



**Eastham
Engineering**

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Sam is an apprentice trained and experienced gas turbine commissioning engineer with 15+ years of extensive hands-on experience in field engineering – leading the construction, commissioning, repair or maintenance of a variety of steam, generators, and gas turbines from GE, ALSTOM, ABB, and other OEMs. He has specific Experience with General Electric frame 9HA.01 & 9HA.02, 9FA & 6FA & Alstom GT13 & GT26 industrial Gas Turbines Rolls Royce and Pratt & Witney jet engines, and RT, MT & D&G-Series Steam Turbines, and has worked on turbomachinery in several countries to date. Has extensive experience of damage/repair assessments, technical reporting and project scheduling specifically for gas and steam turbine installation, repair and overhauls.

Employment History

October 2021 to Present: Consulting Engineer, Eastham Engineering

Sam started working with Eastham Engineering in 2021 and his site experience and knowledge of faults in gas and steam turbines has proved invaluable in evaluating what damage or repairs are or are not related to a specific machine failure, and issues in machines that might not be immediately apparent those less familiar with turbomachinery. Sam will provide engineering advice to Loss Adjusters and Insurers in relation to extent of damage and possible repairs, cause investigation and claims adjustment for claims involving rotating machinery in the power generation equipment, petrochemical and similar industries. He can also provide repair monitoring services to assist in avoiding further failures during repair work, and to check what work is actually related to damage repairs. Sam is based in Bali and serves the Asia Pacific region.

STEAM TURBINE CONSULTANT

January 2021 – Present

ROTEK POWER SERVICES

- Conducting steam turbine assessments/inspection, outage planning and execution for various clients across the APAC region this includes;
- Technical supervision and quality control checks on major overhaul of two 400MW Harbin Electric steam turbine and generators, realignment of the entire shaft train, bearing replacement, valve honing and calibration, machining of valve chest and replacement of damaged valve stems and bushes. Implemented a quality control package for alignments and other checks.
- Overhaul and repair of HP turbine casing leakage on a Siemens SST-900 steam turbine, this included detailed report writing and issuance of memorandums to customer to install flange leak off lines to the

gland steam condenser.

- Major valve overhaul for GE G3 steam turbine including unexpected MCV seat change and machining works.
- BG0 blade row and NI alloy seal replacement on 3x GE D652 Steam Turbine units & journal repair for GE 9HA.02 Gas Turbine.
- Planning and scheduling for a rotor and steam path replacement and modification program on a Fuji steam turbine - this will involve replacement of entire steam path over a 3 year period and will involve major site machining works.
- Writing overhaul procedures and policy documents for the steam turbine fleet of a major regional power producer.
- Performing site inspections and compiling reports for insurance adjustor and assisting principal insurers' engineers in analysing loss claims and reviewing the insured party documents.

STEAM TURBINE SPECIALIST & OUTAGE MANAGER

June 2019 – January 2021

ABOITIZ POWER

- Directing repair activities for a forced outage due to bearing failure on a Fuji Electric 150 MW Steam Turbine.
- Leading the Root Cause Analysis into the failure, onsite and offsite investigation. Material analysis, reviewing operation trends
- Assisting the supply chain for tendering, contracting & managing the contract throughout the repair and return to service.
- Extensive rotor submerged arc-welding, blade replacement, reverse engineering, seal installation, VTL and line borers.
- Investigation into bearing pedestal tilting using photogrammetry and thermal imaging to discover turbine insulation errors.
- Pipe stress analysis, interpretation of data and execution of rectification works on GE, Harbin, Alstom, MHPS & Fuji Turbines.
- Issuing technical reports, technical memos, producing corporate policy documents for the power plants in the Aboitiz fleet.
- Leading technical discussions with major stakeholders including; insurance, executives, OEM and vendors.
- Material analysis, welding reviews, including qualifying weld procedures to be used on the steam turbine and piping.
- Investigating other operation and maintenance issues relating to the water steam cycle and hot and cold commissioning.
- Training the local operation and maintenance staff in the correct procedures for turbine, rotating assets and auxiliary systems.

LEAD TECHNICAL ADVISOR & FIELD ENGINEER

November 2016 – June 2019

GE POWER

- Leading a team of engineers and craft labour to conduct overhaul, repair installation and retrofit of various power projects across the Middle East, North Africa and South East Asia.
- Working on Steam Turbine, Gas Turbine and Generator from Alstom legacy and GE legacy design
- Large site repair projects involving lathe, line borer with seal and blade changes.
- On-site welding due to oil system failure of Gas Turbine and Generator
- Creating repair plans and schedules along with final report writing for customer records.
- Installation and major repair of GE 9HA.01 Gas Turbine

LEAD TECHNICAL FIELD ADVISOR

May 2015 - November 2016

ALSTOM Power (Russia)

- Led the site construction of Alstom DKZE1-1N33 Steam Turbines x3 and TA30-105L Generators, condensers and district heating system.
- Ensured that the EPC followed procedure and Inspection and test plan. Turn Over the units to commissioning team.
- Managing all aspects of the construction mechanical works which included contract and parts management.

FIELD SERVICE ENGINEER

February 2011 – May 2015

ALSTOM POWER (UK)

- Conducted detailed inspection of nuclear, coal, combined cycle plants – steam & gas turbines for the OEM (Alstom Power) – UK Based
- Inspected and worked on ABB/BBC single shaft and multi-shaft steam turbine arrangements with fluid SSS clutch. This also included GT13E2 and GT26 MXL upgrades

MECHANICAL FIELD SERVICE TECHNICIAN

February 2010 – February 2011

Turbine Services Limited

- Performed Major Overhauls on GE frame 6B, 6FA, 9FA, 9H, 9E 9EC Gas Turbines along with Brush and Alstom Generators.
- Led the removal/installation of transition pieces and alignments of couplings river hawk bolts, combustion cans, and nozzles.

MECHANICAL FIELD SERVICE TECHNICIAN

February 2004 – 2010

Jet Aviation / Lufthansa (Basel, Switzerland)

- Aircraft Engineering Apprenticeship that involved learning about all aspects of aircraft; airframe, engine, flight control and avionics systems.
- Performed maintenance inspections of Rolls Royce and Pratt & Whitney engines in the workshop.

Qualifications

North Lindsey Technical College

HND (Higher National Diploma) - Mechanical Engineering

England, UK

2009 – 2011

North Nottinghamshire College

BTEC National Diploma – Level 3 in Mechanical Engineering

NVQ – Level 2 in Performing Engineering Operations

NVQ – Level 3 in Engineering Maintenance

Advanced Apprenticeship in Engineering Level 3

England, UK

2004 – 2006