



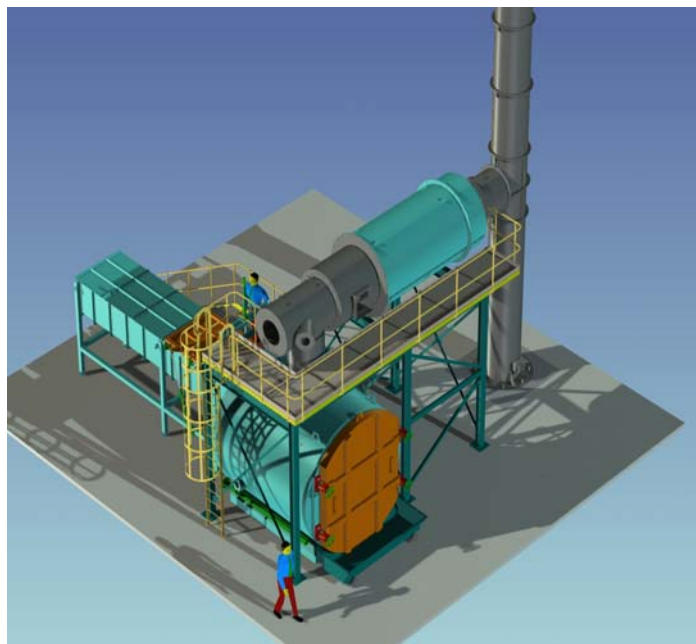
International Ltd

Combustion Engineering for the 21st Century

Project Report

GPI (General Purpose Incineration) Plant

Karachaganak Petroleum Operating BV
Karachaganak Field Waste Management Complex
Aksai, Kazakhstan



Model RD1000 Dual-fired Incinerator - throughput 1000 kg per hour



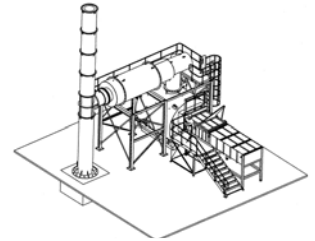


3Ts engineering team during design review meeting

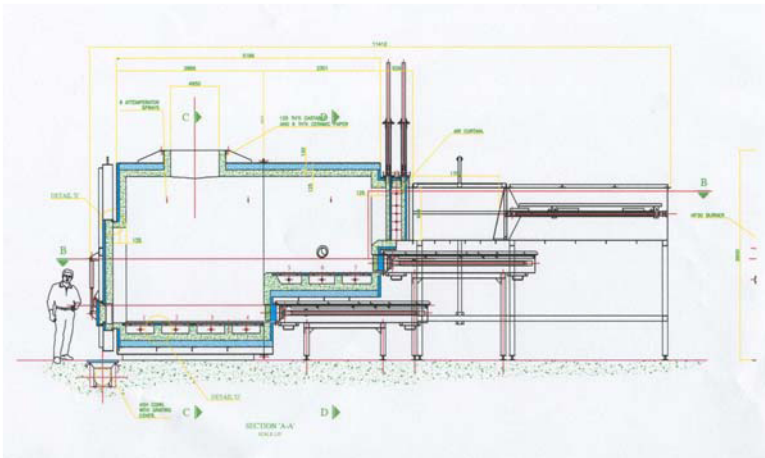
Kazakhstan.

The contract, signed in September 2002, was won by 3Ts as a result of its competitive tender and overall design quality. The contract value is USD 3 million with completion and hand over due by July/August 2003.

Aksai., West



3D Image of the RD1000



Special engineered RD1000 pyrolytic incinerator

The GPI Plant

The GPI Plant consists of a state-of-the-art pyrolytic incinerator, the RD1000 stepped hearth, equipped with a Flue Gas Filtration (FGF), auto-loading, auto de-ash system and a Steam Waste Heat Boiler.

The RD1000 is a fully integrated system equipped with two automated feeding systems; a ram loader for solid wastes and an injection system for Liquid/sludge wastes. The RD1000 is designed to incinerate 1 Tonne per hour of mixed solid wastes, liquid wastes and sludge.

Emissions from the RD1000 are treated by a Thermal Oxidizer (TO) operating at a temperature

not less than 1000°C with a minimum residence time of 2.0 seconds. Emission gases are then treated by an FGF system to insure minimum impact on environment in accordance with EC regulations. A real-time Emission Monitoring System will insure compliance and efficiency of the incineration process.

Energy from waste is recycled via a steam waste heat boiler and used for space and process heating for HVAC.

The Building

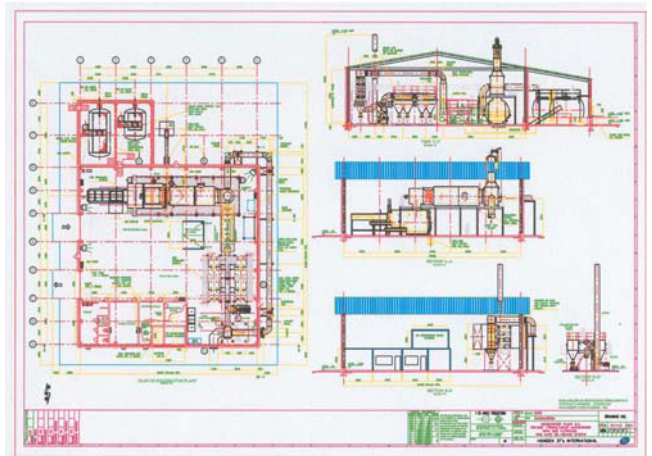
Part of the contract is a special incinerator building constructed using certified low temperature (-45°C) steel.

Project Management

3Ts' project management will provide on-site supervision for all phases of installation, commissioning and will provide operator training.

Report

An updated version of this report should be released after successful handover of the project.



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