Date Printed: 12/22/2017 09:33

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

Daily Summary Report

Site: Tower "D" (1000 Area)

12/21/2017

Interval: 001h

	01_TempC_002m	02_TempC_015m	03_TempC_035m	04_TempC_060m	05_TempF_002m	06_TempF_015m	07_TempF_035m	08_TempF_060m	09_VTGrad_0215m
Hour	DEGC	DEGC	DEGC	DEGC	DEGF	DEGF	DEGF	DEGF	DEGC
00:00	9.4	10.6	10.9	11.2	49.0	51.1	51.6	52.1	1.21
01:00	8.9	10.1	10.5	10.8	48.0	50.1	51.0	51.4	1.20
02:00	8.0	9.4	9.8	10.3	46.3	48.9	49.6	50.5	1.42
03:00	7.5	8.9	9.4	10.0	45.6	48.0	48.9	49.9	1.37
04:00	7.9	8.7	9.1	9.6	46.2	47.7	48.4	49.3	.88
05:00	8.4	8.9	9.2	9.7	47.1	48.1	48.5	49.4	.54
06:00	8.7	9.3	9.4	9.6	47.7	48.8	48.9	49.3	.63
07:00	8.8	9.1	9.2	9.5	47.8	48.4	48.6	49.0	.30
08:00	9.1	9.2	9.2	9.3	48.3	48.5	48.6	48.7	.11
09:00	9.5	9.3	9.2	9.1	49.0	48.8	48.5	48.4	-.12
10:00	10.0	9.8	9.5	9.5	49.9	49.6	49.2	49.0	-.20
11:00	11.0	10.8	10.6	10.4	51.9	51.4	51.0	50.7	-.24
12:00	12.1	11.8	11.6	11.5	53.8	53.3	53.0	52.7	-.27
13:00	12.7	12.4	12.2	12.1	54.9	54.3	53.9	53.7	-.31
14:00	12.9	12.6	12.4	12.3	55.3	54.8	54.3	54.2	-.30
15:00	13.1	12.9	12.6	12.5	55.5	55.1	54.8	54.6	-.20
16:00	13.0	13.0	12.8	12.7	55.4	55.3	55.0	54.8	-.04
17:00	12.3	12.6	12.6	12.5	54.2	54.7	54.6	54.6	.31
18:00	11.7	12.3	12.4	12.5	53.1	54.1	54.3	54.6	.58
19:00	11.7	12.7	12.9	13.0	53.0	54.9	55.2	55.5	1.04
20:00	12.2	12.5	12.5	12.6	53.9	54.5	54.5	54.7	.31
21:00	12.7	13.0	12.9	13.0	54.9	55.3	55.3	55.3	.23
22:00	12.5	12.7	12.6	12.6	54.4	54.8	54.7	54.7	.24
23:00	11.9	12.2	12.2	12.2	53.4	54.0	53.9	54.0	.32
Avg	10.7	11.0	11.1	11.2	51.2	51.9	51.9	52.1	.38
Max	13.1	13.0	12.9	13.0	55.5	55.3	55.3	55.5	1.42
Hr. of Max	15	21	21	21	15	21	21	19	02
Min	7.5	8.7	9.1	9.1	45.6	47.7	48.4	48.4	-.31
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)

