

Oil & Gas Pipes Inspection

Customer

Oil & Gas refinery (confidential)



Inspection overview

The mission required the inspection of concrete pipes used to bring sea water in an Oil & Gas refinery and plant.

The aim was to deliver to the customer a detailed section by section report used to determine the internal status of the pipes and decide whether it was necessary to clean them with a high-pressure water system.

An underground de-sanding pool was the second target of interest for the mission.



Visual Inspection Results / Lessons Learned / Confidence Level

The visual inspection results provided enough detail to allow the customer to make a decision about which sections of the sea water intake systems needed cleaning and which did not.

The challenge of flying in an environment with the presence of sea water was mostly the risk to damage the electronic components of the assets used for the inspection. In some sections of the pipes a strong and turbulent wind was blowing, making the inspection more difficult. The Sport mode of the Skycopter allowed to confront the wind and complete the mission even in the windy sections.



The confidence level about the mission grew each day, as challenges were faced and solved. The plant was stopped during our inspections, making the timing a main concern for the customer. The complete inspection required 5 days.

Benefits of Using the Skycopter technology

In addition to the safety benefit of using drone technology instead of sending humans into these pipes for inspections, the Skycopter also dramatically reduced the amount of time that this task would have taken compared to other inspection tools. The resulting data captured by the Skycopter allowed the client to target which sections needed cleaning and which did not, providing significant overall cost savings for the project.

