



Decommissioning
San Onofre
Nuclear Generating Station

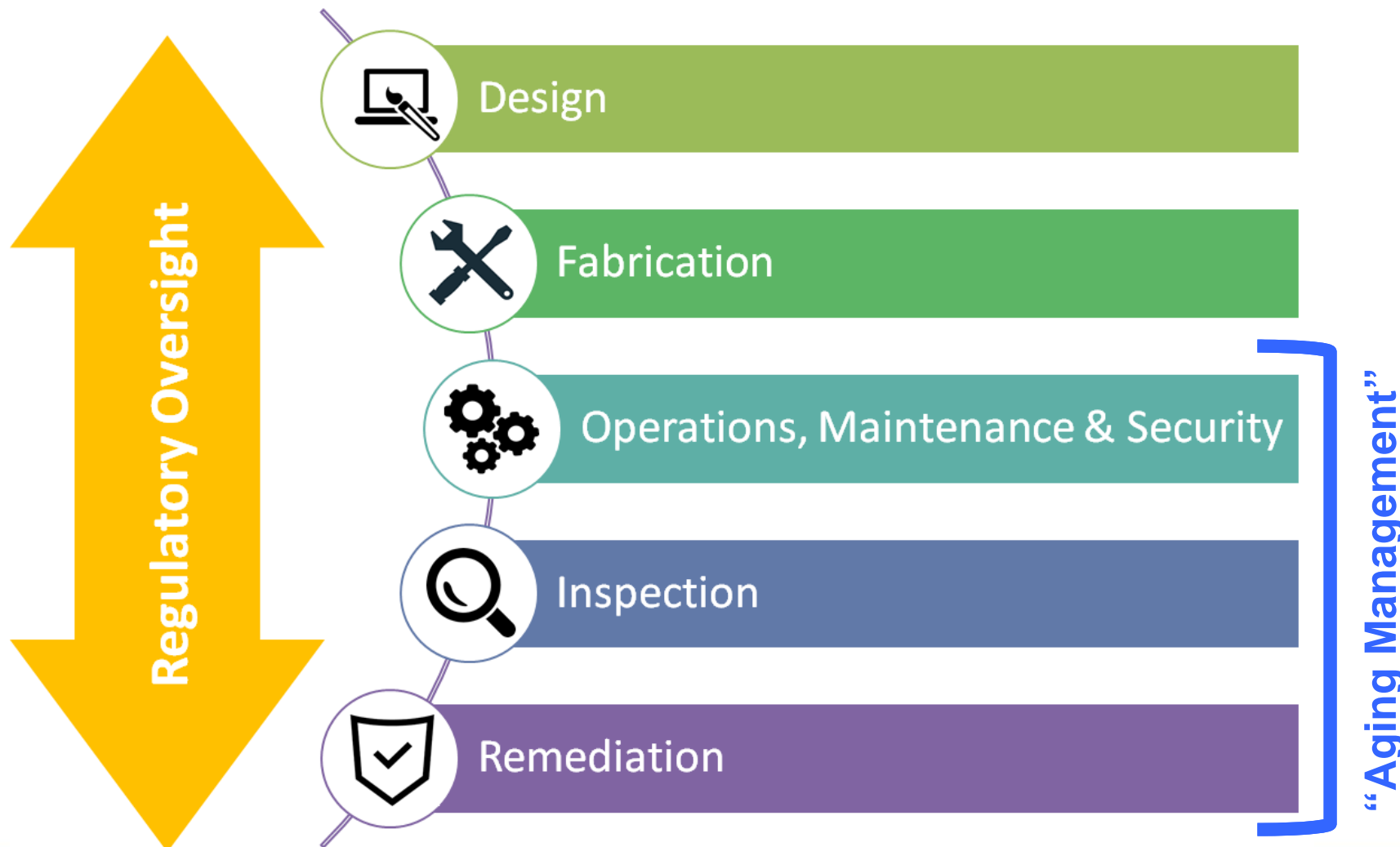
Dry Cask Storage Defense-in-Depth

Tom Palmisano

Vice President Decommissioning &
Chief Nuclear Officer

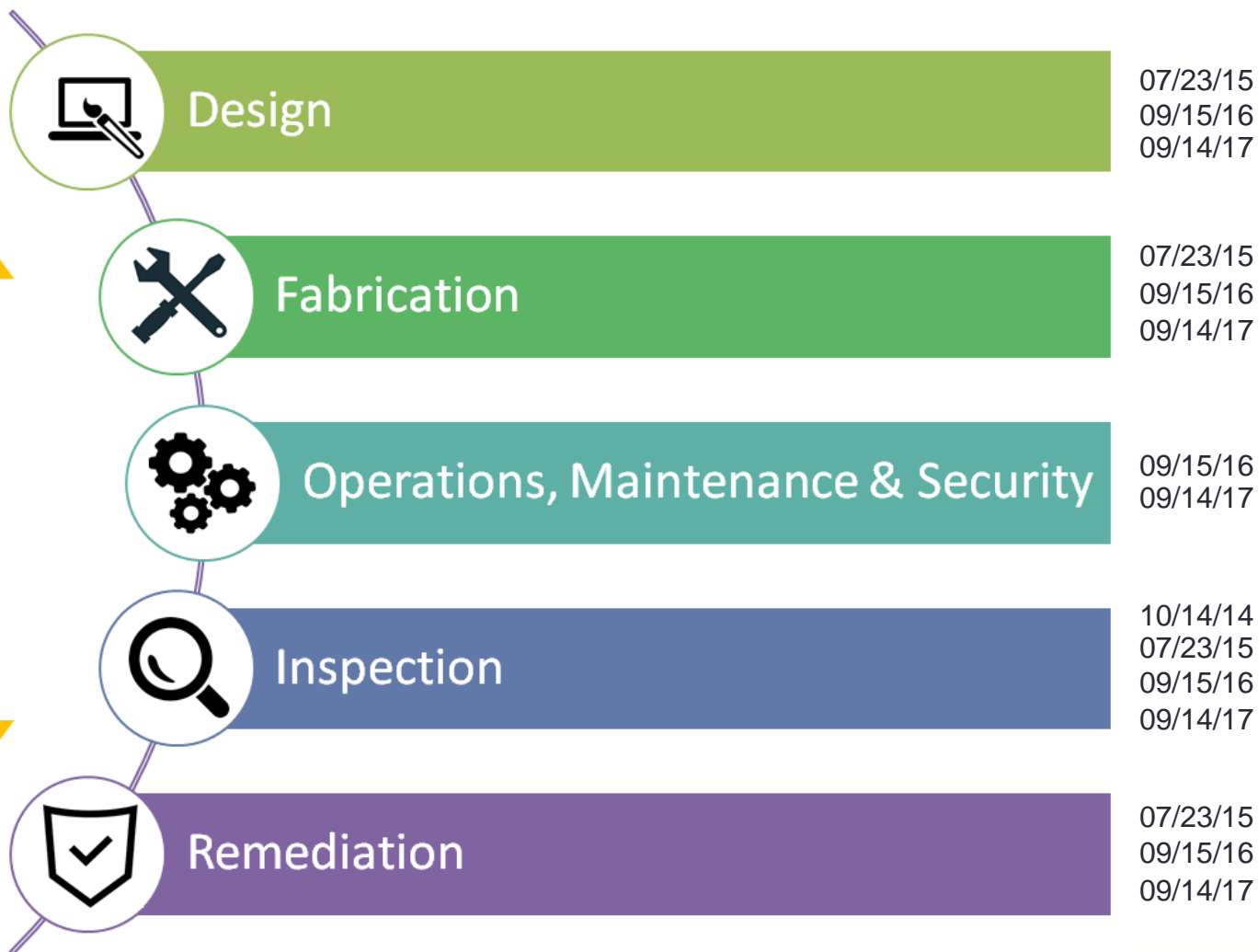


Dry Cask Storage Defense-in-Depth



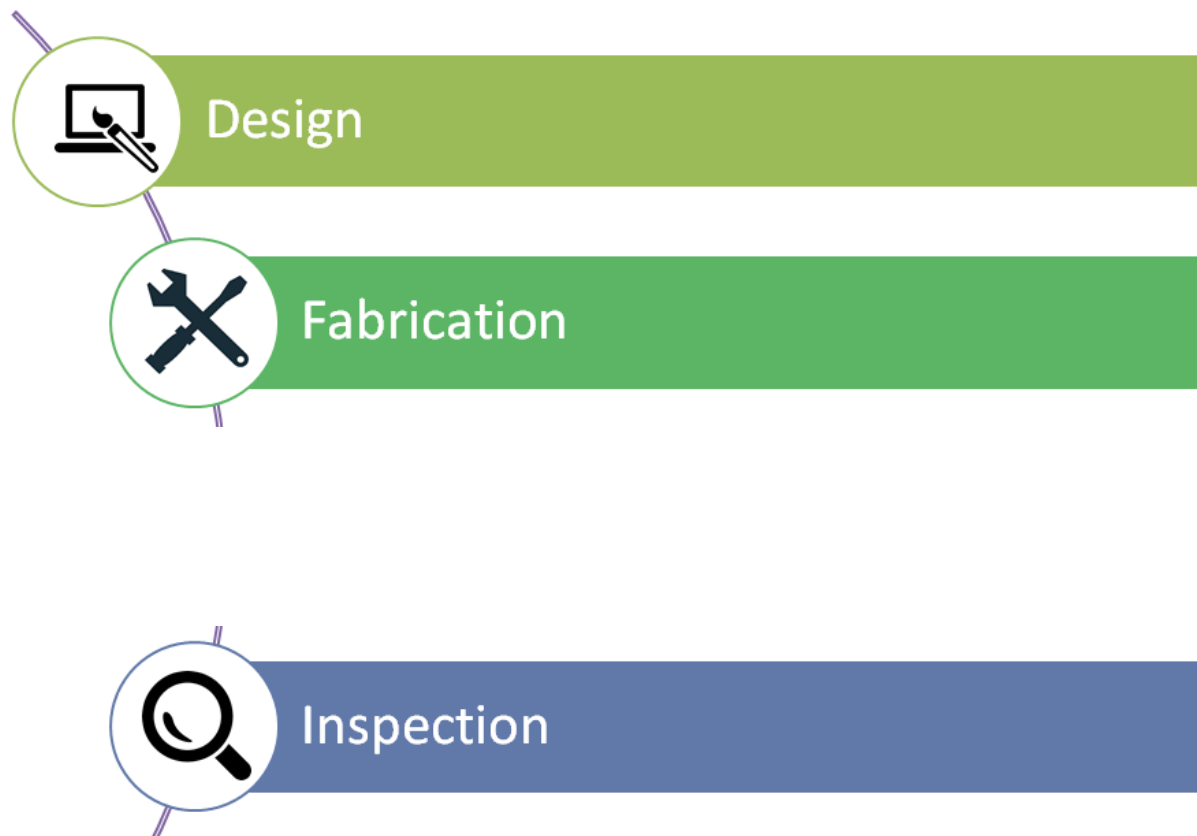


