



LOCTITE

LOCTITE

Henkel – Complete Solutions for Your Entire Nuclear Power Plant.

Maintain, Repair, Rebuild, Protect

Solutions for Nuclear Power Plants

COMPLETE PRODUCT PORTFOLIO

A full range of solutions for the Nuclear Power Industry

TECHNICAL EXPERTISE

Engineering support to help you improve your operations

NUCLEAR GRADE PRODUCTS

High purity, low halogen, low sulfur products

TRAINING

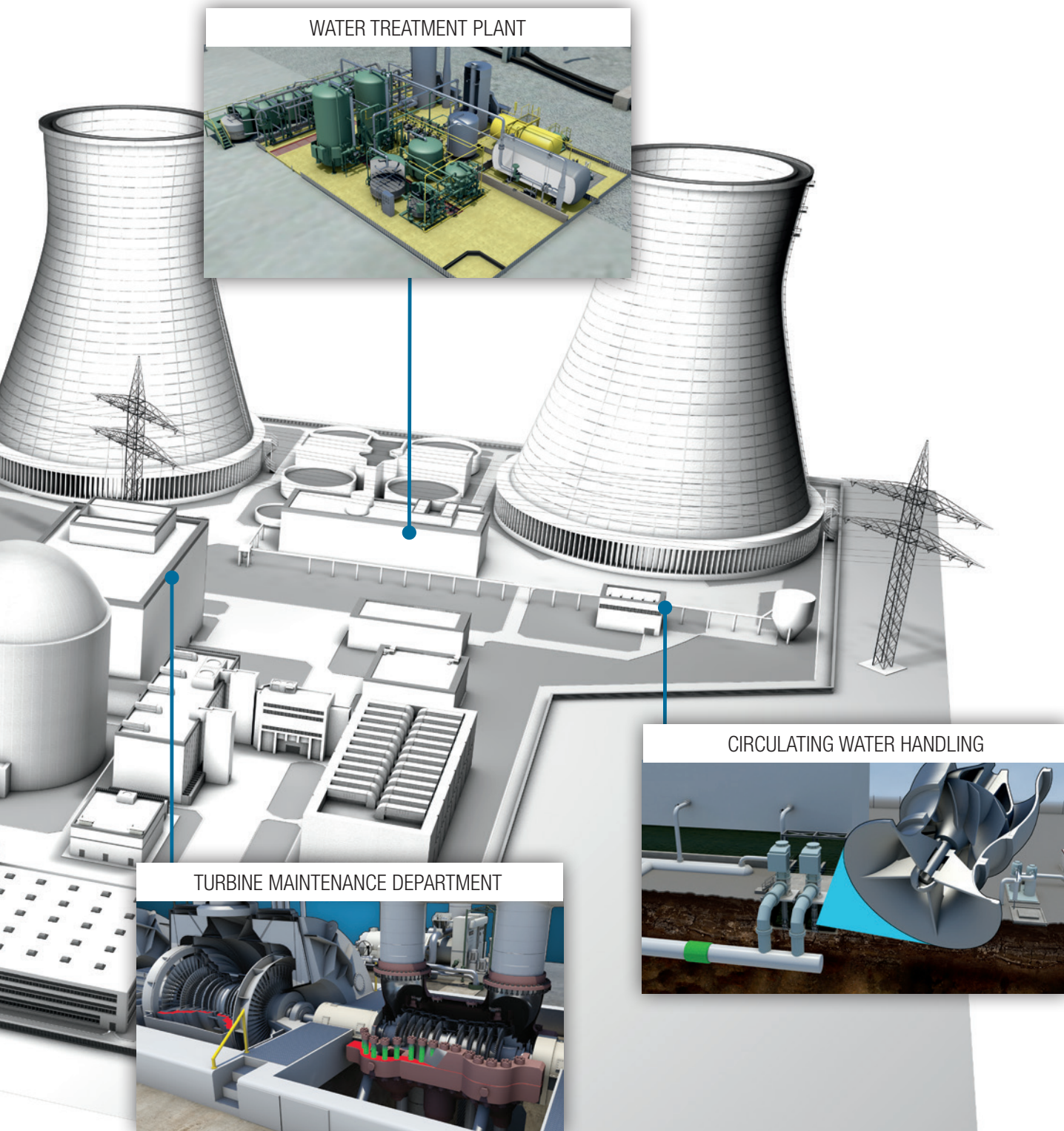
On-site, hands-on LOCTITE® Maintenance Workshops

