Date Printed: 09/16/2016 01:20

OAK RIDGE NATIONAL LABORATORY
Managed by UT-Battelle for the Department of Energy

Daily Summary Report

Site: Tower "D" (1000 Area)

9/15/2016

Interval: 001h

	01_TempC_002m	02_TempC_015m	03_TempC_035m	04_TempC_060m	09_VTGrad_0215m	10_VTGrad_0235m	11_VTGrad_0260m	12_VTGrad_1535m	13_VTGrad_1560m
Hour	DEGC	DEGC	DEGC	DEGC	DEGC	DEGC	DEGC	DEGC	DEGC
00:00	20.6	22.1	22.6	23.5	1.42	1.92	2.89	.50	1.48
01:00	20.0	21.6	22.2	23.1	1.54	2.18	3.04	.63	1.50
02:00	19.7	21.3	21.8	23.1	1.59	2.09	3.33	.50	1.74
03:00	19.1	21.0	21.7	22.8	1.83	2.55	3.65	.71	1.82
04:00	18.8	20.3	21.1	21.9	1.47	2.27	3.07	.80	1.60
05:00	18.5	20.3	20.7	21.3	1.87	2.23	2.82	.37	.95
06:00	18.3	19.8	20.0	20.4	1.53	1.71	2.15	.18	.62
07:00	18.6	19.7	19.9	20.2	1.07	1.25	1.54	.18	.46
08:00	21.1	21.2	21.2	21.2	.09	.06	.12	-.03	.02
09:00	24.7	24.1	23.8	23.7	-.57	-.85	-1.02	-.28	-.45
10:00	27.2	26.3	25.9	25.6	-.95	-1.37	-1.61	-.42	-.66
11:00	29.2	28.0	27.4	27.1	-1.24	-1.77	-2.07	-.53	-.83
12:00	31.1	29.8	29.4	29.1	-1.29	-1.75	-2.09	-.46	-.79
13:00	31.8	30.8	30.4	30.1	-.98	-1.41	-1.64	-.43	-.66
14:00	32.8	31.6	31.1	30.9	-1.21	-1.69	-1.94	-.48	-.73
15:00	33.5	32.2	31.7	31.5	-1.30	-1.80	-2.05	-.50	-.74
16:00	33.6	32.7	32.3	32.1	-.92	-1.28	-1.48	-.36	-.56
17:00	33.6	32.8	32.4	32.3	-.83	-1.14	-1.32	-.32	-.49
18:00	32.2	32.3	32.1	32.0	.07	-.11	-.20	-.18	-.27
19:00	28.0	29.9	30.9	31.3	1.94	2.92	3.26	.98	1.32
20:00	24.8	27.6	27.9	29.2	2.82	3.09	4.40	.27	1.58
21:00	22.8	25.4	25.7	27.0	2.57	2.93	4.16	.36	1.59
22:00	21.7	23.8	24.2	25.9	2.13	2.59	4.24	.46	2.11
23:00	20.8	22.9	23.7	24.9	2.07	2.88	4.10	.81	2.03
Avg	25.1	25.7	25.8	26.3	.61	.73	1.14	.12	.53
Max	33.6	32.8	32.4	32.3	2.82	3.09	4.40	.98	2.11
Hr. of Max	17	17	17	17	20	20	20	19	22
Min	18.3	19.7	19.9	20.2	-1.30	-1.80	-2.09	-.53	-.83
Count	24	24	24	24	24	24	24	24	24
Total									

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OAK RIDGE NATIONAL LABORATORY
Managed by UT-Battelle for the Department of Energy

Daily Summary Report

Site: Tower "D" (1000 Area)

