Overview

• Feedback from the Community Engagement Panel and public
• Partnering with Holtec
• Dry cask system with robust defense in depth (DID) strategies
• Long term effort
CEP Feedback

• How long will the casks be on site?
• How is DID concept applied?
• How will we monitor the casks?
• How can we detect corrosion?
• How will we mitigate a crack?
• How do we protect against physical threats?
SONGS Used Fuel Status

SONGS FUEL ASSEMBLY COUNT

U2 & U3 to Off-Load to Dry
(1318+1350) 2668 Fuel Assemblies

U1 & U2 & U3 To DOE 3855 Fuel Assemblies

U1 To DOE 270 Fuel Assemblies

Note: Number of canisters is approximate since the fill will ultimately be based on actual fuel data.
SONGS
Existing ISFSI Installation

• SONGS Independent Spent Fuel Storage Installation (ISFSI) site is located adjacent to Units 2 and 3
• The SONGS ISFSI currently has 50 Dry Storage Canisters (canisters) filled with used fuel
• The existing canisters were manufactured by AREVA-TN
• The canisters are “Horizontal Storage Modules” with passive cooling
SONGS
Proposed ISFSI Installation

• The proposed SONGS ISFSI expansion site is located adjacent to the existing ISFSI
• The expansion will add approximately 70 canisters for fuel and 6 to 10 for waste
• The canisters are being manufactured by HOLTEC International
• The canisters are “Vertical Storage Modules” with passive cooling
HOLTEC
ISFSI Expansion at Another Site
Definition
Defense in Depth

• Designing and operating facilities in a way that prevents and mitigates accidents

• Creating multiple independent and redundant layers of defense

• Minimize the reliance on any single feature
Dry Storage
Defense in Depth

Three principal functions:

• Maintain sub-criticality
• Prevent radiation exposure from exceeding regulatory limits
• Prevent release of radioactive materials from exceeding regulatory limits

Strategies include:

• Engineered Controls (design / material)
• Programmatic Controls (fabrication)
• Mitigating Controls (Aging Management - testing, inspection, surveillance)
Highlights of SONGS Defense in Depth Program

SONGS program includes engineered, programmatic and mitigating controls that will ensure:

• Prevention – Using corrosion resistant 316L stainless steel and thickness that exceeds regulatory requirements

• Prediction/Detection – Canister test and coupon programs

• Inspection – Developing inspection tools

• Remediation – Repair techniques or use of overpack