

E-SAFETYPRO – SIF RISK REPORT VIEWER

Serious Injury & Fatality Risk Assessment

SIF RISK ASSESSMENT – PROJECT PROFILE

[Print Report](#)

Company: ESP | e-SafetyPro | **Division:** ESP-HSE | Safety | **Project:** ESP-PRJ-806 | CAP Assurance Program

Location: Trevose **Date:** 2025-12-07

Assessor: Vladimir Ivensky **Email:** ivensky@me.com

Declared Role: EPCM Contractor (3)

Task / Activity: Testing

Project Size: Tier 4 – Major (\$5M–\$50M)

Work Scope:

EXECUTIVE SUMMARY

- Average Risk: 6.3
- Average Severity: 2.8
- Average Probability: 2.2

- Max Risk: 9.0
- Max Severity: 3
- Max Probability: 3

Severity Drivers (≥3):

- CAP-03 Excavation / Ground Disturbance / Drilling – 3
- CAP-04 Work at Heights / Fall Protection / Dropped Objects – 3
- CAP-05 MEWPs / Aerial Lifts – 3
- CAP-07 Hot Work / Welding / Cutting / Grinding – 3
- CAP-08 Electrical Work (Energized + De-energized) – 3
- CAP-10 Biological / Sewage / Sanitation – 3
- CAP-11 Mobile Equipment, Traffic, Earthmoving – 3
- CAP-13 Mechanical Energy / Stored Energy / Line of Fire – 3

Probability Drivers (≥3):

- A4. Field Behavior / Contract Misalignment – 3
- B7. Subcontractor SMS Maturity – 3
- C9. Resource Adequacy – 3
- C10. SIMOPS Complexity – 3
- TD – Task Demands – 3
- WP – Work Planning – 3
- YCF – Communication Factors – 3

SECTIONS A–C

Item	Score	Explanation (≥3)	Corrective Action (≥4)	Recommended Focus
A1. Clarity of Safety Role	1			
A2. Proposal / Contract Misalignment	2			

A3. Project Safety Plan / Contract Misalignment	2		
A4. Field Behavior / Contract Misalignment	3		Communicate role boundaries clearly to field teams to prevent unintended expansion of responsibilities.
B6. Client SMS Maturity	1		
B7. Subcontractor SMS Maturity	3		Review subcontractor SMS documentation and confirm basic alignment with project requirements.
C8. Change Risk / Scope Volatility	2		
C9. Resource Adequacy	3		Identify specific resource gaps and plan short-term mitigations to protect SIF-critical work.
C10. SIMOPS Complexity	3		Improve coordination between overlapping activities through daily SIMOPS reviews or huddles.
C11. Site Logistics & Access	2		

C12. Unique or Extreme Project-Specific Risks	1			
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SECTION E – SYSTEMIC AMPLIFIERS

Item	Score	Explanation (≥3)	Corrective Action (≥4)	Recommended Focus
HF – Human Factors	2			
OF – Organizational Factors	2			
SL – Supervision & Leadership	2			
TD – Task Demands	3		Review task steps and adjust complexity or pace where feasible.	
WP – Work Planning	3		Tighten planning to ensure key SIF controls are pre-planned, not improvised in the field.	
YCF – Communication Factors	3		Strengthen pre-task briefings and handovers for SIF-relevant activities.	

SECTION D – SIF HAZARDS

CAP ID	Hazard	Severity	Explanation (≥3)	Corrective Action (≥4)	Recommended Focus
CAP-03	Excavation / Ground Disturbance / Drilling	3			Verify that CAP Assurance requirements are applied in planning, permitting, and supervision for this activity.
CAP-04	Work at Heights / Fall Protection / Dropped Objects	3			Verify that CAP Assurance requirements are applied in planning, permitting, and supervision for this activity.
CAP-05	MEWPs / Aerial Lifts	3			Verify that CAP Assurance requirements are applied in planning, permitting, and supervision for this activity.
CAP-06	Cranes & Hoisting / Rigging / Suspended Loads	2			

CAP-07	Hot Work / Welding / Cutting / Grinding	3		Verify that CAP Assurance requirements are applied in planning, permitting, and supervision for this activity.
CAP-08	Electrical Work (Energized + De-energized)	3		Verify that CAP Assurance requirements are applied in planning, permitting, and supervision for this activity.
CAP-09	Hazardous Chemicals & HAZWOPER	2		
CAP-10	Biological / Sewage / Sanitation	3		Verify that CAP Assurance requirements are applied in planning, permitting, and supervision for this activity.
CAP-11	Mobile Equipment, Traffic, Earthmoving	3		Verify that CAP Assurance requirements are applied in planning, permitting, and supervision for

				this activity.
CAP-13	Mechanical Energy / Stored Energy / Line of Fire	3		Verify that CAP Assurance requirements are applied in planning, permitting, and supervision for this activity.

ACTION LOG

Area	Item	Score	Explanation	Corrective Action	Action / Recommendation
A	A4. Field Behavior / Contract Misalignment	3			Communicate role boundaries clearly to field teams to prevent unintended expansion of responsibilities.
B	B7. Subcontractor SMS Maturity	3			Review subcontractor SMS documentation and confirm basic alignment with project requirements.
C	C9. Resource Adequacy	3			Identify specific resource gaps and plan short-term

				mitigations to protect SIF-critical work.
C	C10. SIMOPS Complexity	3		Improve coordination between overlapping activities through daily SIMOPS reviews or huddles.
Amplifier	TD – Task Demands	3		Review task steps and adjust complexity or pace where feasible.
Amplifier	WP – Work Planning	3		Tighten planning to ensure key SIF controls are pre-planned, not improvised in the field.
Amplifier	YCF – Communication Factors	3		Strengthen pre-task briefings and handovers for SIF-relevant activities.
CAP Hazard	CAP-03 – Excavation / Ground Disturbance / Drilling	3		Verify that CAP Assurance requirements are applied in planning, permitting, and supervision for this activity.

