

Refurbishment of H.F antenna structures

Client: U.S Agency for Global Media (USAGM)
Location: Tinang, Tarlac Region, Philippines
Scope: Removal of Hazardous lead-based paint from tall guyed mast

Brief:

Jaggard has a term contract to provide support to USAGM at all their Worldwide radio stations. This involves inspection, maintenance and emergency repairs as directed by their engineering team. Tinang is one of several locations where Jaggard performs refurbishment, other sites include Sao Tome, Djibouti, Germany, and Thailand.

Scope of Works (SOW):

Remove by Ultra High-Pressure jet washing all existing lead based paint and detritus from 5 existing towers of heights from 160ft to 310ft. Repaint using international colour bands to improve aircraft obstruction visibility.

Constraints:

Geographical location

The structures are spread across the 3 ½ square mile site operated by USAGM at Tinang, in the region of Tarlac. The climate in the region gives a short painting weather window. Typhoons, heavy rains and dangerous thunderstorms often prevent working at height.

Environmental issues

Past painting plans had included paint products with very high lead-based and other toxic inorganic material.

The **UN Environment Program** has identified the need to globally eradicate lead paint. To totally remove the paint in a safe manner while protecting the surrounding environment gave Jaggard enormous challenges all of which were overcome.



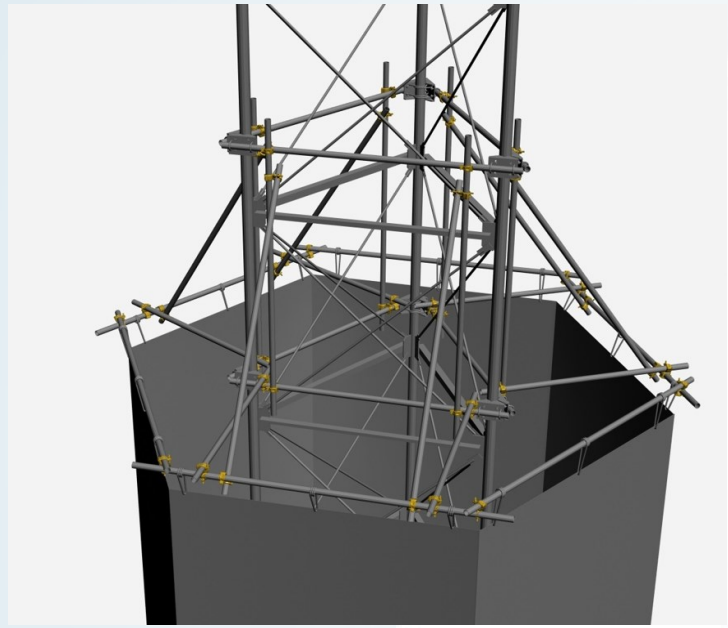
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Method:

Jaggard designed and supplied a 'wrap around' suspended shroud for the structure that allowed the ultra-high jet washing team to work safely at height. The polluted wastewater was captured and drained into recovery tanks at ground level, filtered and waste products were removed by a specialist licensed contractor.

A stringent "working with lead" policy was adopted requiring regular health testing of the crew and the provision of appropriate personal protective equipment to protect the workforce.

Construction, planning, health and safety compliance and site management were undertaken by Jaggard.



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sales@jaggard.ae

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Result:

All structures were completed on time within the weather window meeting all the required safety measures.



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