

Inspection of walls by drone

The Gittaz dam



Client:

EDF – UP Alpes

Project manager:

EDF – CIH, Département
GC – Grenoble

Contractors:

Works planned for 2015

Years:

2014

Principle features:

Total length: 65 m
Height from foundations: 66 m

Background

The Gittaz dam forms part of the Roselend-St Guérin complex.

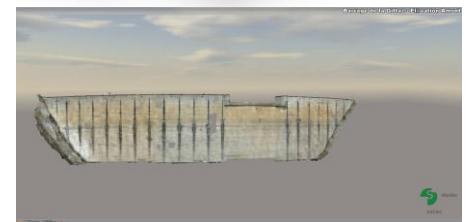
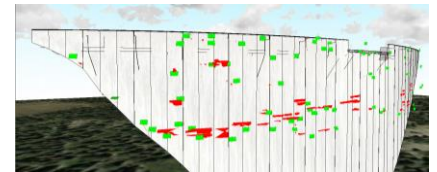
It provides additional storage of 13.7 hm³ and feeds the reservoir of Roselend, whose water drives the turbines at the hydroelectric power plant at La Bathie.

It was first put into service in 1968.

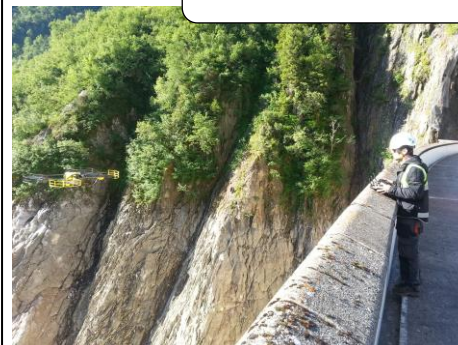
It is a concrete arch dam made up of 11 plots of approximately 12.15 m and of two extremities on the left and right banks of 12 and 19 m in length. The upstream wall is a cylinder of revolution with a vertical axis with a 180 m radius.

DIADES' task

The task was to carry out a detailed inspection of the upstream and downstream walls of the dam and define the defects located on GPS coordinates, and determine the quantity of defects using Dia-Map© software developed by DIADES.



Specific features of the task



The entire dam was inspected with the Diades drone, flown with reverse commands. Completion of the task enabled a significant amount of photographic information to be gathered and a 3D reconstruction to be obtained.

diadès

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