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Document	TE-RA-01
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Subject	Risk assessment program and risk assessments per work type

Risk assessment program and risk assessments per work type

How Telic identifies hazards, assesses risk, selects controls and trains for it, with the risk assessments for the severe and significant work types of the GE Vernova registration.

Revision history: rev 0, 28 October 2026. Rev 1, 4 November 2026: sections aligned with the GE Vernova requirements; risk matrix added; completed risk assessments issued as TE-RA-02, TE-RA-03 and TE-RA-04.

GE Vernova requirements, Risk Assessments. Where each requirement is covered in this document:

1	Hazard identification process or method to identify hazards across all operations and tasks	Section 1
2	Risk assessment process or method to assess the risk associated with the hazards	Section 2
3	Control measures	Section 3
4	Risk assessment training	Section 4
5	Risk assessment for each severe work type: hazards per task, risk evaluated, control measures per task (engineering, procedural, PPE)	Sections 5 to 8
6	Completed risk assessment examples: SE1 Working alone, SE14 Offshore work, SI9 Facility equipment maintenance	TE-RA-02, TE-RA-03, TE-RA-04 (uploaded with this document)

1. HAZARD IDENTIFICATION PROCESS

Hazards are identified for every operation and task of Telic, in four steps that together cover all operations:

When	How hazards are identified	Record
Yearly and when a work type is added	The director reviews all Telic operations (office and remote engineering, travel, onshore and offshore field work, maintenance, commissioning, lone working) against the hazard checklist: energy sources (electrical, pressure, fuel, rotation, thermal, chemical), work environment (hazardous areas, gas, noise, height, confined space, weather, sea), people and organisation (lone working, fatigue, communication, SIMOPS), travel and security, and incident history (TE-PRC-08).	Sections 5 to 8 of this document
Before mobilisation	Scope, site, equipment and client information reviewed; known site hazards and certificate requirements put in the assignment brief; the generic assessment for the work type selected.	Assignment brief

On site, before each task	Site induction, site risk assessment or JSA and permit reviewed; walk-down of the work area; task broken into steps and the hazards of each step listed with the site supervisor on the Telic form.	Completed task risk assessment (form as TE-RA-02 to 04)
Before starting and at every change	Last-minute risk assessment (LMRA): what can go wrong at this step, what has changed, are the controls in place; stop and reassess if not.	Daily report, toolbox talk record

2. RISK ASSESSMENT PROCESS

For every hazard the risk is evaluated as **likelihood x consequence**, before controls (initial risk) and with the controls in place (residual risk):

Likelihood (L)	Consequence (C)
1 Rare: practically never heard of in the industry	1 First aid, no lost time
2 Unlikely: has happened in the industry	2 Medical treatment, minor damage
3 Possible: has happened in comparable work	3 Lost time injury, significant damage or release
4 Likely: happens regularly in this type of work	4 Permanent injury or disability, major damage
5 Almost certain: expected if nothing is done	5 Fatality, multiple serious injuries, major loss

Likelihood \ Consequence	1 First aid	2 Medical treatment	3 Lost time injury	4 Permanent injury	5 Fatality / major loss
5	5	10	15	20	25
4	4	8	12	16	20
3	3	6	9	12	15
2	2	4	6	8	10
1	1	2	3	4	5

High 12 to 25: work is not started until additional controls bring the risk down and the site supervisor approves. Medium 5 to 11: controls applied and checked before and during the task. Low 1 to 4: normal controls, standard PPE. The residual risk must be Medium or Low before a task starts; a residual High is not accepted.

3. CONTROL MEASURES

Controls are selected in the order of the hierarchy of controls: **eliminate** the hazard (do the work at zero energy, TE-PRC-10), **substitute** (simulate or test offline instead of live), **engineering** controls (isolation, guards, fixed gas detection, rated test equipment, barriers, tool tethers), **procedural** controls (permit-to-work, isolation certificates, pre-job briefing, scheduled checks for lone workers, two-person rule, stop-work authority) and finally **PPE**, selected per TE-PRC-07. In every assessment the controls are written per task step and marked E, P or PPE so that it is visible which type of control carries the risk reduction. Controls are checked in place before the task starts (LMRA) and the person responsible for each control is named in the completed assessment.

4. RISK ASSESSMENT TRAINING

- The director is trained in risk assessment and LMRA through VCA-VOL (safety for operational supervisors, 10-year certificate) and MIST, prepares or reviews all Telic risk assessments and leads the yearly review.
- Every engineer on a Telic assignment is trained in risk assessment through MIST or VCA (risk assessment, permit-to-work, LMRA modules), through the site inductions, and through the Telic risk assessment briefing: this document, the completed examples TE-RA-02 to 04 and the form, before the first assignment and yearly. Refresher when the method or a work type changes.
- Risk assessment training is listed in the training plan TE-TRN-01 for both job categories (director / field engineer, subcontracted engineer) with frequency.

