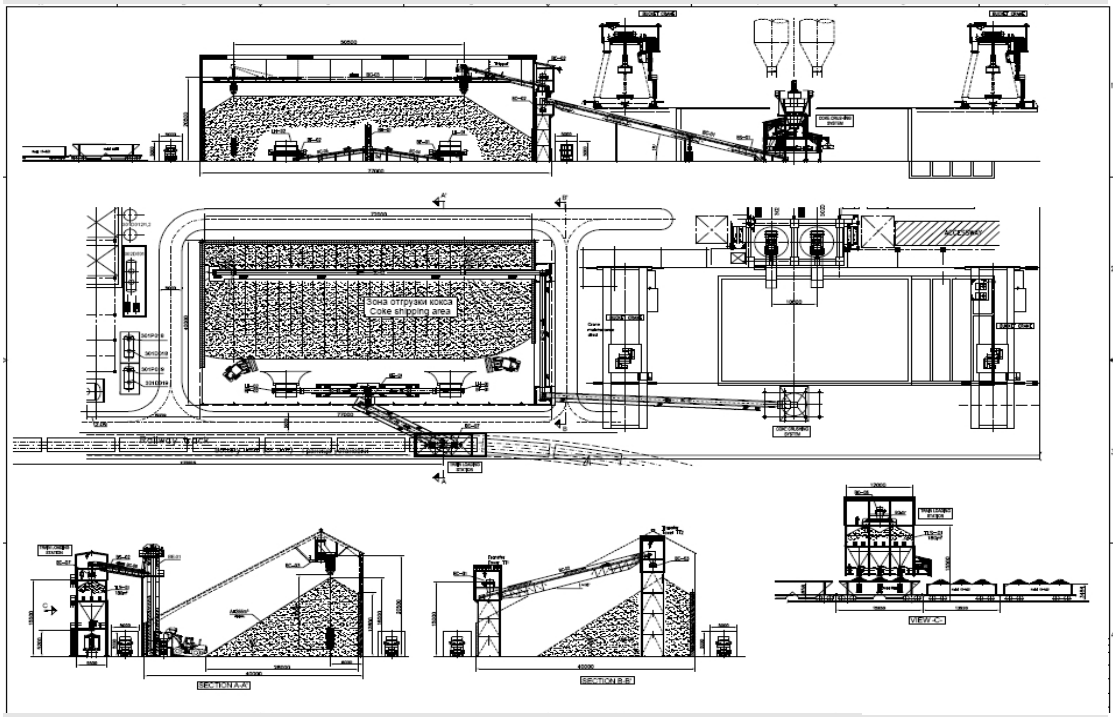
CASE STUDY

CJSC Antipinsky Oil Refinery (Russia)



In the first half of 2015, CJSC Antipinsky Oil Refinery awarded one contract to TaimWeser, to undertake a new coke conveyor belt, in Antipinsky (Russia).

- The project consists of the transfer of coke from the discharge pits of the chambers, where the product is produced, to the hopper that feeds the circuit conveyor belt, where Taim Werser has supplied a transport system based on a specific design conveyor belts and associated electrical equipment, peripherals and control system, in order to obtain the best and safest transport system.

- This equipment is designed to work in very aggressive and explosive environments, abrasive dust and adverse weather, so the equipment is protected from heat, corrosion and dust, and require protection for explosive atmospheres, according to the customer's requirements. The scope of supply is the following: engineering, design, manufacturing y documentation of the following equipment:

- Draw-out MCC, for the fixed and variable motors, 4b form, according to IEC 439-1. Intelligent relays, connected via field bus for each one of the direct starters.

- Panels for the heating resistances and auxiliaries.

- Hardware & software of the control unit, based on redundant and safety PLC, S7-400 family (Siemens brand).

- Remote unit for the adquisition of I/Os, inside explosion-proof panel, inox. ATEX 2GD Exd IIB IP66 T4/T135C.

- Control and operation panel.

- HMI, WinCC family (Siemens brand).

- Engineering station including development software.

- Development licenses of software for the PLC and HMI.

- E-room, including the control equipment and operation area containing also de main desk. The E-room will be a metallic container, hermetically sealed, to be installed in ATEX area, at the loading point. Total dimensions: 8.000 mm x 2.438 mm x 2.591 mm (width x height x depth).

