Date Printed: 12/19/2016 01:20

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

Daily Summary Report

Site: Tower "D" (1000 Area)

12/18/2016

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	9.2	10.4	11.2	12.2	1.12	1.94	2.94	.82	1.82
01:00	18.7	19.5	19.6	19.7	.76	.91	1.02	.15	.25
02:00	19.9 P	20.2 P	20.1 P	20.2 P	P	P	P	P	P
03:00	20.1	20.4	20.3	20.3	.31	.18	.22	-.13	-.09
04:00	20.6	20.9	20.7	20.8	.28	.16	.18	-.12	-.11
05:00	13.8	13.9	13.8	13.7	.08	-.05	-.08	-.13	-.16
06:00	9.5	9.5	9.4	9.3	.00	-.14	-.20	-.14	-.20
07:00	6.6	6.5	6.4	6.3	-.04	-.18	-.25	-.14	-.21
08:00	4.2	4.1	3.9	3.8	-.11	-.28	-.37	-.16	-.26
09:00	2.8	2.7	2.5	2.4	-.13	-.28	-.38	-.16	-.25
10:00	2.1	1.9	1.8	1.7	-.19	-.35	-.48	-.16	-.28
11:00	1.8	1.6	1.4	1.3	-.20	-.37	-.48	-.17	-.28
12:00	1.3	1.0	.8	.7	-.24	-.42	-.55	-.18	-.31
13:00	.9	.7	.5	.4	-.22	-.39	-.51	-.17	-.29
14:00	.9	.7	.5	.4	-.24	-.42	-.54	-.18	-.30
15:00	1.2	.9	.8	.7	-.23	-.41	-.51	-.18	-.27
16:00	1.1	1.0	.9	.8	-.11	-.24	-.34	-.13	-.23
17:00	.3	.2	.1	.0	-.08	-.22	-.33	-.15	-.25
18:00	-.5	-.6	-.8	-.9	-.10	-.27	-.38	-.17	-.28
19:00	-1.1	-1.1	-1.3	-1.4	-.03	-.19	-.30	-.16	-.27
20:00	-1.7	-1.7	-1.8	-1.9	.07	-.06	-.16	-.13	-.23
21:00	-2.1	-2.0	-2.1	-2.2	.08	-.03	-.11	-.12	-.20
22:00	-1.9	-2.0	-2.1	-2.3	-.06	-.25	-.37	-.19	-.31
23:00	-1.8	-2.0	-2.2	-2.3	-.12	-.33	-.46	-.22	-.35
Avg	5.2	5.3	5.2	5.2	.03	-.07	-.11	-.10	-.13
Max	20.6	20.9	20.7	20.8	1.12	1.94	2.94	.82	1.82
Hr. of Max	04	04	04	04	00	00	00	00	00
Min	-2.1	-2.0	-2.2	-2.3	-.24	-.42	-.55	-.22	-.35
Count	24	24	24	24	23	23	23	23	23
Total									

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Daily Summary Report

Site: Tower "D" (1000 Area)