5. SE14 OFFSHORE WORK AND OFFSHORE CREW TRANSPORT

Task	Hazard	Risk	Control measures (E = engineering, P = procedural, PPE)	Res.
Helicopter transfer	Ditching, helicopter emergency	H 15	P: OPITO BOSIET/FOET or NOGEPA with CA-EBS, offshore medical, pre-flight briefing, baggage limits. PPE: survival suit, CA-EBS, lifejacket as issued.	M 5

Vessel or walk-to-work transfer	Fall between vessel and installation, drowning	H 12	E: approved gangway or basket. P: weather limits by vessel master, transfer briefing, deck crew instructions. PPE: lifejacket, hard hat, safety footwear.	M 4
Work on the installation	Emergency (fire, gas, abandonment)	H 15	P: installation induction, muster and escape routes known, drills, TE-PRC-03, TE-PRC-04 section 5. PPE: as per area, personal location card.	M 5
Instrument work in process area	H2S or hydrocarbon gas release	H 12	E: fixed gas detection. P: permit with gas test, H2S training where required. PPE: personal gas detector, escape set where required.	M 4
Work near open edges, on the deck	Dropped objects, falls	M 9	E: tool tethers, barriers. P: dropped-object controls, housekeeping, work at height permit. PPE: hard hat with chin strap.	L 3
Underwater work	Not in scope	-	Diving and underwater work are not performed by Telic (TE-PRC-04 section 4).	-

Completed assessment for an offshore assignment: TE-RA-03.

6. SE1 WORKING ALONE (LONE WORKER)

Task	Hazard	Risk	Control measures (E = engineering, P = procedural, PPE)	Res.
Control room, HMI and application work alone	Illness or injury not noticed	M 6	P: control room informed, scheduled check at agreed interval (max. 60 min), TE-PRC-05 protocol. PPE: none additional.	L 3
Instrument readings and walk-downs alone	Slip, trip, fall; gas release; no help available	M 9	E: fixed gas detection. P: lone working agreed in RA, radio, scheduled checks, location known to control room. PPE: standard PPE, personal gas detector where required.	L 3
Remote module or unmanned location	Delayed rescue	H 12	P: not alone unless site-approved contact arrangement and buddy (TE-PRC-05 section 2). PPE: radio, gas detector, lone-worker device where provided.	M 4
Travel and hotel	Accident, illness, security incident	M 8	P: itinerary shared, daily contact with director, client journey management, travel advice checked.	L 4

Completed assessment for lone working on a client facility: TE-RA-02.

7. SI9 FACILITY EQUIPMENT MAINTENANCE

Task	Hazard	Risk	Control measures (E = engineering, P = procedural, PPE)	Res.
Calibration and replacement of instruments and transmitters	Release of process or hydraulic pressure	H 12	E: isolation valves, bleed points. P: permit, isolate and bleed to zero, verify with gauge (TE-PRC-10). PPE: safety glasses, gloves.	M 4
Fault finding and module replacement in control panels	Electric shock, arc flash	H 15	E: dead-front panels, rated test equipment. P: lock-out and verification (TE-PRC-10), test before touch, no live work alone (TE-PRC-05). PPE: arc-rated PPE where above extra-low voltage.	M 5
Fuel valve and actuator maintenance	Fuel gas or liquid fuel release, fire	H 15	P: fuel isolated and vented by operations, gas-free test, hot work controls. PPE: FR coverall, gas detector.	M 5
Work on or in turbine enclosure	Unexpected start, hot surfaces, CO2 discharge, noise	H 15	E: start inhibit, CO2 inhibit locked. P: enclosure entry procedure, cool-down, permit, LOTO. PPE: hearing protection, gloves.	M 5
Functional and loop testing after maintenance	Unintended valve movement or trip	M 9	P: test agreed with control room, area controlled, return-to-service checklist.	L 3
Changes to control software or settings	Loss of protection, unsafe operation	M 8	P: client written approval, backup before change, change record, functional test.	L 2

Completed assessment for a maintenance scope: TE-RA-04.

8. ALL FIELD WORK AND M1 CONSULTANT SERVICES

Task	Hazard	Risk	Control measures (E = engineering, P = procedural, PPE)	Res.

Driving to site (rental car)	Road traffic accident	M 8	P: rest after flights, no phone while driving, speed limits, journey planned in daylight where possible.	L 4
Manual handling of equipment and test sets	Back injury	M 6	P: weight checked, lifting aids or two-person lift, VCA-VOL / MIST manual handling.	L 2

M1 Consultant services (engineering, application and documentation work in offices or remotely) is a minor work type; its hazards (display screen work, travel, lone working in client offices) are covered by sections 6 and 8. Review of this document: yearly, after an incident, and when a new work type is added.

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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