

# SNL Contract Tasks

E/117

- Task 1 Plane Impacts on Storage Casks and Transport Packages Ex2

- Task 1.1 ( ) Impacting HI-STORM Cask

- Task 1.2 Small Plane Impacting HI-STORM

- Task 1.3 Simplified ( ) Model for NRC Use Ex2

- Task 1.4 ( ) Impacting NAC-UMS Ex2

- Task 1.5 Small Plane Impacting NAC-UMS

- Task 1.6 Small Plane Impacting Non-spent Fuel Packages

# SNL Contract Progress

Ex 2

## Evaluation

- Structural

- Codes
- Speed
- HI-Storm
  - Angles of impact
  - Models
- NAC UMS
  - Just starting
  - Models

Ex 2

# SNL Contract Progress

• <sup>EXT 2</sup> Evaluation

– Thermal

- Flame Temperature
- Jet Fuel Burn Rate
- Pool Depth
- Fire Duration
- Fully Engulfing
- Partially Engulfing

Type C Standards

# SNL Contract Progress

- <sup>Exo</sup> Evaluation
  - Radiological/Dispersion
    - MELCOR
      - Heat Transport
      - Zirconium Oxidation
        - » Fission Product Release
        - » Added Heat Source
    - MAACs
      - MACCS2\_Mills
      - Benchmarked to actual fires
      - Inappropriate for <500meters

# SNL Contract Progress

- Small Plane Analyses

- Plane

- Speed

( ) Ex 2