CAP Hazard	CAP-04 – Work at Heights / Fall Protection / Dropped Objects	3		Verify that CAP Assurance requirements are applied in planning, permitting, and supervision for this activity.
CAP Hazard	CAP-05 – MEWPs / Aerial Lifts	3		Verify that CAP Assurance requirements are applied in planning, permitting, and supervision for this activity.
CAP Hazard	CAP-07 – Hot Work / Welding / Cutting / Grinding	3		Verify that CAP Assurance requirements are applied in planning, permitting, and supervision for this activity.
CAP Hazard	CAP-08 – Electrical Work (Energized + De-energized)	3		Verify that CAP Assurance requirements are applied in planning, permitting, and supervision for this activity.
CAP Hazard	CAP-10 – Biological /	3		Verify that CAP Assurance

	Sewage / Sanitation			requirements are applied in planning, permitting, and supervision for this activity.
CAP Hazard	CAP-11 – Mobile Equipment, Traffic, Earthmoving	3		Verify that CAP Assurance requirements are applied in planning, permitting, and supervision for this activity.
CAP Hazard	CAP-13 – Mechanical Energy / Stored Energy / Line of Fire	3		Verify that CAP Assurance requirements are applied in planning, permitting, and supervision for this activity.

APPENDIX A – CAP CHECKLISTS

CAP-03 – EXCAVATION / GROUND DISTURBANCE / DRILLING (SEVERITY 3)

Hazard Explanation: Not documented

Current Corrective Action: Not documented

CAP Assurance Checklist: Verify the full CAP Assurance checklist for this hazard before authorizing or continuing work.

Placeholder for full CAP checklist questions for CAP-03.

CAP-04 – WORK AT HEIGHTS / FALL PROTECTION / DROPPED OBJECTS (SEVERITY 3)

Hazard Explanation: Not documented

Current Corrective Action: Not documented

CAP Assurance Checklist: Verify the full CAP Assurance checklist for this hazard before authorizing or continuing work.

Placeholder for full CAP checklist questions for CAP-04.

CAP-05 – MEWPS / AERIAL LIFTS (SEVERITY 3)

Hazard Explanation: Not documented

Current Corrective Action: Not documented

CAP Assurance Checklist: Verify the full CAP Assurance checklist for this hazard before authorizing or continuing work.

Placeholder for full CAP checklist questions for CAP-05.

CAP-06 – CRANES & HOISTING / RIGGING / SUSPENDED LOADS (SEVERITY 2)

Hazard Explanation: Not documented

Current Corrective Action: Not documented

CAP Assurance Checklist: Verify the full CAP Assurance checklist for this hazard before authorizing or continuing work.

Placeholder for full CAP checklist questions for CAP-06.

CAP-07 – HOT WORK / WELDING / CUTTING / GRINDING (SEVERITY 3)

Hazard Explanation: Not documented

Current Corrective Action: Not documented

CAP Assurance Checklist: Verify the full CAP Assurance checklist for this hazard before authorizing or continuing work.

Placeholder for full CAP checklist questions for CAP-07.

CAP-08 – ELECTRICAL WORK (ENERGIZED + DE-ENERGIZED) (SEVERITY 3)

Hazard Explanation: Not documented

Current Corrective Action: Not documented

CAP Assurance Checklist: Verify the full CAP Assurance checklist for this hazard before authorizing or continuing work.

Placeholder for full CAP checklist questions for CAP-08.

CAP-09 – HAZARDOUS CHEMICALS & HAZWOPER (SEVERITY 2)

Hazard Explanation: Not documented

Current Corrective Action: Not documented

CAP Assurance Checklist: Verify the full CAP Assurance checklist for this hazard before authorizing or continuing work.

Placeholder for full CAP checklist questions for CAP-09.

CAP-10 – BIOLOGICAL / SEWAGE / SANITATION (SEVERITY 3)

Hazard Explanation: Not documented

Current Corrective Action: Not documented

CAP Assurance Checklist: Verify the full CAP Assurance checklist for this hazard before authorizing or continuing work.

Placeholder for full CAP checklist questions for CAP-10.

CAP-11 – MOBILE EQUIPMENT, TRAFFIC, EARTHMOVING (SEVERITY 3)

Hazard Explanation: Not documented

Current Corrective Action: Not documented

CAP Assurance Checklist: Verify the full CAP Assurance checklist for this hazard before authorizing or continuing work.

Placeholder for full CAP checklist questions for CAP-11.

CAP-13 – MECHANICAL ENERGY / STORED ENERGY / LINE OF FIRE (SEVERITY 3)

Hazard Explanation: Not documented

Current Corrective Action: Not documented

CAP Assurance Checklist: Verify the full CAP Assurance checklist for this hazard before authorizing or continuing work.

Placeholder for full CAP checklist questions for CAP-13.

Note: This profile reflects current-state SIF risk based on contract role, interface risk, operational context, hazard presence, and systemic amplifiers. Scores ≥ 3 require explanation; scores ≥ 4 require corrective action.