

## ***Appendix 11.5.7***

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### ***Consequence Results of Significant LPG and Petrol Release Events***

# Appendix 11.5.7 Consequence Results of LPG and Petrol Release for LPG filling Station

		Hazard distance from release source (m)	
		LPG Station 1*	
		Dominant Weather Class (day-time): C4	Dominant Weather Class (night-time): E3
<b>LPG Tank Rupture (full)</b>			
Fireball Radius	100%	60	60
Thermal Radiation	90%	60	60
Thermal Radiation	50%	63	63
Thermal Radiation	3%	79	80
Flash fire (0.85 LFL)	100%	257	222
<b>LPG Tank Rupture (60%)</b>			
Fireball Radius(m)	100%	50	50
Thermal Radiation	90%	50	50
Thermal Radiation	50%	54	54
Thermal Radiation	3%	68	68
Flash fire (0.85 LFL)	100%	217	187
<b>LPG Tanker Rupture (full)</b>			
Fireball Radius	100%	60	60
Thermal Radiation	90%	60	60
Thermal Radiation	50%	63	63
Thermal Radiation	3%	79	81
Flash fire (0.85 LFL)	100%	259	224
<b>LPG Tanker Rupture (50%)</b>			
Fireball Radius	100%	57	57
Thermal Radiation	90%	57	57
Thermal Radiation	50%	51	51
Thermal Radiation	3%	65	65
Flash fire (0.85 LFL)	100%	207	177
<b>BLEVE (full)</b>			
Fireball Radius	100%	60	60
Thermal Radiation	90%	82	83
Thermal Radiation	50%	104	104
Thermal Radiation	3%	142	142
<b>BLEVE (50%)</b>			
Fireball Radius	100%	48	48
Thermal Radiation	90%	66	66
Thermal Radiation	50%	84	84
Thermal Radiation	3%	115	115
<b>Petrol</b>			
Fireball Radius	100%	40	40
Pool Fire (Max Pool Radius)		20	15
		Downwind distance (m)	
Thermal Radiation	90%	38	34
Thermal Radiation	50%	55	48
Thermal Radiation	3%	77	70
Flash fire (0.85 LFL)	100%	80	81

\* Generic case for all LPG filling stations