ISFSI PRE-OPERATIONAL ISSUES – NOTES – REGION III

- **Requirements for Spent Fuel Cask Stability During Transfer**
  - Tip-Over Analysis Requirements
  - Seismic Stability

- **Control of Heavy Loads Evaluations for Cask Movements**
  - Legacy Calculations Incorrect
  - Non-Adherence with ASME NOG-1 and NUREG 0554

- **ISFSI Pad Evaluation and Construction**
  - Use of NUREG/CR-6865 as Design Input
  - Non-Adherence to ASCE 4-98 and ACI-349
  - Non-Adherence to Construction Specifications During Construction

ISFSI OPERATIONAL ISSUES – NOTES – REGION III

- **Command and Control of ISFSI Operations**
  - Training is Task Focused
  - Sites Heavily Reliant on Contract Technical Experts / Cask Vendor
  - Project Managers not Knowledgeable on ISFSI Design / Licensing Basis.
  - Procedures did not Address Contingencies
  - Lack of Communication and Involvement from Appropriate Onsite Organizations

- **Adherence to System Design and Licensing Basis**
  - Peak Cladding Temperatures
  - ISFSI Pad Transient Combustibles
  - Time to Boil Limits
  - Appropriate U^{235} Characterization for TS Compliance
  - Boron Dilution During Hydrostatic Test Preparation
  - Canister Isolation While Filled with H_20 Could Cause an Overpressure

- **Equipment Failure During Cask Heavy Loads Operations**
  - MPC Impacted Mating Device During Downloading
  - Tolerances Between Mating Device and Storage Cask Cause Stuck Canister
  - VCT Breakdown
  - LPT Failure
  - Crane Shutoff During Transfer Cask Movements (2006)