Date Printed: 12/31/2016 01:20

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

Daily Summary Report

Site: Tower "D" (1000 Area)

12/30/2016

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	3.8	4.4	4.4	4.5	.60	.60	.64	.00	.04
01:00	3.6	4.1	4.1	4.1	.57	.56	.57	-.01	.00
02:00	3.6	3.9	3.8	3.8	.31	.21	.19	-.10	-.12
03:00	3.3	3.5	3.4	3.3	.21	.07	.00	-.15	-.21
04:00	2.5	2.8	2.7	2.6	.28	.16	.10	-.12	-.18
05:00	1.2	1.9	1.9	1.9	.74	.76	.79	.02	.04
06:00	-1.5	1.1	1.4	1.5	2.58	2.91	3.02	.33	.44
07:00	-2.1	.4	1.0	1.2	2.51	3.07	3.26	.56	.75
08:00	-1.0	.7	1.2	1.4	1.68	2.22	2.43	.54	.76
09:00	3.3	2.9	2.7	2.6	-.36	-.58	-.68	-.23	-.33
10:00	4.8	4.1	3.9	3.7	-.64	-.92	-1.09	-.28	-.45
11:00	5.7	5.0	4.6	4.4	-.74	-1.08	-1.28	-.34	-.54
12:00	6.3	5.4	5.0	4.8	-.90	-1.26	-1.45	-.36	-.55
13:00	7.1	6.1	5.8	5.6	-1.01	-1.33	-1.47	-.32	-.46
14:00	7.7	6.8	6.5	6.3	-.91	-1.22	-1.37	-.31	-.46
15:00	7.9	7.3	6.9	6.8	-.61	-.93	-1.10	-.32	-.49
16:00	7.3	7.0	6.8	6.6	-.34	-.57	-.69	-.23	-.35
17:00	5.0	6.2	6.1	6.1	1.19	1.17	1.15	-.02	-.05
18:00	1.4	4.3	5.0	5.4	2.97	3.61	4.00	.64	1.03
19:00	-.4	2.8	3.7	4.7	3.22	4.15	5.12	.93	1.89
20:00	-1.5	2.3	3.2	4.2	3.76	4.65	5.69	.89	1.92
21:00	-1.8	.4	2.0	3.2	2.17	3.74	4.96	1.57	2.78
22:00	-2.3	-.6	.5	2.0	1.74	2.81	4.31	1.07	2.56
23:00	-3.1	-1.3	-.1	1.9	1.79	3.03	4.97	1.23	3.18
Avg	2.5	3.4	3.6	3.9	.87	1.08	1.34	.21	.47
Max	7.9	7.3	6.9	6.8	3.76	4.65	5.69	1.57	3.18
Hr. of Max	15	15	15	15	20	20	20	21	23
Min	-3.1	-1.3	-.1	1.2	-1.01	-1.33	-1.47	-.36	-.55
Count	24	24	24	24	24	24	24	24	24
Total									

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Daily Summary Report

Site: Tower "D" (1000 Area)