INNOVATION

Solutions developed with our customers to help solve their toughest challenges

GLOBAL REACH

Our products and services are available worldwide



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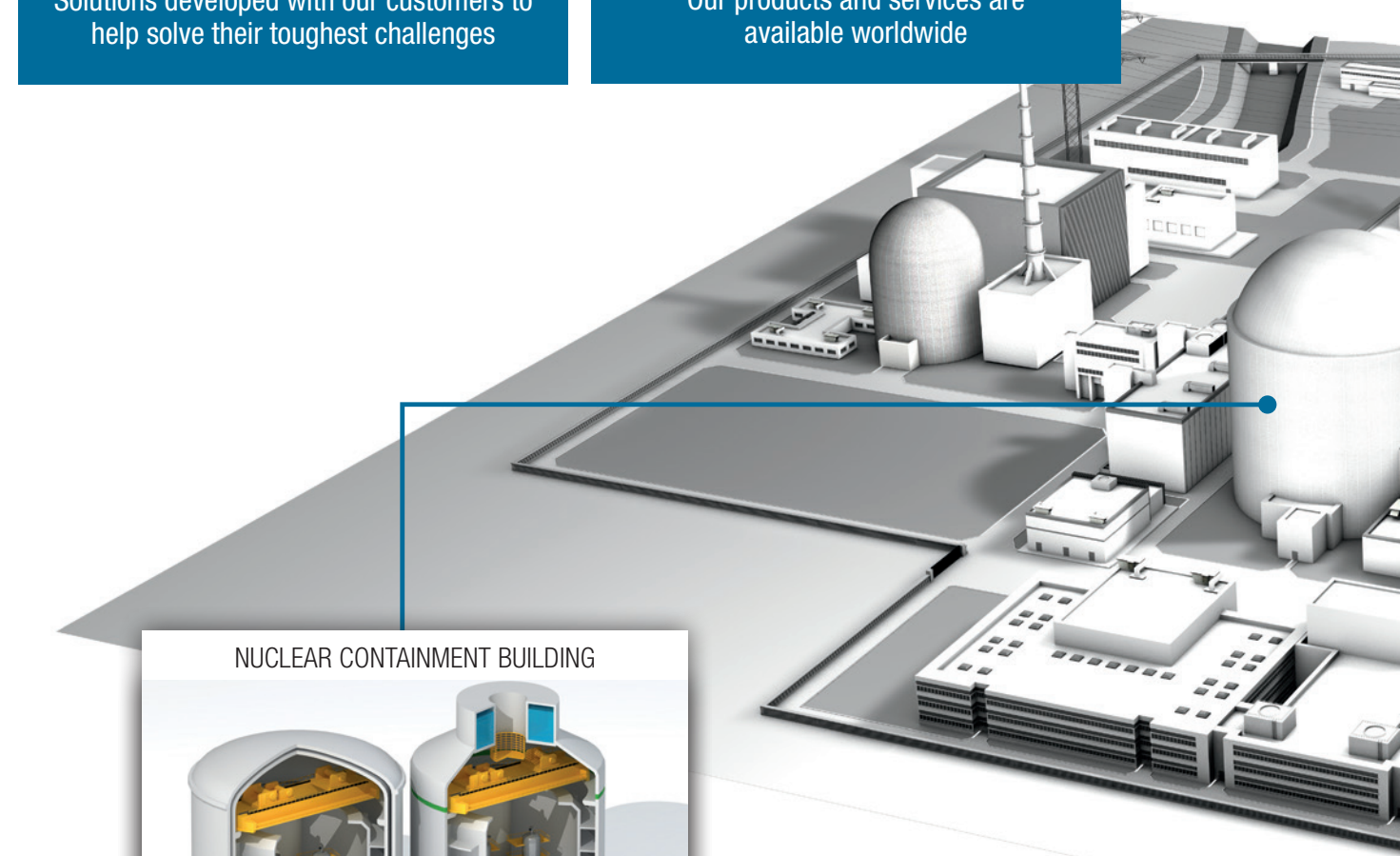
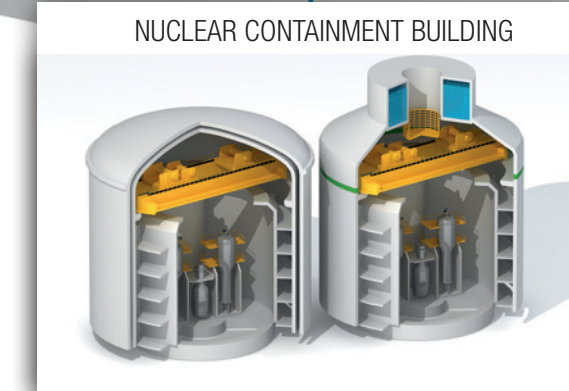
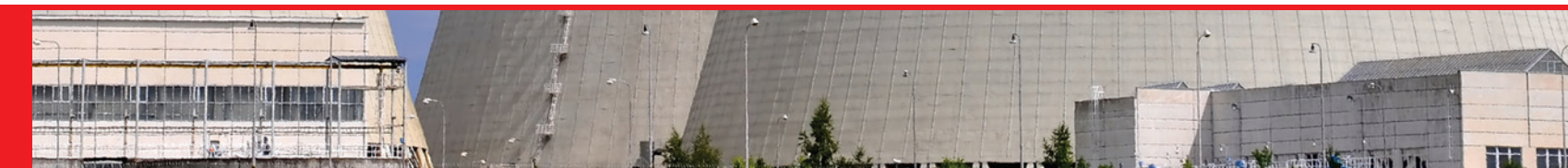
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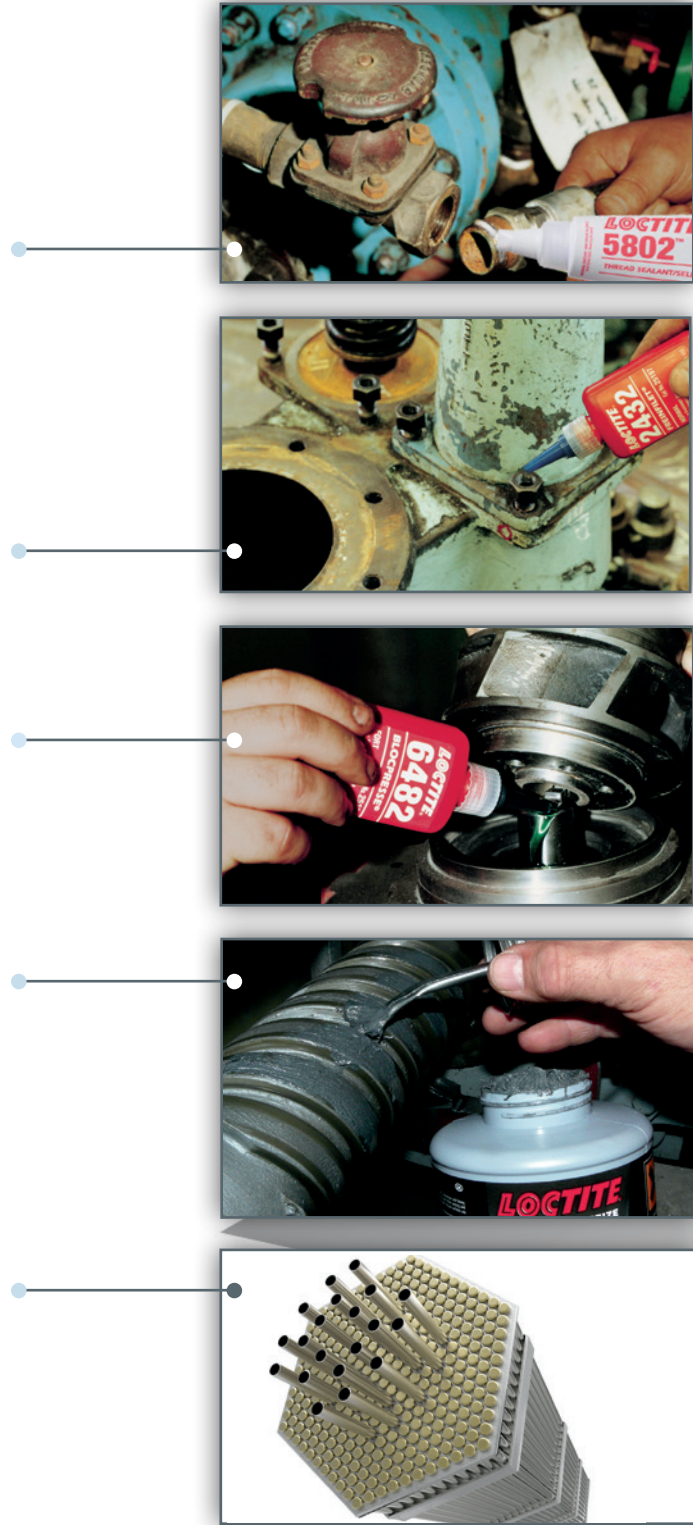
Henkel

