

# Site surveys for ABB AC drives



SP45 EN REVB 2007

A site survey should be performed if the condition of the drive is not known well. The survey is performed during the process shutdown. The survey results are recorded in a detailed report containing information of the present condition of the drive and its ambient conditions and recommendations for immediate improvement actions to achieve maximum drive capabilities. The objective of the survey is to create a long-term systematic preventive maintenance program that is based on the survey results and the product specific maintenance schedule.



## Service notes

### A Site Survey offers unique benefits

- Knowledge of real system and environmental conditions
  - Definition of the required service material for preventive maintenance
  - True awareness of maintenance resource needs
  - Powerful pre-planning for preventive maintenance
  - Information for long-term systematic maintenance program
  - Proposal containing different options for future drive development
  - Evaluation of current maintenance procedures
  - Information about the spare part and support availability
- Actions on site
    - Checking the maintenance history and getting acquainted with the service philosophy
    - Defining the equipment condition
    - Inspection of the environment
    - Checking documentation and backups
    - Evaluating the competence of the maintenance personnel
    - Defining the drive performance in the process
    - Checking of parameter settings and adjusting them if necessary
    - Defining the system maintenance needs
    - On-line and off-line measurements and analysis
      - DU/DT and ESR measurement, if applicable and needed

### Service provides preparatory actions, on-site actions and reporting

- Preparatory actions
  - Studying the maintenance history of the drive
  - Checking the drive details
  - Preparing the reporting templates
  - Evaluating the needs for customer training
- Reporting
  - Statement about the condition of the drive
  - List of recommended spare parts
  - Recommendations for the next inspection or maintenance
  - Recommendations for possible corrective actions or future drive development
  - Detailed record of inspections, faults and fixed defects
  - Photographs of the findings
  - Statement about the life cycle phase of the drive to ensure the spare part and support availability

Product Lifecycle Services

- Installation & Commissioning
- Training
- Support & Remote Services
- Spare Parts & Repairs
- Maintenance & Field Services
- Migration & Retrofits
- Optimization





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## Service notes

### System information for site survey

Smoothness of the site survey progress depends on the quality of the information recorded on the service reports provided by the system owner.

### Preventive maintenance

ABB recommends an annual inspection and regular preventive maintenance to be carried out to ensure optimum drive system performance through its entire lifetime.



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