

**Customer:** Power Station

**Supervision:** Leszek Kupras - Chester Molecular – Łódź

**PROBLEM DESCRIPTION:** The surface of the journals  $\phi$  230 x 250 was damaged by corrosion (despite the protection of water access by the seal). These pins locate and regulate the position of the water damper flap.

**DESCRIPTION OF THE REPAIR:** In order to obtain a uniform journal diameter, a 1.5 mm thick metal layer was removed by machining. In order to obtain good adhesion of the regeneration layer, a coarse thread was cut. The surfaces were degreased with **Chester Fast Cleaner F-7**. **Chester Metal Super FE** was applied with an allowance above the nominal diameter during the rotation of the journals installed in the lathe. After the **Chester Metal Super FE** material had cured, a machining was performed to obtain the desired surface smoothness.

**ACHIEVED EFFECTS:** The repair time has been reduced. The use of **Chester Metal Super FE** has eliminated the use of welding methods in the regeneration of this type of journals.

**NOTES:** The described technology with the use of Chester Molecular materials has become applicable and typical for this type of parts in the plant.