Excellence is our Passion

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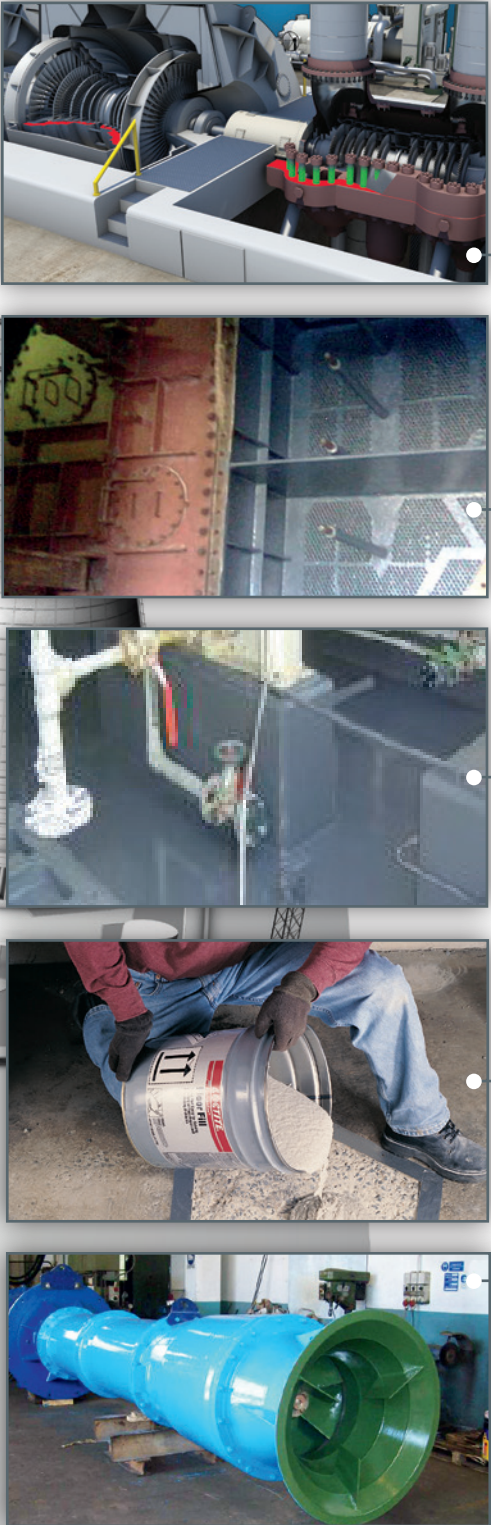
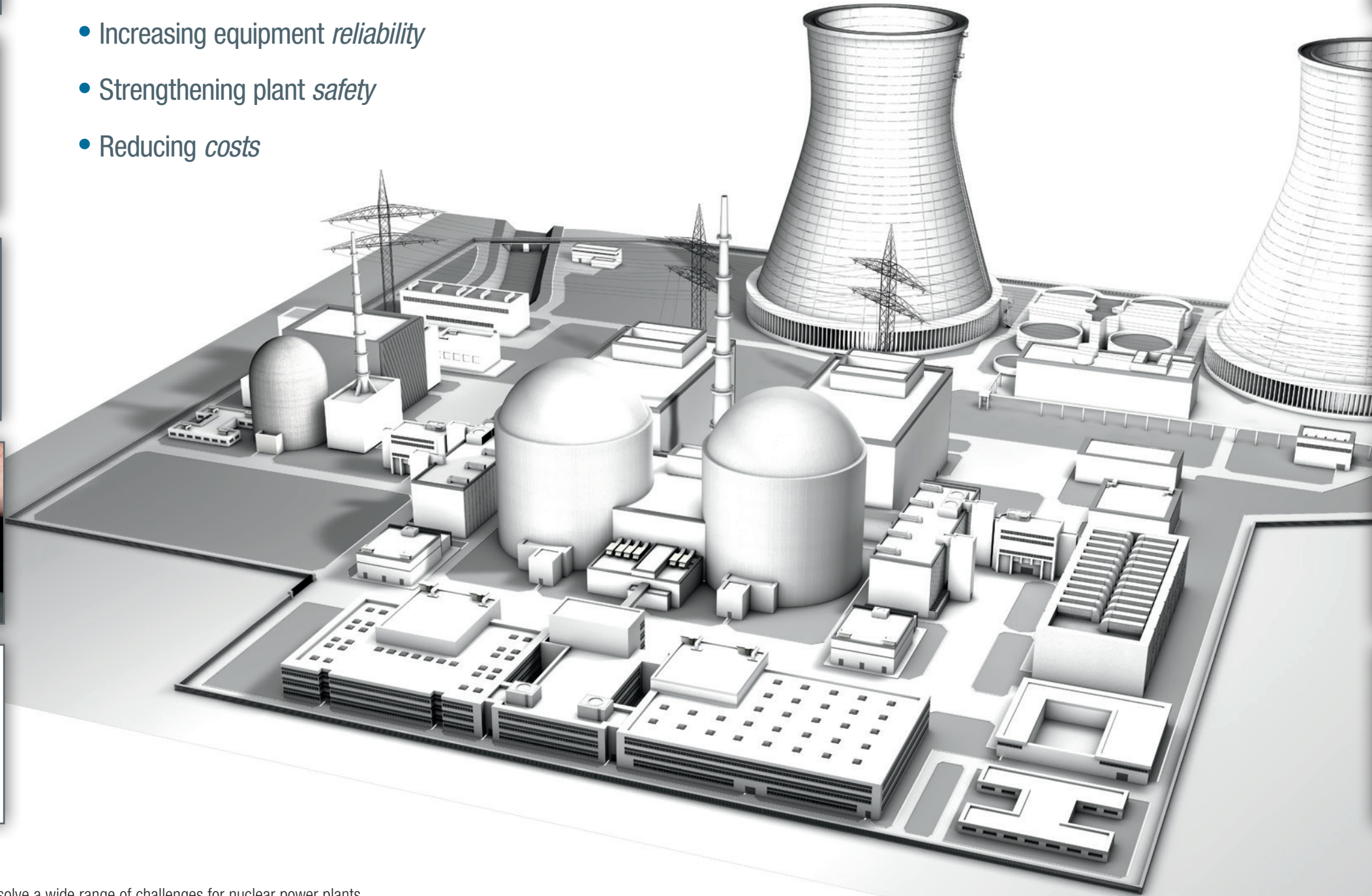


