

## Overview

Well-engineered earth stations are built to last. Systems delivered by us more than 30 years ago remain in operational service today. But equipment does eventually reach the end of its useful or economic life.

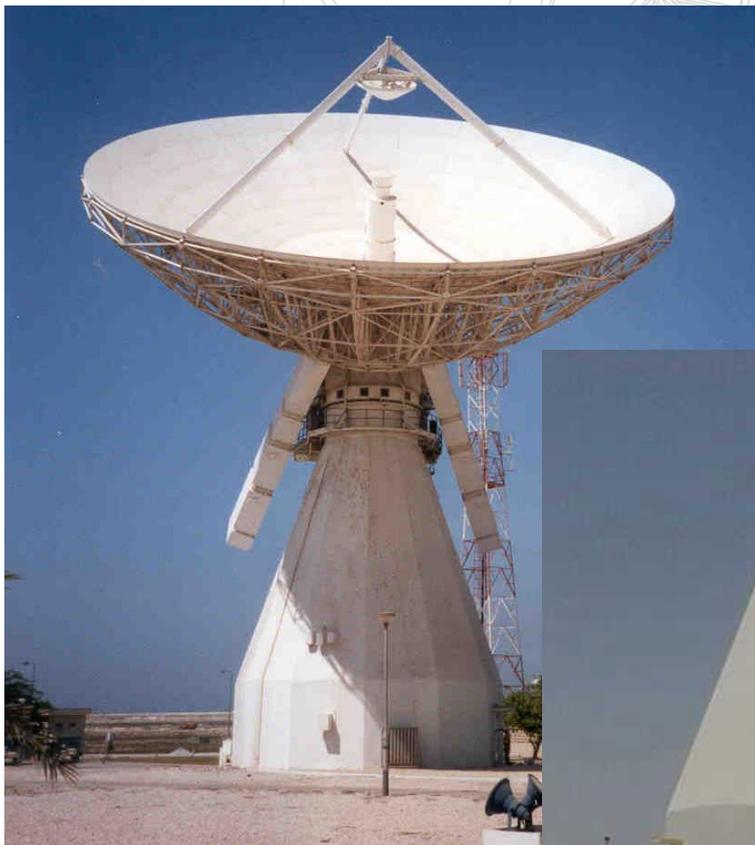
Technology moves on too, leading to the use of lower power equipment and smaller antennas than was the case say 20 years ago.

The de-commissioning of a system and the removal of the equipment can in itself be a major project. In these cases, users can benefit from the expertise of specialists like Kratos to ensure that the work is done in a safe, controlled, low-risk manner.

De-installation of large antennas from an earlier generation of communication gateways is an obvious example. But there are less obvious risks to be addressed too, related to the correct handling and disposal of equipment which contains hazardous materials – or any equipment for that matter which was made before the existence of Europe's WEEE Directive.

Do you have a system de-commissioning need? Or an old antenna no longer in service which could become a maintenance headache just to keep it in a safe condition? Call Kratos. We have the experience and know-how to remove it.

## Antenna Demolition



*A Marconi 27m Intelsat Standard 'A' station is removed by a local contractor in Bahrain using a procedure provided by Kratos.*



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## RF Equipment Removal

Some RF equipment contains materials which were considered hazardous, even before the WEEE (Waste Electronic and Electrical Equipment) Directive was enacted. Removal of this kind of equipment involves employing proper disposal procedures.



*Removal and disposal of 1980s-era Klystron Power Amplifiers (left), and replacement with current-generation equipment (right).*



## Re-use of Buildings

This example shows the removal of a 21m Intelsat Standard 'A' earth station in Singapore. Working with local contractors, the antenna was removed and the building was modified structurally to accommodate a 13m turning-head antenna for a new service. All of the RF equipment was stripped out and replaced with equipment appropriate to the station's new role.



*21m Antenna ...*



*... going ...*



*...gone!*

*After structural modifications to the building roof, the new-generation system is installed.*

