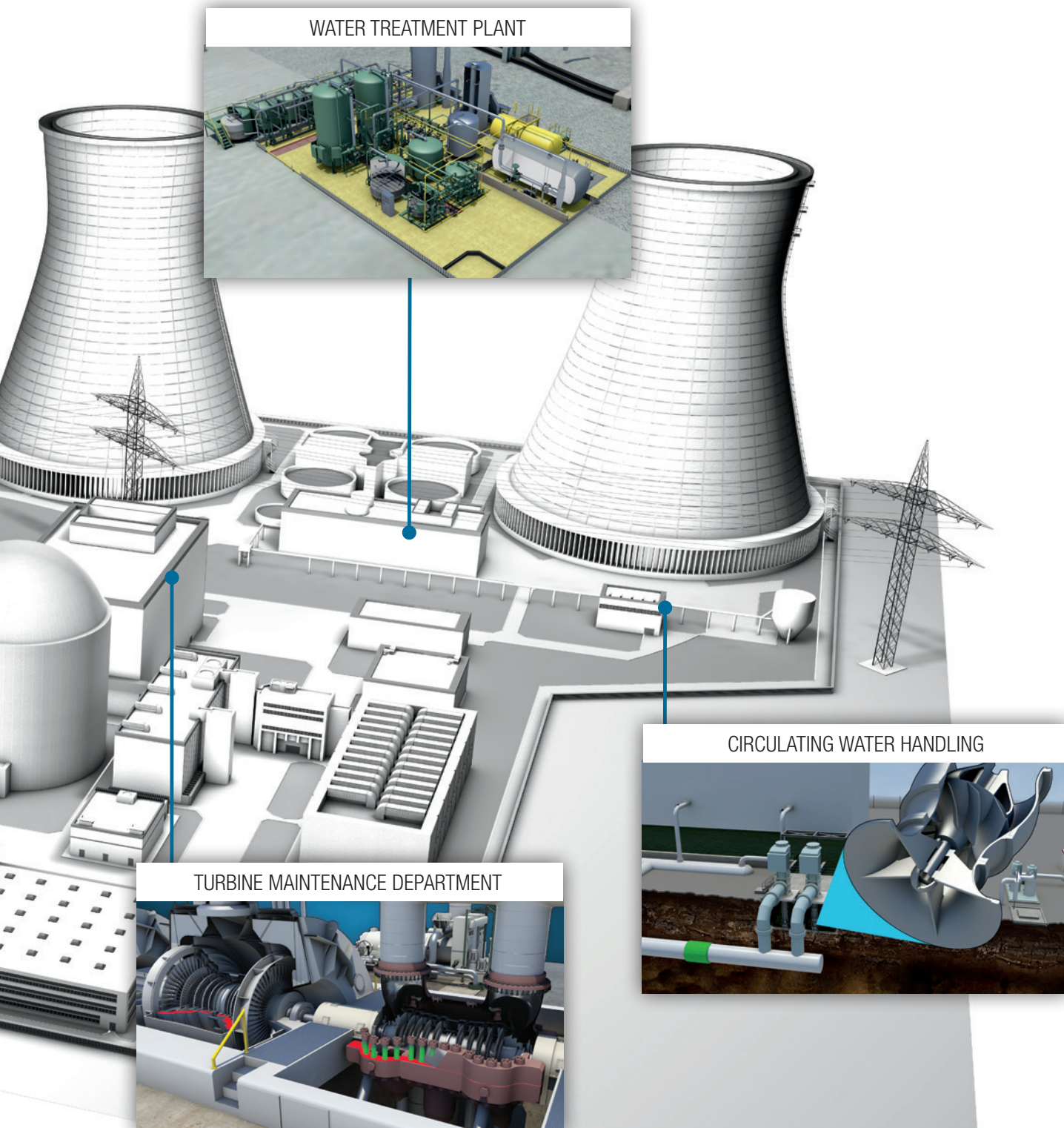




**LOCTITE**



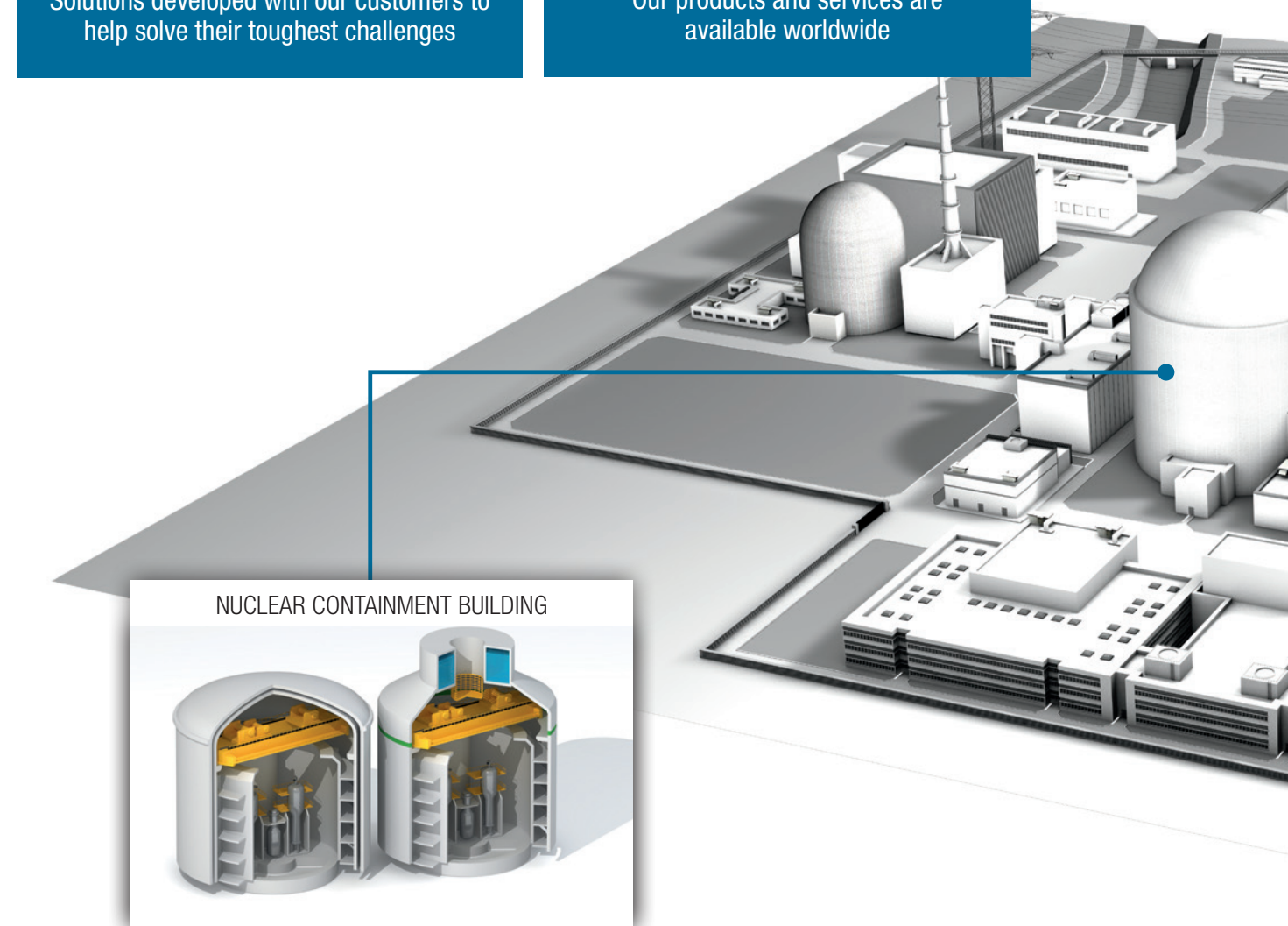
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**Solutions for Nuclear Power Plants**



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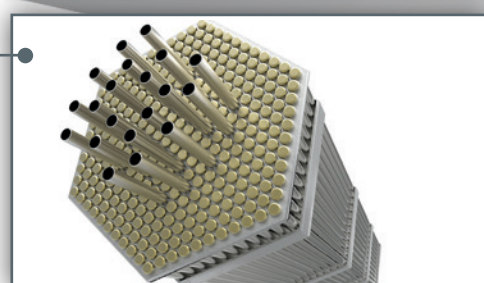
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YOUR CHALLENGE	OUR SOLUTION	BENEFITS
<b>NUCLEAR CONTAINMENT BUILDING</b>		
<b>PIPE SYSTEMS AND VALVES</b>		
Leaks from threaded pipe joints and valves	LOCTITE® 5802™ Medium Strength Thread Sealant (Nuclear Grade)	<ul style="list-style-type: none"> <li>Improve plant safety</li> <li>Increase reliability</li> </ul>
<b>REACTOR COOLANT PUMPS</b>		
Loosening of threaded fasteners	LOCTITE® 2432™ Medium Strength Threadlocker (Nuclear Grade)	<ul style="list-style-type: none"> <li>Increase reliability</li> <li>Decrease unscheduled downtime</li> </ul>
Slippage of bearing on pump shafts	LOCTITE® 6482™ Retaining Compound (Nuclear Grade)	<ul style="list-style-type: none"> <li>Increase equipment efficiency</li> <li>Increase uptime</li> </ul>
<b>REACTOR</b>		
Seizing of gland studs on the top of a reactor	LOCTITE® N7000™ High Purity, Metal-Free Anti-Seize Lubricant (Nuclear Grade)	<ul style="list-style-type: none"> <li>No seizing - easy disassembly when needed</li> <li>Avoids expensive process of bolt shearing/cutting</li> </ul>
<b>NUCLEAR REACTOR FUEL LOADING SYSTEM</b>		
Lubrication of fuel cell bundle tubes to enable smooth slide of fuel rods inside the tubes	BONDERITE® L-GP 154N Acheson® Graphite Lubricant (Nuclear Grade)	<ul style="list-style-type: none"> <li>Extremely high lubricity</li> <li>Excellent adhesion to most surfaces needing lubrication</li> <li>Ease of application</li> </ul>

