

*D.S.I. power ltd*  
*Diesel Generators Supply, Installation and maintenance.*

**HAZARD IDENTIFICATION AND RISK ASSESSMENT**

**RISKS CONSIDERED**

Ass No	Consider Risks	Number of Personnel effected	Frequency of Activity	Duration of Activity	Relevant Y or N/A
1	Ground Conditions				
2	Access to and Exit from site				
3	Under ground Services				
4	Plant Operations and Movement				
5	Working at height				
6	Setting up of cranes				
7	Unloading Vehicles				
8	Use of lifting pulling gear				
9	Use of Ladders				
10	Use of Hand tools				
11	Work on Scaffold Platform towers				
12	Manual Handling Operations				
13	Working near or under Overhead Power lines or electrified fencing.				
14	General Works- Environmental				
15	Noise				
16	Fire				
17	Burning/ Cutting /Welding by use of LPG				
18	Discovery of Hazardous materials				
19	Disposal of Waste Materials				
20	Handling and Storage LPG				
21	Near Miss Action				
22	Works Near and around Electricity				
23	Protection of the Public				
24	Heat Exhaustion / Climate Conditions				
25	Storage of Oils in Flammable Fuels				
26	House Keeping				
27	Working near Water				
28	Working near rail lines				
29	Car Parking and Visitors				
30	Movement of Plant – Work Area				
31	Access to the Jetty				
32	TRANSPORT OF LPG BY ROAD				
33	Lone Working				
34	Fitting Swing round boom extension				
35	Use of Large Mobile Cranes				
36	Spare				
37	Spare				
38	Spare				
35	INDUCTION / INFORMATION RECORD				

The above list is not to be considered as prescriptive or inclusive in any way being constantly under review and modification.

## HOW WE ASSESS RISKS AND ASSIGN PROBABILITIES.

DSI Power has employed the following method to assess any risks associated with any activity that can be identified and measured.

The severity of the risk is classified into four levels.

Classification	Description
Catastrophic (4)	Multiple loss of life from injury or occupational disease, immediately or delayed. Damage to works or plant causing delays greater than 7 days. Total loss in excess of £5m
Major (3)	Single loss of life from injury or occupation disease, immediately or delayed. Damage to works or plant causing delays between 1 and 7 days. Total loss in excess of £100K and £5m
Serious (2)	RIDDOR reportable injury, disease or dangerous occurrence. Lost time or injury resulting in the lost of more than one working day. Damage to works or plant causing delays of up to 1 day.
Minor (1)	Minor injury, no lost time or person involved returns to work during the shift after treatment. Damage to works or plant does not cause significant delay. Total loss up to £1k

The likelihood of an injury from the identified hazard is classified in to 5 levels when **NO** safety measures have bee employed.

Classification	Description
Frequent (A)	An effect arising from the hazard that is likely to be encountered repeatedly during the project or task.
Probable (B)	An effect arising from the hazard that is likely to occur more than once during the project or task.
Occasional (C)	An effect arising from the hazard that is likely to occur during the project or task.
Remote (D)	An effect arising from the hazard that is unlikely to occur during the project or task.
Improbable (E)	An effect arising from the hazard that is extremely unlikely to occur during the project or task.

The likelihood and severity are multiplied to create a risk index for the hazard levels when **NO** safety measures have been employed.

Likelihood / severity	Catastrophic (4)	Major (3)	Serious (2)	Minor (1)
Frequent (5)	4 x 5 = 20	3 X 5 = 15	2 X 5 = 10	1 X 5 = 5
Probable (4)	4 X 4 = 16	3 X 4 = 12	2 X 4 = 8	1 X 4 = 4
Occasional (3)	4 X 3 = 12	3 X 3 = 9	2 X 3 = 6	1 X 3 = 3
Remote (2)	4 X 2 = 8	3 X 2 = 6	2 X 2 = 2	1 X 2 = 2
Improbable (1)	4 X 1 = 4	3 X1 = 3	2 X 1 x 2	1 X 1 =1

Empirical evidence shows that when safety measures are employed the likelihood and severity of any accident is reduced by a score of maximum 8 to a minimum 2 resulting in a RESIDUAL RISK (**RR**). For the tasks in this project any activity with a residual risk greater than 6 is deemed unacceptable requiring an alternative method or additional safety measures. It is this residual risk score that is shown against individual hazard assessment sheets in the following pages.

**With the application of good practice, training and safety measures the works to be completed on this site have an acceptable maximum Residual Risk score of 6 from a maximum of 20**