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COMPEX HTP fast high-temperature pyrolysis systems

Current economic conditions drive the majority of companies to implementing advanced reliable solutions capable of optimizing costs, increase of production process efficiency and decrease payback periods. COMPEX LLC offers such solutions for gas treatment applications. The Company specializes in the engineering, manufacture and supply of equipment and technologies for industrial gas treatment.

One of the Company's most essential products for the utilization of domestic wastes and organic wastes – including agricultural, food processing and livestock wastes – is COMPEX HTP fast high-temperature pyrolysis systems designed for carbon materials processing into synthesis gas for on-site power and heat generation. This technology is of particular interest for mining and processing industries, public utilities and agricultural companies providing opportunity to efficiently use various organic materials (e.g. wood, peat, shale, brown and black coals, domestic and industrial wastes and other biomass) to produce fuel for energy generating equipment.

COMPEX systems, based on the patented fast pyrolysis technology, feature high efficiency and reliability and offer high flexibility of end products (syngas, synthetic fuel and carbon materials) quality and volume through process temperature regulation. At the same time system design provides twofold reduction of process energy intensity in comparison with other pyrolysis types. COMPEX pyrolysis systems are compatible with various types of

generating equipment including microturbines, gas-turbine units, gas reciprocating units, etc. Implementation of these systems allows enterprises to cut energy costs through the use of wastes to generate power and heat as well as increase facility sustainability.

Today COMPEX LLC, using own and world's leading developments, manufactures wide range of advanced COMPEX™ gas treatment equipment: screw, reciprocating and centrifugal compressors; packaged booster compressor stations; modular and mobile wellhead compressors for gas fields redevelopment; complete gas processing packages; liquid-jet gas compressor; gas desulfurization systems. Main feature of COMPEX™ equipment is its capability to handle various gases including low-quality gases with

high CO and H₂S contents. The Company's manufacturing facility is located in Tutaev, Yaroslavl Region – the center of Russia's power engineering industry – and aero and diesel engines, power and fuel equipment manufacturers and several field-oriented institutes provide great flexibility to cover Company's needs in qualified personnel.

Long-term international experience of COMPEX LLC guarantees its customers strict adherence to project parameters and full Company's responsibility for the final result. Own manufacturing facility and availability of all necessary resources allows COMPEX LLC to promptly meet any customer's requirements providing high-quality products and services on favorable terms and at competitive price. §



pyrolysis_Gas storage tank2