

LAT214EC

Freeport LNG/Quintana Island LNG Terminal



In 2009, L.A. Turbine shipped and commissioned a Turboexpander-Compressor package for the **Freeport LNG-Quintana Island LNG Terminal**. The **Turboexpander-Compressor package** is used for the Boil-off Gas (BOG) Re-liquefaction Process which converts the gas back into a liquid form where it is retained within the terminal's LNG processing and storage system under cryogenic conditions.

The Turboexpander-Compressor Package consists of two (2) Turboexpander-Compressor Units which operate in series with a common Lube Oil and Seal Gas System on one (1) single skid structure. Through the highly-efficient turboexpanders, not only is a lower expander discharge temperature achieved, but energy savings are also realized because fewer compressors are needed.

Key operational features of the turboexpander-compressor package include:

	High Pressure Unit (1st stage)	Low Pressure Unit (2nd stage)
Expander Pressure Ratio	5 : 1	6 : 1
Flow Rate	23 MMSCFD	23 MMSCFD
Expander Power	760 HP	690 HP
Expander Delta T	150 °F	113 °F
Compressor Pressure Ratio	1.6 : 1	1.6 : 1



The Turboexpander Company

Celebrating 10+ Years of Turboexpander Design and Service



Headquarters
Valencia, California

L.A. Turbine designs and manufactures application-specific, highly-engineered turboexpanders used in hydrocarbon processing, geothermal power generation and other industrial power-recovery applications. The company is also a recognized leader in aftermarket repair, redesign, maintenance and spare part production for all makes and models of turboexpanders worldwide.

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A global field service team provides commissioning, maintenance and emergency support 24/7/365. The company's client list and global reach extends to five continents including new equipment installations in Russia and Iraq.

L.A. Turbine is the provider of all engineering design, manufacturing and testing services from concept-to-commissioning on new equipment sales and, when client situations allow, a comprehensive solution-based approach is also taken with aftermarket equipment repair, redesign and servicing.

L.A. Turbine's global headquarters are located in Valencia, California with sales and service facilities in both Valencia and Houston. In addition to addressing the North American market, U.S. staff supports the needs of Canada, South America, Asia and Australia. European headquarters in Belgium serve Europe, Middle East and Africa.

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