

Asset End of Life Management

Power Transformers and Reactors
PS3 – 3.3 How to manage the end-of-life of
the assets and organize a smooth overlap
between two vastly different generations?

Sidwell Mtetwa – South Africa

Response

- The Technology Management Strategy (TMS) and the Technology Roadmap(TRM) documents are a good combination.
- The TMS stipulates how technologies get introduced and phased-out in the organization.
- On the other hand the TRM gives a view of the existing and future technologies and how the organization has progressed in these.
- These form a basis of the equipment specifications requirements.

Key technology drivers

Technology management in our organization is guided by

- Acquiring transformers and reactors that can perform and last as desired.
- The organization's drive for low maintenance, tending towards maintenance free technologies to improve asset availability.
- Achieving optimized standardization thereby allowing a wide range of interchange-ability.
- Support to the global drive to reduce the carbon footprint and the zero harm to people and to the environment.
- The cost-effectiveness thereby minimizing the total cost of ownership.

Typical examples

- Selective rewind of power transformers (based on Year Of Manufacture and previous repair history).
- No longer procuring Oil Impregnated Paper bushings – staggered and strategic phase-out.
- Vacuum type tap changers over oil type
- Air core reactors over oil filled.*
- Environmentally friendly oils over the non-biodegradable ones.*

* being phased-in or studied