

Appendix 11.5.5

***Breakdown of PLL for the Seven Petrol cum LPG
Filling Stations / Dedicated LPG Filling Stations at
Year 2021***

Appendix 11.5.5A Breakdown of LPG PLL for the seven petrol cum LPG filling stations / dedicated LPG filling stations at Year 2021

Station Number	Event Description	Potential Loss of Life (PLL) / per year	% of Total PLL
Station 1	LPG Tanker leak (50% inventory)	6.66E-06	34.69%
	LPG Tanker rupture (50% inventory)	5.35E-06	27.87%
	LPG Storage vessel rupture (60% inventory)	3.41E-06	17.76%
	LPG Storage vessel rupture(full inventory)	2.16E-06	11.25%
	LPG Tanker rupture (full inventory)	1.11E-06	5.78%
	Others	5.09E-07	2.65%
	Total	1.92E-05	100.00%
Station 2	LPG Tanker rupture (50% inventory)	3.21E-06	34.72%
	LPG Tanker leak (50% inventory)	2.65E-06	28.66%
	LPG Storage vessel rupture (60% inventory)	2.15E-06	23.25%
	LPG Storage vessel rupture (full inventory)	6.60E-07	7.14%
	LPG Tanker rupture (full inventory)	2.92E-07	3.16%
	Others	2.84E-07	3.07%
	Total	9.25E-06	100.00%
Station 3	LPG Tanker leak (50% inventory)	2.15E-06	34.86%
	LPG Tanker rupture (50% inventory)	1.87E-06	30.32%
	LPG Storage vessel rupture (60% inventory)	1.28E-06	20.75%
	LPG Storage vessel rupture (full inventory)	6.83E-07	11.07%
	LPG Tanker leak (full inventory)	1.48E-07	2.40%
	Others	3.74E-08	0.61%
	Total	6.17E-06	100.00%
Station 4	LPG Storage vessel rupture (60% inventory)	5.07E-06	41.01%
	LPG Tanker rupture (50% inventory)	3.23E-06	26.13%
	LPG Storage vessel rupture (full inventory)	2.15E-06	17.39%
	LPG Tanker leak (50% inventory)	9.59E-07	7.76%
	LPG Tanker rupture (full inventory)	8.60E-07	6.96%
	Others	9.36E-07	0.76%
	Total	1.24E-05	100.00%
Station 5	LPG Tanker rupture (50% inventory)	5.34E-06	34.92%
	LPG Storage vessel rupture (60% inventory)	3.98E-06	26.03%
	LPG Storage vessel rupture (full inventory)	2.50E-06	16.35%
	LPG Tanker leak (50% inventory)	1.68E-06	10.99%
	LPG Tanker rupture (full inventory)	1.62E-06	10.59%
	Others	1.71E-07	1.12%
	Total	1.53E-05	100.00%
Station 6	LPG Tanker rupture (50% inventory)	1.79E-06	69.75%
	LPG Storage vessel rupture (60% inventory)	2.84E-07	11.07%
	LPG Tanker rupture (full inventory)	2.15E-07	8.38%
	LPG Storage vessel rupture (full inventory)	1.59E-07	6.20%
	LPG Tanker leak (50% inventory)	1.07E-07	4.17%
	Others	1.14E-08	0.44%
	Total	2.57E-06	100.00%
Station 7	LPG Tanker rupture (50% inventory)	1.11E-05	41.13%
	LPG Tanker leak (50% inventory)	1.01E-05	37.42%
	LPG Tanker rupture (full inventory)	2.65E-06	9.82%
	LPG Storage vessel rupture (actual field inventory data)	2.36E-06	8.74%
	LPG Tanker leak (full inventory)	5.13E-07	1.90%
	Others	2.67E-07	0.99%
	Total	2.70E-05	100.00%

**Appendix 11.5.5B Breakdown of Petrol PLL for the petrol cum LPG filling stations at
Year 2021**

Station Number	Event Description	Potential Loss of Life (PLL) / per year	% of Total PLL
Station 1	Petrol tanker rupture (full inventory)	1.36E-08	100.00%
	Petrol tanker large liquid leak (full inventory)	-	-
	Petrol tanker medium liquid leak (full inventory)	-	-
	Total	1.36E-08	100.00%
Station 2	Petrol tanker rupture (full inventory)	6.28E-08	100.00%
	Petrol tanker large liquid leak (full inventory)	-	-
	Petrol tanker medium liquid leak (full inventory)	-	-
	Total	6.28E-08	100.00%
Station 3	Petrol tanker rupture (full inventory)	1.43E-08	100.00%
	Petrol tanker large liquid leak (full inventory)	-	-
	Petrol tanker medium liquid leak (full inventory)	-	-
	Total	1.43E-08	100.00%
Station 4	Petrol tanker rupture (full inventory)	3.49E-08	100.00%
	Petrol tanker large liquid leak (full inventory)	-	-
	Petrol tanker medium liquid leak (full inventory)	-	-
	Total	3.49E-08	100.00%
Station 5	Petrol tanker rupture (full inventory)	1.66E-08	100.00%
	Petrol tanker large liquid leak (full inventory)	-	-
	Petrol tanker medium liquid leak (full inventory)	-	-
	Total	1.66E-08	100.00%