12/30/2016

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	-6.4	-7.3	-3.0	7.9	47.7	42.8	3.0	2.8	0.002409
01:00	-7.0	-8.0	-3.5	7.7	46.5	41.3	2.9	2.6	0.002305
02:00	-7.8	-8.5	-4.0	7.6	43.6	40.3	2.7	2.5	0.002171
03:00	-8.6	-9.4	-4.7	7.4	41.7	38.8	2.5	2.4	0.002027
04:00	-9.1	-9.8	-5.2	7.3	42.4	39.3	2.4	2.3	0.001949
05:00	-8.3	-9.4	-5.1	7.1	49.9	43.3	2.6	2.4	0.002077
06:00	-6.8	-9.1	-5.0	6.9	67.8	47.0	2.9	2.4	0.00232
07:00	-6.3	-8.7	-4.9	6.8	73.5	50.9	3.1	2.5	0.002417
08:00	-5.9	-8.7	-4.3	6.6	70.0	50.0	3.1	2.5	0.002484
09:00	-8.2	-9.6	-4.4	6.5	43.5	39.9	2.6	2.3	0.002101
10:00	-9.3	-10.3	-4.6	6.3	35.8	34.7	2.4	2.2	0.00193
11:00	-10.0	-11.1	-4.8	6.3	31.7	30.6	2.3	2.1	0.001827
12:00	-9.8	-10.9	-4.4	6.2	31.1	30.3	2.3	2.1	0.001861
13:00	-9.6	-10.6	-4.0	6.2	29.9	29.5	2.3	2.1	0.001893
14:00	-10.0	-11.1	-4.1	6.3	27.8	27.0	2.2	2.1	0.001837
15:00	-10.8	-11.7	-4.5	6.4	25.9	25.0	2.1	2.0	0.001731
16:00	-10.8	-11.8	-4.8	6.5	26.7	25.4	2.1	2.0	0.001721
17:00	-9.4	-12.0	-4.6	6.6	35.7	26.4	2.4	1.9	0.001925
18:00	-6.8	-10.8	-4.1	6.6	55.2	33.1	2.9	2.1	0.002327
19:00	-6.3	-10.0	-4.3	6.6	65.2	38.8	3.0	2.3	0.002417
20:00	-6.3	-10.6	-4.7	6.6	70.3	38.5	3.1	2.2	0.002415
21:00	-6.1	-9.0	-4.7	6.5	72.7	50.1	3.1	2.5	0.002447
22:00	-6.1	-6.5	-4.9	6.4	75.5	65.0	3.1	3.0	0.002436
23:00	-6.3	-7.5	-5.2	6.3	79.2	63.3	3.1	2.8	0.002412
Avg	-8.0	-9.7	-4.5	6.7	49.6	39.6	2.7	2.3	0.002143
Max	-5.9	-6.5	-3.0	7.9	79.2	65.0	3.1	3.0	0.002484
Hr. of Max	08	22	00	00	23	22	23	22	08
Min	-10.8	-12.0	-5.2	6.2	25.9	25.0	2.1	1.9	0.001721
Count	24	24	24	24	24	24	24	24	24
Total									

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Daily Summary Report

Site: Tower "D" (1000 Area)

12/30/2016

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	0.002257	3.8	3.6	.00	29.20	988.9	-2.2	.00	240.7
01:00	0.002133	3.7	3.4	.00	29.21	989.0	-2.1	.00	248.3
02:00	0.002051	3.4	3.3	.00	29.22	989.4	-2.5	.00	258.8
03:00	0.001917	3.2	3.0	.00	29.24	990.1	-2.5	.00	268.0
04:00	0.001845	3.1	2.9	.00	29.25	990.5	-2.6	.00	262.1
05:00	0.001906	3.3	3.0	.00	29.25	990.5	-2.4	.00	240.2
06:00	0.001945	3.7	3.1	.00	29.25	990.6	-2.4	.00	225.6
07:00	0.002013	3.8	3.2	.00	29.25	990.7	-.5	.00	212.2
08:00	0.002014	3.9	3.2	.00	29.26	990.9	100.0	.14	174.7
09:00	0.001883	3.3	3.0	.00	29.28	991.5	276.1	.40	249.2
10:00	0.001786	3.1	2.8	.00	29.29	991.9	423.7	.61	270.0
11:00	0.001673	2.9	2.7	.00	29.30	992.2	523.3	.75	267.6
12:00	0.001703	3.0	2.7	.00	29.28	991.6	566.3	.81	268.3
13:00	0.001742	3.0	2.8	.00	29.26	990.9	496.8	.71	270.1
14:00	0.001677	2.9	2.7	.00	29.25	990.4	426.9	.61	259.3
15:00	0.001606	2.7	2.6	.00	29.25	990.5	348.5	.50	274.4
16:00	0.001596	2.7	2.5	.00	29.26	990.8	171.5	.25	269.4
17:00	0.001567	3.1	2.5	.00	29.26	990.9	14.6	.02	262.9
18:00	0.001718	3.7	2.7	.00	29.27	991.3	-2.5	.00	58.8
19:00	0.001818	3.8	2.9	.00	29.28	991.7	-2.5	.00	94.9
20:00	0.001737	3.8	2.8	.00	29.28	991.7	-1.8	.00	273.8
21:00	0.001971	3.9	3.1	.00	29.27	991.1	-2.4	.00	138.8
22:00	0.002385	3.9	3.8	.00	29.26	990.9	-2.4	.00	84.1
23:00	0.002204	3.8	3.5	.00	29.26	991.1	-2.7	.00	171.3
Avg	0.001881	3.4	3.0	.00	29.26	990.8	138.2	.20	245.0
Max	0.002385	3.9	3.8	.00	29.30	992.2	566.3	.81	274.4
Hr. of Max	22	22	22	23	11	11	12	12	15
Min	0.001567	2.7	2.5	.00	29.20	988.9	-2.7	.00	58.8
Count	24	24	24	24	24	24	24	24	24
Total									

