

Appendix 4.5 Consequence Distances

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Event ID	Release Scenario		Release Size	Outcome	The Worst Hazard Distance (Weather Class)
01	Gasholder	Rupture	800 m ³	Fireball VCE Flash fire	28.9 m
					80.6 m
					52.2 m (7D)
		Leak	300 mm dia.	Jet fire VCE Flash fire	35 m (7D)
					43.7 m
					19.7 m (1F)
02	Digester	Rupture	286 m ³ (tank top space)	Fireball VCE Flash fire	20.4 m
					61.2 m
					34.1 m (7D)
		Leak	300 mm dia.	Jet fire VCE Flash fire	36.1 m (7D)
					43.3 m
					19.2 m (1F)
03	Aboveground inlet or outlet piping / pump / non-return valve / flange	Full bore rupture	300 mm dia.	Jet fire VCE Flash fire	30.9 m (7D)
					33.7 m
					15.5 m (1F)
		Leak	30 mm dia. (10% of full bore diameter)	Jet fire VCE Flash fire	5.0 m (7D)
					N/A
					1.9 m (1F)
04	Sulphur Absorption Vessel	Rupture	5 m ³	Fireball VCE Flash fire	6.1 m
					17.8 m
					20.1 m (1F)
		Leak	10 mm dia.	Jet fire VCE Flash fire	2.21 m (7D)
					N/A
					0.65 m (1F)
06	Purification Unit	Full bore rupture	100 mm dia.	Jet fire VCE Flash fire	94.7 m (7D)
					47.7 m
					146.8 m (7D)
		Leak	10 mm dia. (10% of full bore diameter)	Jet fire VCE Flash fire	6.7 m (7D)
					N/A
					4.6 m (1F)