

APPENDIX C

SNG 20276.2955

WEATHER FOLDER

Solar radiation flux	0,5	kW/m2
Mixing layer height for Pasquill stability A	1300	m
Mixing layer height for Pasquill stability A/B	1080	m
Mixing layer height for Pasquill stability B	920	m
Mixing layer height for Pasquill stability B/C	880	m
Mixing layer height for Pasquill stability C	840	m
Mixing layer height for Pasquill stability C/D	820	m
Mixing layer height for Pasquill stability D	800	m
Mixing layer height for Pasquill stability E	400	m
Mixing layer height for Pasquill stability F	100	m
Mixing layer height for Pasquill stability G	100	m
Building exchange rate	4	/hr
Tail time	1800	s

Category 1.5/F

Tab	Group	Field	Value	Units
Weather	Weather conditions	Wind speed	1,5	m/s
		Pasquill stability	F stable - night with moderate clouds and light/moderate wind	
Atmospheric parameters	General atmospheric parameters	Atmospheric temperature	-5	degC
Substrate data	Surface temperature	Surface temperature for dispersion calculations	-5	degC
		Surface temperature for pool calculations	-5	degC
Relative humidity			0,7	fraction

Category 3 B/C

Tab	Group	Field	Value	Units
Weather	Weather conditions	Wind speed	3	m/s
		Pasquill stability	B/C moderately unstable - moderate sun and moderate wind	
Atmospheric parameters	General atmospheric parameters	Atmospheric temperature	6	degC
Substrate data	Surface temperature	Surface temperature for dispersion calculations	6	degC
Relative humidity			0,5	fraction

Category 5 B

Tab	Group	Field	Value	Units
Weather	Weather conditions	Wind speed	5	m/s
		Pasquill stability	B unstable - as with A/B only less sunny or more windy	
Atmospheric parameters	General atmospheric parameters	Atmospheric temperature	10	degC
		Relative humidity	0,3	fraction
		Solar radiation flux	0,5	kW/m2
Substrate data	Surface temperature	Surface temperature for dispersion calculations	11	degC
		Surface temperature for pool calculations	11	degC

Category 9 A/ B

Tab	Group	Field	Value	Units
Weather	Weather conditions	Wind speed	9	m/s
		Pasquill stability	A/B unstable - as with A only less sunny or more windy	
Atmospheric parameters	General atmospheric parameters	Atmospheric temperature	17	degC
		Relative humidity	0,2	fraction
		Solar radiation flux	0,5	kW/m2
Substrate data	Surface temperature	Surface temperature for dispersion calculations	16	degC
		Surface temperature for pool calculations	16	degC

DISPERSION RESULTS**Distance downwind to defined concentrations**

The reported concentration of interest is defined at the scenario

Path	Scenario	Weather	Distance to UFL [m]	Distance to LFL [m]
Pressure vessel LNG 127m3	Lekkasje 2mm	Category 1.5/F	1,01221	3,3121
		Category 3 B/C	0,998091	2,91163
		Category 5 B	0,967134	2,56708
		Category 9 A/B	0,912457	2,18927
	Lekkasje 5mm	Category 1.5/F	2,50735	7,85257
		Category 3 B/C	2,4164	6,50445
		Category 5 B	2,28891	5,60041
		Category 9 A/B	2,09776	4,66338
	Lekkasje 25mm	Category 1.5/F	12,9056	66,5293
		Category 3 B/C	11,7088	64,7996

		Category 5 B	10,4888	59,3686
		Category 9 A/B	8,87457	46,3684
	Catastrophic rupture	Category 1.5/F	50,5595	309,851
		Category 3 B/C	58,6318	378,752
		Category 5 B	82,173	419,08
		Category 9 A/B	131,68	516,547
Long pipeline PE 90mm	Lekkasje 20%	Category 1.5/F	4,93854	8,67124
		Category 3 B/C	5,35159	20,8697
		Category 5 B	6,25242	20,9014
		Category 9 A/B	6,66815	19,53
	Lekkasje 50%	Category 1.5/F	4,24739	7,08996
		Category 3 B/C	7,7173	20,6002
		Category 5 B	7,97507	21,2596
		Category 9 A/B	7,67966	19,979
	Brudd 100%	Category 1.5/F	3,60148	6,17316
		Category 3 B/C	7,72938	19,8446
		Category 5 B	8,04795	20,8428
		Category 9 A/B	7,65282	19,8249
Fylleslange Flexi DN65	Slangebrudd	Category 1.5/F	5,62478	25,8905
		Category 3 B/C	5,5264	24,3055
		Category 5 B	5,34085	22,534
		Category 9 A/B	5,00469	18,7638
	Lekkasje 30%	Category 1.5/F	5,59904	25,288
		Category 3 B/C	5,5045	23,8241
		Category 5 B	5,32783	22,046
		Category 9 A/B	5,00466	18,3955
Pipeline tank - heater	Lekkasje 20%	Category 1.5/F	3,76388	12,8105
		Category 3 B/C	3,53084	9,21974
		Category 5 B	3,2704	7,34012
		Category 9 A/B	2,9097	6,01148
	Lekkasje 50%	Category 1.5/F	5,49934	33,7728
		Category 3 B/C	4,78021	16,9979
		Category 5 B	4,2301	9,22807
		Category 9 A/B	3,5839	6,40405
	Brudd 100%	Category 1.5/F	7,2676	29,4436
		Category 3 B/C	4,84203	21,5202
		Category 5 B	4,2035	11,6616
		Category 9 A/B	3,49176	6,21972