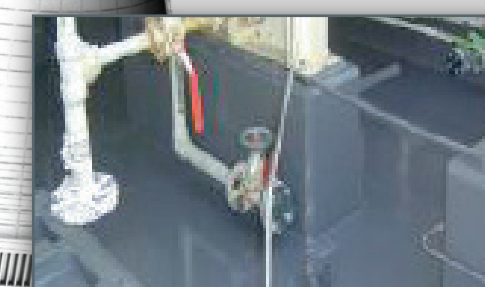
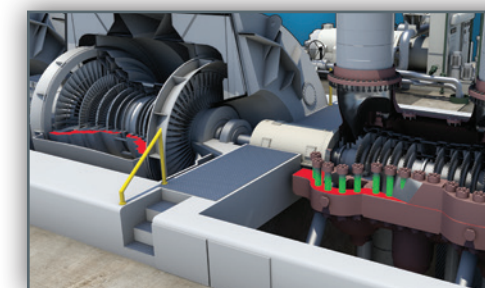
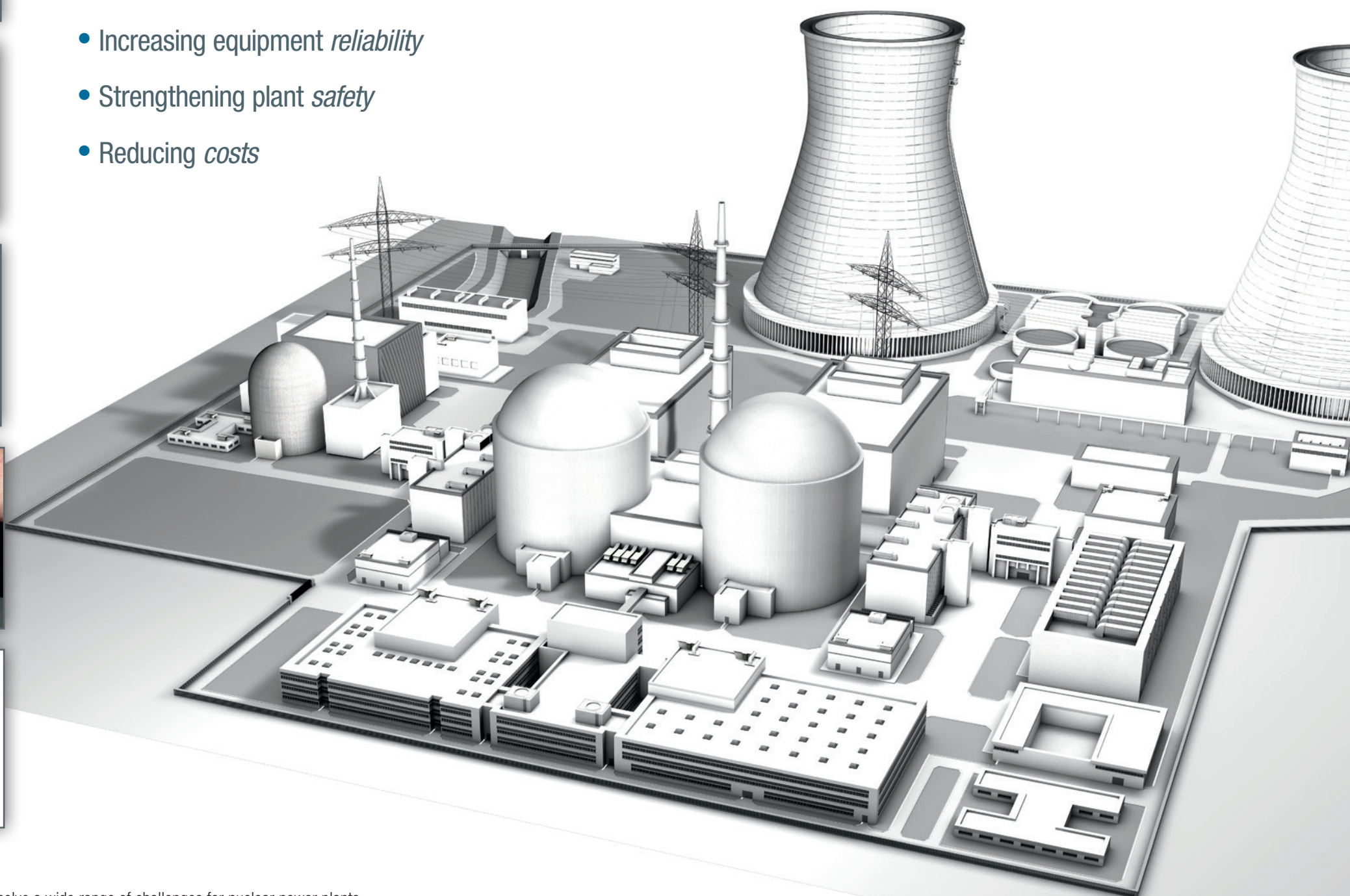
Henkel is a **NUPIC surveyed supplier** of commercial grade products for nuclear applications, which comply with the specifications set forth in manufacturers' published product descriptions or in power plants' maintenance procedures.

