



## WORKPLACE/TASK BASED RISK ASSESSMENT FOR USING A PETROL OR DIESEL GENERATOR

**LOCATION:** ANY CANAL/RIVERSIDE LOCATION

### NOTES

1. This Risk Assessment is specifically for the use of a Generator (Petrol/Diesel) on a KESCRG or WRG controlled site for the purposes of canal restoration. Use of a bottled-gas generator is not anticipated.
2. This Risk Assessment should be included in the documentation taken to site and retained by the site leader.
3. There must be a review of this Risk Assessment following any site feedback or every 2 years, whichever comes first. Revision and date are shown in the header.

### MANDATORY PPE

1. Hard Hat, Safety Boots and fastened High Viz Jacket (as with any site work)
2. Gloves

### Risk Scoring Matrix

Likelihood	Meaning	Severity	Meaning
1	Possible	1	Minor cut or bruise/injury
2	More than possible	2	Cut/Injury, needs First Aid
3	Fair chance	3	Injury needing First Aid
4	Likely	4	Broken Limb/ Serious injury
5	Certain	5	Severe injury/Death



**HAZARDS FROM GENERATOR**

Ref no	HAZARD	LIK	SEV	RAT	EXISTING CONTROL MEASURES	ADDITIONAL CONTROL MEASURES REQUIRED	LIK	SEV	RAT
1.	Electric shock from generator output, potentially fatal, or severe burns from entry/exit of current.	4	5	20	1. Pre-use checks on generator include checking electrical parts for cracks/defects etc. 2. Pre-use checks on cables mandatory. 3. All electrical items are PAT-tested, pre-use check includes verification of in-date PAT test. 4. Site equipment is all 110V, reducing potential for fatal shock	1. None 2. None 3. None 4. None  Note. Some generators are switchable 110V/240V. 240V output only to be used in dry conditions away from worksite.	1	4	4
2.	Hot parts on generator exhaust, burns	4	3	12	1. Awareness. Covered in on-site brief. 2. Generator positioned away from walking route, minimising risk of slips/trips onto hot parts.	1. None 2. Best position determined by site leader pre-start on site.	1	3	3
3.	Generator rolling away, potential crushed foot or limb injury	1	4	4	1. Our generators usually have 1 set of wheels plus carry handles, unlikely to roll. 2. Generator sited on level ground where possible.	1. None 2. None.	1	3	3
4.	Trip Hazard from cables	3	3	9	1. Generator placed away from work area 2. Cables positioned away from work area. Covered in SWI and	1. Site leader to agree location of generator pre-start. 2. Site Leader to check on site	1	2	2



					on-site brief.				
5	Electric shock from generator power cable/switches.	2	5	10	1. 110V machinery only to be used on site. 2. CEEFORM plug/sockets fitted, which are rain-resistant.	1. None 2. None	1	3	3
6.	Dermatitis from diesel and lube oil.	2	2	4	1. General hygiene 2. Gloves as part of PPE 3. Minimise spillage by using funnels (in Kit Trailer)	1. None 2. None 3. None	1	2	2
7.	Manual handling of generator from trailer/on site, potential lifting and twisting.	4	3	12	1. Trailer kit includes a wheelbarrow to minimise lifting. 2. Generator has handles, easy to grip. 3. Generator is a 2-man lift, with 3 <sup>rd</sup> to steady wheelbarrow.	1. None 2. None 3. None	1	3	3
8	Inhalation of exhaust fumes, leading to asphyxiation	3	5	15	1. Generators not used in confined spaces, i.e. not in lock chambers. 2. Generator positioned away from immediate working area, dispersing exhaust fumes.	1. Site leader to check pre-work 2. Site leader to check pre-work  Note. Site work is in the open air, so exhaust fumes are dispersed.	1	3	3
9	Fire from petrol / diesel and lube oil	3	4	12	1. SWI covers allowing generator to cool before filling. 2. Fuel in sealed containers, away from source of ignition. 3. Fuel stored away from generator. 4. Lube oil has high flashpoint, kept in small quantities in sealed containers.	1. None 2. None 3. Site leader to check on site. 4. None	1	4	4
10	Noise from generator,	3	3	9	1. Generator used in open air,	1. None	1	1	1



	leading to hearing impairment				away from work site so noise disperses.			



**CONTROL MEASURES. HAZARDS FROM GENERATOR**

<b>Ref no</b>	<b>ADDITIONAL CONTROL MEASURE REQUIRED</b>	<b>BY WHOM</b>	<b>BY WHEN</b>	<b>STATUS (COMPLETED YES/NO)</b>
1.	1. None			
2	1. None			
3	1. None 2. Pre-work briefing	2. Site Leader	Before work starts	
4	1. None 2. None 3. Site Leader to check before work starts.	3. Site Leader	Before work starts	
5	1. None 2. None			
6	1. None 2. None 3. None			
7	1. None 2. None 3. None			
8	1. Site leader to check pre-work 2. Site leader to check pre-work	1 & 2. Site Leader	1 & 2. Before work starts	
9	1. None 2. None 3. Site leader to check on site. 4. None	3. Site leader	Before work starts	
10	1. None			