

Cleaning of KR-701/1 coils using smart pigging technology

Cleaning (removal of coke) of the radiant, convection and crossover sections of the tube coils of OS-2 KT-1/1 S-001/2 heaters Kr-701/1 & Kr-701/2

The radiant and crossover sections of the heaters Kr-701/1 and Kr-701/2 have two streams each. The convection section has 4 streams.

Scope for one stream:

Radiant section for one stream heaters Kr-701/1 – tube O.D.141 x 10, 1320 m; elbow 90° (with inserts), O.D.152 x 16, 160 pcs, internal diameter I.D. 121,3 mm

Condensate inlets for one stream in the radiant section – tube O.D. 33.4, length 1250 mm, 2 pcs;

Crossover section for one stream – tube O.D 127 x 11, length 220 m; Elbows 180° - 24 pcs. for one heater - crossover

Convection section for one stream – tube O.D. 114x11, L- 178 m , for two streams 178x2=356m; elbows 180° O.D.114x11 - 160 pcs.

Couplings with class 300 flange 6", RF at the top and the bottom for the cleaning of coils. After completing the cleaning work in accordance with the above scope, coke / petroleum products must be washed away / removed from all over the site. Flow through the coils must be checked (pressure and flow rate control) before and after their cleaning by the pigging method to verify the quality of cleaning of each stream.