9/15/2016

Interval: 001h

	14_DewPtC_002m	15_DewPtC_015m	17a_WBulbC	18_SoilTempC	19_RH_002m	20_RH_015m	21_AbsHum_002m	22_AbsHum_015m	23_Mix Ratio_002m
Hour	DEGC	DEGC	DEGC	DEGC	PERCENT	PERCENT	G/M3	G/M3	COUNT
00:00	18.4	19.0	19.2	27.3	89.1	84.7	15.7	16.2	0.013673
01:00	17.9	18.3	18.6	27.1	89.4	83.6	15.2	15.5	0.013199
02:00	17.6	18.1	18.3	26.9	89.2	83.5	14.9	15.3	0.012948
03:00	17.1	17.6	17.8	26.7	90.0	82.7	14.5	14.9	0.012586
04:00	16.7	17.1	17.4	26.4	89.2	83.8	14.1	14.5	0.012227
05:00	16.5	16.8	17.2	26.2	90.2	82.1	14.0	14.2	0.012089
06:00	16.3	16.6	17.0	26.0	90.1	83.2	13.9	14.0	0.011947
07:00	16.4	16.4	17.2	25.7	88.8	83.0	13.9	13.9	0.012023
08:00	16.7	16.1	18.2	25.5	77.8	74.5	14.1	13.6	0.012246
09:00	15.9	15.4	18.8	25.4	59.7	59.8	13.3	12.9	0.011661
10:00	13.9	13.5	18.3	25.3	45.1	46.5	11.6	11.3	0.01025
11:00	13.2	13.0	18.5	25.4	38.4	40.8	11.0	10.9	0.009803
12:00	11.9	11.8	18.3	25.7	31.7	33.8	10.1	10.1	0.00905
13:00	10.3	10.3	17.5	26.2	27.6	29.1	9.1	9.1	0.008171
14:00	9.7	9.6	17.4	26.7	25.0	26.7	8.7	8.7	0.007853
15:00	9.7	9.8	17.7	27.2	24.1	25.9	8.8	8.8	0.007913
16:00	9.4	9.2	17.5	27.5	23.5	24.4	8.6	8.5	0.007738
17:00	9.9	9.7	17.8	27.8	24.3	25.0	8.8	8.7	0.007994
18:00	11.1	10.8	18.2	28.0	28.6	27.7	9.6	9.4	0.008665
19:00	13.6	12.0	18.4	28.1	42.4	34.3	11.3	10.2	0.0101
20:00	14.1	13.2	17.7	28.1	52.7	42.1	11.8	11.1	0.010434
21:00	14.4	14.0	17.2	27.9	60.3	50.6	12.1	11.7	0.01056
22:00	14.6	14.6	16.9	27.7	65.4	57.7	12.3	12.2	0.010685
23:00	14.7	14.9	16.7	27.5	69.5	62.2	12.4	12.5	0.010773
Avg	14.2	14.1	17.8	26.8	58.8	55.3	12.1	12.0	0.010608
Max	18.4	19.0	19.2	28.1	90.2	84.7	15.7	16.2	0.013673
Hr. of Max	00	00	00	20	05	00	00	00	00
Min	9.4	9.2	16.7	25.3	23.5	24.4	8.6	8.5	0.007738
Count	24	24	24	24	24	24	24	24	24
Total									

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OAK RIDGE NATIONAL LABORATORY
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Daily Summary Report

Site: Tower "D" (1000 Area)

