



REEKIE MACHINE (SALES)

INCHINNAN BUSINESS PARK
RENFREW, PA4 9RL

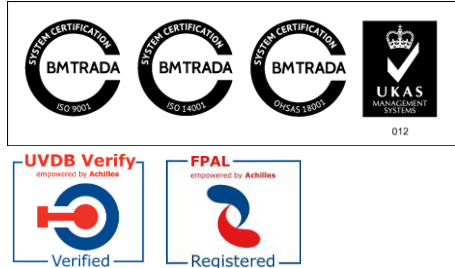
TELEPHONE: 0141 812 0411

FAX: 0141 812 0137

VAT No: GB263624264

email: info@reekiemachining.co.uk

web: www.reekiemachining.co.uk



Power Generation Capability Statement

We have been providing an insitu and sub contract machining service to the power generation industry since 1953. Our experienced operators and advanced machines can significantly reduce the amount of time required for onsite operations. No job is too large, small or technically challenging. We have a wealth of expertise on call 24 hours a day, 365 days a year. This documents sets out the majority of our Nuclear Power Generation capability and experience.

Typical Jobs

DRILLING, TAPPING & STUD REMOVAL

Stud removal (any size), guaranteed no damage to existing threads (the largest we have had to machine out were 6" Whitworth studs on the turbine casing at Longannet power station)

Tapping up to M100 / 4"

Single point thread turning up to 300mmØ Metric, UN, BS, Acme, other

Motor/pump mounting holes

Helicoiling valve bodies etc, any size

Heat exchanger facing

Tube removal and re-grooving

Material core samples

FACING & BORING

Turbine loop pipe flanges

NRV's

Valve bodies and bonnets

Process flanges

Drain valves

Safety valves

Desuperheater flanges

Valve seats re-profiled or removed

Header pipe penetrations bored

Turbine casings re-bored

HP Heater elliptical doors and housings machined

PIPE CUTTING & PREPPING

Turbine HP & IP loop pipes

Main steam stop valve removal

Make up pieces

Heavy wall pipe a speciality

Match boring

Weld Excavations

REEKIE MACHINING

SHAFT TURNING

Motor shaft
Gearbox shaft
Fan shaft turning

MILLING

Turbine half joints repaired
Motor/compressor mounting pads
Shaft keyway cutting

VALVE SEAT REMOVAL (inc steam chest seats)

Seats machined out
Repair locking ring thread
Re-machine valve body seating area

LASER ALIGNMENT

Flatness surveys
Shaft alignment
Pump bore alignment checks

Recent Outage Support

The following is a list of the outages where we have provided significant support during an outage over the past 10 years. We have worked both directly for EDF but also for the tier one contractors.

Year	Our Ref	Station	Customer	Main Contact
2018	SO8800	Dungeness	EDF	Ashraf Patel
2018	SO8638	Hinkley Point B	EDF	Steve Washer
2018	SO8688	Heysham 2	EDF	Dean Braithwait
2018	SO8511	Hartlepool	EDF	Joanne Addison
2017	SO8331	Hunterston	EDF TSG	Ashraf Patel
2016	SO7467	Hinkley Point B	Doosan	Jon Hinde
2016	SO7551	Hartlepool	EDF	Joanne Addison
2015	SO7284	Hunterston TG7	EDF TSG	Simon Clifford
2015	SO6931	Heysham 2 R7	EDF TSG	Sam Atkin
2015	SO6887	Hinkley Point B	Doosan	Jon Hinde
2014	SO6466	Dungness B	EDF TSG	Phil Mason
2013	SO6080	Heysham2	EDF TSG	Phil Mason
2013	SO5927	Sizewell B	Weir	John Mitchell
2012	SO5628	Hartlepool	EDF	James Cattell
2012	SO5282	Torness	EDF	Alastair Miller
2011	SO4798	Hunterston	EDF	Alan Chalmers
2011	SO4712	Hartlepool	Weirs	Craig Hutton
2011	SO4891	Hinkley Point B	Doosan	Chris Hoyland
2010	SO4323	Torness	Weir	Craig Huston
2009	SO3953	Hinkley Point B	Weirs	Craig Hutton
2009	SO3831	Hartlepool	Weirs	Craig Hutton
2009	SO3569	Torness R2	EDF	Drew HcHutchon

