NOTES :

Guillotine Failure of Aboveground Pipe (Liquid-Inlet Pipework, Flexible Hose to Vessel)

| | Immediate Ignition | Delayed Ignition | VCE | Flame Jet Impingement | | Ineffective Fire Protection/Fighting | Event Outcome | Outcome Probability |
|---------------------|-----------------------|---------------------|---------|--------------------------|-----|---|-------------------|------------------------|
| 1.00E+0 LPG Release | yes 0.07 | | | yes 0.167 | yes | | BLEVE | 8.75E-6 |
| | no 0.93 | | | no 0.833 | no | 0.99925 | Jetfire | 1.17E-2 |
| | | | | | | | Jetfire | 5.83E-2 |
| | | 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 |

1.00

Leak of Aboveground Pipe (Liquid-Inlet Pipework, Flexible Hose to Vessel)

| | Immediate Ignition | Delayed Ignition | VCE | Event Outcome | Outcome Probability |
|---------------------|-----------------------|---------------------|-------|-------------------|------------------------|
| 1.00E+0 LPG Release | yes 0.01 | | | Jetfire | 1.00E-2 |
| | no 0.99 | yes 0.5 | yes 0 | VCE* | 0.00E+0 |
| | | no 0.5 | no 1 | Flash fire | 4.95E-1 |
| | | | | Unignited Release | 4.95E-1 |
| | | | | | |
| | | | | | 1.00 |

* VCE is not considered for a small release.



Allied Environmental Consultants Limited
Accusticians & Environmental Engineers

Project No. : 1158

File Name :

Project :

Chai Wan Government Complex and Vehicle Depot

Drawing Title:

Event Trees for Guillotine Failure and Leak of Aboveground Pipe of Petrol Cum LPG Station

| ١ | Drawing No : | Figure 10.15 | Revision: | 2 |
|---|--------------|--------------|-----------|----------|
| ١ | Scale : | NTS | Date : | May 2015 |

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