

# *Dominion ISFSI Update*

Meeting with U.S. Nuclear Regulatory Commission

March 16, 2009

## Opening Remarks

## ISFSI Status

- Surry
- North Anna
- Millstone
- Kewaunee

## NUHOMS HD Amendment 1

## Site specific license (July 1986)

- Pads 1 and 2
- 55 metal storage casks in place
  - Five different cask designs
  - 1470 fuel assemblies
- All planned cask loadings are completed for the site specific license
- No recurrence of secondary seal failure on TN-32 casks
  - Corrective actions were effective



## General License

- Certificate of Compliance 1030
- Pad 3
- Transition to NUHOMS as part of fleet initiative
- NUHOMS HD
  - The 1<sup>st</sup> use of NUHOMS HD System
    - August 6, 2007
  - Six 32PTH canisters in storage
  - Three 32PTH canisters planned for June 2009
  - Heat loads in excess of 33 kW
  - Evolution dose ~200 mr



# *Surry ISFSI Status Pad 3 (NUHOMS HD)*

- Pad 3 is designed for 40 modules and has capacity to accept fuel for storage until approximately 2020



- Pads 1 and 2 represent approximately 42 reactor-years of SNF and its associated HLW



## Site specific license (June 1998)

- One pad
- 27 TN-32 Casks
  - 864 fuel assemblies
- All planned cask loadings are completed for the site specific license



## General License

- Certificate of Compliance 1030
- Pad 2
- Transition to NUHOMS as part of fleet initiative
- NUHOMS HD
  - Began operation in March 2008
  - four 32PTH canisters in storage



Three 32PTH canisters planned  
for loading in July 2009





# *Dominion Loading Equipment*

Equipment for ALARA and  
Efficiency



## General License

- NUHOMS CoC 1004
- One pad of two constructed
- 19 concrete modules installed
  - NUHOMS Model 152
    - 10 in fall 2004
    - 9 in fall 2008
- Using 32PT canisters



Nine 32PT canisters under fabrication at Hitachi-Zosen in Japan



- Eight 32PT canisters currently loaded
- Three 32PT canisters scheduled for loading in April 2009



## General License

- NUHOMS CoC 1004
- One pad of two constructed
- 10 concrete modules installed
  - NUHOMS Model 102
  - Installation completed in summer 2008
- Will share NUHOMS Transfer Equipment with Millstone

# *Kewaunee ISFSI Status*



- Will use 32PT canister
  - Identical to Millstone
- Eight 32PT canisters fabricated at Hitachi-Zosen in Japan
  - All delivered



- Dry run July 2009
- First load August 2009
  - Two 32PT canisters planned

## Challenges

- Schedule
  - Aux Building crane analysis approval
    - On track for April 30
  - Need to transfer NUHOMS equipment to Kewaunee
    - Requires Millstone loading to be completed on schedule in April 2009
- Spent Fuel Pool Mods
  - Old rack structure needs to be removed
    - Need room to insert Transfer Cask into pool

## NUHOMS HD Amendment 1

- Anticipating use during June and July campaigns at Surry and North Anna
  - Advantages
    - Clarification of definitions (more explicit)
    - Eliminates operational complexity
    - May further decrease evolution dose
    - Improves surveillance and required actions
- Implementation scheduled for June at Surry and July at North Anna

Questions?

Action  
Items?