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Daily Summary Report

Site: Tower "D" (1000 Area)

12/30/2016

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	261.1	266.9	244.3	261.6	29.1	20.2	17.8	3.8	5.7
01:00	265.9	272.4	250.2	266.8	30.6	21.0	18.7	4.0	6.1
02:00	273.3	276.7	259.5	270.4	29.0	21.5	18.7	6.2	8.7
03:00	280.9	283.7	268.1	276.8	31.5	24.9	20.8	8.6	11.7
04:00	280.8	285.2	261.6	278.6	41.1	28.3	22.7	4.5	6.4
05:00	258.9	265.6	243.0	260.0	24.5	20.2	15.4	3.3	5.1
06:00	245.1	252.6	227.4	247.6	9.7	8.2	8.9	3.5	5.5
07:00	238.0	247.2	220.1	242.0	13.3	7.3	7.9	2.3	4.7
08:00	233.7	248.3	198.2	242.6	29.7	13.2	12.5	1.6	3.7
09:00	262.9	268.6	250.0	262.5	28.4	24.0	21.9	4.9	6.8
10:00	277.4	276.9	268.5	270.7	31.6	25.7	22.9	6.5	8.4
11:00	274.3	275.4	267.0	269.2	34.9	27.3	21.6	6.5	8.7
12:00	279.7	280.6	266.7	273.7	29.1	23.1	18.3	7.0	8.9
13:00	279.6	279.3	266.5	272.9	43.0	34.7	29.1	4.9	6.0
14:00	268.3	269.9	259.6	263.6	32.8	27.6	25.8	6.1	7.5
15:00	282.9	284.2	272.2	277.0	31.7	24.8	21.4	5.1	7.0
16:00	279.3	279.7	268.4	273.0	28.9	23.0	18.8	4.8	6.7
17:00	275.1	278.9	265.1	272.7	32.6	16.6	14.2	2.1	3.9
18:00	242.3	261.1	354.9	254.8	26.5	18.7	19.0	.1	1.0
19:00	256.9	206.3	257.1	201.0	53.1	41.8	15.8	.2	.2
20:00	243.6	216.6	266.0	212.7	24.8	7.2	4.5	1.2	2.2
21:00	336.6	215.6	216.5	216.5	24.0	29.2	26.4	.1	.3
22:00	22.4	101.5	100.7	73.8	9.3	22.4	19.4	.3	1.0
23:00	232.9	244.4	238.7	239.7	25.7	7.2	10.3	.8	1.6
Avg	268.0	262.0	253.0	257.0	29.0	21.6	18.0	.0	.0
Max	336.6	285.2	354.9	278.6	53.1	41.8	29.1	8.6	11.7
Hr. of Max	21	04	18	04	19	19	13	03	03
Min	22.4	101.5	100.7	73.8	9.3	7.2	4.5	.1	.2
Count	24	24	24	24	24	24	24	24	24
Total									

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Daily Summary Report

Site: Tower "D" (1000 Area)

