Early Pool Fire Report

Workspace: 72438-1RiempFSRU-1R

Study: Riempimento FSRU-ME4-Water

Equipment Item: 1R Manichette GNL riempimento FSRU

72438-1RiempFSRU-1R\Riempimento FSRU-ME4-Water\1R Manichette GNL riempimento FSRU

Material	**GAS NATURALE**	
East	0	m
North	0	m

Scenario (Leak) : 300mm

72438-1RiempFSRU-1R\Riempimento FSRU-ME4-Water\1R Manichette GNL riempimento FSRU\300mm

Weather: Category 2/F

Wind speed [m/s]	**2**
Pasquill stability	**F stable - night with moderate clouds and light/moderate wind**
Atmospheric temperature [degC]	**25**
Relative humidity [fraction]	**0,75**
Solar radiation flux [kW/m2]	0,5

Pool fire model results

Early pool fires are assumed to occur at a time when the initial PVAP rainout rate equals the pool fire burn rate, unless the thus calculated pool fire radius exceeds the maximum PVAP pool radius. For the latter case the early pool fire radius is assumed to be the maximum PVAP pool radius. The pool fire centre is located at the rainout point.

INPUT DATA

Correlation Type: Thomas / Johnson

Surface type	Water	
Pool fire elevation	0	m
Maximum exposure duration	20	s
Downwind distance of liquid rainout	0	m

Use two zone pool fire model	No	

OUTPUT DATA

Pool fire diameter	69,2537	m
Downwind distance of pool fire centre	0	m
Pool fire flame length	151,886	m
Angle between pool fire axis and vertical	22,3491	deg
Flame emissive power	214,335	kW/m2
Total burn rate	910,991	kg/s
Radiative fraction	0,174358	fraction

Radiation Intensity Ellipse Results

INPUT DATA

For ellipses 'observer direction' refers to whether inclination is 'fixed' or 'variable'. Orientation is always variable.

Observer direction	Variable	
Exposure duration	20	s
Height of interest	**1,7**	m

OUTPUT DATA

Radiation intensity

Incident radiation [kW/m2]	Lethality [%]	View factor	Probit	Dose [(W/m2)^ProbitN.s]	Hazard information	Ellipse half-length [m]	Ellipse half-width [m]	Ellipse centre downwind distance [m]	Effect downwind distance [m]	Ellipse area [m2]
3	0	0,0139968	-1,38321	865.119	-	352,122	356,043	41,0128	393,135	393863
5	0,00017	0,023	0,360	1.709.491	-	274,	276,	41,259	316,10	2383

	4704	3279	367			845	053	6	5	58
7	0,02405	0,0326591	1,50883	2.677.313	-	231,835	231,415	40,7824	272,617	168547
12,5	6,52536	0,0583199	3,48789	5.800.162	-	169,374	166,304	38,1143	207,488	88490,9
37,5	98,7381	0,17496	7,23773	25.094.924	-	82,1987	77,641	22,5289	104,728	20049,6

Radiation v Distance Results

INPUT DATA

Maximum distance	393,135	m
Angle from wind direction	0	deg
Observer direction	Variable	
Height of interest	**1,7**	m

OUTPUT DATA

Downwind distance [m]	Maximum incident radiation [kW/m2]	Lethality level [fraction]
0	214,335	1
8,02316	214,335	1
16,0463	214,335	1
24,0695	214,335	1
32,0926	214,335	1
40,1158	131,223	1
48,139	95,513	1
56,1621	78,1593	0,999999
64,1853	66,5531	0,999986
72,2084	57,9702	0,999902
80,2316	51,3493	0,999534
88,2548	46,0207	0,998341
96,2779	41,6178	0,995248
104,301	37,6946	0,987946
112,324	34,2436	0,973052
120,347	31,1908	0,946186
128,371	28,4726	0,902808