12/21/2017

Interval: 001h

	10_VTGrad_0235m	11_VTGrad_0260m	12_VTGrad_1535m	13_VTGrad_1560m	14_DewPtC_002m	15_DewPtC_015m	17a_WBulbC	18_SoilTempC	19_RH_002m
Hour	DEGC	DEGC	DEGC	DEGC	DEGC	DEGC	DEGC	DEGC	PERCENT
00:00	1.45	1.73	.24	.52	8.7	10.1	10.3	9.7	96.6
01:00	1.65	1.89	.45	.69	8.5	9.6	9.7	9.7	98.5
02:00	1.83	2.31	.41	.89	7.6	8.9	9.0	9.7	98.6
03:00	1.82	2.41	.45	1.05	7.2	8.5	8.6	9.6	98.9
04:00	1.23	1.76	.36	.89	7.6	8.3	8.4	9.6	99.2
05:00	.81	1.29	.26	.75	8.1	8.5	8.6	9.5	99.3
06:00	.67	.93	.04	.30	8.4	8.9	9.0	9.5	99.3
07:00	.45	.68	.14	.37	8.5	8.6	8.8	9.5	99.2
08:00	.16	.18	.05	.07	8.8	8.7	8.9	9.4	99.2
09:00	-.30	-.35	-.18	-.22	9.1	8.9	9.0	9.4	98.5
10:00	-.41	-.48	-.22	-.29	9.4	9.3	9.4	9.4	97.3
11:00	-.48	-.63	-.24	-.38	10.0	10.3	10.5	9.4	94.7
12:00	-.47	-.62	-.20	-.36	10.5	11.3	11.5	9.5	91.3
13:00	-.55	-.67	-.24	-.36	10.7	11.9	12.0	9.6	88.6
14:00	-.54	-.64	-.23	-.33	10.7	12.1	12.3	9.7	87.4
15:00	-.42	-.52	-.21	-.31	10.7	12.3	12.5	9.8	87.1
16:00	-.23	-.31	-.20	-.27	10.8	12.3	12.5	9.9	87.7
17:00	.25	.22	-.06	-.09	11.0	12.0	12.2	10.0	93.1
18:00	.67	.81	.08	.23	11.0	11.7	11.9	10.0	96.7
19:00	1.22	1.38	.17	.33	10.9	11.7	12.0	10.0	96.7
20:00	.34	.42	.02	.11	10.3	11.0	11.5	10.0	89.5
21:00	.18	.22	-.04	-.01	8.8	8.8	10.2	10.0	78.3
22:00	.17	.17	-.07	-.07	8.0	7.9	9.5	10.1	75.3
23:00	.31	.34	-.02	.02	8.1	8.0	9.4	10.0	78.4
Avg	.41	.52	.03	.15	9.3	10.0	10.3	9.7	92.9
Max	1.83	2.41	.45	1.05	11.0	12.3	12.5	10.1	99.3
Hr. of Max	02	03	03	03	18	16	16	22	06
Min	-.55	-.67	-.24	-.38	7.2	7.9	8.4	9.4	75.3
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)

12/21/2017

Interval: 001h

	20_RH_015m	21_AbsHum_002m	22_AbsHum_015m	23_Mix Ratio_002m	24_Mix Ratio_015m	27_VaporPr_002m	28_VaporPr_015m	34_Precip_In	36_BarPres_In
Hour	PERCENT	G/M3	G/M3	COUNT	COUNT	KPa	KPa	INCHES	INHG
00:00	97.6	8.7	9.4	0.007235	0.007932	11.3	12.4	.00	29.01
01:00	97.7	8.5	9.1	0.007113	0.007651	11.1	11.9	.00	29.01
02:00	97.9	8.0	8.7	0.006678	0.007303	10.4	11.4	.00	29.02
03:00	98.1	7.9	8.5	0.006513	0.007088	10.2	11.1	.00	29.03
04:00	98.1	8.1	8.4	0.006679	0.007007	10.5	11.0	.00	29.04
05:00	98.0	8.3	8.5	0.006915	0.007082	10.8	11.1	.00	29.06
06:00	98.0	8.5	8.7	0.007067	0.007279	11.1	11.4	.00	29.09
07:00	98.0	8.5	8.6	0.007093	0.007151	11.1	11.2	.00	29.11
08:00	98.1	8.7	8.7	0.00723	0.007197	11.3	11.3	.00	29.13
09:00	98.1	8.9	8.7	0.007364	0.00727	11.6	11.4	.01	29.15
10:00	98.1	9.0	9.0	0.007507	0.007471	11.8	11.7	.00	29.17
11:00	98.3	9.4	9.6	0.007864	0.008031	12.3	12.6	.00	29.15
12:00	97.8	9.7	10.2	0.008144	0.008576	12.7	13.4	.00	29.12
13:00	97.8	9.8	10.6	0.008236	0.008907	12.9	13.9	.00	29.12
14:00	97.8	9.8	10.7	0.008244	0.00904	12.9	14.1	.00	29.12
15:00	97.7	9.8	10.8	0.008267	0.009155	12.9	14.3	.00	29.13
16:00	97.4	9.8	10.9	0.008287	0.00919	13.0	14.4	.00	29.13
17:00	97.1	10.0	10.6	0.008421	0.008965	13.2	14.0	.00	29.14
18:00	97.5	10.0	10.4	0.008395	0.008797	13.1	13.8	.00	29.15
19:00	95.1	10.0	10.5	0.008364	0.008812	13.1	13.8	.00	29.15
20:00	91.7	9.5	10.0	0.008009	0.008379	12.6	13.1	.00	29.16
21:00	77.1	8.6	8.6	0.007269	0.007267	11.4	11.4	.00	29.16
22:00	73.4	8.2	8.1	0.006857	0.006791	10.8	10.7	.00	29.16
23:00	76.3	8.2	8.2	0.006875	0.006836	10.8	10.7	.00	29.17
Avg	94.7	9.0	9.4	0.007526	0.007882	11.8	12.3	.00	29.11
Max	98.3	10.0	10.9	0.008421	0.00919	13.2	14.4	.01	29.17
Hr. of Max	11	19	16	17	16	17	16	09	23
Min	73.4	7.9	8.1	0.006513	0.006791	10.2	10.7	.00	29.01
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)

