GE Hitachi Nuclear Energy

Decommissioning and Dismantling
Turn-key Reactor Internals Segmentation Services

GE Hitachi’s expertise in reactor design, licensing and modification project services, combined with Hitachi’s proven experience in advanced modular construction and decontamination, results in GE Hitachi’s ability to provide superior safety, reliability, and cost performance for nuclear decommissioning projects.

Capabilities
- Decommissioning studies
- Decommissioning & dismantling project planning
- Spent fuel services

GE Hitachi has proven expertise in segmentation.
- Reactor internals modification/cut up
- Reactor internals segmentation
- Risk identification and management
- Functional organization and supply chain depth

Post-Operational Support
GE Hitachi offers a wide range of support to address your post-operational needs.
- Segmentation of reactor internals, including cut, pack, and canister load plans, managed under one project
- Licensing
- De-fueling
- Chemical decontamination services
- Post shutdown decision support
- Water management/consultancy including contaminated water resolution

GE Hitachi Segmentation History
BWR Components Dismantled and Segmented
- Steam dryer and separators
- Shroud
- Guide rods
- Feedwater spargers
- Core spray piping
- Top guide
- Shroud
- Core Plate
- ICM (Incore Monitor Housing) guide tubes and stabilizers
- Differential Pressure – Standby Liquid Control Line
- Jet pump assembly (inlet mixers, risers, riser braces, diffusers, and sensing lines)

Winner of Bentley Be Inspired Award
Hitachi-GE Nuclear Energy, Ltd. won the prestigious Bentley Be Inspired award. Our innovative approach to extreme engineering challenges associated with decommissioning transformed the disassembly approach from the traditional consideration of plant weight to plant volume.

GE was awarded the JSME (ASME equivalent) Power and Energy Systems Award for Social Service by TEPCO – one of the most important JSME awards after completion of 1F5.
## GE Hitachi Reactor Internals and Segmentation Projects

<table>
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<tr>
<th>Project</th>
<th>Year</th>
<th>Components</th>
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<tr>
<td>OKG 2</td>
<td>2003</td>
<td>Core Spray Piping, Separator, Segmentation, Core Shroud Head, Steam Dryer</td>
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<tr>
<td>Susquehanna 1</td>
<td>2007</td>
<td>Steam Dryer</td>
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<tr>
<td>Susquehanna 2</td>
<td>2008</td>
<td>Steam Dryer</td>
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<td>Quad Cities</td>
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<td>Steam Dryer</td>
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<td>OKG 3</td>
<td>2011</td>
<td>Core Spray Piping, Separator, Segmentation, Core Shroud Head, Steam Dryer</td>
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For more information, contact your GE Hitachi Nuclear Energy sales representative or visit us at: [https://nuclear.gepower.com/d-and-d](https://nuclear.gepower.com/d-and-d)