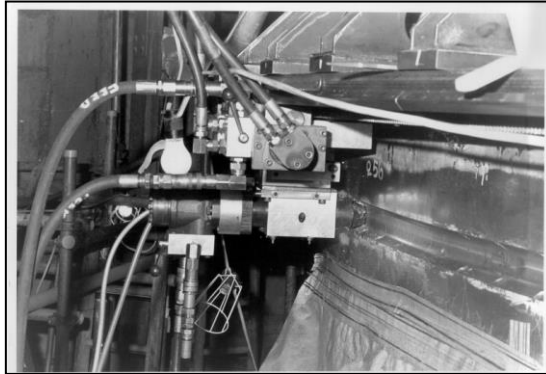
REEKIE MACHINING

Special Projects

We have a long history of providing critical specialist insitu machining projects to the power generation. The following is a list of some of the projects that we have been involved with.

1997 Sizewell, (R32697, Mitsui Babcock) MH32

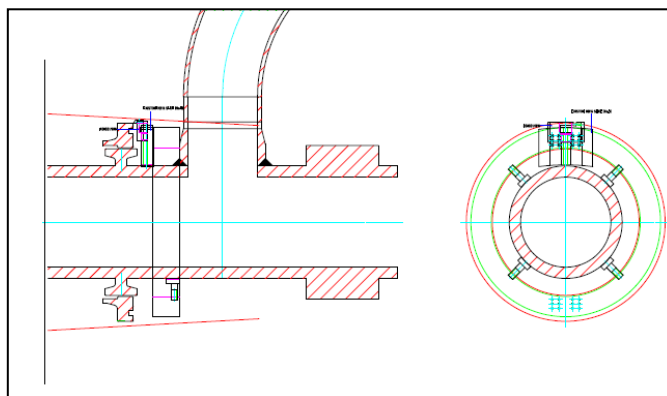
Machine out defect welds and create new weld preparations for circumferential welds of 22 ft 10.1/2", 6,972.3mm od x 2.1/4", 57.15mm wt boilers, equipment to be manhandled up stairs



2001 Wylfa Magnox Power Station, R08001 Mitsui Babcock

Superheater Outlet Headers. design, manufacture, test, prove the equipment on Reekie mock up, draft method statements, for

- A. machining the minimum from 1'4.1/2" (419.1mm) id x 1'10" (558.8mm) od flange face to clean up flat
- B. form a groove, 498.7/498.2 id x 529.4/528.9 od (15.6/15.1mm wide) 7.8/8.2 dp, R1min R1.5 max in corners, 1 x 45 degree chamfers, into flange face
- C. mark off, drill and tap a set of nineteen or twenty depending upon header, M16 holes x 22 minimum length of full form thread, into flange face
- D. standby at site awaiting further instructions
- E. one crew to travel to London to demonstrate NB24 and drilling equipment on mock up and machine, drill and tap the flange on the mock up fully iaw MBEL drg T/78620/026 machine 64 in number headers as above



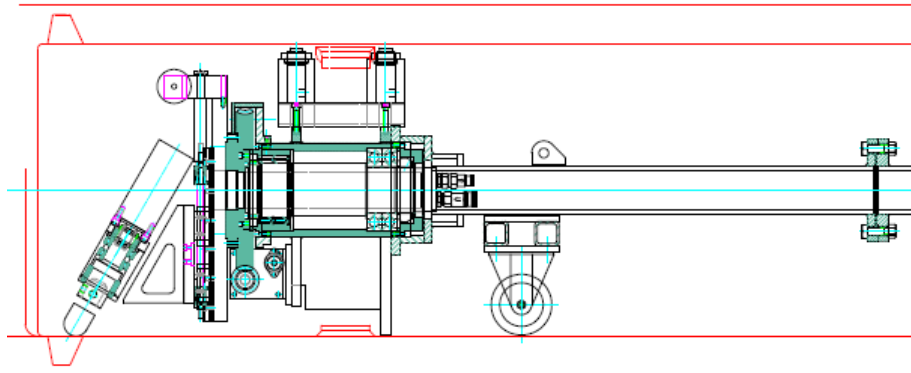
REEKIE MACHINING

2000 Dungeness B Power Station Super Heater Headers (Mitsui Babcock)

R00400 Excavation and generation of internal weld preparation

R08500 Parting off and weld prepping stub on tube sheet and cut end on header

R11200 Facing back tubes and machining tube sheet face, Machining of seal welded tube ends on 162 pcd post pwht of weld A and seal welds of other tubes, Machining of tube sheet stub post buttering, removal of backing ring, turning outside diameter and forming of R9 x 10 degree weld prep



