

Service note

Site surveys for motors and generators



The need for site surveys

A site survey is strongly recommended when there is a need to gather information on the condition of a motor or generator, further develop the process around the motor/generator, or prepare a detailed maintenance plan. The objective is to take a long-term and systematic approach to the maintenance of motor or generator performance.

The survey should preferably be undertaken during a planned production stop, but it could also be done - with certain limitations - during normal operation. The survey is conducted by professional field service staff from ABB.

The survey results are compiled into a detailed report that includes information on the current general condition of the motor or generator and the ambient conditions in which it operates. The report may also contain recommendations for immediate measures that could be taken to improve availability, performance, safety and maintainability.

Customer benefits

- A detailed maintenance plan to ensure continued high availability
- Evaluation and recommendation of possible upgrades
- Evaluation and recommendation for higher efficiency motors and generators
- Comprehensive spare part review including recommendations for additional parts necessary for the process
- Fast, efficient inspection by experienced professionals

Site survey content

Preparatory actions

- Check the maintenance history
- Check the operating history
- Check design details of the motor or generator

Actions on site

Motor and generator

- Assess the motor's or generator's general condition
- Evaluate its performance
- Assess the motor's or generator's maintenance needs
- Evaluate short and long-term upgrades and modifications
- Inspect the motor's or generator's operating environment
- It is recommended that ABB LEAP (ABB Life Expectancy Analysis Program), a supplementary service, is undertaken during the site survey

Spare parts

- Audit spare parts available on site

Reporting

- Current general condition of the motor/generator and recommendations for improvement
- Current motor/generator performance and proposals for improvement
- Proposal for maintenance program
- Proposal for short and long-term upgrades and modifications
- Estimate of motor or generator lifetime by ABB LEAP, a supplementary service
- Current status of the operating environment and recommendations for improvement
- Limitations to maintenance caused by site conditions
- Current status of existing spare parts, recommendations for spare parts to maximize availability and meet the needs of the proposed maintenance program
- Spare part risk evaluation in light of customer business

System information required for site survey

The survey is more effective and produces higher quality results when maintenance history and operating data are available.

Other recommended services

Systematic maintenance is recommended to ensure optimum performance over the motor's and generator's entire lifetime.

Contact information

For more information about site surveys and ABB's other service products please contact your Local Service Center or visit:

www.abb.com/motors&generators



We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail.

ABB Ltd does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained herein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in part – is forbidden without prior written consent of ABB Ltd.