



PLUTO LNG TRAIN 2

SR Number: 26221-100-MRA-JI01-00001

Title: Vibration Monitoring System

Scope of Work: The Seller shall be responsible for all Condition Monitoring and Machinery Protection System (CPMS) hardware (rack monitors installed on freestanding panels, MCMS host computer server, signal communication cables and necessary interface devices), Machinery Condition Monitoring System (MCMS) software, system configuration, testing, documentation, installation supervision and field support for the CPMS.

The primary field mounted sensors, transducers, or amplifiers (from sensing points to the local junction box) shall be provided and installed by Rotating Equipment Suppliers (RES). The interconnecting cable material and installation between the local junction box and the monitoring rack shall be provided by the Buyer.

The Seller shall be responsible for all CPMS configuration of MCMS software and Machinery Protection System (MPS) racks regardless of the scope of supply. Seller shall also provide support documentation to facilitate Process Control System (PCS) configuration by Buyer.

The CPMS supply shall cover the following as a minimum:

- MPS racks located in the FAR (Field Auxiliary Room) with communication to the PCS via RS-485 Modbus TCP/IP.
- The Pluto Train 2 Project's CPMS server located in Central Control Room (CCR), based on a distributed system (number of servers TBD). These servers need to communicate to the PCS via OPC over Ethernet.
- All necessary communication devices and interface between MPS racks and MCMS server.
- Communication modules and interface to transfer data to the MCMS server and the PCS.
- MCMS computers (number of computers TBD) for remote display purpose.
- Interconnection signal cables between monitor racks, communication modules, and MCMS host computer.
- Cabinets completed with power supplies and terminations.

All equipment provided must meet local codes for Western Australia, Project Specifications, as well as any other Australian/local regulations, statutory requirements, and Australian codes and standards as applicable.