2002 Torness (R05602 British Energy Generation (UK) Ltd)

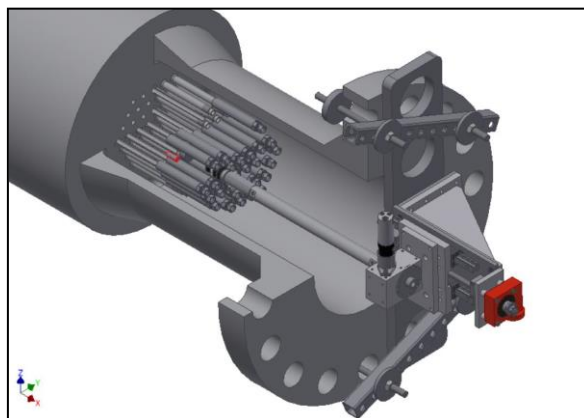
IFD2 bottling machine in Irradiated Fuel Disposal Cell 2 (highly radioactive) semi remotely bore out from $\varnothing 293$ to $\varnothing 307.5$ through 20 thk stst plate

2003 Torness SO 521-3 British Energy Generation (UK) Ltd)

Reactor R2 quadrant B for Bravo, Feed Penetration No 2B3B, tube No 40, orifice extension piece, cut approximately the 95mm stst length from tube

2004 Torness SO688 British Energy Generation (UK) Ltd)

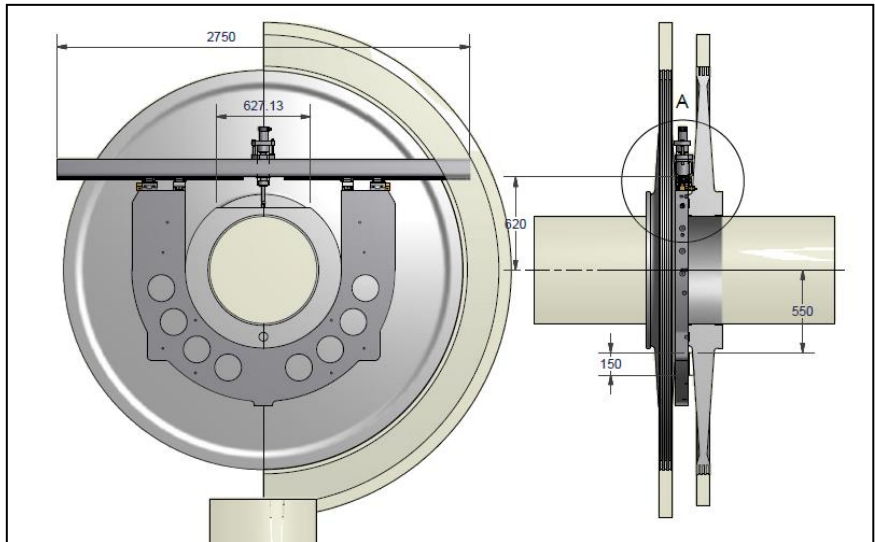
Prepared special insitu machining equipment for the work, machined to remove plugs from ends of a number 15.5 id x 22 od orifice extension pieces, parted off 95mm lengths of stst from a number orifice extension pieces, machined back 95mm length of stst from a number orifice extension pieces, threaded ends of 9% ch 1% moly FP/39 in a number orifice extension pieces to M22 x 1.5 p



REEKIE MACHINING

2005 Oldbury, SO1208, Mitsui Babcock

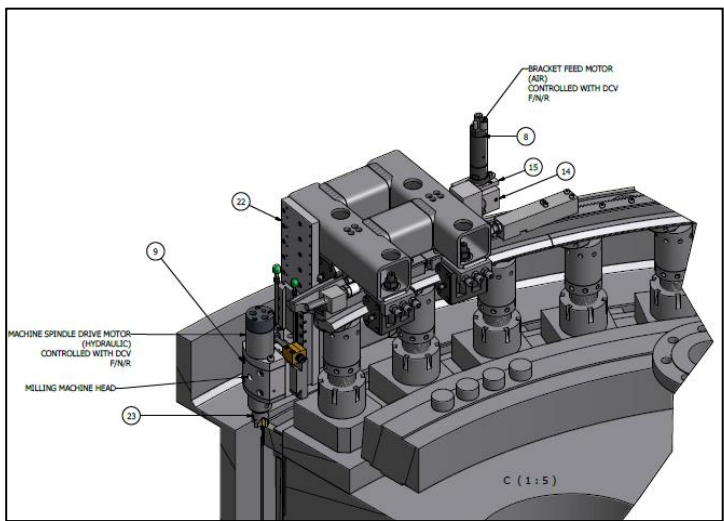
Machining out of cracks from LP turbine hub (reaching down 1302mm through 120mm wide gap to machine three 24.74 mm wide x 139.77mm deep x 627 long chordal slots at 120 degrees and gun drilling and hole sawing to obtain samples



