

Endoscope NDT Inspections

Benefits

- Reliable operation
- Lower maintenance costs
- Longer working life of components
- Longer intervals between overhauls

Fortum's specialist knowledge of turbine plants is based on experience of maintaining steam and gas turbines and generators, and of modernising turbine control and protection systems. Turbine and generator endoscope and NDT inspections are our specialist areas.

TURBINE AND GENERATOR INSPECTION WITHOUT OPENING UP THE MACHINE

It is possible to inspect the condition of the inside of a turbine and generator without actually opening up the turbine. Blade cracks and other damages can be observed by endoscope. On the basis of the inspection results, you can make preparations for the future overhaul.

The endoscope offers the possibility of targeting even remote points behind a bend. Verification of a visual inspection can be carried out via the same aperture, by eddy-current testing.

FEWER OPENINGS OF THE MACHINERY MEANS BETTER AVAILABILITY

There is a significant reduction in the number of times turbines and generators need to be opened up. The inspection time becomes noticeably shorter, and the machine becomes production-ready more quickly. Consequently, the endoscope inspection significantly increases the availability of the power plant.

It is possible to carry out endoscope inspection during the running period, if damage is suspected. In this way the break in production may be limited to one day. Previously identified damages can also be monitored efficiently by periodical inspections in order to ensure safe operation.

FORTUM'S ENDOSCOPE SERVICES INCLUDE:

- Planning and preparations for the work
- Implementation
- Analysis of results
- Reporting
- Mechanical jobs associated with the inspection

Our operation and maintenance references cover in addition to Fortum owned power plants several dozens of power plants in over 20 different countries. Our expert services track record covers hundreds of customer references globally.



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