



POWER GENERATION | PETROCHEMICAL | ENVIRONMENTAL | PROCESS PLANT | WATER | OFFSHORE | NUCLEAR

SUPERHEATER OUTLET HEADERS P91 MATERIAL

LOCATION: Fossil Fuelled Power Station UK

TYPE: Superheater Outlet Z-Headers

2 No. Wing Headers

2 No. Centre Headers

APPLICATION: Heat-transfer for superheated steam generation

BOILER: Babcock & Wilcox

DATE OF MANUFACTURE: 2012

MANUFACTURING SPEC: BSEN 12952:2001

MANUFACTURING DURATION: 30 - 32 weeks

MATERIALS & DIMENSIONS: 362 mm o/d x 53mm thk – EN

102222-2 X10CrMoVNb9-1 – Header shell

460 mm o/d x 65mm thk – EN 102222-2 X10CrMoVNb9-1 – Header Shell

48.3 mm o/d x 8.0mm thk – EN 10216-2 TC2 X10CrMoVNb91 – Top Antler

48.3 mm o/d x 8.0mm thk – EN 10216-5 TC2 X6CRNIMO 17-13-2 – Bottom Antler

WELD PROCEDURES & PROCESSES: P91 to P91 – TIG, MMA
P91 to P22 – TIG, MMA, SAW
P91 to 316 – TIG

HEAT-TREATMENT: Full resistance heating, monitored & reordered

NON DESTRUCTIVE TESTING: 10% Radiography, 100% DPI / MPI, 100% U/T of Circ welds, 10% Borrow scope, 10% Hardness survey, 100% PMI

THIRD PARTY INSPECTOR: Royal & Sun Alliance

HYDRO-TEST: Full Hydraulic Test



REF NUMBER: EH0179