

Paper 04: Electrical Monitoring and control systems (EMCS) IOGP Recommended Practice

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Abstract:

Following industry alignment initiated in the early 2020s, an IOGP expert group was established to draft a new recommended practice for Electrical Monitoring and control systems (EMCS) and Power Management Systems (PMS). Targeting a gap in existing industry standards, the joint supplier and operator workgroup published in Feb 25.

EMCS have posed significant reliability and interface challenges to projects and operations across the sector. Limited standardization exists on the architectures and functionality of such systems, posing challenges for industry alignment. However, through a collaborative workgroup, the different system architectures and approaches were discussed with the pros and cons of each established. This enabled the RP to make clear recommendations in several areas including:

- Network architecture, system interfaces and protocols
- Cybersecurity
- Testing and commissioning

This paper outlines the different approaches taken within industry and the key recommendations to improve reliability jointly established by the workgroup. It also shares key challenges faced when moving from a company procurement specification to an industry RP.