

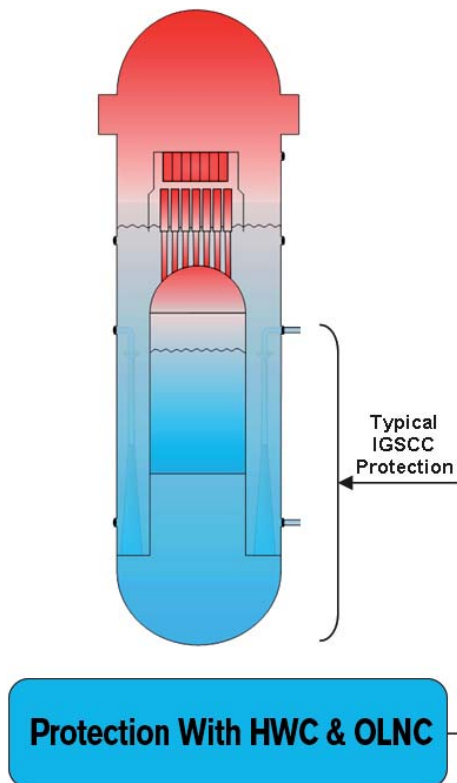
# AREVA Methanol Injection Technology to Reduce IGSCC in BWR Plants



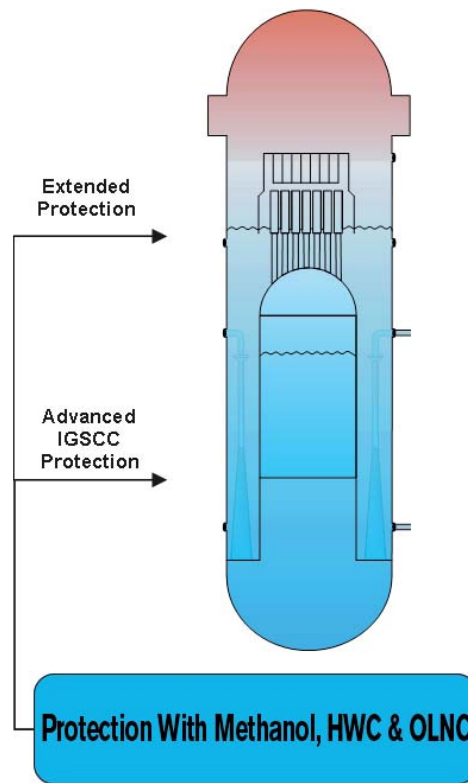
Increase asset protection and extend asset life by lowering investment costs.

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

## Current Technology



## New AREVA Innovation



## Features

- Liquid form
- Protects all wetted surfaces
- Easy addition to your current chemistry program
- Low cost
- Protection
  - During startup
  - During shutdown
  - When HWC is offline

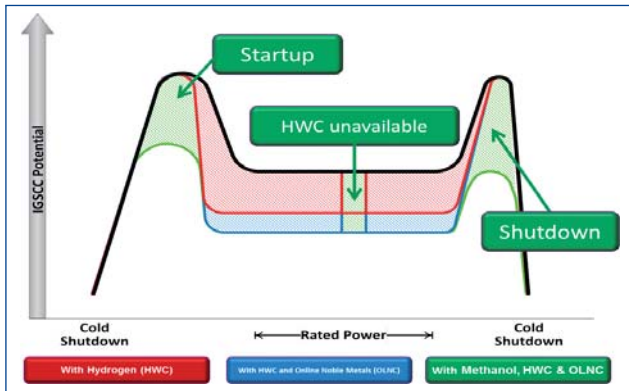
## Benefits

- 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/JCO's from new findings
- Projected dose reductions

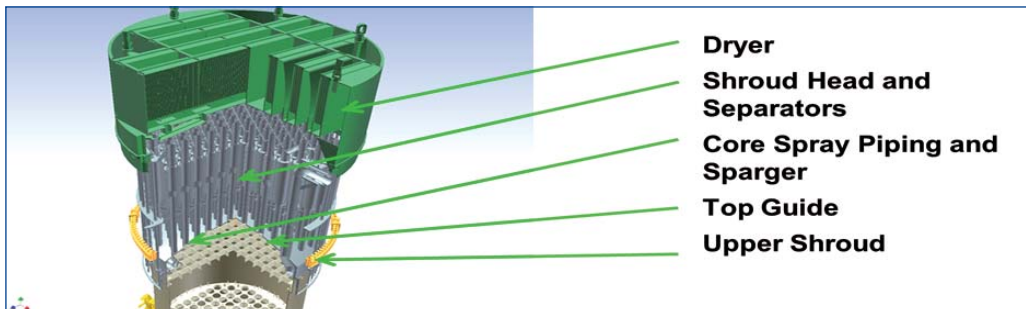
## More Innovative Outage Solutions

- RCP pumps and motor shop services
- Engineering and analysis
- Chemistry lab services
- PWR & BWR refueling services
- Safety-related machining and coatings
- Outage management and OCC support

## When does methanol protect?



## \*Where does methanol add protection?



\*BWRVIP-167NP Revision 3: "BWR Vessel and Internals Project Boiling Water Reactor Issue Management Tables", Appendix B

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