12/18/2016

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	8.7	10.1	8.9	6.8	97.4	99.3	8.7	9.5	0.007254
01:00	16.8	16.8	17.4	6.9	90.9	86.9	14.3	14.2	0.012482
02:00	P	P	P	7.1 P	79.2 P	77.1 P	P	P	P
03:00	15.8	15.7	17.2	7.4	77.7	76.0	13.3	13.2	0.01166
04:00	15.6	15.5	17.3	7.8	74.7	73.0	13.1	13.1	0.011546
05:00	11.5	11.6	12.2	9.1	87.0	87.5	10.3	10.4	0.008777
06:00	7.9	7.9	8.4	10.0	90.7	90.9	8.2	8.2	0.006835
07:00	4.9	4.9	5.5	10.1	90.1	90.0	6.7	6.7	0.005534
08:00	3.0	2.9	3.4	10.1	92.5	93.0	5.9	5.9	0.004801
09:00	1.4	1.2	1.8	9.8	91.0	91.0	5.3	5.3	0.004266
10:00	.8	.6	1.3	9.3	91.6	91.4	5.1	5.0	0.004092
11:00	.4	.2	.9	8.9	91.1	90.6	5.0	4.9	0.003971
12:00	-.2	-.6	.3	8.6	90.2	89.5	4.7	4.6	0.003781
13:00	-.8	-1.2	-.2	8.4	89.1	87.8	4.6	4.4	0.003633
14:00	-1.0	-1.5	-.4	8.2	87.6	86.0	4.5	4.3	0.003575
15:00	-1.0	-1.5	-.3	8.0	86.0	84.1	4.5	4.3	0.00357
16:00	-1.6	-2.6	-.7	7.9	82.8	77.6	4.3	4.0	0.003426
17:00	-3.0	-3.8	-1.9	7.8	78.7	74.7	3.9	3.7	0.003068
18:00	-4.0	-4.7	-2.8	7.6	77.8	74.4	3.6	3.4	0.002847
19:00	-4.2	-4.6	-3.1	7.4	79.9	77.5	3.6	3.5	0.002809
20:00	-4.6	-5.0	-3.6	7.2	81.4	78.3	3.5	3.4	0.002722
21:00	-5.0	-5.4	-4.0	7.0	80.9	77.7	3.4	3.3	0.002636
22:00	-5.3	-5.8	-4.2	6.7	77.9	75.6	3.3	3.2	0.002573
23:00	-5.4	-6.0	-4.2	6.5	76.8	74.5	3.3	3.1	0.002543
Avg	2.2	1.9	3.0	8.1	85.1	83.5	6.2	6.2	0.005148
Max	16.8	16.8	17.4	10.1	97.4	99.3	14.3	14.2	0.012482
Hr. of Max	01	01	01	08	00	00	01	01	01
Min	-5.4	-6.0	-4.2	6.5	74.7	73.0	3.3	3.1	0.002543
Count	23	23	23	24	24	24	23	23	23
Total									

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OAK RIDGE NATIONAL LABORATORY
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Daily Summary Report

Site: Tower "D" (1000 Area)

12/18/2016

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	0.008005	11.3	12.4	.00	28.90	978.6	-2.3	.00	41.4
01:00	0.012485	19.2	19.2	.00	28.87	977.8	-2.1	.00	218.0
02:00	P	P	P	.00 P	28.88 P	977.9 P	-2.2 P	.00 P	210.4 P
03:00	0.011627	18.0	17.9	.00	28.87	977.8	-2.3	.00	212.3
04:00	0.011494	17.8	17.7	.00	28.86	977.3	-2.6	.00	211.7
05:00	0.008868	13.6	13.8	.29	28.95	980.4	-2.4	.00	269.6
06:00	0.006853	10.7	10.7	.22	29.03	983.1	-2.3	.00	259.2
07:00	0.00551	8.7	8.7	.02	29.11	985.7	-2.2	.00	246.6
08:00	0.004787	7.6	7.6	.08	29.21	989.2	2.6	.00	232.0
09:00	0.004227	6.8	6.7	.20	29.28	991.5	24.5	.04	253.0
10:00	0.004025	6.5	6.4	.10	29.31	992.7	51.5	.07	259.3
11:00	0.003896	6.3	6.2	.04	29.34	993.5	76.2	.11	263.6
12:00	0.003686	6.0	5.9	.08	29.35	993.9	87.9	.13	267.5
13:00	0.003522	5.8	5.6	.00	29.37	994.5	56.5	.08	265.5
14:00	0.003448	5.7	5.5	.00	29.38	994.9	40.7	.06	234.0
15:00	0.003434	5.7	5.5	.00	29.40	995.8	41.7	.06	201.5
16:00	0.003182	5.5	5.1	.00	29.44	997.0	39.9	.06	8.2
17:00	0.002893	4.9	4.6	.00	29.47	997.9	.9	.00	40.1
18:00	0.002705	4.6	4.3	.00	29.49	998.8	-2.7	.00	45.1
19:00	0.00272	4.5	4.4	.00	29.51	999.5	-2.1	.00	55.2
20:00	0.002633	4.4	4.2	.00	29.54	1000.3	-1.8	.00	57.2
21:00	0.002549	4.2	4.1	.00	29.55	1000.7	-2.7	.00	56.1
22:00	0.002484	4.1	4.0	.00	29.57	1001.3	-2.3	.00	46.6
23:00	0.002445	4.1	3.9	.00	29.58	1001.7	-2.3	.00	44.9
Avg	0.005108	8.1	8.0	.04	29.26	990.9	16.3	.03	265.0
Max	0.012485	19.2	19.2	.29	29.58	1001.7	87.9	.13	269.6
Hr. of Max	01	01	01	05	23	23	12	12	05
Min	0.002445	4.1	3.9	.00	28.86	977.3	-2.7	.00	8.2
Count	23	23	23	24	24	24	24	24	24
Total									

