solid test

SRM Static Fire Checklist v1 · Started by Randi · 2026/11/10 04:07

PROGRESS	NOTES	EXPORTED
8 / 39	0	2026/11/12 10:59

Snowdon Consulting · Solid rocket motor testing. Matches the SRM Hazard Mitigation Plan and Emergency Response Plan (checklist version 6 Nov 2026).

Every box must be ticked before firing. Save the record as a PDF and post it in the Health & Safety chat, once before firing and once after the test. The RSO keeps final go/no-go.

1. Test details

- [x] Test date recorded
  ✓ Randi · 2026/11/10 04:07
- [x] Test report no. recorded
  e.g. PTR-012
  ✓ Randi · 2026/11/10 04:07
- [x] Test site / stand recorded
  Field name or address.
  ✓ Randi · 2026/11/10 04:07
- [ ] Motor / grain no. recorded
  Batch and grain #.
  Unticked by Caelen · 2026/11/10 04:19
- [x] Range Safety Officer named
  ✓ Randi · 2026/11/11 04:35
- [x] Checklist completer named
  ✓ Randi · 2026/11/11 04:35

2. Pre-test go/no-go

Site and weather

- [ ] FENZ fire season checked (checkitsalright.nz); permit held if required
- [ ] Wind within limits (≤ 20 km/h) and not blowing toward trees
- [ ] Firebreak cleared evenly all round the stand
- [ ] Grass wetted with the ute tank and pump; ute parked upwind, pump primed
- [ ] Nothing overhanging the stand (branches, wires)

Stand and enclosure

- [x] Enclosure inspected: no cracks or loose fasteners; top and bottom vents clear
  ✓ Randi · 2026/11/10 04:08
- [x] Motor restraint and ground anchors checked
  ✓ Randi · 2026/11/10 04:08

- [x] Blast plate / deflector in place over sand or gravel bed
  ✓ Randi · 2026/11/10 04:08

Equipment and people

- [ ] Extinguishers, beaters, water and first aid kit at the firing point
- [ ] Phone signal confirmed; 111 caller and site address / GPS assigned
- [ ] All roles filled and briefed
  - [ ] RSO
  - [ ] Test Conductor
  - [ ] 2 × Fire Watch
  - [ ] First Aider
  - [ ] Marshal
- [ ] Everyone behind the safety line; spectators and animals clear
- [ ] Hearing and eye protection on

Firing system

- [ ] Firing system safe; key held by the RSO
- [ ] Igniter installed last, phones off near the pad
- [ ] Continuity checked from the safety line

Record

- [ ] Pre-test record saved as PDF
- [ ] Pre-test record posted in the Health & Safety chat

3. Fire

> HOLD · DO NOT ARM until the pre-test checklist is complete and the record is posted to the H&S chat. The RSO gives the final go. If anything changes on the range, call HOLD.

- [ ] RSO final go given

4. Post-test

- [ ] Outcome recorded
  Nominal burn · Anomaly (no CATO) · Misfire / hang-fire · CATO · Aborted before firing
- [ ] Motor burned out, or hang-fire wait (min. 5 min) observed; key out before approach
- [ ] Area swept for spot fires and fragments
- [ ] Burnt ground and firebreak wetted down
- [ ] Fire Watch kept for 30 minutes after the last firing
- [ ] Hardware made safe; unused motors and igniters stored separately
- [ ] Results and anomalies recorded in the Propellant Test Report (sections 8–9)

> For a CATO, misfire or anomaly: follow the Emergency Response Plan (E1 for CATO, E5 for misfire) and log it in Test Report section 9.

Record

- [ ] Post-test record saved as PDF
- [ ] Post-test record posted in the Health & Safety chat

Activity

2026/11/10 04:07	**Randi** ticked Test date recorded
2026/11/10 04:07	**Randi** ticked Test report no. recorded
2026/11/10 04:07	**Randi** ticked Test site / stand recorded
2026/11/10 04:08	**Randi** ticked Motor restraint and ground anchors checked
2026/11/10 04:08	**Randi** ticked Enclosure inspected: no cracks or loose fasteners; top and bottom vents clear
2026/11/10 04:08	**Randi** ticked Blast plate / deflector in place over sand or gravel bed
2026/11/10 04:19	**Caelen** ticked Motor / grain no. recorded
2026/11/10 04:19	**Caelen** unticked Motor / grain no. recorded
2026/11/11 04:35	**Randi** ticked Range Safety Officer named
2026/11/11 04:35	**Randi** ticked Checklist completer named