Annex 5E

Main Risk Contributor to Potential Loss of Life

Table 5E.1 2016 Main Risk Contributor to PLL

Ranking		Description		Percentage
1	FG_01_LR_IF_FB	Fireball of a line rupture scenario for	4.99E-07	13.3%
		manifold extending from Yacheng fuel		
		gas manifold to blending station		
2	FG_02_LR_IF_FB	Fireball of a line rupture scenario for	4.88E-07	13.0%
		manifold extending from Dachan fuel gas		
		manifold to blending station		
3	FG_127_LR_IF_FB	Fireball of a line rupture scenario for	3.76E-07	10.1%
		interconnecting gas pipeline from BPPS to		
		CPPS		
4	FG_101_LR_IF_FB	Fireball of a line rupture scenario for	3.61E-07	9.6%
_		Yacheng manifold		
5	FG_102_LR_IF_FB	Fireball of a line rupture scenario for	2.85E-07	7.6%
,	CDC 05 1D 15 ED	Dachan manifold	0 E 4 E 0 E	
6	GRS_05_LR_IF_FB	Fireball of a line rupture scenario for	2.54E-07	6.8%
		piping from gas heaters to pressure		
		reduction station, including Pressure		
7	CDC 01 LD IF FD	Reduction Station of Yacheng GRS	2.105.07	F < 0/
7	GRS_UI_LR_IF_FB	Fireball of a line rupture scenario for	2.10E-07	5.6%
		above ground piping from shore end to		
8	CDC 04 LD IE ED	pig receiver of Yacheng GRS Fireball of a line rupture scenario for	1.93E-07	5.2%
0	GK5_04_LK_IF_FD	piping from inlet gas filter separator to	1.93E-07	3.2/0
		gas heater of Yacheng GRS		
9	CRS 18 I R IE FR	Fireball of a line rupture scenario for	1.60E-07	4.3%
	GR5_10_ER_II*_I*D	piping from Pressure Reduction Station to	1.00L-07	4.5 /0
		manifold, including HIPPS of Dachan		
		GRS		
10	GRS 06 LR IF FB	Fireball of a line rupture scenario for	1.12E-07	3.0%
-		piping from pressure reduction station to		
		outlet gas filter separator of Yacheng GRS		
	Other		8.03E-07	21.5%
	Total		3.74E-06	100.0%

Table 5E.2 2019 Main Risk Contributor to PLL

Ranking		Description	PLL	Percentage
1	FG_01_LR_IF_FB	Fireball of a line rupture scenario for	5.13E-07	12.6%
		manifold extending from Yacheng fuel		
		gas manifold to blending station		
2	FG_02_LR_IF_FB	Fireball of a line rupture scenario for	5.01E-07	12.3%
		manifold extending from Dachan fuel		
		gas manifold to blending station		
3	FG_127_LR_IF_FB	Fireball of a line rupture scenario for	3.80E-07	9.3%
		interconnecting gas pipeline from BPPS		
		to CPPS		
4	FG_101_LR_IF_FB	Fireball of a line rupture scenario for	3.71E-07	9.1%
		Yacheng manifold		
5	FG_102_LR_IF_FB	Fireball of a line rupture scenario for	2.93E-07	7.2%
		Dachan manifold		
6	GRS_05_LR_IF_FB	Fireball of a line rupture scenario for	2.66E-07	6.5%
		piping from gas heaters to pressure		
		reduction station, including Pressure		
_		Reduction Station of Yacheng GRS		
7	GRS_01_LR_IF_FB	Fireball of a line rupture scenario for	2.24E-07	5.5%
		above ground piping from shore end to		
		pig receiver of Yacheng GRS		
8	GRS_04_LR_IF_FB	Fireball of a line rupture scenario for	2.03E-07	5.0%
		piping from inlet gas filter separator to		
	CDC 10 ID IE ED	gas heater of Yacheng GRS	4 (05 05	4.40/
9	GRS_18_LR_IF_FB	Fireball of a line rupture scenario for	1.68E-07	4.1%
		piping from Pressure Reduction Station		
		to manifold, including HIPPS of Dachan		
10	CDC 0/ ID IF FD	GRS	1 17F 07	2.00/
10	GRS_06_LR_IF_FB	Fireball of a line rupture scenario for	1.17E-07	2.9%
		piping from pressure reduction station		
		to outlet gas filter separator of Yacheng GRS		
	Other	GNO	1.04E-06	25.6%
	Total		4.08E-06	100.0%