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Daily Summary Report

Site: Tower "D" (1000 Area)

12/18/2016

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	79.1	134.6	345.0	123.5	54.5	36.7	47.8	.3	1.4
01:00	220.7	215.5	218.2	210.9	21.8	17.5	13.1	10.9	15.8
02:00	214.0 P	211.2 P	209.9 P	206.5 P	23.2 P	18.4 P	15.0 P	11.3 P	15.2 P
03:00	216.1	211.8	212.5	207.2	21.8	19.7	16.0	11.3	14.7
04:00	214.1	209.2	210.8	204.7	24.5	19.6	16.6	11.9	16.0
05:00	278.2	280.1	268.7	273.4	25.6	22.1	18.0	10.5	14.9
06:00	269.4	273.7	259.3	268.2	22.5	17.9	15.2	7.8	10.8
07:00	257.7	261.9	246.7	256.7	21.1	19.3	14.8	8.1	10.4
08:00	242.8	244.0	232.2	239.8	20.4	14.9	13.0	6.7	9.0
09:00	269.6	274.2	252.8	268.7	24.4	20.0	16.1	5.8	8.1
10:00	276.4	280.8	259.7	274.4	29.5	23.2	18.9	5.4	7.4
11:00	283.2	288.4	262.0	281.7	42.7	35.1	32.6	5.2	7.0
12:00	280.5	282.9	266.8	275.7	49.0	38.3	30.5	4.7	6.3
13:00	282.2	284.5	263.6	277.9	35.1	22.7	18.5	4.5	6.1
14:00	271.8	278.4	245.5	272.8	50.9	37.5	28.6	1.8	2.4
15:00	240.1	259.1	229.6	246.6	34.5	37.4	37.5	1.1	1.2
16:00	14.9	17.6	356.8	6.3	36.3	29.3	24.4	2.5	4.5
17:00	35.1	34.8	30.0	23.8	33.4	17.6	13.0	3.0	6.1
18:00	41.4	38.8	36.2	27.9	32.3	16.9	12.4	2.8	5.8
19:00	54.0	54.8	45.4	45.4	26.5	15.7	10.9	2.6	5.5
20:00	53.6	52.9	47.1	43.3	21.4	13.0	7.7	2.8	5.9
21:00	48.6	48.2	45.8	38.2	29.2	16.2	10.1	2.9	6.6
22:00	38.9	36.7	37.0	26.3	34.5	18.3	13.1	3.3	6.8
23:00	37.6	36.2	36.1	25.5	34.5	17.5	12.3	2.8	5.7
Avg	290.0	290.0	276.0	285.0	31.2	22.7	19.0	.0	.0
Max	283.2	288.4	356.8	281.7	54.5	38.3	47.8	11.9	16.0
Hr. of Max	11	11	16	11	00	12	00	04	04
Min	14.9	17.6	30.0	6.3	20.4	13.0	7.7	.3	1.2
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)

