

## Salvo Safety System

# Salvo Control Panel (SCP) Health Check Guide

### TESTING REGIME OVERVIEW

The Salvo testing regime consists of two tiers, each with a specific purpose, frequency, and scope.

All two tiers are necessary to support intended safety performance required for the system to maintain its intended level of safety performance. Use outside of specified conditions or failure to follow instructions may result in reduced safety performance.

No safety system eliminates all risk. Appropriate operational controls must be maintained.

This system is intended to operate as part of a broader site safety program. The system should not be relied upon as the sole safeguard against vehicle movement.

### SCP TESTING TIER & RESPONSIBILITIES

Tier 1 Operational	Tier 2 Visual
Weekly	Monthly - 6M
Functional check	External check
Operator conducts check	Operator conducts check
Do NOT open enclosure	Do NOT open enclosure
Time Required per unit: Approximately 5 Minutes	Time Required per unit: Approximately 3 - 5 Minutes

**No Compromise on Safety.**

## Testing Frequency by Environment Category

Category	Characteristics	Tier 1	Tier 2
A – Indoor	Indoor or fully sheltered loading bay; temperature controlled; no direct weather exposure; climate-controlled warehouse environment	Weekly	Every 6 months
B – Outdoor	Fully exposed outdoor; coastal or high-humidity location; freeze-thaw climate; chemical or wash-down exposure; SCP visibly weathered or stained	Weekly	Every 3 months



### **WARNING – DO NOT OPEN THE SCP ENCLOSURE**

Opening the SCP enclosure by anyone other than Castell/Sentric authorised personnel. Opening compromises IP65 seal integrity and introduces the moisture ingress pathway that is the primary cause of dangerous solenoid failure. Any unit opened by non-authorised personnel must be reported and inspected before return to service.



**WARNING**

Do NOT open the SCP enclosure under any circumstances during this test.  
Do NOT use any tools to force key removal.

**TIER 1 – OPERATIONAL TEST (WEEKLY)**

Confirm SCP Key trapping and release operates correctly.



Dock Position - Door open/closed scenarios apply here.

**Scenario A – Trailer Present and Door Open**



	ACTION	EXPECTED RESULT
	1. Confirm the key is present in the SCP and turned to the trapped position.	Key is inserted and trapped.
	2. <b>Without pressing the pushbutton</b> , try to remove trapped key.	Key Must <b>NOT</b> Release.
	3. <b>Press and hold the pushbutton</b> , then attempt to remove the key.	Key Must <b>NOT</b> Release.

**IF KEY RELEASES – DANGEROUS FAILURE**

- Do NOT use dock.
- Decommission dock immediately.

→ Report to Castell/Kirk (Details below)  
[enquiries@castell.com](mailto:enquiries@castell.com)  
[technical.supportkirk@sentricksafetygroup.com](mailto:technical.supportkirk@sentricksafetygroup.com)

### Scenario B – Trailer Present and Door Open / Use Master Key

	ACTION	EXPECTED RESULT
	1. Insert the Key into the SCP and turn it to the trapped position.	Key inserts and traps.
	2. Without pressing the pushbutton, try to remove trapped key.	Key Must <b>NOT</b> Release.
	3. Press and hold the pushbutton, then attempt to remove the key.	Key Must Release.

**IF KEY RELEASES WITHOUT BUTTON – DANGEROUS FAILURE**

- Do NOT use dock.
- Decommission dock immediately.
- Report to Castell/Kirk.

**IF KEY DOES NOT RELEASE WITH BUTTON**

- ➔ Do **NOT** use dock.
- ➔ Decommission dock immediately.
- ➔ Report to Castell/Kirk. (Details below)  
[enquiries@castell.com](mailto:enquiries@castell.com)  
[technical.supportkirk@sentricssafetygroup.com](mailto:technical.supportkirk@sentricssafetygroup.com)

REPEAT CYCLE REQUIREMENT	
Repeat Test 3 times	✓
All 3 cycles must pass	✓
Any inconsistency = FAIL	✗

FUNCTIONAL CHECKS	
Pushbutton moves freely	✓
Key inserts smoothly	✓
Fixings present and tight	✓
Slight stiffness	<b>MONITOR</b>
Stuck/Damaged = <b>FAIL</b>	✗

QUICK SYSTEM CHECKS	
Beacon Functioning	✓
Traffic lights correct (RED when trailer docked) (Green when no trailer/door closed)	✓
<b>Any Anomaly, Report and do not use the dock until resolved</b>	



**WARNING**

Do NOT open the SCP enclosure under any circumstances during this test.  
Do NOT use any tools to force key removal.