9/15/2016

Interval: 001h

	24_Mix Ratio_015m	27_VaporPr_002m	28_VaporPr_015m	34_Precip_In	36_BarPres_In	37_BarPres_Mb	38_SolarRad_Wm2	39_SolarRad_Lang	40_WDir_015m
Hour	COUNT	KPa	KPa	INCHES	INHG	KPa	W/M2	Langleys	DEG
00:00	0.014166	21.3	22.0	.00	29.21	989.1	-2.4	.00	316.6
01:00	0.013579	20.6	21.1	.00	29.20	989.0	-1.6	.00	37.8
02:00	0.01337	20.2	20.8	.00	29.20	989.0	-1.8	.00	69.1
03:00	0.012952	19.6	20.2	.00	29.20	988.8	-2.5	.00	59.4
04:00	0.012575	19.1	19.6	.00	29.19	988.6	-2.5	.00	76.3
05:00	0.012357	18.8	19.3	.00	29.19	988.5	-2.6	.00	61.5
06:00	0.012138	18.6	18.9	.00	29.19	988.6	-2.7	.00	64.2
07:00	0.012018	18.8	18.7	.00	29.21	989.1	20.9	.03	58.8
08:00	0.0118	19.1	18.4	.00	29.22	989.6	192.9	.28	68.3
09:00	0.011293	18.2	17.6	.00	29.23	989.8	395.5	.57	69.1
10:00	0.010003	16.1	15.7	.00	29.24	990.1	601.5	.86	79.6
11:00	0.009702	15.4	15.2	.00	29.24	990.1	746.8	1.07	77.9
12:00	0.008963	14.2	14.1	.00	29.22	989.7	816.7	1.17	71.6
13:00	0.008145	12.8	12.8	.00	29.20	989.0	691.5	.99	67.3
14:00	0.007824	12.3	12.3	.00	29.18	988.2	828.5	1.19	67.8
15:00	0.007907	12.4	12.4	.00	29.15	987.2	759.2	1.09	40.0
16:00	0.007634	12.1	12.0	.00	29.13	986.5	546.1	.78	105.5
17:00	0.007865	12.5	12.3	.00	29.12	986.3	300.2	.43	66.6
18:00	0.008482	13.6	13.3	.00	29.13	986.4	161.9	.23	356.8
19:00	0.009142	15.8	14.3	.00	29.13	986.6	19.1	.03	337.3
20:00	0.009827	16.3	15.3	.00	29.14	986.9	-3.0	.00	24.5
21:00	0.010339	16.5	16.1	.00	29.16	987.6	-3.0	.00	43.3
22:00	0.01073	16.7	16.8	.00	29.17	988.0	-1.9	.00	54.2
23:00	0.01094	16.8	17.1	.00	29.18	988.2	-1.4	.00	53.6
Avg	0.010573	16.6	16.5	.00	29.18	988.4	252.3	.36	54.0
Max	0.014166	21.3	22.0	.00	29.24	990.1	828.5	1.19	356.8
Hr. of Max	00	00	00	23	11	11	14	14	18
Min	0.007634	12.1	12.0	.00	29.12	986.3	-3.0	.00	24.5
Count	24	24	24	24	24	24	24	24	24
Total									

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Daily Summary Report

Site: Tower "D" (1000 Area)

