

Don't Let Reactor Pump Face Seal Failure Cause Unplanned Shutdowns



AEGIS® Reactor Pump Protection Rings Prevent Electrostatic Face Seal Erosion

PROBLEM:

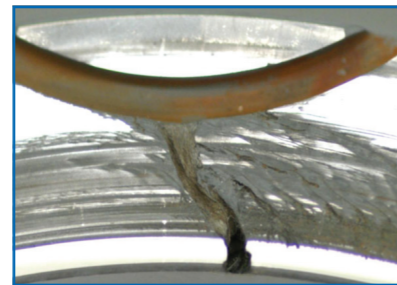
Stray voltages on cooling pump shafts can electrically damage reactor pump face seals, forcing unscheduled shutdowns.

SOLUTION:

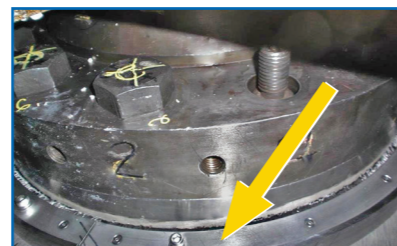
By safely channeling stray currents to ground, AEGIS® Reactor Pump Protection Rings (RPPR) prevent electrostatic erosion and electrochemical corrosion of face seals and help ensure that reactors stay up and running safely.

Installed at 7 nuclear plants in the United States and Europe, AEGIS® RPPR Rings have proved effective in protecting reactor pump face seals from electrostatic damage.

To download a white paper or to schedule a **Lunch & Learn** on the use of AEGIS® Rings to protect reactor pump face seals, visit: est-aegis.com/RPPR




Face seal damage (above) caused by electrostatic erosion. AEGIS® RPPR (below) installed on a reactor recirculating pump.




Download a Whitepaper:

Protecting Nuclear Reactor Cooling Pump Face Seals from Electrostatic Erosion and Electrochemical Corrosion



Overview

Mechanical end face seals for nuclear reactor recirculation pumps (RRP) and reactor coolant pumps (RCP) are critical components in preventing the escape of radiation from reactor primary cooling systems. But stray voltages can build up on RRP/RCP motor shafts and lead to currents which electrically erode face seals. The result is radial cracks along which an uncontrolled release of radioactive cooling water can occur, necessitating an unplanned shutdown. By providing a highly reliable electrical path from shaft to seal housing, specially designed AEGIS® Reactor Pump Protection Rings (RPPR) safely neutralize the electrical potential difference between the pump shaft and the seal housing, preventing harmful shaft voltages from causing electrical damage to face seals.



This white paper discusses how AEGIS® RPPR Rings safely neutralize the electrical potential difference between reactor coolant pump shafts and housings, preventing harmful shaft voltages from eroding and corroding face seals.

To download the white paper or an RPPR spec, visit: est-aegis.com/RPPR/spec



Schedule a Lunch & Learn:

Lunch & Learn

Learn more about how AEGIS® RPPR Rings protect reactor pump face seals from electro static erosion and corrosion by safely channeling stray currents away from the seals to ground and preventing unscheduled shutdowns.

To schedule a Lunch & Learn at your facility, visit: est-aegis.com/RPPR/train

