## Gas Turbine HAZOP & LOPA

HAZOP for Horizon Power's open cycle gas turbine powered station, to be installed close to Port Headland, Australia. The plant will consist of 4 dual fuel GE TM2500 transportable Gas Turbine Generator (GTG) units, to deliver 60 MW power at the extreme ambient conditions of the location. Future expansion is planned up to 100 MW, therefore, all balance of plant is being designed for the future capacity in Stage 1 of the development. The scope also included the demineralised water plant and other balance of plant items.

HAZOP and LOPA for Rio Tinto's combined cycle power station at Cape Lambert in the Pilbara region of Australia. The project is installing 2 dual fuel GE LM6000 Gas Turbine Generating (GTG) units, with air inlet chilling, 2 supplementary fired Once Through Steam Generators (OTSG), a Steam Turbine Generator (STG), an Air Cooled Condenser (ACC) and associated balance of plant.

Independent Chairman for the LOPA of modifications to the Burner Management System (BMS) of 4 Frame 6 GE gas turbine generators, 2 open cycle trains and 2 combined cycle with Heat Recovery Steam Generation (HRSG) for Territory Generation, at their Channel Island site near Darwin.

Independent Chairman for the HAZOP and LOPA of modifications to the BMS of a GE LM6000 gas turbine generator for Territory Generation, at their Channel Island site near Darwin.

Independent Chairman for the LOPA of the Burner Management System (BMS) of Alinta Energy's cogeneration Heat Recovery Steam Generator (HRSG) at Alcoa's Pinjarra refinery, Western Australia

Independent Chairman for the LOPA of a Saturn 20 gas turbine driver for the Morney Tank Compressor Station for APA Group, Queensland, Australia.

Facilitation of HAZID for the air intake redesign for an RB211 gas turbine generator on Woodside's Goodwin A platform.

Coarse HAZOP for proposed modifications to a mixed refrigeration cooling system at Woodside's Pluto facility. The proposed modifications will enable the inlet air to a gas turbine unit to be chilled to maximize output.


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