136,394	26,0385	0,839573
144,417	23,8495	0,755836
152,44	21,8744	0,654652
160,463	20,0883	0,542671
168,486	18,4705	0,428804
176,51	17,0035	0,322085
184,533	15,6723	0,229608
192,556	14,4636	0,155267
200,579	13,3653	0,0996352
208,602	12,367	0,0607377
216,625	11,4589	0,0352317
224,648	10,6323	0,0194866
232,672	9,87932	0,0103012
240,695	9,19274	0,00521788
248,718	8,56609	0,00253918
256,741	7,99356	0,00119027
264,764	7,46986	0,000538892
272,787	6,99026	0,000236256
280,811	6,55049	0,000100548
288,834	6,14673	4,16405E-05
296,857	5,77554	1,68188E-05
304,88	5,43384	6,63965E-06
312,903	5,11887	2,56711E-06
320,926	4,82814	9,73896E-07
328,95	4,55943	3,63177E-07
336,973	4,31073	1,33345E-07
344,996	4,08025	4,8278E-08
353,019	3,86638	1,72605E-08
361,042	3,66766	0
369,065	3,48278	0
377,088	3,31057	0
385,112	3,14996	0
393,135	3	0

Weather: Category 5/D

Wind speed [m/s]	**5**
Pasquill stability	**D neutral - little sun and high wind or overcast/windy night**
Atmospheric temperature [degC]	25
Relative humidity [fraction]	0,75
Solar radiation flux [kW/m2]	0,5

Pool fire model results

Early pool fires are assumed to occur at a time when the initial PVAP rainout rate equals the pool fire burn rate, unless the thus calculated pool fire radius exceeds the maximum PVAP pool radius. For the latter case the early pool fire radius is assumed to be the maximum PVAP pool radius. The pool fire centre is located at the rainout point.

INPUT DATA

Correlation Type: Thomas / Johnson

Surface type	Water	
Pool fire elevation	0	m
Maximum exposure duration	20	s
Downwind distance of liquid rainout	0	m
Use two zone pool fire model	No	

OUTPUT DATA

Pool fire diameter	69,2537	m
Downwind distance of pool fire centre	0	m
Pool fire flame length	151,886	m
Angle between pool fire axis and vertical	39,6478	deg
Flame emissive power	214,335	kW/m2
Total burn rate	910,991	kg/s
Radiative fraction	0,174358	fraction

Radiation Intensity Ellipse Results

INPUT DATA

For ellipses 'observer direction' refers to whether inclination is 'fixed' or 'variable'. Orientation is always variable.

Observer direction	Variable	
Exposure duration	20	s
Height of interest	**1,7**	m

OUTPUT DATA

Radiation intensity

Incident radiation [kW/m2]	Lethality [%]	View factor	Probit	Dose [(W/m2)^ProbitN.s]	Hazard information	Ellipse half-length [m]	Ellipse half-width [m]	Ellipse centre downwind distance [m]	Effect downwind distance [m]	Ellipse area [m2]
3	0	0,0139968	-1,38321	865.119	-	339,825	353,018	67,6212	407,447	376880
5	0,000174704	0,0233279	0,360367	1.709.491	-	266,952	276,223	65,9762	332,928	231656
7	0,02405	0,0326591	1,50883	2.677.313	-	226,675	233,541	64,1079	290,783	166309
12,5	6,52536	0,0583199	3,48789	5.800.162	-	171,239	171,561	61,2472	232,486	92293,6
37,5	98,7381	0,17496	7,23773	25.094.924	-	93,5476	84,6374	41,9957	135,543	24873,9

Radiation v Distance Results

INPUT DATA

Maximum distance	407,447	m
Angle from wind direction	0	deg
Observer direction	Variable	
Height of interest	**1,7**	m