9/15/2016

Interval: 001h

	41_WDir_035m	42_WDir_060m	46_SWDir_015m	47_SWDir_060m	50_Sigma_015m	51_Sigma_035m	52_Sigma_060m	55_RWSpd_015m	56_RWSpd_035m
Hour	DEG	DEG	DEG	DEG	DEG	DEG	DEG	MPH	MPH
00:00	64.6	57.7	305.3	41.3	24.5	30.6	10.4	.5	.7
01:00	52.2	52.8	41.6	30.2	25.8	19.2	11.6	1.1	1.7
02:00	68.4	58.3	71.4	46.6	17.1	11.8	5.3	1.4	2.6
03:00	52.7	62.2	64.4	50.7	19.4	7.2	3.5	1.3	2.4
04:00	54.7	54.8	79.5	42.9	10.0	7.8	3.4	1.7	3.0
05:00	58.2	61.5	66.4	50.2	18.1	7.8	4.6	1.5	4.1
06:00	49.8	57.1	69.1	45.1	17.4	9.5	5.0	1.3	2.8
07:00	53.7	60.1	63.6	48.8	20.7	9.0	6.5	1.8	4.3
08:00	57.4	60.5	74.8	49.5	25.9	17.5	11.2	2.1	4.0
09:00	66.3	65.1	72.8	54.0	24.8	19.0	13.9	3.9	5.4
10:00	73.7	70.9	81.2	59.8	23.6	18.5	13.0	6.2	7.7
11:00	73.4	68.1	78.4	56.7	30.4	25.1	20.7	4.9	6.0
12:00	64.1	59.6	73.1	47.6	36.1	31.5	23.4	3.6	4.9
13:00	62.1	61.9	67.0	50.0	42.4	35.1	31.6	3.1	4.3
14:00	57.2	51.6	67.0	38.8	43.9	36.3	31.4	2.8	4.2
15:00	37.4	37.9	38.8	25.2	51.6	40.1	34.3	3.0	4.2
16:00	102.2	93.4	110.9	81.3	37.2	39.7	37.1	2.7	2.9
17:00	70.7	66.0	72.3	51.4	66.3	55.8	50.3	1.6	2.2
18:00	11.7	17.9	.9 +	3.0	44.7	32.5	23.5	1.8	3.7
19:00	5.2	11.9	336.5	357.4	27.5	13.3	13.3	1.8	4.3
20:00	64.3	56.0	28.0	42.7	21.7	7.1	7.6	1.1	1.8
21:00	70.5	62.6	48.1	49.4	23.4	12.1	8.6	.6	1.2
22:00	72.3	57.1	58.5	45.4	17.3	5.9	4.6	1.2	2.3
23:00	58.3	70.9	62.9	58.9	27.2	9.6	8.3	.6	2.1
Avg	58.0	57.0	58.0	44.0	29.0	20.9	16.0	.0	.0
Max	102.2	93.4	336.5	357.4	66.3	55.8	50.3	6.2	7.7
Hr. of Max	16	16	19	19	17	17	17	10	10
Min	5.2	11.9	.9	3.0	10.0	5.9	3.4	.5	.7
Count	24	24	24	24	24	24	24	24	24
Total									

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OAK RIDGE NATIONAL LABORATORY
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Daily Summary Report

Site: Tower "D" (1000 Area)

9/15/2016

Interval: 001h

	57_RWSpd_060m	58_WSpd_015m	59_WSpd_035m	60_WSpd_060m	66_HSSpd_015m	67_HSSpd_060m	70_WElev_015m	71_WElev_060m	72_VSSpd_015m
Hour	MPH	MPH	MPH	MPH	MPH	MPH	DEG	DEG	MPH
00:00	1.8	.9	.8	1.8	1.1	2.1	1.5	1.0	.04
01:00	2.9	1.5	2.0	2.9	1.6	3.2	.3	.6	.00
02:00	5.9	1.4	2.7	5.9	1.6	6.1	1.2	-.4	.03
03:00	5.4	1.4	2.4	5.4	1.4	5.6	3.0	-.1	.07
04:00	6.0	1.7	3.1	6.0	1.9	6.2	3.2	.0	.10
05:00	7.3	1.6	4.2	7.3	1.7	7.6	1.3	-1.1	.03
06:00	4.9	1.4	2.9	4.9	1.5	5.1	1.6	-.1	.04
07:00	6.4	1.9	4.4	6.4	2.0	6.6	.5	-.9	-.03
08:00	5.9	2.3	4.2	6.0	2.5	6.3	-2.3	3.3	-.20
09:00	7.2	4.3	5.7	7.3	4.9	7.8	2.3	2.7	.13
10:00	8.9	6.6	8.1	9.1	7.2	9.6	.7	1.4	-.16
11:00	7.1	5.4	6.6	7.5	5.9	8.0	2.3	1.8	.05
12:00	5.9	4.3	5.5	6.3	5.0	7.0	3.0	4.5	.10
13:00	4.8	3.9	5.0	5.5	4.5	6.1	-1.1	1.8	-.22
14:00	5.0	3.7	5.0	5.7	4.6	6.4	-1.2	2.2	-.24
15:00	4.9	4.4	5.4	5.7	4.8	6.5	-2.6	-2.7	-.31
16:00	3.3	3.4	3.9	4.2	4.2	4.9	1.6	3.6	.13
17:00	2.8	2.9	3.2	3.7	3.5	4.4	4.8	7.0	.11
18:00	4.5	2.4	4.1	4.9	2.9	5.3	-1.9	4.6	-.25
19:00	6.0	1.9	4.4	6.1	2.1	6.4	-1.2	2.1	-.09
20:00	2.9	1.2	1.8	2.9	1.4	3.1	2.9	.4	.06
21:00	2.8	.7	1.3	2.9	.9	3.1	4.7	.2	.07
22:00	5.0	1.3	2.4	5.0	1.4	5.2	3.7	1.0	.08
23:00	4.0	.8	2.1	4.1	1.0	4.3	3.9	.3	.08
Avg	.0	2.6	3.8	5.3	2.9	5.7	1.3	1.4	-.02
Max	8.9	6.6	8.1	9.1	7.2	9.6	4.8	7.0	.13
Hr. of Max	10	10	10	10	10	10	17	17	16
Min	1.8	.7	.8	1.8	.9	2.1	-2.6	-2.7	-.31
Count	24	24	24	24	24	24	24	24	24
Total									

