



Burckhardt Compression AG
CH-8404 Winterthur, Switzerland
Tel. +41 (0)52 262 55 00
Fax +41 (0)52 262 00 51

Media Release of January 22, 2008 / Page 1 of 2

Successful Revamp of a non-Burckhardt Compression Primary Compressor in Siberia

Burckhardt Compression delivered two cylinders for an existing Sumy primary compressor for a LDPE plant in Tomsk, Siberia.

In July 2006, Burckhardt Compression received an order from the LDPE plant Neftechim in Tomsk, Siberia. It included the replacement of two first stage cylinders of a 4 crank Sumy primary compressor with Burckhardt Compression cylinders as well as their on-site installation. Since July 2007, when the cylinders were installed, the compressor has run absolutely trouble free. Thanks to the revamp the plant productivity increased from 170'000 tons-per-year to 220'000 tons-per-year LDPE.

As an OEM (original equipment manufacturer) with over 160 years of experience in the design, manufacture and service of reciprocating compressors, Burckhardt Compression has the specialists and technical competence for revamps, overhauls, engineering services and repairs for other brand compressors (OBC). Burckhardt Compression is the market leader for hyper compressors with a discharge pressure up to 3500 bar.

The three stage LDPE compressor was manufactured by Sumy in the year 1992 in the Ukraine. During the 13 years of compressor operation various downtimes occurred and the required volume was never achieved. Results of a comprehensive in-house feasibility and engineering study of the process, the rod load and the required lifetime have led to the decision to replace the Sumy cylinders with cylinders of Burckhardt Compression design with state-of-the-art features. The additional pulsation and vibration studies confirmed that the replacement can be done. Neftechim decided in favor of Burckhardt Compression due to its broad experience and the low lifecycle cost of its products.

Productivity and availability improvements of existing reciprocating compressors or changing compression requirements often call for revamps or up-ratings. With Burckhardt Compression's in house state-of-the-art sizing and finite element analysis tools professional specialists can model and calculate any existing reciprocating compressor.

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



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Media Release of January 22, 2008 / Page 2 of 2

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.

Further inquiries: Daniela Gohl
Phone +41 (0)52 262 57 09
Fax +41 (0)52 262 03 48
E-mail: daniela.gohl@burckhardtcompression.com
Internet: www.burckhardtcompression.com

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