OUTPUT DATA

Downwind distance [m]	Maximum incident radiation [kW/m2]	Lethality level [fraction]
0	214,335	1
8,31524	214,335	1
16,6305	214,335	1
24,9457	214,335	1
33,2609	214,335	1
41,5762	133,801	1
49,8914	105,44	1
58,2067	89,5034	1
66,5219	77,9943	0,999999
74,8371	69,433	0,999993
83,1524	62,3391	0,999964
91,4676	56,511	0,999862
99,7828	51,853	0,999587
108,098	47,7828	0,998911
116,413	44,2812	0,997485
124,729	40,9755	0,994461
133,044	38,3815	0,989749
141,359	35,3894	0,979325
149,674	32,4093	0,959049
157,989	29,5683	0,923154
166,305	26,9074	0,865363
174,62	24,4431	0,781385
182,935	22,1802	0,671947
191,25	20,1167	0,544585
199,566	18,2456	0,412453
207,881	16,5565	0,290196
216,196	15,0371	0,189058
224,511	13,6737	0,113951
232,827	12,4524	0,0636131
241,142	11,3593	0,0329784
249,457	10,3813	0,015936
257,772	9,50605	0,00720951
266,088	8,72216	0,00306825

274,403	8,05734	0,00130195
282,718	7,49695	0,000562908
291,033	6,98525	0,000234102
299,349	6,51777	9,39614E-05
307,664	6,09036	3,6514E-05
315,979	5,69919	1,37801E-05
324,294	5,3408	5,06476E-06
332,609	5,01204	1,81775E-06
340,925	4,71006	6,38617E-07
349,24	4,4323	2,20123E-07
357,555	4,17647	7,45956E-08
365,87	3,94049	2,4901E-08
374,186	3,72253	8,20232E-09
382,501	3,52091	0
390,816	3,33415	0
399,131	3,16091	0
407,447	2,99999	0

Scenario (User defined source) : 300mm-Q254,5

72438-1RiempFSRU-1R\Riempimento FSRU-ME4-Water\1R Manichette GNL riempimento FSRU\300mm-Q254,5

Weather: Category 2/F

Wind speed [m/s]	**2**
Pasquill stability	**F stable - night with moderate clouds and light/moderate wind**
Atmospheric temperature [degC]	**25**
Relative humidity [fraction]	**0,75**
Solar radiation flux [kW/m2]	0,5

Pool fire model results

Early pool fires are assumed to occur at a time when the initial PVAP rainout rate equals the pool fire burn rate, unless the thus calculated pool fire radius exceeds the maximum PVAP pool radius. For the latter case the early pool fire radius is assumed to be the maximum PVAP pool radius. The pool fire centre is located at the rainout point.

INPUT DATA

Correlation Type: Thomas / Johnson

Surface type	Water	
Pool fire elevation	0	m
Maximum exposure duration	20	s
Downwind distance of liquid rainout	0	m
Use two zone pool fire model	No	

OUTPUT DATA

Pool fire diameter	36,5958	m
Downwind distance of pool fire centre	0	m
Pool fire flame length	97,1467	m
Angle between pool fire axis and vertical	26,0759	deg
Flame emissive power	213,676	kW/m2
Total burn rate	252,884	kg/s
Radiative fraction	0,207874	fraction

Radiation Intensity Ellipse Results

INPUT DATA

For ellipses 'observer direction' refers to whether inclination is 'fixed' or 'variable'. Orientation is always variable.

Observer direction	Variable	
Exposure duration	20	s
Height of interest	**1,7**	m

OUTPUT DATA

Radiation intensity

Incident radiation [kW/m2]	Lethality [%]	View factor	Probit	Dose [(W/m2)^ProbitN.s]	Hazard information	Ellipse half-length [m]	Ellipse half-width [m]	Ellipse centre downwind distance [m]	Effect downwind distance [m]	Ellipse area [m2]
3	0	0,0140399	-1,38321	865.119	-	209,257	212,743	29,4361	238,693	139857
5	0,000174704	0,0233999	0,360367	1.709.491	-	162,858	164,162	29,523	192,382	83991,2
7	0,02405	0,0327599	1,50883	2.677.313	-	137,165	137,101	29,1102	166,275	59079
12,5	6,52536	0,0584998	3,48789	5.800.162	-	100,021	97,7216	26,9634	126,984	30706,5
37,5	98,7381	0,175499	7,23773	25.094.924	-	48,2658	44,9673	15,4135	63,6792	6818,45

