ENGINEERED SOLUTIONS FOR THE POWER INDUSTRY

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OUR EXPERIENCE

BALTEC INLET & EXHAUST SYSTEMS (BALTEC IES) WAS FORMED IN AUSTRALIA IN 1987, WITH THE GOAL OF PROVIDING QUALITY GAS TURBINE INLET, EXHAUST AND COOLING SYSTEMS TO THE POWER GENERATION INDUSTRY.

BALTEC IES HAS PROGRESSIVELY EXPANDED ITS OPERATIONS OVER THE PAST 20 YEARS AND NOW BOASTS STRATEGIC ALLIANCES WITH A NUMBER OF COMPANIES WORLDWIDE.

Baltec IES offices are located in the Middle East, Asia, Europe, South and North America, allowing each project to draw upon our specialist resources from around the world. Our international offices are co-ordinated from our head office in Melbourne, Australia.

All projects are managed from the initial stages through to practical completion; from design and drafting through to manufacturing, testing, delivery and site erection. Our Project Management is complemented by a broad manufacturing experience that extends into 18 countries throughout Asia, Europe, Latin America and the Middle East. Baltec IES has designed and manufactured Inlet Filter Houses, Exhaust Systems and other associated components, including Cooling Systems, for machines ranging in size from GT10 (23MW) to V94.3 (283MW).

Great pride is taken both in the quality of our products and in the long-term relationships developed with our clients over an extended period of time, as proven by regular repeat business.

To support our commitment to quality, Baltec IES` manufacturing processes comply with international standard ISO9001:2008.

BYPASS EXHAUST

EQUIPMENT

COMPLETE BYPASS EXHAUST SYSTEMS

Baltec IES has the expertise and engineering capability to design and produce complete Gas Turbine Bypass Exhaust System packages. These are a critical element in any Combined Cycle Power Plant as they allow modulation of the exhaust gas flowing from the Turbine through to the HRSG.

This is particularly important during plant start-up and transient operating conditions. Our Bypass Exhaust Systems can also provide safe isolation, allowing the flexibility of continued Simple Cycle Gas Turbine operation during periods of HRSG maintenance.



ENGINEERING SERVICES

Baltec IES provides our clients around the world with a complete range of Engineering Services covering a broad spectrum of Gas Turbine ancillary equipment.

The services also include the management of Gas Turbine installation and modernization projects, and the servicing of control systems & components.

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DIVERTER DAMPERS

A Diverter Damper is essentially a large modulating valve and is an important component of the Bypass Exhaust System. Baltec IES can customise and manufacture Diverter Dampers to suit virtually any size Gas Turbine.

All Baltec IES Diverter Dampers utilise an automated Seal Air System to guarantee 100% sealing efficiency, are available with the choice of either electric or hydraulic drive and are supplied complete with a Local Control Panel which also provides an interface to the Plant DCS for full remote operation.





GUILLOTINE DAMPERS

A Guillotine Damper is used whenever secondary isolation of the HRSG ducting is required during maintenance works, and is fitted downstream of the Diverter Damper in a typical Bypass Exhaust System. Baltec IES can provide Guillotine Dampers with either electric or manual operation and the option of providing a Seal Air System independent to that of the Diverter Damper. Custom-designed Guillotine Dampers can also be supplied for many industrial processes other than isolation of Gas Turbine Exhausts.

EXPANSION JOINTS

Baltec IES ` Expansion Joints are designed to provide a point of flexibility in the Exhaust System, thereby preventing stresses that could be caused by thermal expansion or other system movement. The Expansion Joints supplied by Baltec IES are available for any duct size and any connection type (either hot flange, cold flange, welded or bolted).





SILENCERS

Baltec IES typically undertakes an extensive Acoustic Analysis on each project. If necessary, Exhaust Silencers are custom-designed to ensure the customer`s requirements are met in terms of both near field and far field noise levels, whilst at the same time providing maximum efficiency from the Gas Turbine. The Exhaust Silencers can be provided as either horizontal flow or vertical flow types, depending on the geometry of the other Bypass Exhaust System components and/or client preference. As with our Exhaust Silencers, Baltec IES can custom design integrated Inlet Silencers to suit the noise requirements set forth by the customer.

OTHER GAS TURBINE

EQUIPMENT

FILTER HOUSES

Baltec IES designs and manufactures both Static and Pulsetype Filter Houses for a wide variety of Gas Turbines, together with the necessary Connecting Ductwork, Support Structures, Control Systems and other associated components.

FOGGING

Baltec IES` Fogging Systems are an extremely effective yet low-cost option for increasing the MW output of the Gas Turbine. The system works by injecting an atomised water mist into the inlet ductwork upstream of the turbine compressor. The water mist instantly evaporates, thereby cooling the intake air and increasing the air mass flow rate entering the Turbine. A major advantage of Fogging Systems is the short installation period – less than one week of turbine shutdown would be required to install a typical system.

EVAPORATIVE COOLING & CHILLER SYSTEMS

Evaporative Cooling works by drawing the Turbine inlet air





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BUTTERFLY, LOUVRE & SICKLE DAMPERS

Baltec IES can design and supply a wide range of cost-effective Butterfly, Louvre and Sickle Dampers as used in a variety of industries and applications including Gas Turbine / HRSG and FGD Plants.



TYPICAL COMBINED CYCLE SYSTEM



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