



## GUY WIRE TOWER SERVICES

Conbit Towers is specialized in towers and stacks for a variety of industries. Our services range from design, procurement, construction, installation and maintenance to demolition.

A particularly specialized service we provide is certifying and maintaining guy-wired structures. This datasheet gives an overview of the available services.

Guy-wired structures achieve their stability through pre-tensioned guy wires. The wires must be made of appropriate materials, be in good condition and have the correct pre-tension to keep the structures safe.



Picture: Maintenance of wires



Picture: Certified structure

### PROJECT

- ✓ ENGINEERING
- ✓ PROCUREMENT
- ✓ INSTALLATION

### Example References:

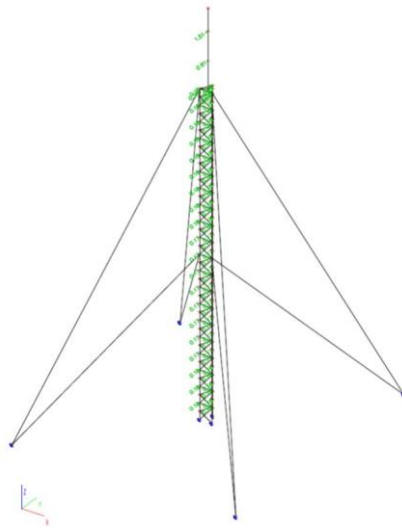
DuPont  
T-Mobile

### Example Markets:

(Petro)Chemical  
Mobile Telecom



Picture: Structural engineering



## STARTING POINT

Often, clients have limited information on their existing guy-wired structures. They are unaware of the necessary pre-tension in the wires. Conbit Towers measures and inspects such structures on site, studies the available information and conducts a reverse-engineering study to determine the intended design configuration. Based on the outcome of this study, Conbit recommends a repair, maintenance and inspection protocol that enables long-term safety certification of the structures.

## INSPECTIONS

Based on the inspection protocol, regular inspections need to occur. These are done at various intervals, depending on the guy-wire materials used.

A typical schedule includes yearly, three-yearly and five-yearly inspections, ranging from visual inspection to full non-destructive testing using electromagnetic NDT technology.

## REPAIR

Inspection may reveal that certain parts of the guy-wired structures are damaged or have suffered wear and tear. One aspect of our services is supplying the necessary replacement parts and installing them on site. If parts cannot be replaced, we arrange for them to be repaired in situ.

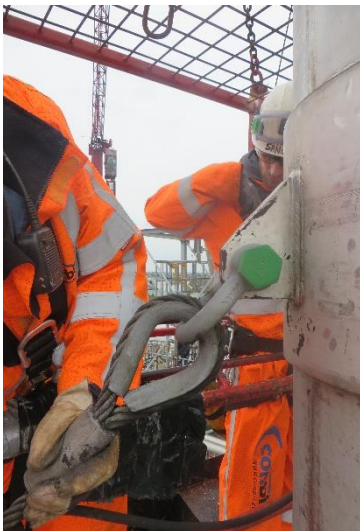
## MAINTENANCE

Guy-wire structures must be frequently maintained. Maintenance tasks include greasing, tensioning and painting. Conbit Towers takes care of all the necessary tasks.

## CERTIFICATION

Conbit Towers takes full-service ownership of your guy-wired structures. We schedule, and keep you informed of, the next steps whenever necessary. In this way, we regularly update the certification of your structures, so that you can rely on it to be safe.

**"A UNIQUE COMBINATION OF  
STRUCTURAL ENGINEERING,  
CONSTRUCTION, INSPECTION  
AND MAINTENANCE SERVICES"**



Picture: Inspection



Picture: Tensioning



Picture: Construction and Material supply