





# **MP197HB Transportation License Amendment**

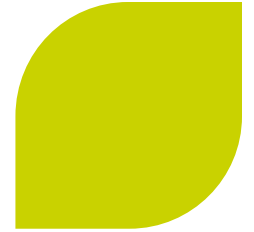
NRC

November 17, 2011

**Transnuclear Inc.**



# Agenda



- ▶ **Introduction / Opening Remarks**
- ▶ **Discussion of Unresolved Technical Issues**
- ▶ **Licensing Considerations**
- ▶ **Public Comments**
- ▶ **Presentation of Technical Approach (closed)**
  - ◆ **Criticality**
  - ◆ **Thermal**
  - ◆ **Structural**
  - ◆ **Shielding**
- ▶ **Licensing Considerations (closed)**
- ▶ **Questions and Answers (closed)**
- ▶ **Closing Remarks**

# Goals of Meeting



- ▶ **Address unresolved issues**
- ▶ **Provide detailed description of technical approach taken by each discipline**
- ▶ **Provide an opportunity for Staff feedback**

# Introduction



- ▶ **Initial application for an amendment to CoC 9302 included a large number of payloads, including both high and low burnup fuel**
- ▶ **Technical issues resulted in an scaled-down application with limited payload and certain conditions imposed on loading**
  - ◆ **DSCs included were 69BTH, 61BT, 61BTH, 24PT4 and RWC**
  - ◆ **Only low burnup fuel was included**
  - ◆ **DSCs stored in coastal marine environment to be covered by an aging management plan before transport to ensure integrity of DSC**
- ▶ **Rev 4 of CoC 9302 issued on October 7, 2011 is based on the above limitations**

## Introduction (cont.)



- ▶ **TN now planning to submit an amendment application that reflects the scope of the initial application but is based on use of moderator exclusion**
- ▶ **In addition, unresolved issues documented in NRC letter of Nov. 2, 2011 will be addressed**

# Unresolved Issues



- ▶ **Direct transport of high burnup fuel from the pool**
  - ◆ Fuel cladding no longer an issue based on moderator exclusion approach
- ▶ **Transport of canisters containing high burnup fuel that have been in storage**
  - ◆ Fuel cladding no longer an issue based on moderator exclusion approach
  - ◆ Condition of canister after storage will be addressed

# Unresolved Issues (cont.)



- ▶ **Validation of SAS2H code for source term calculations for high burnup fuel**
  - ◆ SAS2H to be replaced with TRITON
- ▶ **Isotopic depletion code validation**
- ▶ **Misload analysis**
  - ◆ Existing analyses to be revised