Table 5E.3 2020 Main Risk Contributor to PLL

Ranking	Event	Description	PLL	Percentage
1	FG_01_LR_IF_FB	Fireball of a line rupture scenario for	5.24E-07	12.8%
		manifold extending from Yacheng		
		fuel gas manifold to blending station		
2	FG_02_LR_IF_FB	Fireball of a line rupture scenario for	5.12E-07	12.6%
		manifold extending from Dachan fuel		
		gas manifold to blending station		
3	FG_127_LR_IF_FB	Fireball of a line rupture scenario for	3.83E-07	9.4%
		interconnecting gas pipeline from		
		BPPS to CPPS		
4	FG_101_LR_IF_FB	Fireball of a line rupture scenario for	3.79E-07	9.3%
		Yacheng manifold		
5	FG_102_LR_IF_FB	Fireball of a line rupture scenario for	2.99E-07	7.3%
		Dachan manifold		
6	GRS_05_LR_IF_FB	Fireball of a line rupture scenario for	2.71E-07	6.6%
		piping from gas heaters to pressure		
		reduction station, including Pressure		
		Reduction Station of Yacheng GRS		
7	GRS_01_LR_IF_FB	Fireball of a line rupture scenario for	2.27E-07	5.6%
		above ground piping from shore end		
		to pig receiver of Yacheng GRS		
8	GRS_04_LR_IF_FB	Fireball of a line rupture scenario for	2.07E-07	5.1%
		piping from inlet gas filter separator		
		to gas heater of Yacheng GRS		
9	GRS_18_LR_IF_FB	Fireball of a line rupture scenario for	1.72E-07	4.2%
		piping from Pressure Reduction		
		Station to manifold, including HIPPS		
		of Dachan GRS		
10	GRS_06_LR_IF_FB	Fireball of a line rupture scenario for	1.20E-07	2.9%
		piping from pressure reduction		
		station to outlet gas filter separator of		
		Yacheng GRS		
	Other		9.86E-07	24.2%
	Total		4.08E-06	100.0%

Table 5E.4 2034 Main Risk Contributor to PLL

Ranking	Event	Description	PLL	Percentage
1	FG_01_LR_IF_FB	Fireball of a line rupture scenario for	6.09E-07	12.9%
		manifold extending from Yacheng fuel		
		gas manifold to blending station		
2	FG_02_LR_IF_FB	Fireball of a line rupture scenario for	5.96E-07	12.6%
		manifold extending from Dachan fuel		
		gas manifold to blending station		
3	FG_101_LR_IF_FB	Fireball of a line rupture scenario for	4.36E-07	9.2%
		Yacheng manifold		
4	FG_127_LR_IF_FB	Fireball of a line rupture scenario for	4.01E-07	8.5%
		interconnecting gas pipeline from		
		BPPS to CPPS		
5	FG_102_LR_IF_FB	Fireball of a line rupture scenario for	3.45E-07	7.3%
		Dachan manifold		
6	GRS_05_LR_IF_FB	Fireball of a line rupture scenario for	3.07E-07	6.5%
		piping from gas heaters to pressure		
		reduction station, including Pressure		
		Reduction Station of Yacheng GRS		
7	GRS_01_LR_IF_FB	Fireball of a line rupture scenario for	2.54E-07	5.4%
		above ground piping from shore end		
		to pig receiver of Yacheng GRS		
8	GRS_04_LR_IF_FB	Fireball of a line rupture scenario for	2.33E-07	4.9%
		piping from inlet gas filter separator to		
		gas heater of Yacheng GRS		
9	GRS_18_LR_IF_FB	Fireball of a line rupture scenario for	1.93E-07	4.1%
		piping from Pressure Reduction		
		Station to manifold, including HIPPS		
		of Dachan GRS		
10	GRS_06_LR_IF_FB	Fireball of a line rupture scenario for	1.36E-07	2.9%
		piping from pressure reduction station		
		to outlet gas filter separator of		
		Yacheng GRS		
	Other		1.22E-06	25.8%
	Total		4.73E-06	100.0%

Table 5E.5 2035 Main Risk Contributor to PLL

Ranking	Event	Description	PLL	Percentage
1	FG_01_LR_IF_FB	Fireball of a line rupture scenario for manifold extending from Yacheng fuel	6.26E-07	12.4%
2	FG_02_LR_IF_FB	gas manifold to blending station Fireball of a line rupture scenario for manifold extending from Dachan fuel gas manifold to blending station	6.12E-07	12.2%
3	FG_101_LR_IF_FB	Fireball of a line rupture scenario for Yacheng manifold	4.47E-07	8.9%
4	FG_127_LR_IF_FB	Fireball of a line rupture scenario for interconnecting gas pipeline from BPPS to CPPS	4.05E-07	8.0%
5	FG_102_LR_IF_FB	Fireball of a line rupture scenario for Dachan manifold	3.54E-07	7.0%
6	GRS_05_LR_IF_FB	Fireball of a line rupture scenario for piping from gas heaters to pressure reduction station, including Pressure Reduction Station of Yacheng GRS	3.13E-07	6.2%
7	FG_07_LR_IF_FB	Fireball of a line rupture scenario for manifold for 2nd CCGT	2.95E-07	5.9%
8	GRS_01_LR_IF_FB	Fireball of a line rupture scenario for above ground piping from shore end to pig receiver of Yacheng GRS	2.59E-07	5.2%
9	GRS_04_LR_IF_FB	Fireball of a line rupture scenario for piping from inlet gas filter separator to gas heater of Yacheng GRS	2.38E-07	4.7%
10	GRS_18_LR_IF_FB	Fireball of a line rupture scenario for piping from Pressure Reduction Station to manifold, including HIPPS of Dachan GRS	1.97E-07	3.9%
	Other		1.29E-06	25.6%
	Total		5.03E-06	100.0%