\*LOCTITE® products recommended for nuclear areas are high purity grades:  
 Halogen levels < 200 ppm • Sulphur levels < 200 ppm • Free from low melting point metals



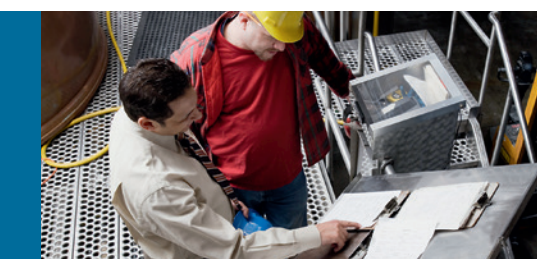
Put Henkel's expertise to work on some of your toughest challenges:

- Improving plant *efficiency*
- Increasing equipment *reliability*
- Strengthening plant *safety*
- Reducing *costs*



YOUR CHALLENGE	OUR SOLUTION	BENEFITS
<b>TURBINE MAINTENANCE DEPARTMENT</b>		
<b>STEAM TURBINE</b>		
Seizing of gland stud of man hole and hand hole cover plates	LOCTITE® 8013™ High Purity, Metal-Free Anti-Seize Lubricant	<ul style="list-style-type: none"> <li>No seizing - easy disassembly when needed</li> <li>Avoids expensive process of bolt shearing/cutting</li> </ul>
<b>STEAM CONDENSER</b>		
Corrosion leads to pitting of end plate and leaks. Reduces turbine efficiency and contaminates DM water.	LOCTITE® PC 7222™ Wear Resistant Putty and LOCTITE® PC 7255™ Sprayable Ceramic	<ul style="list-style-type: none"> <li>Prevents corrosion and seals joints, reduces frequency of tube replacement</li> <li>Improves efficiency of condenser and turbine</li> </ul>
<b>WATER TREATMENT PLANT</b>		
<b>DM PLANT VESSELS AND STRUCTURES</b>		
Chemical corrosion damages containment vessels, concrete floor and drainage	LOCTITE® PC 7319™ NORDBAK® Chemical Resistant Coating	<ul style="list-style-type: none"> <li>Reliable protection against chemical attack</li> <li>Cost savings due to reduced frequency of recoating</li> <li>Extends asset life</li> </ul>
<b>CIRCULATING WATER HANDLING</b>		
<b>COOLING TOWER</b>		
Spalling concrete	LOCTITE® PC 9416™ Floor Fill and LOCTITE® PC 9410™ Concrete Repair Material	<ul style="list-style-type: none"> <li>Reliable protection against chemical attack</li> <li>Cost savings due to reduced frequency of recoating</li> <li>Improves plant safety</li> </ul>
<b>CIRCULATING WATER PUMPS</b>		
Cavitation wear deteriorates pump casing, resulting in consumption of more power and lower efficiency	LOCTITE® EA 3478™ Superior Metal and LOCTITE® PC 7255™ Sprayable Ceramic	<ul style="list-style-type: none"> <li>Cost savings from improved pump efficiency</li> <li>Faster payback period</li> <li>Reduced wear extends part life</li> </ul>

For additional product solutions or more information, contact your Henkel representative at 1-800-LOCTITE (562.8483), or visit [na.henkel-adhesives.com/mro](http://na.henkel-adhesives.com/mro).



#### Additional Solutions

Henkel offers additional technology solutions to solve a wide range of challenges for nuclear power plants. Contact your Henkel representative for more information.