12/21/2017

Interval: 001h

	37_BarPres_Mb	38_SolarRad_Wm2	41_WDir_035m	42_WDir_060m	46_SWDir_015m	47_SWDir_060m	51_Sigma_035m	52_Sigma_060m	53_SSigma_015m
Hour	KPa	W/M2	DEG	DEG	DEG	DEG	DEG	DEG	DEG
00:00	982.4	-1.3	67.4	75.7	4.3	66.7	38.5	12.4	28.0
01:00	982.5	-1.3	48.9	62.9	314.7	53.8	14.5	8.7	64.0
02:00	982.9	-1.3	110.7	96.9	273.9	88.6	36.4	15.3	51.6
03:00	983.3	-1.3	60.9	48.1	203.5	43.7	28.4	19.8	62.8
04:00	983.6	-1.3	223.6	243.2	244.6	221.2	34.4	49.9	47.4
05:00	984.2	-1.3	33.5	349.1	186.0	338.8	17.7	14.0	36.6
06:00	985.0	-1.2	99.3	80.1	281.9	72.6	31.2	27.0	45.1
07:00	985.9	.4	246.0	207.3	242.9	201.0	39.6	17.0	21.0
08:00	986.6	18.0	241.1	215.8	245.4	209.2	11.3	12.0	34.1
09:00	987.3	63.6	334.2	330.6	320.4	320.2	21.7	17.0	28.8
10:00	987.8	111.7	9.9	9.0	347.1	360.0	21.6	30.1	38.3
11:00	987.2	220.2	74.6	80.5	81.0	70.1	34.5	30.5	38.3
12:00	986.3	226.4	235.7	240.0	228.5	233.5	19.7	18.0	24.6
13:00	986.1	205.2	276.0	276.7	264.4	270.0	23.2	18.4	22.4
14:00	986.0	160.5	268.5	263.4	259.1	258.5	24.5	23.8	27.6
15:00	986.5	116.6	278.6	281.4	268.1	274.9	23.8	17.1	27.4
16:00	986.6	41.3	276.4	276.4	260.8	270.2	18.5	17.1	18.5
17:00	986.9	1.9	252.6	270.3	230.0	264.2	15.3	12.4	15.3
18:00	987.0	-1.2	226.3	235.7	254.4	229.4	10.6	6.1	15.2
19:00	987.0	-1.3	223.0	215.2	234.4	210.3	8.7	6.7	10.9
20:00	987.4	-1.2	230.3	228.6	223.2	223.9	10.5	7.7	14.2
21:00	987.5	-1.3	219.9	216.1	218.1	211.3	14.6	12.3	18.2
22:00	987.7	-1.3	230.6	225.2	227.2	220.4	13.1	10.0	17.7
23:00	987.8	-1.2	238.0	232.9	234.6	228.2	10.4	7.1	15.3
Avg	985.9	47.9	253.0	253.0	253.0	247.0	21.8	17.1	30.1
Max	987.8	226.4	334.2	349.1	347.1	360.0	39.6	49.9	64.0
Hr. of Max	23	12	09	05	10	10	07	04	01
Min	982.4	-1.3	9.9	9.0	4.3	43.7	8.7	6.1	10.9
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)

