

Risk Assessment - Generator

RI-RA-004 | Version 2.1 | APPROVED

Document Ref	Version	Status	Issue Date	Review	Owner
RI-RA-004	2.1	APPROVED	23 August 2026	Annual / material change	Rugby Inflatables
Purpose			Scope		
To identify foreseeable hazards associated with delivery, positioning, connection, operation, refuelling, shutdown and removal of a generator used to power inflatable equipment.			Applies where a hired generator is used at a public event and operated by trained Rugby Inflatables Staff. Site-, generator- and event-specific conditions must still be assessed.		

Risk scoring

Likelihood x Severity = Risk Score using the 1 / 3 / 5 approach. A score of 25 is unacceptable and the generator must not be operated until the risk is adequately controlled. Operating principle: outdoors, stable ground, restricted public access, intended inflatable load only, trained staff control.

Hazard	Potential harm	At risk	Controls in place	L	S	Score	Further controls
Electrical shock	Serious injury/fatality	Staff / Users / Public	Visual checks; trained staff connections; generator off for connect/disconnect; RCD protection.	1	5	5	Keep connections off ground where practicable; stop on damage/moisture.
Damaged cables/plugs/connectors	Shock, burns, fire, power failure	Staff / Users / Public	Visually check; damaged equipment not used.	1	5	5	Remove/replace defective items.
Trip hazard from cables	Trips/falls/cable damage	Public / Staff	Route away from public; cable ramps/matting; supervision.	1	3	3	Shorten exposed runs where practicable.
Generator fumes / carbon monoxide	Illness, unconsciousness, asphyxiation	Staff / Public	Outdoors only; never enclosed/semi-enclosed; position exhaust away from people.	1	5	5	Monitor wind direction; stop/reposition if fumes could affect people.
Fumes entering buildings	CO exposure	Public / Venue occupants	Away from doors/windows/air intakes; outdoors only.	1	5	5	Reassess if wind/openings change.
Fire / hot surfaces	Burns, fire spread, property damage	Staff / Public	Refuel only off/coolled; approved fuel containers; no smoking; extinguisher available.	1	5	5	Maintain exclusion zone and fuel separation.
Fuel spill / leak	Fire, slips, contamination, skin contact	Staff / Public / Environment	Check leaks; handle away from public; shut down on leak.	1	5	5	Contain/manage spill; no restart until resolved.
Refuelling	Fire, burns, fuel exposure	Staff	Check fuel before event; switch off/cool; approved containers; away from public/ignition.	1	5	5	Plan fuel to avoid public-operation refuelling.
Hot engine / exhaust	Burns / ignition	Staff / Public	Restrict access; cool before handling; keep combustibles away.	1	5	5	Barriers/signage where needed.
Noise	Discomfort/nuisance	Staff / Public	Position away from public; monitor noise.	1	3	3	Use quieter generator/reposition where available.
Movement / tampering	Damage, burns, electrical injury, power interruption	Children / Public	Level stable ground; secure/barrier; signage; continuous supervision.	1	3	3	Maintain restricted access.
Unsuitable ground	Movement, spill, damage	Staff / Public	Suitable location; level stable ground.	1	5	5	Do not operate if stable positioning impossible.
Incorrect generator loading	Overheating, failure, fire, loss of power	Staff / Users	Confirm capacity matches intended inflatable load; no unauthorised extra loads.	1	5	5	Stop if overload/abnormal operation suspected.
Power failure / shutdown	Inflatable deflation and user injury	Users	Stop use; evacuate calmly; investigate only safe obvious causes; fully reinflate/recheck before restart.	1	5	5	Follow RI-EP-001.
Rain / flooding / weather	Shock, equipment failure, unsafe operation	Staff / Users / Public	Monitor weather; keep equipment/connections from standing water; stop if threatened.	1	5	5	No makeshift covers that trap fumes/restrict ventilation.
Manual handling / transport	Strain, crush, dropped equipment	Staff	Use safe handling, assistance/lifts; secure in transport; allow cooling.	3	5	15	Use RI-HS-002 and supplier transport instructions.

Assessment note

This is a generic generator assessment. The actual hired generator, supplier instructions, event layout, electrical load, weather and site conditions must still be checked before and during use.

Related controlled documents

RI-SOP-003 - Generator Safe Operating Procedure • RI-COMP-002 - Electrical Safety / Electricity at Work Regulations • RI-EP-001 - Emergency Procedures • RI-SOP-001 - Method of Work: Inflatable Setup & Collection • RI-HS-002 - Manual Handling Procedure • applicable generator supplier/manufacturer instructions

Document approval

Prepared by	Approved by	Approval date	Next review
Rugby Inflatables	Macauly Peel - Owner	23 August 2026	August 2027

Revision history

Version	Date	Change	Status
2.0	August 2026	Previous approved controlled issue.	Superseded
2.1	23 August 2026	Administrative cross-reference refresh: legacy descriptive names replaced by current RI-SOP/RI-COMP/RI-EP references; generator risk-control intent retained.	Approved