JET FIRE RESULTS

Distance downwind to defined radiation levels

Path	Scenario	Weather	Flame length [m]	Distance downwind to intensity level 1 (4 kW/m ²) [m]	Distance downwind to intensity level 2 (12,5 kW/m ²) [m]	Distance downwind to intensity level 3 (37,5 kW/m ²) [m]	
Pressure vessel LNG 127m ³	Lekkasje 2mm	Category 1.5/F	5,01924	6,91264	5,38053	n/a	
		Category 3 B/C	4,19594	6,22613	4,70231	n/a	
		Category 5 B	3,64448	5,80912	4,26756	n/a	
	Lekkasje 5mm	Category 9 A/B	3,28535	5,55594	3,97751	n/a	
		Category 1.5/F	11,1374	16,6753	13,7973	12,1374	
		Category 3 B/C	9,31055	15,0937	12,1706	10,3106	
		Category 5 B	8,08689	14,1494	11,1421	9,19034	
		Category 9 A/B	7,29001	13,5768	10,4919	8,50203	
		Category 1.5/F	44,3817	72,1024	59,2167	50,9502	
Lekkasje 25mm	Category 3 B/C	37,1018	65,6564	52,6196	44,4541		
	Category 5 B	32,2256	62,0881	48,5911	40,3029		
	Category 9 A/B	29,0501	59,8798	46,0182	37,5726		
	Lekkasje 20%	Category 1.5/F	9,19095	6,60188	4,71105	3,59731	
		Category 3 B/C	9,87442	6,38786	5,07665	4,17609	
		Category 5 B	10,6581	6,30909	5,47617	4,84087	
	Lekkasje 50%	Category 9 A/B	11,6595	6,38495	5,96026	5,96026	
		Category 1.5/F	9,34568	7,92741	5,0749	3,42271	
		Category 3 B/C	10,686	6,56994	5,8274	5,36716	
Category 5 B		12,7757	6,82116	6,82116	6,82116		
Category 9 A/B		13,6057	7,24305	7,24305	7,24305		
Category 1.5/F		10,6977	6,12123	5,64587	5,25997		
Brudd 100%	Category 3 B/C	13,6486	7,43847	7,42153	7,42153		
	Category 5 B	14,7765	7,98827	7,98827	7,98827		
	Category 9 A/B	14,9307	8,07024	8,07024	8,07024		
	Fylleslange Flexi DN65	Category 1.5/F	31,5514	49,9839	41,4388	36,0361	
		Category 3 B/C	26,3761	45,0795	36,5871	31,3699	
		Category 5 B	22,9095	42,3276	33,6032	28,3401	
Lekkasje 30%	Category 9 A/B	20,652	40,8752	31,8287	26,3976		
	Category 1.5/F	31,2428	49,4591	41,013	35,6735		
	Category 3 B/C	26,118	44,5929	36,204	31,0516		
	Category 5 B	22,6854	41,8572	33,2435	28,0488		
	Category 9 A/B	20,45	40,411	31,4779	26,124		
	Pipeline tank - heater	Lekkasje 20%	Category 1.5/F	15,0807	22,9738	19,0073	16,2314
		Category 3 B/C	12,607	20,8438	16,81	14,117	
		Category 5 B	10,9501	19,5587	15,4141	12,7317	
		Category 9 A/B	9,87108	18,7121	14,5033	11,8166	
Lekkasje 50%		Category 1.5/F	16,708	25,3757	20,8438	n/a	

		Category 3 B/C	13,9674	22,9489	18,4136	15,0696
		Category 5 B	12,1317	21,3519	16,8367	13,7793
		Category 9 A/B	10,9362	20,1747	15,7544	12,8923
	Brudd 100%	Category 1.5/F	18,1299	27,3357	22,2819	n/a
		Category 3 B/C	15,1561	24,5116	19,6798	16,1561
		Category 5 B	13,1642	22,6419	17,9726	14,7523
		Category 9 A/B	11,867	21,281	16,7872	13,8871

LATE POOL FIRE RESULTS

Distance downwind to defined radiation levels

The reported radiations are defined in the parameters

Path	Scenario	Weather	Pool diameter [m]	Distance downwind to intensity level 1 (4 kW/m ²) [m]	Distance downwind to intensity level 2 (12,5 kW/m ²) [m]	Distance downwind to intensity level 3 (37,5 kW/m ²) [m]
Pipeline tank heater	Brudd 100%	Category 1.5/F	0,212043	9,04716	n/a	n/a
	Brudd 20%	Category 1.5/F	0,0357754	n/a	n/a	n/a