## TIER 2 – VISUAL HEALTH CHECK

Check for damage, moisture, or incorrect installation.



**ENCLOSURE**

Check for cracks or damage.

**PUSHBUTTON**

Free movement.

**SEAL**

Must be flush, No Gaps.

**KEY SLOT**

Check for cracks or damage.

**CABLE ENTRIES**

Must be sealed and at bottom of enclosure unit.

ENCLOSURE CONDITION	
No cracks or damage	✓
No warping or deformation	✓
Any crack or split = <b>FAIL</b>	✗
Entries facing up = <b>FAIL</b>	✗

MOISTURE & INSTALLATION	
No staining or deposits	✓
No Corrosion	✓
Unit securely mounted	✓
Any moisture evidence = <b>FAIL</b>	✗
Entries facing up = <b>FAIL</b>	✗

SEALS & ENTRIES	
Door fully closed (flush)	✓
No visible gaps	✓
Glands tight	✓
All entries sealed	✓
No Holes have been drilled into enclosure	✓
Any gap or unsealed entry = <b>FAIL</b>	✗

INSPECTION OUTCOME		
<b>PASS</b>	✓	Continue Operation.
<b>MONITOR</b>	✓	Increase inspection frequency.
<b>FAIL</b>	✗	→ Do <b>NOT</b> use dock. → Decommission dock immediately. → Report to Castell/Kirk. (Details below) <a href="mailto:enquiries@castell.com">enquiries@castell.com</a> <a href="mailto:technical.supportkirk@sentricksafetygroup.com">technical.supportkirk@sentricksafetygroup.com</a>

SITE	DATE			ENV CAT	A / B	TESTER				
SCP Serial #	Bay 1	Bay 2	Bay 3	Bay 4	Bay 5	Bay 6	Bay 7	Bay 8	Bay 9	Bay 10
<b>TIER 1: OPERATIONAL TEST — ✓ = Pass X = Fail N/A = Not Applicable</b>										
1. Key present and trapped in SCP										
2. Key does NOT release without pushbutton										
3. Key does NOT release with pushbutton + door OPEN										
4. Key DOES release with pushbutton + door CLOSED										
5. 3 full lock/unlock cycles completed — all pass										
6. SGL: key insert/trap/release smooth (if fitted)										
7. SGL: lubrication performed (if required)										
8. Beacon and traffic lights functioning										
<b>TIER 2: VISUAL HEALTH CHECK — ✓ = Pass   M = Monitor X = Fail</b>										
9. Enclosure: no cracks, splits, discolouration										
10. Door seal: flush, no visible gaps										
11. Conduit entries: all sealed, glands tight										
12. No moisture evidence (staining, deposits, rust)										
13. Mounting secure, entries at bottom/side (not top)										
14. Cable drip loop present below entry										
15. External fixings: all present and tight										
16. Pushbutton: free movement, returns to position										
17. Key aperture: clean, unobstructed										
<b>OVERALL RESULT PER BAY — Write: P (Pass)   M (Monitor)   F (Fail)</b>										
RESULT										

Comments:											
Signature:				Print Name:				Job Title:			

**ANY FAIL: Decommission dock position immediately. Do not use until inspected and cleared. Report to (Castell/Kirk Email: [enquiries@castell.com](mailto:enquiries@castell.com) / [technical.supportkirk@sentricksafetygroup.com](mailto:technical.supportkirk@sentricksafetygroup.com))**

**ANY MONITOR: Increase test frequency to next higher environment category.**

**Re-assess at next test.**

Environment Categories: Tier 2: A = Indoor/sheltered (every 6 months) | B = Outdoor (every 3 months) |