

# NEI 13-02

## Section 5, Programmatic Controls



# Section 5.1 Environmental Conditions

- Order Reference – Criteria 1.2.10
- Assumed wetwell vent temperature 350°F
- Assumed Drywell vent temperature 545°F
- Assumed radiological conditions in drywell consistent with current licensing basis for major accident with substantial core melt and release of fission products
  - TID 14844, Calculation of Distance Factors for Power and Test Reactor Sites (March 1962), or
  - NUREG-1465, Accident Source Terms for Light-Water Nuclear Power Plants

# Section 5.1 Environmental Conditions (Cont)

- Wind loading and missile impacts
  - Portions of HCVS enclosed in seismic category 1 (or equivalent) structure provide sufficient protection
  - Portions of HCVS outside of above structures protected per NEI 12-06 guidance

## Section 5.2 Seismic and External Hazards

- Order Reference 2.1 and 2.2
- The HCVS should meet the seismic design requirements of the plant
- Components of HCVS not addressed by seismic design requirements of the plant should be designed for reliable and rugged performance following a seismic event
- NEI 12-06 applies for portions of HCVS external to seismic category 1 (or equivalent) structure

# Section 5.3 Quality Requirements

- Order Reference 2.1 and 2.2
- HCVS components should meet the quality design requirements of the plant ensuring functionality of the HCVS

# Section 5.4 Maintenance Requirements

- Order Reference 1.2.13
- Post installation test to confirm functionality of HCVS
- Periodic testing and frequency defined by equipment type and intended use – Section 6 contains more details
- Testing and preventive maintenance per vendor recommendations and applicable standards
- INPO AP 913, Equipment Reliability Process applies for HCVS permanently installed equipment