Radiation v Distance Results

INPUT DATA

Maximum distance	238,693	m
Angle from wind direction	0	deg
Observer direction	Variable	

Height of interest	**1,7**	m

OUTPUT DATA

Downwind distance [m]	Maximum incident radiation [kW/m2]	Lethality level [fraction]
0	213,676	1
4,87129	213,676	1
9,74257	213,676	1
14,6139	213,676	1
19,4851	213,676	1
24,3564	119,61	1
29,2277	92,5975	1
34,099	76,6117	0,999999
38,9703	65,5631	0,999983
43,8416	57,3196	0,999886
48,7129	50,8663	0,999478
53,5841	45,6672	0,998194
58,4554	41,3751	0,994964
63,3267	37,7521	0,988108
68,198	34,4219	0,974136
73,0693	31,4352	0,949038
77,9406	28,7554	0,908482
82,8119	26,3424	0,849037
87,6832	24,1622	0,769569
92,5544	22,1868	0,672311
97,4257	20,3935	0,563021
102,297	18,7634	0,449982
107,168	17,2806	0,342115
112,04	15,9312	0,246916
116,911	14,7027	0,169001
121,782	13,5843	0,10969
126,653	12,5657	0,0675607
131,525	11,6379	0,0395426
136,396	10,7924	0,0220336

141,267	10,0216	0,0117144
146,139	9,31848	0,00595711
151,01	8,67654	0,00290517
155,881	8,08999	0,00136237
160,752	7,55355	0,000615999
165,624	7,06243	0,000269269
170,495	6,61229	0,000114089
175,366	6,19924	4,69717E-05
180,238	5,81976	1,88368E-05
185,109	5,47067	7,37458E-06
189,98	5,14914	2,82461E-06
194,851	4,8526	1,06058E-06
199,723	4,57875	3,91116E-07
204,594	4,32553	1,41908E-07
209,465	4,09107	5,07404E-08
214,337	3,8737	1,79062E-08
219,208	3,67192	0
224,079	3,48438	0
228,95	3,30984	0
233,822	3,14721	0
238,693	2,99997	0

Weather: Category 5/D

Wind speed [m/s]	**5**
Pasquill stability	**D neutral - little sun and high wind or overcast/windy night**
Atmospheric temperature [degC]	25
Relative humidity [fraction]	0,75
Solar radiation flux [kW/m2]	0,5

Pool fire model results

Early pool fires are assumed to occur at a time when the initial PVAP rainout rate equals the pool fire burn rate, unless the thus calculated pool fire radius exceeds the maximum PVAP pool radius. For the latter case the early pool fire radius is assumed to be the maximum PVAP pool radius. The pool fire centre is located at the rainout point.

INPUT DATA

Correlation Type: Thomas / Johnson

Surface type	Water	
Pool fire elevation	0	m
Maximum exposure duration	20	s
Downwind distance of liquid rainout	0	m
Use two zone pool fire model	No	

OUTPUT DATA

Pool fire diameter	36,5958	m
Downwind distance of pool fire centre	0	m
Pool fire flame length	97,1467	m
Angle between pool fire axis and vertical	43,6601	deg
Flame emissive power	213,676	kW/m2
Total burn rate	252,884	kg/s
Radiative fraction	0,207874	fraction

Radiation Intensity Ellipse Results

INPUT DATA

For ellipses 'observer direction' refers to whether inclination is 'fixed' or 'variable'. Orientation is always variable.

