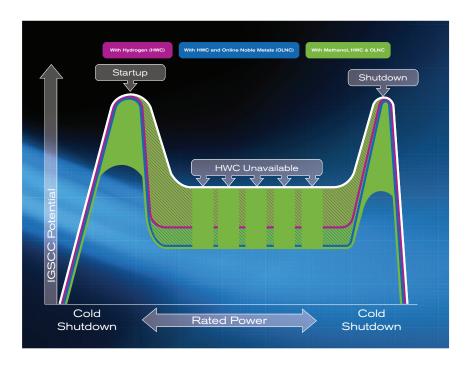
# framatome

# Methanol Injection Technology to Reduce IGSCC in BWR Plants

Easy addition to your current chemistry program to increase asset protection and extend asset life by lowering investment costs



# Challenge

During startup and shutdown, Intergranular Stress Corrosion Cracking (IGSCC) propagation is at its highest potential levels. A major initiator for IGSCC formation is oxygen concentration. Hydrogen Water Chemistry (HWC) and other chemistry programs such as On-Line Noble Chemistry (OLNC) provide oxygen control and IGSCC protection during normal plant operations.

#### **Solution**

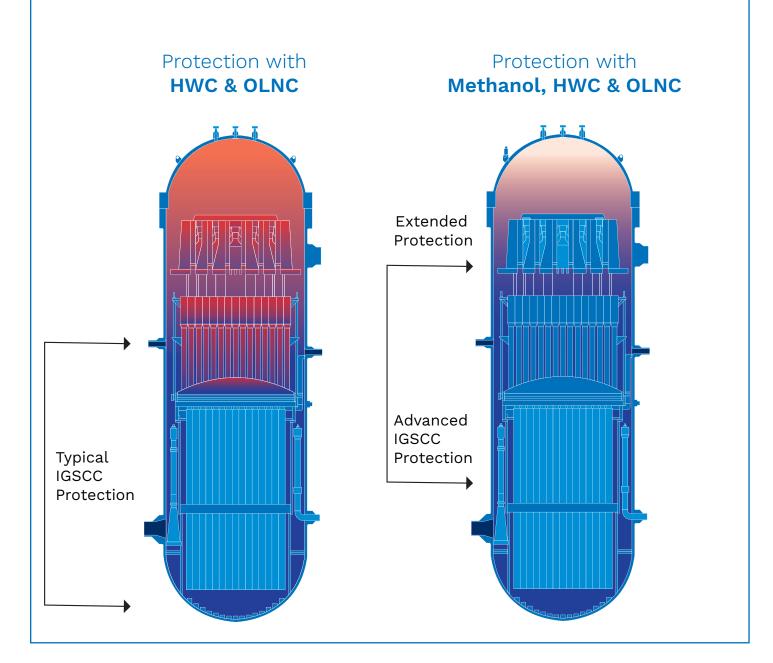
Framatome Methanol Injection Technology reduces the Reactor Coolant System (RCS) oxygen concentration thus providing IGSCC propagation protection.

# **Customer benefits**

- Fills the gap in IGSCC mitigation at startup and shutdown
- Increased IGSCC protection at lower temperatures when cracks initiate and grow
- IGSCC protection when crack initiation and growth rates are the highest
- Allows full cycle protection
- Projected reduction in frequency of vessel internals inspections
- Projected reduction in the number of repairs/replacements
- Projected reduction in the number of evaluations/ Justification for Continued Operations (JCO) from new findings
- Projected dose reductions
- Full-wetted surface protection up through the steam dryer

**Your performance** is **our** everyday **commitment** 

Methanol extends IGSCC protection to all moisture-affected locations, including virtually all vessel internals.



# Where does methanol add protection?

- Dryer
- · Shroud Head and Separators
- · Core Spray Piping and Sparger
- Top Guide
- Upper Shroud

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