2008 Heysham and Hartlepool. SO2983 Doosan Babcock

BCU Boiler Closure Units, 8 per reactor, two reactors per nuclear power station, two nuclear power stations, Heysham 1 and Hartlepool

Top of boiler closure units are approx 1,423mm, 4'8" down from charge hall floor ? inside Ø3,518mm, 11'6.1/2" dia open "pit", a cat 2 confined space, most of space within Ø2,286 mm, 90" occupied by nine inlet and outlet pipes to boiler which will not be cut, 73mm, 2.7/8" nominally wide gap between od of boiler closure and MS boiler liner will be filled with FME (foreign material exclusion protection), job is to remove outer 38.1mm width of 1/4" thick top ring, ferrite (closure) (top ring



REEKIE MACHINING

2010 Sizewell B (SO4105 Doosan Babcock)

Water Pressure Vessel, heater tubes, core drilling to remove approx 100mm length of 9/16" id x 27/32" od stst heater sheath No 70 in mock up and then if required on pressuriser.

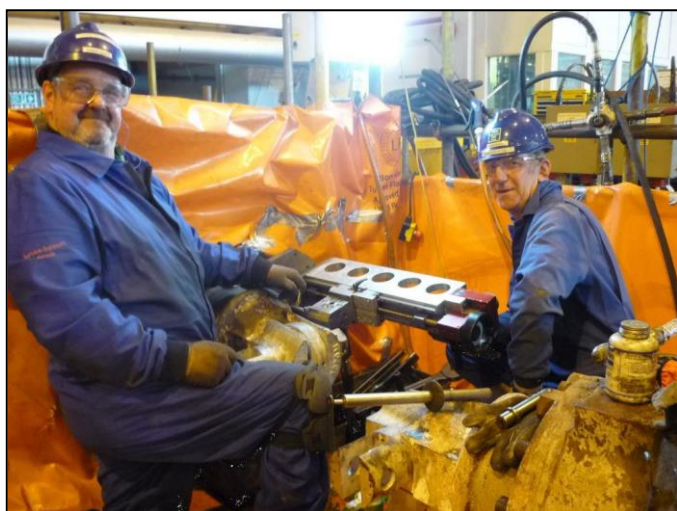
2011 Sizewell B (SO4774 Doosan Babcock)

Replacement of heating elements in Pressuriser Removal of heater, Cleaning out bore of heater well insert, inserting new heater in place and welding to insert, If required drilling out of heater element



2013 SO6080 Heysham Steam Chest Restraint studs

Heysham 2 Unit 8 Outage, Steam Chest Support Fasteners, Machine out up to 96 off 1.5" BSF studs through mating flange



REEKIE MACHINING

2014 SO6597 Cottam Dave Cook

Cottam Unit 2 Turbine No.1 & No.2 throttle valve seat replacements x 2



2014 SO6453 Heysham 1 A, 1D1 Boiler Spine Event Recovery,

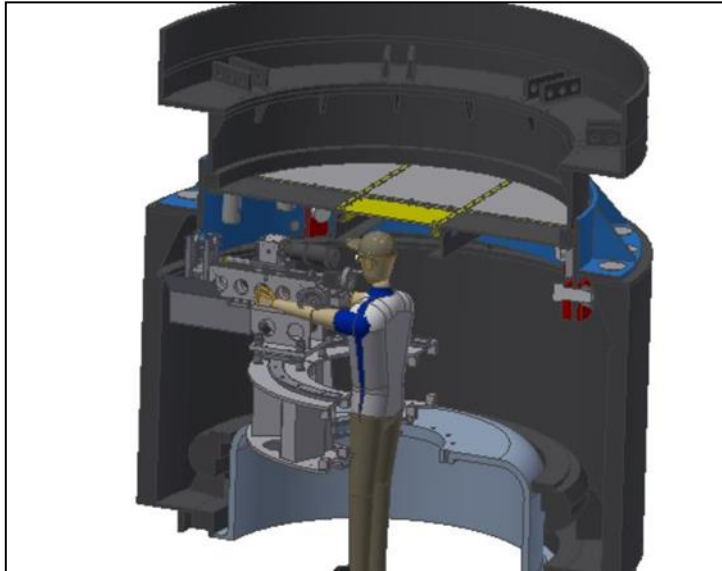
Two sets of remotely controlled insitu machining equipment to machine T shaped doorway through 603 od x 22.5 wt stst shroud, c/l vertical



