

DETAILED TIME-VARYING DISCHARGE

Study Folder: TOP EVENT 1

Unique Audit Number:

491



PHAST v6.00



TOP EVENT 1



Methanol spill out

Outside containment basins

Base Case

Data



Weather:

Category 2/F

Speed:

2,00 m/s

Stability:

F

TOP EVENT 1\Methanol spill out\Outside containment basins

Mass Flow Rate kg/s	Liquid Fraction fraction	Temperature C	Pseudo Velocity m/s	Droplet Diameter mm	Discharge Velocity m/s	Choke Pressure bar	Choke Temperature C	Discharge Coefficient	Time s	Mass Remaining kg
10,09	1,00	44,00	2,78	7.33253E-001	2,78	1,01	44,00	0,60	0,00	776,46
9,98	1,00	43,99	2,75	7.36065E-001	2,75	1,01	43,99	0,60	1,38	762,56
9,75	1,00	43,99	2,68	7.38988E-001	2,68	1,01	43,99	0,60	2,77	748,67
9,51	1,00	43,98	2,62	7.42032E-001	2,62	1,01	43,98	0,60	4,20	734,77
9,39	1,00	43,97	2,58	7.45208E-001	2,58	1,01	43,97	0,60	5,66	720,88
9,14	1,00	43,97	2,52	7.48528E-001	2,52	1,01	43,97	0,60	7,14	706,98
8,89	1,00	43,96	2,45	7.52005E-001	2,45	1,01	43,96	0,60	8,66	693,09
8,76	1,00	43,95	2,41	7.55655E-001	2,41	1,01	43,95	0,60	10,22	679,19
8,50	1,00	43,95	2,34	7.59495E-001	2,34	1,01	43,95	0,60	11,81	665,30
8,22	1,00	43,94	2,26	7.63549E-001	2,26	1,01	43,94	0,60	13,44	651,40
7,94	1,00	43,93	2,19	7.67838E-001	2,19	1,01	43,93	0,60	15,13	637,51
7,80	1,00	43,92	2,15	7.72394E-001	2,15	1,01	43,92	0,60	16,88	623,61
7,50	1,00	43,92	2,06	7.77252E-001	2,06	1,01	43,92	0,60	18,66	609,72
7,19	1,00	43,91	1,98	7.82455E-001	1,98	1,01	43,91	0,60	20,52	595,82
7,03	1,00	43,90	1,93	7.88053E-001	1,93	1,01	43,90	0,60	22,45	581,92
6,69	1,00	43,89	1,84	7.94115E-001	1,84	1,01	43,89	0,60	24,43	568,03
6,34	1,00	43,88	1,75	8.00723E-001	1,75	1,01	43,88	0,60	26,51	554,13
6,16	1,00	43,87	1,70	8.07985E-001	1,70	1,01	43,87	0,60	28,70	540,24

Date: 10/01/2014

1 of 3

Time: 18.49.58

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5,78	1,00	43,86	1,59	8.16044E-001	1,59	1,01	43,86	0,60	30,95	526,34
5,37	1,00	43,85	1,48	8.25100E-001	1,48	1,01	43,85	0,60	33,36	512,45
5,15	1,00	43,84	1,42	8.35431E-001	1,42	1,01	43,84	0,60	35,95	498,55
4,69	1,00	43,83	1,29	8.47458E-001	1,29	1,01	43,83	0,60	38,64	484,66
4,17	1,00	43,82	1,15	8.61851E-001	1,15	1,01	43,82	0,60	41,61	470,76
3,58	1,00	43,81	0,99	8.79771E-001	0,99	1,01	43,81	0,60	44,94	456,87
3,25	1,00	43,80	0,89	9.03530E-001	0,89	1,01	43,80	0,60	48,82	442,97
2,44	1,00	43,79	0,67	9.38856E-001	0,67	1,01	43,79	0,60	53,10	429,08
1,18	1,00	43,77	0,33	1.00950E+000	0,33	1,01	43,77	0,60	58,78	415,18



Weather:

Category 5/D

Speed:

5,00 m/s

Stability:

D

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9,75	1,00	43,99	2,68	7.38988E-001	2,68	1,01	43,99	0,60	2,77	748,67
9,51	1,00	43,98	2,62	7.42032E-001	2,62	1,01	43,98	0,60	4,20	734,77
9,39	1,00	43,97	2,58	7.45208E-001	2,58	1,01	43,97	0,60	5,66	720,88
9,14	1,00	43,97	2,52	7.48528E-001	2,52	1,01	43,97	0,60	7,14	706,98
8,89	1,00	43,96	2,45	7.52005E-001	2,45	1,01	43,96	0,60	8,66	693,09
8,76	1,00	43,95	2,41	7.55655E-001	2,41	1,01	43,95	0,60	10,22	679,19
8,50	1,00	43,95	2,34	7.59495E-001	2,34	1,01	43,95	0,60	11,81	665,30
8,22	1,00	43,94	2,26	7.63549E-001	2,26	1,01	43,94	0,60	13,44	651,40
7,94	1,00	43,93	2,19	7.67838E-001	2,19	1,01	43,93	0,60	15,13	637,51

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6,69	1,00	43,89	1,84	7.94115E-001	1,84	1,01	43,89	0,60	24,43	568,03
6,34	1,00	43,88	1,75	8.00723E-001	1,75	1,01	43,88	0,60	26,51	554,13
6,16	1,00	43,87	1,70	8.07985E-001	1,70	1,01	43,87	0,60	28,70	540,24
5,78	1,00	43,86	1,59	8.16044E-001	1,59	1,01	43,86	0,60	30,95	526,34
5,37	1,00	43,85	1,48	8.25100E-001	1,48	1,01	43,85	0,60	33,36	512,45
5,15	1,00	43,84	1,42	8.35431E-001	1,42	1,01	43,84	0,60	35,95	498,55
4,69	1,00	43,83	1,29	8.47458E-001	1,29	1,01	43,83	0,60	38,64	484,66
4,17	1,00	43,82	1,15	8.61851E-001	1,15	1,01	43,82	0,60	41,61	470,76
3,58	1,00	43,81	0,99	8.79771E-001	0,99	1,01	43,81	0,60	44,94	456,87
3,25	1,00	43,80	0,89	9.03530E-001	0,89	1,01	43,80	0,60	48,82	442,97
2,44	1,00	43,79	0,67	9.38856E-001	0,67	1,01	43,79	0,60	53,10	429,08
1,18	1,00	43,77	0,33	1.00950E+000	0,33	1,01	43,77	0,60	58,78	415,18