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Media Release of May 14, 2008 / Page 1 of 2

## **First Laby<sup>®</sup>-GI order for FSRU Project in Dubai**

**Burckhardt Compression will deliver the first Laby<sup>®</sup>-GI compressor for a floating storage and regasification unit in Dubai and achieves herewith the first milestone in setting-up a compressor business for energy efficient, environment friendly propulsion systems for diesel engines.**

Burckhardt Compression recorded the first order from Golar LNG Limited for a Laby<sup>®</sup>-GI compressor which will be used as a BOG (boil-off gas) compressor on a floating storage and regasification unit (FSRU) in Dubai.

The Laby<sup>®</sup>-GI has a unique labyrinth sealing system on piston and piston rod gland that allows oil-free and contact-free compression. The Laby<sup>®</sup>-GI compressor easily manages the compression of LNG BOG at suction temperatures down to minus 170°C (minus 250 F). The gastight compressor housing eliminates gas emission and losses to the environment.

Delivery of the Laby<sup>®</sup>-GI will take place in the 3<sup>rd</sup> quarter of 2009 and commissioning in the beginning of 2010.

The "Golar Freeze", today used as an LNG carrier, will be converted to an FSRU, which will be capable of storing ~125,000 m<sup>3</sup> of LNG and delivering up to 480 MCFD (million cubic feet per day) of regasified LNG to DUSUP (Dubai Supply Authority) for further delivery into the Dubai gas network. Shell, as DUSUP's appointed adviser for the project has worked closely with Golar LNG Limited in the development of this project.

In the main application the Laby<sup>®</sup>-GI is used as a fuel gas compressor to inject natural gas into the ME-GI dual fuel two stroke diesel engine from MAN Diesel. The Laby<sup>®</sup>-GI has been custom engineered and optimized to supply the ME-GI dual fuel propulsion system. Several years of development together with MAN Diesel have lead to a noncomplex compressor system with a sophisticated control system and lowest demands on the crew for operating and maintenance. Using the Laby<sup>®</sup>-GI as a BOG compressor on an FSRU is an additional Laby<sup>®</sup>-GI application and benefits from many technical and commercial advantages of the diesel engine carriers application.

Due to a delayed build-up of reliquefaction capacity, the LNG carrier market is reluctant at the moment, whereas the market for floating storage and production units is continuing to grow, since the floating storage units are flexible and in comparison with the land units there are no long lasting authorization procedures required.



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Media Release of May 14, 2008 / Page 2 of 2

## About Burckhardt Compression

Burckhardt Compression is one of the market leaders in the field of reciprocating compressor technology and the only manufacturer that offers a complete range of Laby® (labyrinth piston), process gas, and hyper compressors. These compressors are used in a wide range of applications in the chemical and petrochemical industry, in refineries, in air separation systems, and for gas transport and storage. Burckhardt Compression products are used to compress, cool or liquefy gas, for example hydrocarbon or industrial gases. Its customers include multinational companies in the oil, gas, petrochemicals and chemicals industries.

In addition to its thriving new installation business, a major driver of the company's success is its global service network, which generates a substantial share of company revenues. This global network enables Burckhardt Compression to offer comprehensive customer support services, such as delivery of top-quality components, servicing of compressor valves, complete system overhauls, engineering services and the fulfillment of comprehensive maintenance contracts.

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*Please send a copy of the publication to Daniela Gohl. Thank you.*