Observer direction	Variable	
Exposure duration	20	s
Height of interest	**1,7**	m

OUTPUT DATA

Radiation intensity

Incident radiation [kW/m2]	Lethality [%]	View factor	Probit	Dose [(W/m2)^ProbitN.s]	Hazard information	Ellipse half-length [m]	Ellipse half-width [m]	Ellipse centre downwind distance [m]	Effect downwind distance [m]	Ellipse area [m2]
3	0	0,0140399	-1,38321	865.119	-	201,589	210,471	46,1168	247,705	133293
5	0,000174704	0,0233999	0,360367	1.709.491	-	158,311	164,04	44,8654	203,176	81585
7	0,02405	0,0327599	1,50883	2.677.313	-	134,523	138,289	43,492	178,015	58442,9
12,5	6,52536	0,0584998	3,48789	5.800.162	-	101,614	100,943	40,7517	142,365	32223,9
37,5	98,7381	0,175499	7,23773	25.094.924	-	55,9095	49,0379	27,3046	83,2141	8613,25

Radiation v Distance Results

INPUT DATA

Maximum distance	247,705	m
Angle from wind direction	0	deg
Observer direction	Variable	
Height of interest	**1,7**	m

OUTPUT DATA

Downwind distance [m]	Maximum incident radiation [kW/m2]	Lethality level [fraction]
0	213,676	1
5,05521	213,676	1
10,1104	213,676	1
15,1656	213,676	1
20,2208	213,676	1
25,2761	124,324	1
30,3313	103,391	1
35,3865	88,4756	1
40,4417	78,0426	0,999999
45,4969	68,8895	0,999992
50,5521	62,1423	0,999963
55,6073	56,4146	0,999859
60,6625	51,7282	0,999574
65,7177	47,8328	0,998924
70,773	44,189	0,997429
75,8282	41,2223	0,994778
80,8834	38,5227	0,990086
85,9386	36,1366	0,982628
90,9938	33,4081	0,967362
96,049	30,6066	0,938755
101,104	27,9061	0,890488
106,159	25,3623	0,816708
111,215	22,9998	0,715374
116,27	20,8285	0,591219
121,325	18,8493	0,456155
126,38	17,057	0,325936
131,435	15,4423	0,214588
136,491	13,9934	0,129892
141,546	12,6968	0,0723103
146,601	11,5386	0,0371076
151,656	10,505	0,0176196
156,712	9,58287	0,00777776
161,767	8,86668	0,00363402

166,822	8,22567	0,00163878
171,877	7,64104	0,000706305
176,932	7,1079	0,000292026
181,988	6,62156	0,000116249
187,043	6,17765	4,47113E-05
192,098	5,7721	1,66702E-05
197,153	5,40122	6,04385E-06
202,208	5,06164	2,13695E-06
207,264	4,7503	7,38839E-07
212,319	4,46447	2,50411E-07
217,374	4,20169	8,33853E-08
222,429	3,95973	2,73377E-08
227,485	3,73664	8,84085E-09
232,54	3,53062	0
237,595	3,3401	0
242,65	3,16365	0
247,705	3	0

Scenario (Leak) : 60mm

72438-1RiempFSRU-1R\Riempimento FSRU-ME4-Water\1R Manichette GNL riempimento FSRU\60mm

Weather: Category 2/F

Wind speed [m/s]	**2**
Pasquill stability	**F stable - night with moderate clouds and light/moderate wind**
Atmospheric temperature [degC]	**25**
Relative humidity [fraction]	**0,75**
Solar radiation flux [kW/m2]	0,5

Pool fire model results

Early pool fires are assumed to occur at a time when the initial PVAP rainout rate equals the pool fire burn rate, unless the thus calculated pool fire radius exceeds the maximum PVAP pool radius. For the latter case the early pool fire radius is assumed to be the maximum PVAP pool radius. The pool fire centre is located at the rainout point.

INPUT DATA

Correlation Type: Thomas / Johnson

Surface type	Water	
Pool fire elevation	0	m
Maximum exposure duration	20	s
Downwind distance of liquid rainout	0	m
Use two zone pool fire model	No	

OUTPUT DATA

Pool fire diameter	13,8507	m
Downwind distance of pool fire centre	0	m
Pool fire flame length	45,1442	m
Angle between pool fire axis and vertical	32,1619	deg
Flame emissive power	190,282	kW/m2
Total burn rate	31,1993	kg/s
Radiative fraction	0,259683	fraction

Radiation Intensity Ellipse Results

INPUT DATA

For ellipses 'observer direction' refers to whether inclination is 'fixed' or 'variable'. Orientation is always variable.

