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Document	TE-PRC-06
Revision	1
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Subject	Facility equipment maintenance procedure

Facility equipment maintenance

Safe maintenance, inspection, calibration and fault finding on turbine controls and instrumentation at client facilities.

Revision history: rev 0, 28 October 2026. Rev 1, 4 November 2026: sections aligned with the GE Vernova program requirements for work type SI9; LOTO now by TE-PRC-10.

GE Vernova program requirements, Facility Equipment Maintenance (SI9). Where each requirement is covered in this document:

1	Risk assessment, including hazard identification and control plan	Section 1 and TE-RA-04
2	Training	Section 2
3	Safe work procedures / LOTO	Section 3 and TE-PRC-10

PURPOSE AND SCOPE

Telic engineers maintain, inspect, calibrate and troubleshoot the control systems, instrumentation, fuel and actuation equipment of gas turbines, steam turbines, compressors and generator packages at client facilities, onshore and offshore. This includes 4k/8k and annual inspections, instrument and loop calibration, sensor, actuator and module replacement, control system health checks and start-up support after maintenance. The work is done under the client's maintenance and permit-to-work system; this procedure sets the Telic rules within it. It implements TE-POL-01 and TE-PRC-01.

1. RISK ASSESSMENT, INCLUDING HAZARD IDENTIFICATION AND CONTROL PLAN

Hazard identification. Before each maintenance task the hazards are identified from the scope, the equipment and its energy sources, the OEM procedure, the site risk assessment and permit, and a walk-down of the work area (method in TE-RA-01 section 1). **Risk assessment.** Each task is covered by the site's risk assessment and permit, or by a task risk assessment prepared with the site supervisor on the Telic form (completed example TE-RA-04, generic assessment TE-RA-01 section 7). **Control plan** for the main hazards of this work type:

Hazard	Control plan (E = engineering, P = procedural, PPE)
Electrical energy (24 VDC control, 110/230 VAC, MCC and generator circuits)	P: isolation and lock-out under permit (TE-PRC-10), voltage verified absent with a tested meter, no live work alone (TE-PRC-05). E: calibrated test equipment rated for the circuit. PPE: arc-rated PPE above extra-low voltage.
Stored hydraulic, lube oil and pneumatic pressure	P: isolate, vent or bleed to zero, verify with gauge before breaking a connection. E: pressure-rated fittings, bleed points. PPE: safety glasses, gloves.
Fuel gas and liquid fuel	P: fuel isolated and vented by operations, gas-free test before intrusive work, ignition sources controlled in hazardous areas. PPE: FR coverall, personal gas detector.
Rotating equipment, unexpected start	E/P: start inhibit and lock-out of starter and control system, permit states unit not to be started, try-start test.
Hot surfaces, noise	P: cool-down before work on the engine, enclosure entry only per site procedure. PPE: hearing protection, gloves.

CO2 / inert gas fire suppression in enclosures	E/P: suppression system inhibited and locked under permit before enclosure entry, verified at the release panel.
Uncontrolled change to control logic or settings	P: no change without the client's written approval; backup before and record of every change; functional test after.
Manual handling of modules, actuators and test sets	P: weight checked, two-person lift or lifting aid above 20 kg. PPE: gloves, safety footwear.

2. TRAINING

- Competence on the equipment and control system in scope, documented per engineer (CV, OEM training on Woodward and GE control systems, experience). Only engineers with that competence are assigned.
- Site permit-to-work and isolation (LOTO) training as required by the site, attended before work. Telic LOTO briefing per TE-PRC-10 section 6.
- VCA-VOL (director) and MIST or VCA (all engineers): risk assessment, permits, isolation awareness, manual handling, hazardous substances.
- Offshore certificates for offshore facilities (TE-PRC-04), H2S awareness where applicable.
- Briefing on this procedure, TE-RA-01 section 7 and TE-RA-04 before the first Telic assignment, yearly and when it changes. Facility equipment maintenance training is listed in TE-TRN-01 for both job categories, with frequency.

3. SAFE WORK PROCEDURES / LOTO

Isolation and lock-out / tag-out of hazardous energy follows Telic's LOTO procedure **TE-PRC-10** within the site's isolation system. The safe work sequence for every maintenance task:

Step	What is done
1. Plan	Scope, drawings, OEM procedure and spare parts reviewed. All energy sources of the equipment identified with the site's isolation authority (TE-PRC-10 section 2).
2. Permit and briefing	Work permit and isolation certificate issued by the site. Pre-job briefing with the control room and area authority. Telic works within the scope, area and time of the permit.
3. Isolate, lock and tag	Isolations applied by or with the site's authorised person. Each Telic engineer applies a personal lock and tag to the isolation point or lock box (TE-PRC-10 sections 4 and 7).
4. Verify zero energy	Try-start or start inhibit confirmed, voltage verified absent with a tested meter, pressure verified at zero on a gauge, suppression inhibit verified, before any intrusive work (TE-PRC-10 section 3).
5. Do the work	To the OEM procedure and the task risk assessment. Old and new parts, settings and calibration results recorded.
6. Restore	Work area cleared and inspected, guards and covers refitted, personal locks removed only by the person who applied them, isolations returned by the site.
7. Test and hand back	Functional and loop tests with the control room, results in the daily or service report, permit closed.

Where the site system does not allow a lock, the alternative controls of TE-PRC-10 sections 10 and 11 apply (tag-out with additional means), approved by the site isolation authority.

RESPONSIBILITIES

Director: owns this procedure, assigns only competent engineers, reviews findings and incidents, audits this procedure yearly.
Every engineer: follows steps 1 to 7, never works on equipment that is not isolated and verified, and stops work when the isolation or permit is in doubt.

Signed on behalf of Telic Engineering B.V. (digitally signed)
Remco Petersen, Director · 4 November 2026

Digitally signed by Remco Petersen
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