

Implementation of ISO15926 in practice

Presented by : Rosli Abdul Hamid
VP, Operation and Technical,
Malakoff O&M Division.

Synopsis :

Teknik Janakuasa Sdn Bhd (TJSB) started its operations in Malaysia in 1993, and has since become one of the leading Power Plant Operation & Maintenance (O&M) company in the region. A wholly-owned subsidiary of Malakoff Corporation Berhad (MCB), TJSB is fully committed to achieve world-class standards in O&M performance and cost to its client.

Recognised as one of the premier O&M company in the region, best practices in O&M methodology are widely adopted to all power plant under its O&M portfolio such as RCM, RCA, RBI, CMMS, electronic Safety Permit System, DMS and many others. However TJSB realized all these are systems that are implementation in silos with no or minimum interaction of information between various applications.

In 2006, TJSB decided to be at the frontier of technology in data management by implementing a world-class life cycle asset information management(LCAIM). The main objective of this implementation was to ensure the availability of all information, in the form of structured data. The adoption of structured information itself will enable interoperability of data between various vendors and applications based on adopted standards. This will therefore set the framework on how information generated from the design and engineering phase can be utilized right through the O&M cycle of the plant after being constructed. It also defines what information that needs to be handed over from EPC to the owner/operator in term of structure, contents and format.

As a basis for streamlining the information-gathering and consolidation processes, TJSB decided to utilize international standards, particularly the ISO 15926 Reference Data Library and the IEC 61355, for O&M documents classifications. MCB has decided to implement a complete LCAIM approach in one of their new projects, viz., the Tanjung Bin 3x700 MW coal-fired power plant located in southernmost part of Malaysia. For this project, reference based on NIST Capital Facilities Information Handover Guide (CFIHG) was also used.

The presentation will highlight experiences and challenges encountered ,first from the realization of the LCAIM concept right to its implementation in one of the largest coal fired plant in the region.