- Detailed electrical diagrams and installation basic engineering including the rest of associated documentation.

- Factory acceptance test at our premises in Bilbao (Spain) .(F.A.T.).

- Installation supervision, commissioning and training on-site (Antipinsky Oil Refinery -Russia).

Coke Handling

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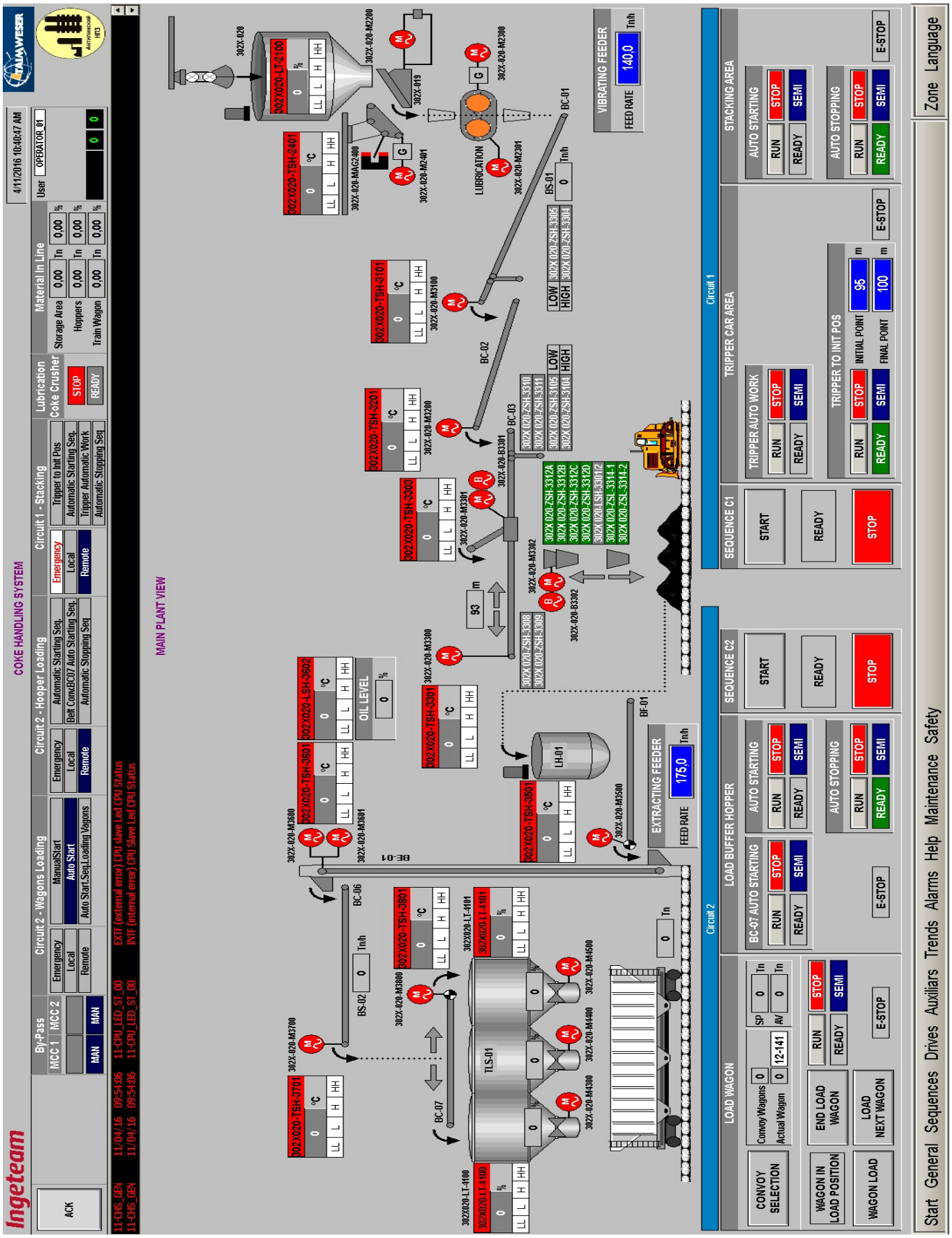
Control Diagram



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