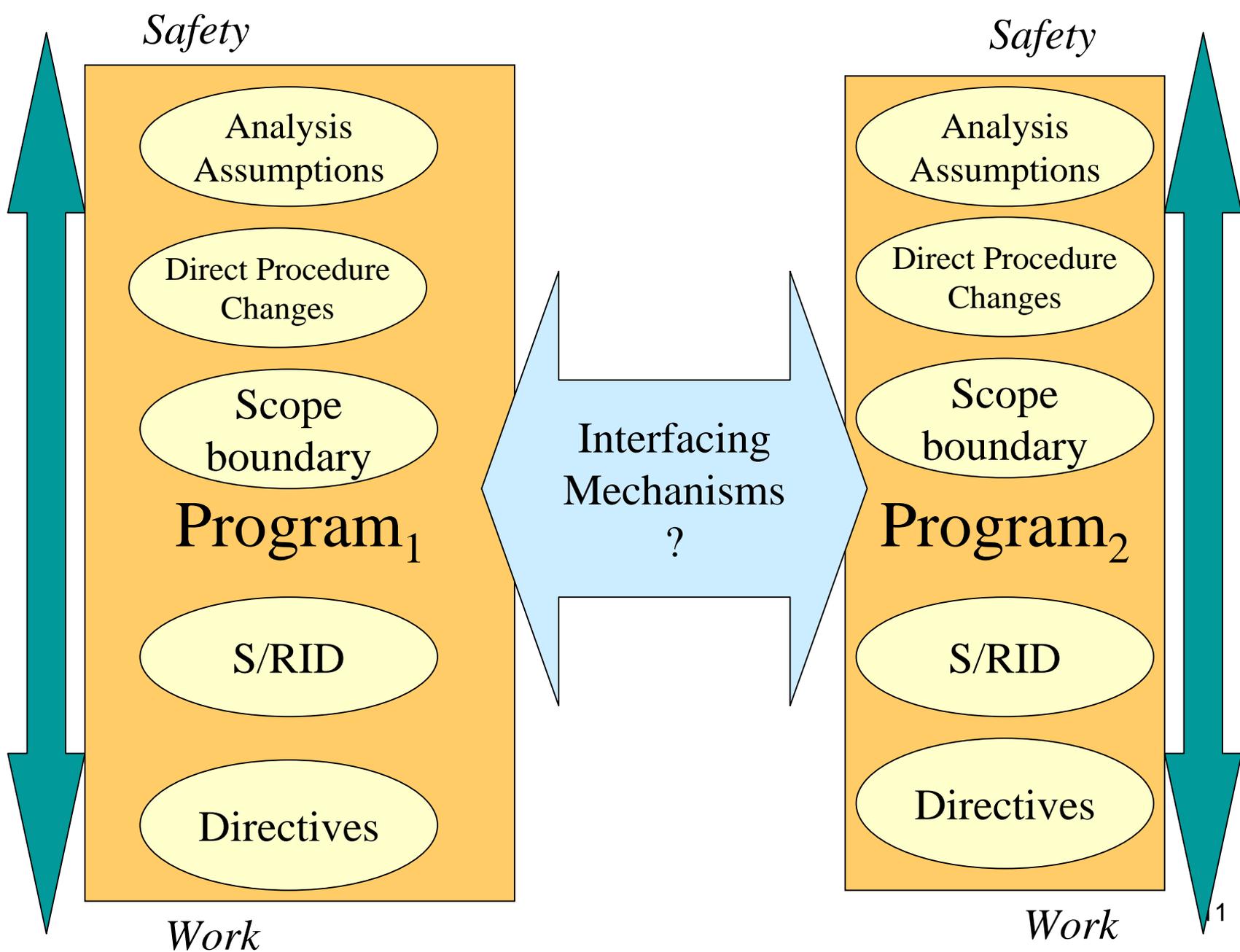
Revised Approach



- ❖ FPE participates in DSA development,
- ❖ FPE / Accident Analyst roles coordinated, and
- ❖ FHA/DSA interface compliant with DOE Order

Comparisons: Recent Experience

- DSA HA to EPHA – ties to mission changes
 - E-7, 11Q
- Sharps Program
 - TSR cites programs
 - Are we communicating risk adequately?



Identifying Interfaces

- Continuing broader assessment