

15th of February 2018

KB Pomorze Sp. z o.o.
ul. Sienna 50
80-605 Gdańsk

REFERENCE LETTER

KB Pomorze Sp. z o.o. with office in Gdańsk, Sienna Street 50, from March 2017 to April 2017 (4 weeks) completed works in the total amount of 65,000 man-hours during the Maintenance Shutdown SPRING 2017 in the LOTOS refinery in Gdańsk.

The scope of KB Pomorze works consisted of the following (Hydrogen generation 1&2, Sour water stripper 1&2, Amine regeneration unit, Sulphur recovery Claus No. 1 to 5, Hydrogen recovery plant):

- Reformer furnace revamp – replacement of reformer catalitic pipes 5" – 42 pcs.
- Inspection and testing within RBI programme (piping – 8 pcs., heat exchangers – 16 pcs., furnace – 1 pcs., compressors – 4 pcs., reactors – 5 pcs., vessels 6 pcs., columns – 4 pcs., air coolers – 2 pcs.)
- Maintenance overhaul of equipment (heat exchangers – 87 pcs., furnaces – 8 pcs., reactors – 13 pcs., vessels 76 pcs., columns – 14 pcs., air coolers – 20 pcs., ducts – 5 pcs.)
- Mini EPC services with revamp or replacement (mixers – 2 pcs., heat exchangers – 4 pcs., furnaces – 3 pcs.)
- Piping – overhaul inspections – 319 pcs., technical office inspections – 9 pcs;
- Piping pressure tests – 160 pcs.
- Armature overhaul (PSV – 92 pcs., manual valving – 42 pcs.)
- Instrument overhaul (control valving – 163 pcs., instruments – 744 pcs.)

The works were also carried out in 'explosive protection zones' maintaining the highest safety and quality standards. KB Pomorze performed with due diligence in a timely manner, in accordance with all rules, regulations, Grupa LOTOS S.A. Technical Standards and sound engineering practice.

DYREKTOR ds. TECHNIKI



Tomasz Branicki