REEKIE MACHINING

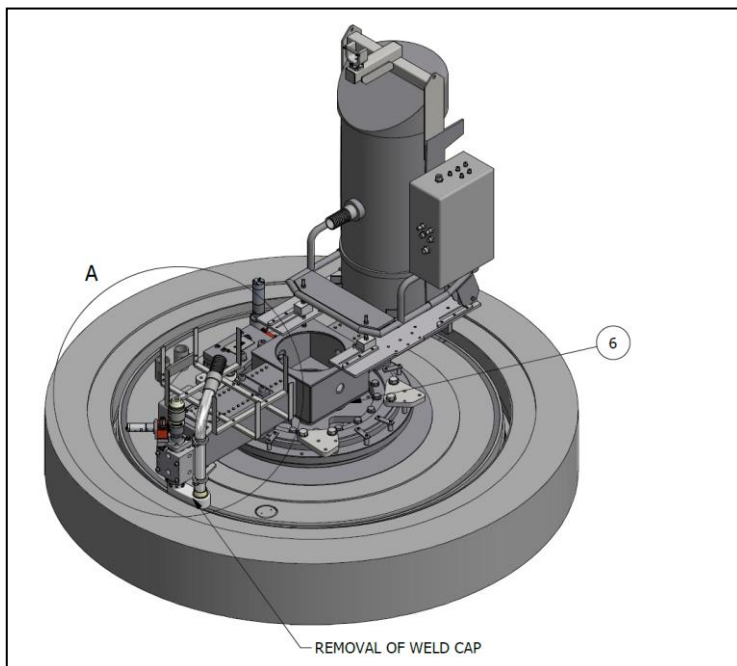
2014 SO6572 Heysham 1, 101072 HYA Spine Restraint System

Develop solution for machining hole features into boiler spline to take restraint bolts



2014 Sizewell B DFS MPC LTSW Machine (SO5914 Doosan Babcock)

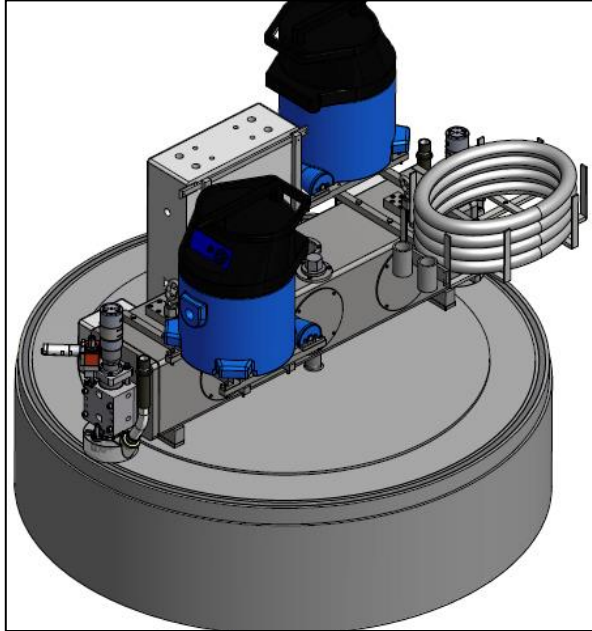
Design and supply DFS MPC lid to shell weld cap removal



REEKIE MACHINING

2016 Sizewell (SO7742 EDF), DFS MPC Vent and drain spot facing machine

Design and supply machining equipment to permit O ring to seal around periphery of seal weld (in way of step between lid to shell weld Reekie machined surface and 53" (1345.2mm) id x 1643 mm od face



2016 Sizewell B (SO7956 Doosan Babcock), hire of Reekie operators to machine DFS MCP LTSW and V&D spot faces

2017 Sizewell B (SO8476 Doosan Babcock)

Steam Generator channel head drain leak investigation and rehabilitation, machine out defective welds and form new weld preps