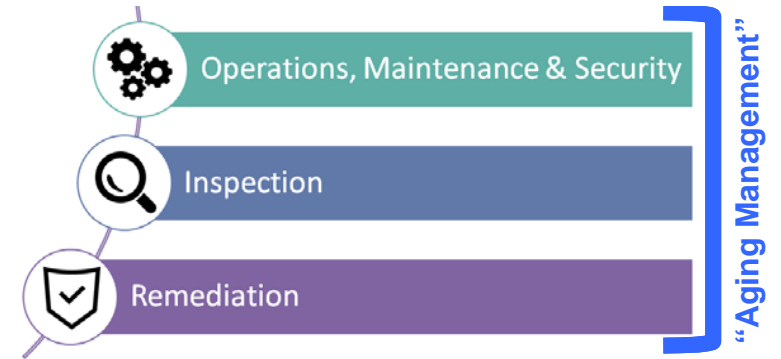
Historical References





Today's Discussion





Aging Management Implementation Timing

Storage System	Program	Implementation
AREVA NUHOMS	Aging Management Program	2023
Holtec HI-STORM	Inspection & Maintenance	2020



Design



Fabrication

SONGS Canister Improvements

- Design
 - 316L stainless steel due to marine environment
 - 5/8-inch thick shell (1/2-inch is industry standard)
- Fabrication
 - Improved weld design minimizes heat affected zone
 - Laser peening welds further reduces susceptibility
 - Steel rolling technique minimizes residual stresses