Observer direction	Variable	
Exposure duration	20	s
Height of interest	**1,7**	m

OUTPUT DATA

Radiation intensity

Incident radiation [kW/m2]	Lethality [%]	View factor	Probit	Dose [(W/m2)^ProbitN.s]	Hazard information	Ellipse half-length [m]	Ellipse half-width [m]	Ellipse centre downwind distance [m]	Effect downwind distance [m]	Ellipse area [m2]
3	0	0,0157661	-1,38321	865.119	-	86,2069	88,1149	16,0961	102,303	23863,9
5	0,000174704	0,0262768	0,360367	1.709.491	-	66,7322	67,6212	15,6284	82,3606	14176,5
7	0,02405	0,0367875	1,50883	2.677.313	-	56,2965	56,2338	15,3414	71,6379	9945,55
12,5	6,52536	0,065692	3,48789	5.800.162	-	41,3035	39,7272	14,0011	55,3046	5154,95
37,5	98,7381	0,197076	7,23773	25.094.924	-	19,9214	18,2401	7,34354	27,265	1141,56

Radiation v Distance Results

INPUT DATA

Maximum distance	102,303	m
Angle from wind direction	0	deg
Observer direction	Variable	

Height of interest	**1,7**	m

OUTPUT DATA

Downwind distance [m]	Maximum incident radiation [kW/m2]	Lethality level [fraction]
0	190,282	1
2,08782	190,282	1
4,17563	190,282	1
6,26345	190,282	1
8,35127	166,514	1
10,4391	117,813	1
12,5269	92,4517	1
14,6147	76,8119	0,999999
16,7025	65,3939	0,999982
18,7904	57,148	0,999881
20,8782	50,7535	0,999464
22,966	45,4142	0,998082
25,0538	41,2315	0,994789
27,1416	37,6963	0,987951
29,2294	34,5749	0,975033
31,3173	32,0306	0,9554
33,4051	29,5056	0,922105
35,4929	27,1452	0,871764
37,5807	24,9732	0,802371
39,6685	22,9804	0,714392
41,7563	21,1528	0,611571
43,8442	19,4772	0,500688
45,932	17,9414	0,390269
48,0198	16,5346	0,288648
50,1076	15,2468	0,202114
52,1954	14,069	0,133821
54,2832	12,9926	0,0837651
56,3711	12,0095	0,0496
58,4589	11,1121	0,0278205

60,5467	10,2931	0,0148095
62,6345	9,5458	0,00749935
64,7223	8,86382	0,00362208
66,8101	8,24126	0,0016733
68,898	7,67266	0,000741559
70,9858	7,15301	0,000316202
73,0736	6,67771	0,000130109
75,1614	6,24258	5,18109E-05
77,2492	5,84381	2,00221E-05
79,337	5,47798	7,5287E-06
81,4249	5,14196	2,7615E-06
83,5127	4,83294	9,90398E-07
85,6005	4,54841	3,48077E-07
87,6883	4,28609	1,20126E-07
89,7761	4,05078	4,21151E-08
91,8639	3,84408	1,54252E-08
93,9518	3,65141	0
96,0396	3,47163	0
98,1274	3,30374	0
100,215	3,1468	0
102,303	2,99995	0

Weather: Category 5/D

Wind speed [m/s]	**5**
Pasquill stability	**D neutral - little sun and high wind or overcast/windy night**
Atmospheric temperature [degC]	25
Relative humidity [fraction]	0,75
Solar radiation flux [kW/m2]	0,5

Pool fire model results

Early pool fires are assumed to occur at a time when the initial PVAP rainout rate equals the pool fire burn rate, unless the thus calculated pool fire radius exceeds the maximum PVAP pool radius. For the latter case the early pool fire radius is assumed to be the maximum PVAP pool radius. The pool fire centre is located at the rainout point.

