

### B.02.05 MAINTENANCE – Non Confidential Summary

Operations and Maintenance (O&M) Contractors, all under the management of ElectroGas Malta Limited, shall be responsible for the maintenance of the CCGT, Regasification plant and FSU. In addition the OEM for the GTGs and STGs, Siemens, shall have a Long Term Service Agreement (LTSA) for the maintenance and major overhauls of the CCGT main rotating equipment.

Once these O&M teams are in place a maintenance programme will be developed for the each of the FSU, the Regasification facility and the CCGT Power Plant. They will have separate, but coordinated maintenance programmes due to the very differing nature of the equipment in the three sections of the facility. These maintenance programmes will be coordinated to optimize availability whilst minimizing O&M costs.

With the exception of the GTGs, STG and FSU the plant has been designed with an n+1 redundancy such that maintenance of a particular section of the plant may be carried out without affecting availability.

Scheduled preventive maintenance and regular inspections will be carried out in the key mechanical, electrical and instrumentation and control equipment with the objective of minimizing unscheduled maintenance and maximizing plant availability. A computer based Planned Maintenance System (PMS) will coordinate maintenance activities due to be performed, following the different equipment manufacturer's recommendations regarding the number and type of inspections, it will include spare parts planning and other major factors affecting the component life and proper operation of the equipment.

Routine maintenance activities to be included in the PMS will typically be carried out on the following:

- Gas Turbines mechanical maintenance: GTs will require routine inspection of the hot gas path to inform major overhaul planning. These activities will be carried out after a prescribed number of equivalent operating hours in line with manufacturer recommendations. Ancillary GT systems will also require scheduled inspections.
- Steam turbine and auxiliary equipment.
- Main seawater cooling system and auxiliary equipment.
- Auxiliary cooling water system including seawater filters, pumps and heat exchangers.
- Generators associated with Gas turbines and Steam turbine.
- Feed-water and condensate extraction pumps.
- Main steam condenser and vacuum system.
- Storage tanks and components including FSU LNG tanks and suction tank.
- CCGT and Delimara3 natural gas conditioning system.
- Heat Recovery Steam Generator, steam system and auxiliaries.
- Utilities pipelines, natural gas pipelines including pipe-fittings, valves and actuators.
- LNG cryogenic pipelines, fittings and valves.
- Regasification LNG pumps, vaporizers and heat exchangers.
- Propane loop heat exchangers, propane circulating pump and auxiliary equipment.
- Boil-off Gas Compressors and auxiliary equipment.
- FSU hull inspection and cleaning

- LNG submersible pumps.
- LNG ship-to-ship and ship-to-shore transfer systems.
- HV and MV switchgears.
- Continuous Emission Monitoring system.
- Firefighting equipment.
- Control rooms, service buildings and facilities.

Additionally, waste storage and disposal sites and equipment shall be maintained as appropriate in line with the certified Environment Management System which will be developed for the operation phase of the project.

The hull will be inspected in accordance with the durations mentioned above and cleaned from marine growth as required. The marine growth will generally be removed using soft nylon brushes; however this could vary depending on the type and density of marine growth. There will be no damage to the hull paint coating during these maintenance activities. In any case all the hull paint coatings are TBT free with relevant TBT-free certificates. The relevant permit will be issued prior to these cleaning activities being carried out.