**Reduced susceptibility to
chloride induced stress corrosion cracking**

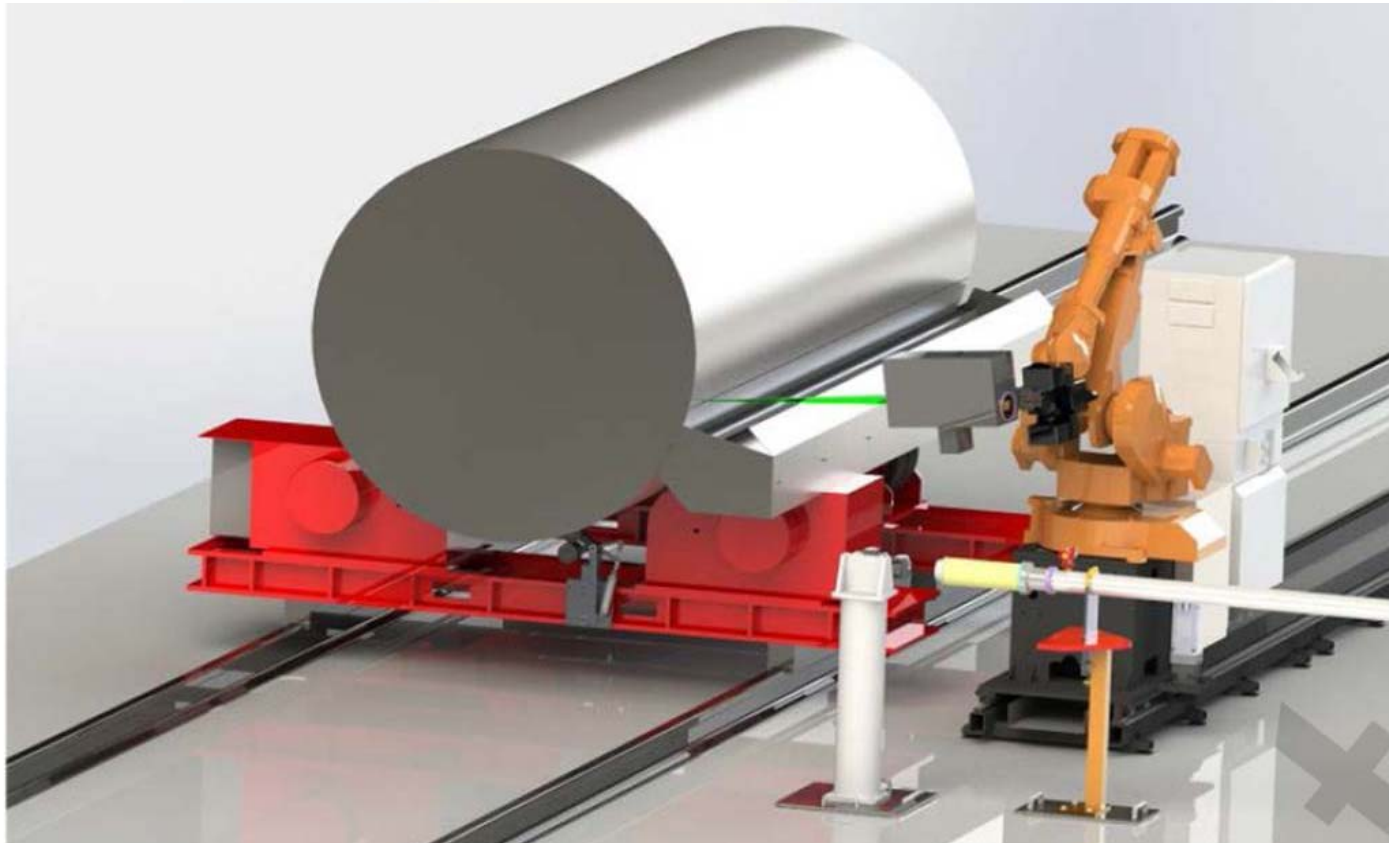


Decommissioning
San Onofre
Nuclear Generating Station



Fabrication

Fabrication Improvement: Peening Canister Welds



58



Holtec Inspection Improvements

- Test canister to reflect actual conditions (minus spent fuel) of most likely conditions for CISCC
 - Heated to mirror conditions for loaded canisters
 - Located in spot on pad near ocean
- Also available for inspection tool development
- Special Holtec lid will allow for inspections

Inspection Equipment Status

System	Robotics	Inspection Ring
AREVA TN	Available	Available
Holtec UMAX	Pending	Available



AREVA inspection ring