Spare parts management reduces downtime of your traction transformers while helping to avoid unnecessary costs.

The environment
Having critical spare parts on hand can significantly reduce the down-time associated with:
- Transformer maintenance
- Forced outages
- Electrical failures
- Mechanical failures

As a minimum for operational reliability, it is essential to have critical parts and components readily available, such as:
- Bushings
- Oil
- Tap changer contacts
- Relays
- Gaskets
- Fan motors and pumps
- Oil flow sensors, Thermometer

The above parts should be available for immediate use in order to avoid long outages. Some of these parts can take considerable time to obtain from the manufacturer.

Customer need
The decision to award ABB the contract of spare part safety kit for 16 traction transformers was focused on responsiveness, availability, world class quality and reduced downtime.

ABB response
ABB had access to original design documents allowing quick response to the project. Spare part availability and world class components ensured a quick response.

Customer benefits
- Updated components
- Reduced risk of outage
- Environmental solutions
- Availability
- Original parts for replacement in record time
Spare Parts “Safety Kit”
Having critical parts on hand can significantly reduce the
down-time associated with traction transformer maintenance
and failure. Some of these parts can be purchased quickly
“off-the-shelf” from the manufacturer. Other parts can take
months to obtain.

We have access to the original design documents for the
impressive number of transformers installed worldwide, which
belong to ABB family: ABB, ASEA, Ansaldo Breda, BBC,
Elektrisk Bureau, Elfa, GE, Gould, IEL, ITE Indelve, Italtrafo,
Lepper, MFO, Marelli, Moloney, National Industri, Ocren, OEL,
OTE, Richard Pfeiffer, Sécheron, Stömberg, TIBB, Thrige,
Westinghouse and others.

This makes it possible to trace part numbers and obtain origi-
nal parts for replacement within a record time. We can also
provide additional engineering support to find equivalent parts
or to redesign parts to replace the ones that are no longer
available.

Advantages of good spare parts planning
- Reduce traction transformer downtime
- Reduce costs: rush deliveries and transport of parts
  by air to meet an urgent requirement can be over 10
times more costly than by normal means.

ABB proposes the following spare parts solution
Condition assessment or fleet assessment to determine the
critical spare parts needed on hand for emergencies.
Recommendation of parts to order ahead for a planned
maintenance:
- Asset inventory
- Stock management
- Recommendations on storage

Engineering support
Many older traction transformers have parts such as bushings
which are no longer available and engineering support is
required to find an equivalent replacement. In some cases a
new bushing shield is required. ABB provides this engineering
support to ensure the right replacement part.

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