YOUR CHALLENGE	OUR SOLUTION	BENEFITS
NUCLEAR CONTAINMENT BUILDING		
PIPE SYSTEMS AND VALVES		
Leaks from threaded pipe joints and valves	LOCTITE® 5802™ Medium Strength Thread Sealant (Nuclear Grade)	• Improve plant <i>safety</i> • Increase <i>reliability</i>
REACTOR COOLANT PUMPS		
Loosening of threaded fasteners	LOCTITE® 2432™ Medium Strength Threadlocker (Nuclear Grade)	• Increase <i>reliability</i> • Decrease unscheduled downtime
Slippage of bearing on pump shafts	LOCTITE® 6482™ Retaining Compound (Nuclear Grade)	• Increase equipment <i>efficiency</i> • Increase <i>uptime</i>
REACTOR		
Seizing of gland studs on the top of a reactor	LOCTITE® N7000™ High Purity, Metal-Free Anti-Seize Lubricant (Nuclear Grade)	• No seizing - easy disassembly when needed • Avoids expensive process of bolt shearing/cutting
NUCLEAR REACTOR FUEL LOADING SYSTEM		
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)	• Extremely high <i>lubricity</i> • Excellent adhesion to most surfaces needing lubrication • Ease of application
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
TURBINE MAINTENANCE DEPARTMENT		
STEAM TURBINE		
Seizing of gland stud of man hole and hand hole cover plates	LOCTITE® 8013™ High Purity, Metal-Free Anti-Seize Lubricant	• No seizing - easy disassembly when needed • Avoids expensive process of bolt shearing/cutting
STEAM CONDENSER		
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	• Prevents corrosion and seals joints, reduces frequency of tube replacement • Improves efficiency of condenser and turbine
WATER TREATMENT PLANT		
DM PLANT VESSELS AND STRUCTURES		
Chemical corrosion damages containment vessels, concrete floor and drainage	LOCTITE® PC 7319™ NORDBAK® Chemical Resistant Coating	• Reliable protection against chemical attack • Cost savings due to reduced frequency of recoating • Extends asset life
CIRCULATING WATER HANDLING		
COOLING TOWER		
Spalling concrete	LOCTITE® PC 9416™ Floor Fill and LOCTITE® PC 9410™ Concrete Repair Material	• Reliable protection against chemical attack • Cost savings due to reduced frequency of recoating • Improves plant <i>safety</i>
CIRCULATING WATER PUMPS		
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	• Cost savings from improved pump efficiency • Faster payback period • Reduced wear extends part life

For additional product solutions or more information, contact your Henkel representative at 1-800-LOCTITE (562.8483), or visit 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.