INPUT DATA

Correlation Type: Thomas / Johnson

Surface type	Water	
Pool fire elevation	0	m
Maximum exposure duration	20	s
Downwind distance of liquid rainout	0	m
Use two zone pool fire model	No	

OUTPUT DATA

Pool fire diameter	13,8507	m
Downwind distance of pool fire centre	0	m
Pool fire flame length	45,1442	m
Angle between pool fire axis and vertical	49,4554	deg
Flame emissive power	190,282	kW/m2
Total burn rate	31,1993	kg/s
Radiative fraction	0,259683	fraction

Radiation Intensity Ellipse Results

INPUT DATA

For ellipses 'observer direction' refers to whether inclination is 'fixed' or 'variable'. Orientation is always variable.

Observer direction	Variable	
Exposure duration	20	s
Height of interest	**1,7**	m

OUTPUT DATA

Radiation intensity

Incident radiation [kW/m2]	Lethality [%]	View factor	Probit	Dose [(W/m2)^ProbitN.s]	Hazard information	Ellipse half-length [m]	Ellipse half-width [m]	Ellipse centre down wind distance [m]	Effect down wind distance [m]	Ellipse area [m2]
3	0	0,0157661	-1,38321	865.119	-	82,817	86,8335	22,7653	105,582	22592,1
5	0,000174704	0,0262768	0,360367	1.709.491	-	65,3168	67,3618	22,0355	87,3522	13822,6
7	0,02405	0,0367875	1,50883	2.677.313	-	55,7935	56,589	21,2725	77,066	9918,95
12,5	6,52536	0,065692	3,48789	5.800.162	-	42,509	40,984	19,4315	61,9405	5473,24
37,5	98,7381	0,197076	7,23773	25.094.924	-	23,3868	19,706	12,0013	35,388	1447,83

Radiation v Distance Results

INPUT DATA

Maximum distance	105,582	m
Angle from wind direction	0	deg
Observer direction	Variable	
Height of interest	**1,7**	m

OUTPUT DATA

Downwind distance [m]	Maximum incident radiation [kW/m2]	Lethality level [fraction]
0	190,282	1
2,15474	190,282	1
4,30948	190,282	1
6,46423	190,282	1
8,61897	190,282	1
10,7737	125,577	1
12,9285	103,234	1
15,0832	88,5857	1
17,2379	74,5115	0,999998
19,3927	69,1601	0,999992
21,5474	62,0584	0,999962
23,7022	56,4657	0,999861
25,8569	51,6939	0,999571
28,0116	47,7209	0,998895
30,1664	44,2167	0,997446
32,3211	41,1917	0,99474
34,4759	38,5632	0,99018
36,6306	36,2358	0,983026
38,7854	34,1484	0,972455
40,9401	32,2513	0,957563
43,0948	30,0443	0,930713
45,2496	27,5475	0,881989
47,4043	25,0764	0,80626
49,5591	22,7205	0,701056
51,7138	20,5209	0,57138
53,8685	18,497	0,430729
56,0233	16,6554	0,297198
58,178	14,994	0,186419
60,3328	13,5047	0,105974
62,4875	12,1762	0,0546114
64,6423	10,9949	0,0255863
66,797	10,1244	0,0128228
68,9517	9,35009	0,00615527

71,1065	8,6431	0,00279016
73,2612	7,99896	0,00119942
75,416	7,41278	0,00049111
77,5707	6,87961	0,000192375
79,7254	6,39461	7,2398E-05
81,8802	5,95323	2,62828E-05
84,0349	5,55122	9,23931E-06
86,1897	5,18467	3,15625E-06
88,3444	4,85004	1,05122E-06
90,4992	4,54414	3,42379E-07
92,6539	4,26409	1,09347E-07
94,8086	4,00731	3,43305E-08
96,9634	3,77149	1,06196E-08
99,1181	3,55459	0
101,273	3,35476	0
103,428	3,17037	0
105,582	2,99997	0