12/18/2016

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	3.8	2.0	3.6	5.3	2.4	5.8	1.4	1.6	-.04
01:00	19.6	11.6	16.5	20.1	12.5	21.1	.9	.4	-.12
02:00	19.1 P	12.0 P	15.9 P	19.6 P	12.9 P	20.6 P	1.2 P	-.3 P	-.08 P
03:00	18.4	12.0	15.4	19.0	12.8	20.0	2.2	-.1	.08
04:00	20.4	12.8	16.9	21.2	13.9	22.3	2.9	.0	.23
05:00	19.1	11.5	15.9	20.0	11.9	20.2	-2.1	-1.6	-.77
06:00	13.6	8.4	11.5	14.1	9.0	14.5	-.2	-.8	-.40
07:00	12.8	8.6	11.0	13.3	9.1	13.8	-.1	.9	-.28
08:00	10.7	7.2	9.4	11.1	7.5	11.6	1.3	.2	-.05
09:00	10.4	6.4	8.7	10.9	7.0	11.1	.4	1.5	-.14
10:00	9.3	5.9	7.9	9.7	6.3	9.9	-1.3	-.2	-.35
11:00	8.5	5.9	7.8	9.3	6.4	9.5	-1.1	-2.7	-.37
12:00	7.8	5.4	6.8	8.2	5.9	8.4	-2.1	.4	-.40
13:00	8.0	5.0	6.5	8.4	5.4	8.5	-1.2	-2.0	-.23
14:00	3.4	2.1	2.8	3.7	2.7	4.0	5.5	1.4	.14
15:00	1.0	1.4	1.6	1.4	1.9	1.8	-.8	-.9	-.04
16:00	5.0	3.0	4.9	5.3	3.3	5.6	-2.8	-.5	-.32
17:00	7.4	3.4	6.4	7.6	3.8	8.0	1.2	.0	-.17
18:00	7.3	3.1	6.0	7.4	3.5	7.9	.8	-.3	-.25
19:00	7.1	3.0	5.7	7.3	3.2	7.6	-.4	-.1	-.19
20:00	7.5	3.0	6.0	7.5	3.3	7.8	-.1	-1.1	-.18
21:00	9.0	3.2	6.9	9.1	3.7	9.5	2.4	1.0	-.12
22:00	8.6	3.8	7.1	8.9	4.3	9.4	-.3	1.7	-.34
23:00	7.3	3.1	5.9	7.4	3.7	7.9	-.2	.5	-.28
Avg	.0	6.0	8.6	10.7	6.5	11.1	.3	.0	-.19
Max	20.4	12.8	16.9	21.2	13.9	22.3	5.5	1.7	.23
Hr. of Max	04	04	04	04	04	04	14	22	04
Min	1.0	1.4	1.6	1.4	1.9	1.8	-2.8	-2.7	-.77
Count	24	24	24	24	24	24	24	24	24
Total									

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Daily Summary Report

Site: Tower "D" (1000 Area)

12/18/2016

Interval: 001h

	73_VSSpd_060m	79_PkWsH_015m	80_PkWsH_035m	81_PkWsH_060m	84_SigPhi_015m	85_SigPhi_060m	36_SonicTemp_015m	37_SonicTemp_060m
Hour	MPH	MPH	MPH	MPH	DEG	DEG	DEGC	DEGC
00:00	.03	12.8	21.8	28.2	15.0	16.5	11.0	13.1
01:00	-.19	37.8	37.8	39.4	15.0	10.6	20.7	20.7
02:00	-.43 P	<	<	<	<	<	21.3 P	20.9 P
03:00	-.42	29.5	36.0	39.8	16.0	12.0	21.4	21.0
04:00	-.40	35.7	53.1	57.5	16.7	12.3	21.9	21.4
05:00	-.98	30.2	46.9	51.3	16.9	11.7	14.8	14.3
06:00	-.55	26.1	25.9	35.7	17.2	11.7	10.2	9.7
07:00	-.09	20.2	22.7	25.4	15.1	11.6	7.1	6.5
08:00	-.10	17.2	20.6	20.2	14.7	8.8	4.5	3.9
09:00	.05	16.9	20.4	21.3	16.8	11.8	3.1	2.5
10:00	-.28	16.3	20.4	20.6	17.9	13.3	2.3	1.7
11:00	-.55	20.4	22.0	34.3	19.2	14.6	2.0	1.3
12:00	-.18	15.3	17.9	18.8	18.1	16.8	1.4	.7
13:00	-.37	15.6	15.8	16.3	20.0	13.7	.9	.3
14:00	-.07	9.2	10.1	11.2	21.7	20.2	.9	.2
15:00	-.07	3.9	4.4	4.1	20.3	26.1	1.1	.5
16:00	-.11	9.2	9.8	11.0	18.1	11.3	1.1	.6
17:00	-.09	10.1	11.7	12.6	23.0	9.6	.3	-.3
18:00	-.11	9.4	16.3	13.3	23.8	10.0	-.6	-1.2
19:00	-.07	8.5	11.9	23.1	21.6	8.4	-1.0	-1.6
20:00	-.22	8.5	14.9	14.9	19.7	6.9	-1.6	-2.1
21:00	.07	11.9	14.7	17.2	22.2	8.8	-1.9	-2.4
22:00	.16	13.5	19.0	17.6	23.5	10.3	-1.9	-2.5
23:00	-.05	9.8	12.6	15.3	22.9	11.2	-1.9	-2.6
Avg	-.21	16.9	21.2	23.9	18.9	12.5	5.7	5.3
Max	.16	37.8	53.1	57.5	23.8	26.1	21.9	21.4
Hr. of Max	22	01	04	04	18	15	04	04
Min	-.98	3.9	4.4	4.1	14.7	6.9	-1.9	-2.6
Count	24	23	23	23	23	23	24	24
Total								