12/30/2016

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	7.7	4.1	6.1	8.1	4.7	8.6	.7	1.6	.00
01:00	8.3	4.5	6.5	8.7	5.0	9.1	1.6	.4	-.07
02:00	10.9	6.9	9.2	11.5	7.4	12.0	-.8	-1.8	-.35
03:00	14.6	9.7	12.7	15.5	10.2	16.0	-1.3	-2.4	-.55
04:00	8.4	5.3	7.1	9.0	5.8	9.5	-1.0	-.7	-.23
05:00	6.8	3.6	5.4	7.1	4.0	7.5	-.1	-.8	-.05
06:00	6.9	3.6	5.6	7.0	3.9	7.3	.7	.7	.03
07:00	6.2	2.4	4.8	6.2	2.7	6.6	.0	1.2	.00
08:00	5.1	1.7	3.8	5.3	2.1	5.6	2.6	.9	.06
09:00	8.2	5.6	7.5	8.7	6.1	9.2	-.3	-.1	-.27
10:00	10.0	7.4	9.1	10.7	7.7	11.3	-2.0	-1.0	-.53
11:00	10.5	7.4	9.5	11.2	8.0	11.8	-2.4	-.5	-.59
12:00	10.4	7.8	9.6	11.0	8.4	11.6	-1.1	-4.3	-.43
13:00	7.1	5.9	7.0	7.9	6.5	8.4	.1	-1.3	-.18
14:00	8.5	6.8	8.2	9.2	7.3	9.8	.0	-1.1	-.26
15:00	8.2	5.8	7.7	8.8	6.3	9.3	.6	-1.9	-.26
16:00	8.1	5.4	7.2	8.5	5.7	8.8	-1.8	-.5	-.38
17:00	5.4	2.3	4.1	5.6	2.7	5.7	-.9	-.6	-.10
18:00	2.2	.3	1.1	2.7	.7	2.8	2.6	2.0	.03
19:00	2.0	.7	.3	2.2	1.1	2.4	1.3	-1.1	.03
20:00	3.9	1.4	2.2	3.9	1.6	4.2	.6	-.1	.02
21:00	1.9	.6	1.3	2.0	1.1	2.3	2.5	.6	.05
22:00	1.4	.3	1.1	1.5	.7	1.7	.8	.1	.01
23:00	2.7	.8	1.6	2.7	1.4	3.0	.6	.8	.00
Avg	.0	4.2	5.8	7.3	4.6	7.7	.1	-.4	-.17
Max	14.6	9.7	12.7	15.5	10.2	16.0	2.6	2.0	.06
Hr. of Max	03	03	03	03	03	03	18	18	08
Min	1.4	.3	.3	1.5	.7	1.7	-2.4	-4.3	-.59
Count	24	24	24	24	24	24	24	24	24
Total									

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Daily Summary Report

Site: Tower "D" (1000 Area)

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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	14.2	17.9	24.3	16.7	12.7	4.5	4.2
01:00	-.20	15.3	18.3	20.6	17.3	13.6	4.2	3.9
02:00	-.70	27.2	26.3	27.0	17.4	13.9	4.0	3.5
03:00	-1.16	28.9	34.1	36.9	17.9	13.8	3.5	3.0
04:00	-.39	16.3	21.3	23.6	20.5	16.5	2.8	2.3
05:00	-.24	14.4	17.4	17.4	13.4	10.9	1.9	1.7
06:00	.06	8.9	13.7	14.0	6.0	6.2	1.0	1.3
07:00	.12	7.6	11.2	14.0	5.9	5.4	.4	1.0
08:00	.05	7.1	8.0	11.9	12.2	8.6	.6	1.1
09:00	-.52	19.2	22.4	22.0	17.4	16.5	2.9	2.2
10:00	-.63	22.0	21.8	27.7	19.2	17.1	4.1	3.2
11:00	-.50	21.1	22.4	25.6	19.8	15.1	4.8	3.8
12:00	-1.11	20.6	21.3	21.8	18.1	13.8	5.1	4.2
13:00	-.42	24.0	16.7	16.5	21.3	17.8	5.9	5.1
14:00	-.49	16.9	17.4	20.6	18.4	16.3	6.6	5.8
15:00	-.62	15.1	16.3	20.6	20.6	16.4	7.1	6.3
16:00	-.39	15.3	16.9	18.3	17.2	14.6	6.9	6.2
17:00	-.14	9.2	11.9	16.3	15.3	9.8	6.1	5.8
18:00	.07	2.5	5.3	6.9	12.4	7.7	4.1	5.0
19:00	-.05	3.0	1.6	3.7	6.0	3.1	2.6	4.4
20:00	.00	5.7	3.4	6.0	5.4	1.4	2.1	4.0
21:00	.01	2.5	4.4	8.0	6.5	4.4	.3	3.0
22:00	.02	1.8	3.7	3.7	7.5	6.9	-.6	1.8
23:00	.04	3.0	4.6	5.0	6.5	5.6	-1.3	1.7
Avg	-.30	13.4	14.9	17.2	14.1	11.2	3.3	3.5
Max	.12	28.9	34.1	36.9	21.3	17.8	7.1	6.3
Hr. of Max	07	03	03	03	13	13	15	15
Min	-1.16	1.8	1.6	3.7	5.4	1.4	-1.3	1.0
Count	24	24	24	24	24	24	24	24
Total								