

# Strengthening of Radar Tower Tagaytay City, Philippines

Activity  
Retrofitting/ Strengthening



## Description:

The Tagaytay Radar Tower is one of the three radars being utilized by the Civil Aviation Authority of the Philippines (CAAP) in guiding the flights approaching airports at NAIA and Clark Airport. It is used by the department of transportation for providing air navigation service in the Philippine Flight Information which occupies one of the largest area in the region.

**Client:** Thales Australia Ltd. (with CAAP)

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**Subsidiary:** Freyssinet International Manila, Inc.

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**Date Started :** 5/2017

**Date Finished:** 8/2017

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## Freyssinet's Scope:

Freyssinet acted as the specialized contractor for all the required design and retrofitting works. Freyssinet installed a new radome base and strengthened both the superstructure and substructure of the tower to accommodate the service loads and extra winds exceeding 320 kph. Work included the exposure of the existing substructure foundation to be further reinforced, including the design and installation of the additional new members and bracing for the superstructure without compromising the stability of the tower during the work. In order to monitor any possible, but unlikely movement during the works, an inclinometer was installed on the tower.