

TO WHOM IT MAY CONCERN

The company KB Pomorze Sp. z o.o. with registered offices at Sienna Street 50, 80-605 Gdańsk, from March 2018 to July 2019 participated in the EFRA Project for Grupa LOTOS S.A. and its subsidiaries with registered offices at Elbląska Street 135, 80-718 Gdańsk. This was within the construction of the Delayed Coker Unit (DCU) and as a subcontractor of KT Kinetics Technology SpA – the Main EPC Contractor for the plant. KB Pomorze Sp. z o.o. was involved in this task after successfully completing the original scope given as the primary contractor of the Hydrogen Generation Unit (HGU).

KB Pomorze was given the responsibilities of work and paid using hourly rates. KB Pomorze immediately responded to the rapidly changing needs of personnel and tools, while implementing optimal technological and organizational solutions.

The scope of KB Pomorze work consisted of the following:

1. Development of piping documentation for 2.225 pipelines and closing of ca. 5.000 punch points.
2. Provided engineering supervision, including: work managers, quality control, welding supervision, health and safety supervision, and administration (about 20 engineers).
3. Mechanical works and corrosion protection.
4. Erection of ca. 20 t of steel structure.
5. Installation of ca. 30 t of equipment (e.g. filters, silencers, level gauges, two and three-way valves with automation up to 30" diameter, safety valves, and spring supports).
6. Erection of ca. 1 591 pipelines weighing about 91 tons on pipe racks and with a total number of welded joints equal to ca. 7 711 DI („diainches”), with the following parameters:
 - a) Media: service and instrumentation air, blow down, chemicals, condensate, fuel gas, hydrogen, nitrogen, flushing oil, pressure steam, boiler feed water, cooling water, decarbonated water, fire water, service water, sewage, and process medium
 - b) Material grades according to ISO TR 15608: 1, 5 and 8
 - c) Diameters: from 1/2" (DN15) to 30" (DN750).
 - d) Post Welding Heat Treatment of welded joints - carbon steel, low-alloy steel, and alloy steel, all of which are subject to hydrogen induction cracking and stress corrosion cracking HIC/ SSC.
7. Pressure tests of pipelines and equipment.
8. Make arrangements and received acceptances with the Technical Office.
9. Assisted with mechanical start-up and technological start-up.
10. Supervised and reported on tightening and tensioning of approx. 5,000 flange connections. The tightening was with torques of up to 5,000 Nm and the tensioning was with forces of up to 1,032 kN

KT – Kinetics Technology SpA

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11. Erection of 3.582 m of steam tracing on pipelines, including 335 on equipment, 511 fittings and 1.837 of steam tracing with compound.
12. Provided the workforce for painting touch-ups - total 24.000 mhrs.

Total manhours worked – 370.000.

The work has been carried out with due diligence in accordance with sound engineering practice and a high level of quality and safety. With the lowest number of suggestions for improvement among EFRA subcontractors as reported by the Main Contractor's HSE Supervision ('0' occupational accidents).

We hereby confirm that KB Pomorze Sp. z o.o. has performed the ordered scope of work in a professional manner and maintained proper communication with the investor. We recommend KB Pomorze Sp. z o.o. as an experienced partner in the implementation of specialist engineering tasks of considerable technical complexity. It should be emphasized that KB Pomorze operates with special flexibility and dynamics in the demanding work environment, while taking over unfinished scopes of work from other subcontractors, with high variability of priorities and difficult planning possibilities.

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EFRA Project

PROJECT MANAGER

Stefano Orlandini

