Electrical systems health check

For legacy electrical distribution systems, there are real issues emerging regarding the ageing and integrity of the equipment in use. Indeed, it is common practice to use electrical equipment, at all levels (LV, MV and HV) well beyond its original nominal 25 year design life.

Major changes to the LV distribution may have been implemented and the impact on the HV protection of their more modern MCCB and electronic protection systems may not have been considered. The protection and discrimination for your HV network may have been compromised.

Often such systems are not fully documented, protection and essential maintenance may not be carried out at the recommended frequencies.

Working on electrical systems is a specialist engineering task and many companies are often resource limited for managing the requirements of safety, security of supply and emergency response.

What we offer
ABB has considerable experience of managing all aspects of electrical systems. To help customers understand the integrity of and the issues associated with managing their power network, we provide a comprehensive electrical systems health check.

This focused assessment is designed to provide responsible managers / engineers with an affordable and rapid independent appraisal of the operational status of the network.

Electrical systems impact safety, production and financial performance of the business when not well managed.
The health check comprises a high level review of the following key areas:

- Availability of the current documentation
- Review of existing maintenance and testing practices
- Review of procedures, resources and competency requirements for persons working on such systems
- An assessment of the system performance
- An appraisal of the condition and ageing of the equipment in service
- A review of protection and discrimination for the network
- An appraisal of the earthing system

From the above a summary report is generated which provides expert informed comment on the general condition of the system ‘as found’. The report also provides a review of the vulnerabilities within the electrical system which could impair business performance through spurious trips loss of production, legislative noncompliance and / or damage to people and equipment. The report uses these findings to suggest possible improvement actions. The check can cover all voltages up to 33kV, interfacing with 132kV.

Benefits
The health check provides:

- A rapid and cost effective review of existing vulnerabilities
- Provides confidence in the health of your electrical systems
- Offers effective access to specialist electrical skills and experience

The findings from an electrical systems health check are typically used to initiate:

- Detailed technical investigations
- Remedial actions

Why ABB?
- ABB has a rare range of practical design and operations experience on industrial electrical systems
- We have considerable experience of trouble shooting on ageing electrical systems
- ABB is a market leader in providing electrical systems and equipment