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Daily Summary Report

Site: Tower "D" (1000 Area)

9/15/2016

Interval: 001h

	73_VSSpd_060m	79_PkWsH_015m	80_PkWsH_035m	81_PkWsH_060m	84_SigPhi_015m	85_SigPhi_060m	86_SonicTemp_015m	87_SonicTemp_060m
Hour	MPH	MPH	MPH	MPH	DEG	DEG	DEGC	DEGC
00:00	.03	3.4	2.5	3.7	7.7	5.6	23.4	24.6
01:00	.03	4.4	3.9	6.4	6.8	5.7	22.8	24.1
02:00	-.05	3.0	5.3	11.4	6.3	2.2	22.6	24.0
03:00	-.01	2.5	5.0	11.7	6.7	1.9	22.1	23.7
04:00	.00	3.0	7.1	11.4	7.1	2.1	21.4	22.8
05:00	-.16	4.8	8.0	15.3	12.2	3.6	21.5	22.1
06:00	-.02	3.0	6.6	12.6	9.6	3.6	21.0	21.3
07:00	-.13	4.8	7.8	11.9	15.1	5.2	20.9	21.0
08:00	.28	7.8	9.4	13.7	19.3	11.2	22.4	22.0
09:00	.20	12.8	12.8	16.0	20.0	12.9	25.2	24.3
10:00	.00	14.9	16.5	18.3	18.1	13.4	27.0	26.0
11:00	.16	12.1	13.3	14.2	20.4	15.8	28.6	27.4
12:00	.47	14.0	13.5	13.7	24.3	21.8	30.3	29.2
13:00	.01	12.1	20.6	20.2	23.7	21.1	31.1	30.1
14:00	.04	12.8	14.4	16.5	26.7	25.3	31.9	30.7
15:00	-.39	11.4	16.0	18.1	24.1	23.1	32.5	31.3
16:00	.39	8.7	10.8	11.9	23.7	27.7	32.9	32.0
17:00	.35	10.8	10.1	11.4	27.2	28.0	33.1	32.2
18:00	.21	10.5	11.7	10.8	22.3	16.8	32.7	32.0
19:00	.21	4.6	8.2	11.0	9.2	4.5	30.3	31.2
20:00	.02	3.2	3.9	4.6	7.0	4.2	28.1	29.4
21:00	.02	1.8	2.1	6.4	8.4	2.8	26.0	27.5
22:00	.07	2.5	3.9	8.5	7.9	2.4	24.6	26.4
23:00	.02	2.3	5.3	14.9	7.6	3.4	23.7	25.6
Avg	.07	7.1	9.1	12.3	15.1	11.0	26.5	26.7
Max	.47	14.9	20.6	20.2	27.2	28.0	33.1	32.2
Hr. of Max	12	10	13	13	17	17	17	17
Min	-.39	1.8	2.1	3.7	6.3	1.9	20.9	21.0
Count	24	24	24	24	24	24	24	24
Total								