## NOTES :

## Catastrophic Failure of LPG Vessel

		Immediate Ignition	Delayed Ignition	VCE	Event Outcome	Outcome Probability
1.00E+0	LPG Release	yes 0.3			Fireball / Flash fire*	3.00E-1
		no 0.7	yes 0.5	yes 0.2	VCE	7.00E-2
			no 0.5	no 0.8	Flash fire	2.80E-1
					Unignited Release	3.50E-1
						1.00

\*Fireball effects are negligible for the underground storage tank. Instead Flash Fire is considered.

## Partial Failure of LPG Vessel

	Immediate Ignition	Delayed Ignition	VCE	Event Outcome	Outcome Probability
1.00E+0 LPG Release	yes 0.07			Jetfire*	7.00E-2
	no 0.93	yes 0.5	yes 0.2	VCE	9.30E-2
		no 0.5	no 0.8	Flash fire	3.72E-1
				Unignited Release	4.65E-1

\* Vertical Jetfire is considered for partial failure of the underground storage tank.



Allied Environmental Consultants Limited
Acousticians & Environmental Engineers

Project No. : 1158

File Name :

Project :

Chai Wan Government Complex and Vehicle Depot

Drawing Title

1.00

Event Trees for Catastrophic and Partial Failure of LPG Vessel

١	Drawing No :	Figure 10.13	Revision :	2
١	Scale :	NTS	Date :	May 2015

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