



# Decommissioning **San Onofre** Nuclear Generating Station

# Defense-in-Depth

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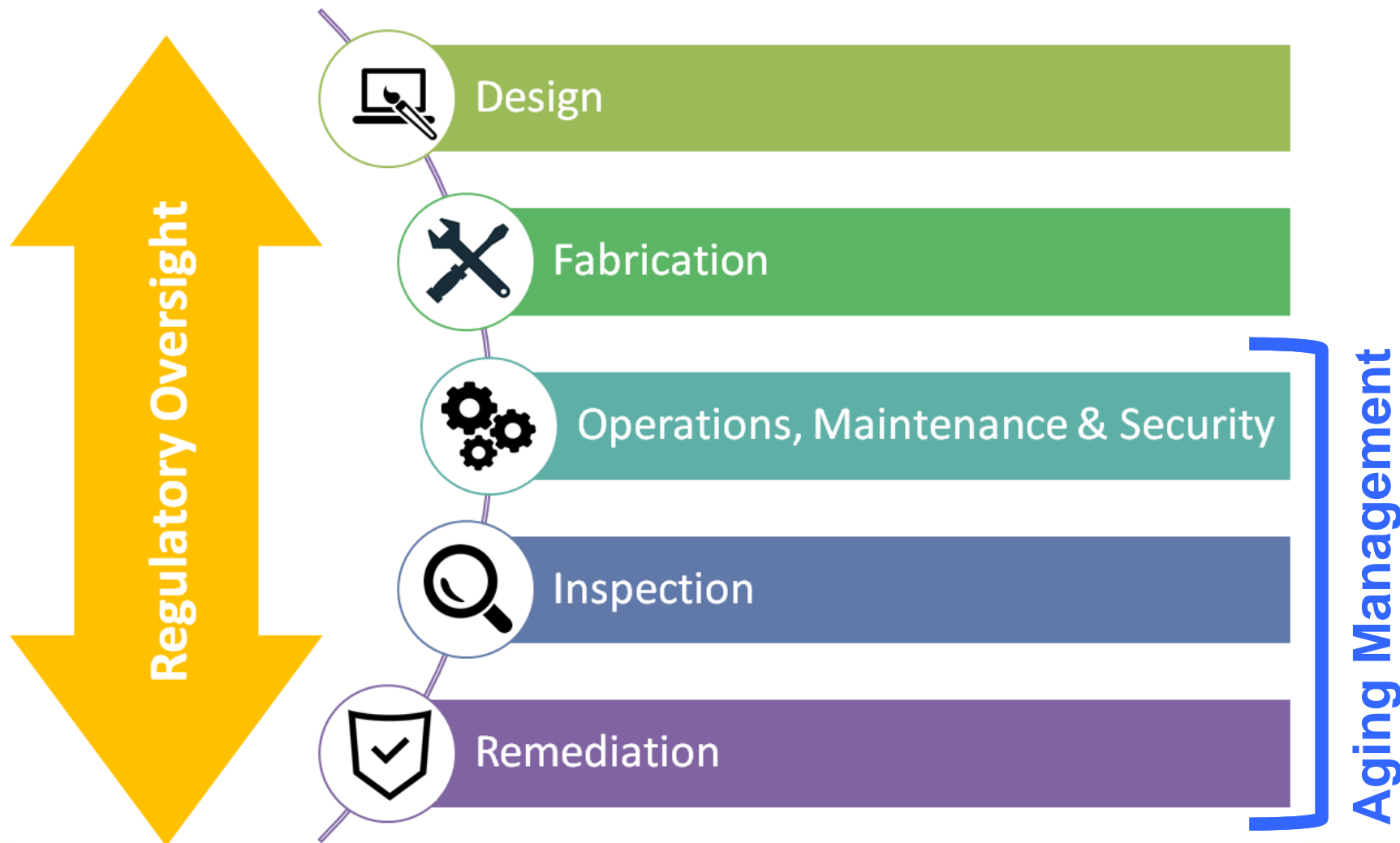
# Nuclear Industry Defense In Depth

## Nuclear plant operation built around concept of 'Defense in Depth'

- Philosophy to protect public health and safety
- Multiple, independent, reinforcing layers of defense:
  1. Design & Construction
  2. Operations & Training
  3. Maintenance
  4. Security



# Dry Cask Storage Defense in Depth





# ISFSI and Canister Improvements

- Highest seismic design of any ISFSI in U.S.
- Upgraded 316L stainless steel material for corrosion resistance
- Selected 5/8" canister thickness



# Canister Improvements

- Initiatives driven by CEP feedback:
  - Fabrication
    - Improved weld design
    - Weld rolling technique to minimize residual stresses
    - Stress relieving of canister welds by laser peening
    - Improvements increase corrosion resistance



# Canister Improvements

- Initiatives driven by CEP feedback:
  - Spare canister for inspection tool development
  - Spare cavity enclosure container for future use
  - Industry and vendor participation to develop inspection and mitigation techniques



# Current Monitoring

- ✓ 24/7 Monitoring by Highly Trained Operations and Security Force
- ✓ Continuous Temperature Monitoring
- ✓ Daily Walkdowns of ISFSI
- ✓ Radiation Surveys
- ✓ Periodic Inspections