



# PETKIM GUY WIRE REPLACEMENT TURKEY

Conbit was contracted by Petkim, the leading petrochemical manufacturing company of Turkey to supply and exchange guy wires and tensioners as part of their planned maintenance.

The plant complex, located in the Izmir province of Aliağa, had scheduled maintenance of the guy wires on the Ethylene-Arom flare stacks.

Conbit was requested to not only replace the guy wires, but also prepare the necessary engineering, specification and the procurement of it all.



Picture: Existing guy wire situation

### PROJECT

- ✓ ENGINEERING
- ✓ PROCUREMENT
- ✓ INSTALLATION

#### Client

Petkim Turkey

Project Number  
30959

#### Project Name

Petkim guy wire replacement



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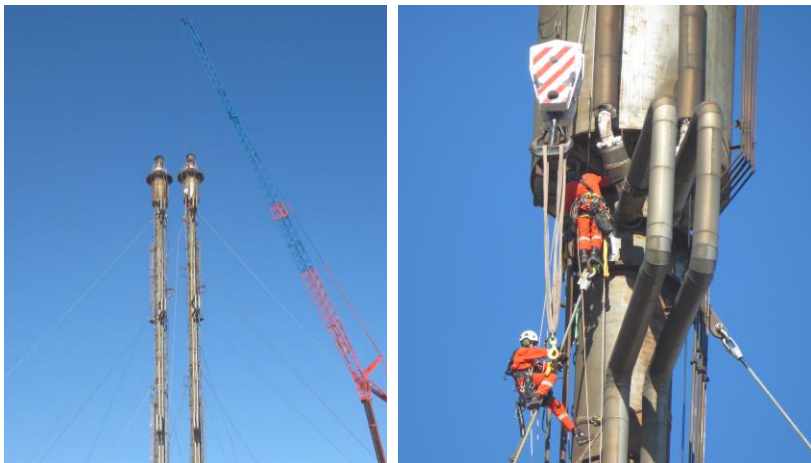
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*Pictures: measuring guy wires and verticality check*



*Pictures: installing and tensioning new guy wires*



*Picture: DEMAG AC500-2 crane activities*

## THE POWER OF PREPARATION

Before the project commenced, Conbit needed to determine the exact length of the guy wires for the new certified guy wires, which consists of a single part. Conbit performed a site survey and the total station measurement of guy wire lengths, method statements, logistics and final tension report in preparation for the exchange operation. NDT testing and inspection was also provided in advance. For the operation, Conbit provided the structural engineering as well as the procurement and fabrication of turnbuckles and guy wires. In combination with our designs and flexibility, we offered a unique service to our client.

## THE OPERATION

Conbit undertake the exchange and installation of the new guy wires and tensioners using a DEMAG AC500-2 crane. The engineering of the guy wire lengths in combination with the required tension value based on the temperature at time of installation, made our method of tensioning quite unique. As Conbit was working with multiple nationalities on site, ensuring effective communication was key. We also faced the challenge of keeping the project on schedule despite the limitations caused by the windy conditions. As a result, we sought an alternative solution to install some of the lower and shorter guy wires using our rope access techniques.

**"CONBIT IS SPECIALIZED  
IN GUY WIRE  
MAINTENANCE JOBS  
PROVIDING ENGINEERING,  
PROCUREMENT AND  
INSTALLATION"**