PARAFIL® Type G, Kevlar® 49 core yarn, 10.5 tonne Nominal Breaking Load.

Cooling towers erected in the 1960s at the Thorpe Marsh Power Station in England developed 25 metre vertical cracks which at the top had opened out to 60 mm. The original internal steel reinforcement had corroded away.

The most severely damaged tower was repaired using 31 PARAFIL® cables. When completed the assembly extended 20 metres down the side of the tower. Each tendon has an external diameter of 13.5 mm and a weight of only 15 kg / 100m. The tendons were fixed in 50 metre lengths and were tensioned from three jacking points. Less severely damaged towers were repaired using fewer cables.

PARAFIL® light weight, flexibility and corrosion resistance were critical to success in this application.