



Consulting Engineer: Arthur Carlisle BSc(Hons) CEng MIMechE

- Project Management
- Construction
- Operations Management
- Staff Development and Training
- Power Generation
- Biomass and Renewables
- Rotating Machinery
- Turbines, Compressors, Reciprocating Engines
- Electrical Networks and Switchgear
- Transformers
- Pumps and Pipelines
- Safety Systems and Environmental Compliance



Wind Farm HV Substation, Canada

ROOT CAUSE INVESTIGATIONS

I have carried out many root cause investigations into major failures, accidents, reduced life cycle and premature end-of-life of equipment. I undertake physical examinations of plant, collect evidence, interview plant staff and witnesses to the event.

I have participated in and led multi-disciplinary teams in conducting theoretical and laboratory analysis into failure events.

On completion of my investigations and analysis, I issue my Report giving details of the incident with my findings and opinions.

FAILURE INVESTIGATIONS

- Gas Explosion Engine Failure, UK (2018/19)
- Compressor Vibrations, Malaysia (2018)
- Compressor and Pipework Vibrations, UK (2018)
- Off-shore Platform Air-Cooled Radiators, Australia (2017)
- Rock Crusher Failure, UK (2016)
- Turbine Blade Failures, Gas Turbine, UK (2016)
- Transformer Failure, Spain (2015)
- Tank Failures, UK (2014/15)
- Steam Turbine Failures, UAE (2014/15)
- Wind Turbine Failure, US (2012)



Construction of Tank Farm, Haiti

AIC CONSULTING ENGINEERS

We provide Engineering Consulting Services and Support to the Insurance and Legal Industries on matters relating to all types of power generation, construction, heavy industry and maintenance facilities, and act as Expert Witness in Arbitrations and Legal Proceedings.



Wind Turbine Failure, U.K.

BACKGROUND

I am a Chartered Mechanical Engineer with more than 30 years' experience and have held senior positions in international locations.

My work experience includes major Coal, Oil and Gas Fired Power Plants, Chemical Plants, Repair and Maintenance Facilities, and Renewable Energy Facilities, including Wind, Solar and Biomass.

I have carried out numerous investigations across the globe.

INTERNATIONAL APPOINTMENTS

- Chief Technical Officer, HFO Fired Power Station, Caribbean
- Project Manager, HFO Fired Power Generating Plant, Haiti
- Project Manager and Owner's Engineer, Renewable Energy Cogeneration Power Station, Central America
- Plant Manager, Methanol Plant, Nigeria
- Operations Manager, Coal-fired Power Station, South Africa

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Turbine Failure, Trinidad

PROJECT DEVELOPMENT AND EXECUTION

- Engineering and planning of new facilities
- Development of bids
- Contract negotiations for procurement and construction
- Project management
- Cost estimation and control
- Scheduling and quality control



Construction of Gas Cleaning Equipment, C.A.

PROFESSIONAL

Expertise in all aspects of Project Development, including Conceptual Engineering and Costing, Contracting, Engineering Design, Procurement, Construction, Start-up, Testing, Commissioning and Placement into commercial operation.

I have conducted numerous investigations in foreign countries and adapt easily to local conditions and customs.



Crank Shaft Removal from Large Diesel Engine, Caribbean



Solar Park, Thailand

WORK EXPERIENCE

I have worked on all types of plant and equipment, including Rotating Machinery, Diesel engines and Generators, Gas Fired Engines, Boilers, Transformers, Electrical Networks, Gas Turbines, Steam Turbines and Steam Systems, Wind Turbines and Solar Farms, Compressors, Pumps and Pumping Systems, Heat Exchangers, Fuel Preparation and Storage, and Materials Handling.

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