CUSTOMER RESULT · NUCLEAR POWER

A turbine inspection in one night at a U.S. nuclear plant

How a nuclear plant used the Nolvis X1 to inspect a turbine with one person, from outside.

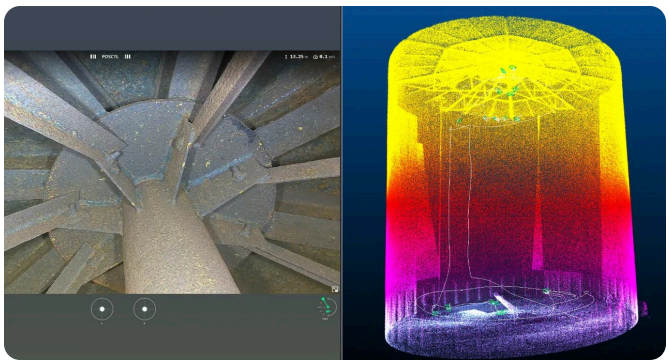
~8 h → 90 min
inspection time

5 → 1
crew on the job

1 night
to finish the turbine



The Nolvis X1 in flight, lights on.



Sample X1 data: camera view and 3D point cloud from a tank flight. Not from this plant.

THE CHALLENGE

Outage hours are expensive.

A turbine inspection during an outage took about 8 hours and a crew of 5. Outage time is tight, and every crew member on the job counts.

THE APPROACH

Send the X1 in first.

The team flew the X1, a caged inspection drone, into the turbine and watched the live video from outside.

THE RESULT

Done in one night.

The inspection took 90 minutes with a crew of 1, instead of about 8 hours with a crew of 5.

THE X1 IN SHORT

- Fits through openings as small as 16 in
- Positions itself without GPS, using LiDAR and vision sensors
- 4K camera, up to 10,480 lumens of light
- One case; about 12 minutes from case to first flight
- Half-day training included with each unit

Planning your next outage?

Book a demo → nolvis.com/contact