12/21/2017

Interval: 001h

	54_SSigma_060m	56_RWSpd_035m	57_RWSpd_060m	59_WSpd_035m	60_WSpd_060m	66_HSSpd_015m	67_HSSpd_060m	70_WElev_015m	71_WElev_060m
Hour	DEG	MPH	MPH	MPH	MPH	MPH	MPH	DEG	DEG
00:00	12.0	1.9	3.6	2.0	3.7	1.6	4.0	-.7	1.5
01:00	9.4	1.2	2.5	1.3	2.6	1.1	2.8	1.2	.4
02:00	15.6	.0	1.4	.1	1.5	.8	1.8	.1	-.5
03:00	27.9	.5	1.6	.6	1.6	.7	1.9	1.7	.2
04:00	51.6	1.5	.6	1.6	.7	1.6	1.0	1.5	.1
05:00	14.5	.5	1.3	.7	1.5	.6	1.7	1.8	2.9
06:00	36.7	.2	.2	.6	.8	.9	1.1	.7	-.4
07:00	19.8	2.0	2.0	2.0	2.1	1.9	2.3	.8	-1.1
08:00	13.4	1.8	2.4	1.9	2.5	1.8	2.7	.8	-.8
09:00	16.6	1.8	2.0	2.3	2.6	1.8	2.8	-3.9	-1.2
10:00	28.2	2.0	2.0	2.1	2.2	1.7	2.4	-2.6	-3.5
11:00	29.5	.9	.9	1.4	1.5	1.8	1.9	2.0	-6.9
12:00	18.9	2.3	2.8	2.5	3.0	2.6	3.4	3.1	-3.3
13:00	17.6	3.9	4.7	4.2	5.0	4.0	5.3	-1.9	-1.2
14:00	21.2	3.4	3.8	3.8	4.1	3.3	4.4	1.1	4.2
15:00	17.5	3.6	4.3	3.8	4.4	3.3	4.6	-1.5	1.5
16:00	17.3	2.4	3.0	2.6	3.2	2.2	3.3	.5	.7
17:00	13.7	1.3	1.7	1.4	1.8	1.3	1.9	2.6	1.3
18:00	6.5	1.2	2.1	1.2	2.1	1.0	2.3	.5	-.2
19:00	7.0	4.6	6.6	4.6	6.6	2.9	7.0	-.5	-1.1
20:00	7.5	5.5	7.7	5.6	7.8	3.7	8.2	-.4	-.2
21:00	12.2	9.0	11.3	9.4	11.6	7.2	12.2	.4	-1.0
22:00	9.7	8.0	10.1	8.2	10.3	6.2	10.9	.1	-.9
23:00	6.8	7.3	9.6	7.4	9.7	5.0	10.2	-.1	-.4
Avg	18.0	.0	.0	3.0	3.9	2.5	4.2	.3	-.4
Max	51.6	9.0	11.3	9.4	11.6	7.2	12.2	3.1	4.2
Hr. of Max	04	21	21	21	21	21	21	12	14
Min	6.5	.0	.2	.1	.7	.6	1.0	-3.9	-6.9
Count	24	24	24	24	24	24	24	24	24
Total									

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Daily Summary Report

Site: Tower "D" (1000 Area)

12/21/2017

Interval: 001h

	72_VSSpd_015m	73_VSSpd_060m	80_PkWsH_035m	81_PkWsH_060m	82_SPkWsH_015m	84_SigPhi_015m	85_SigPhi_060m	86_SonicTemp_015m	87_SonicTemp_060m
Hour	MPH	MPH	MPH	MPH	MPH	DEG	DEG	DEGC	DEGC
00:00	-.06	.07	8.7	11.2	3.3	11.4	6.7	11.1	11.4
01:00	-.01	.00	3.9	5.5	4.2	8.2	5.8	10.5	11.0
02:00	.00	-.01	2.1	7.3	1.8	7.5	8.3	9.7	10.5
03:00	.02	.00	2.1	3.4	3.1	6.4	7.8	9.3	10.2
04:00	.03	.01	4.4	2.7	3.8	6.5	8.6	9.1	9.9
05:00	.02	.09	2.1	3.4	1.7	7.4	5.7	9.4	9.9
06:00	.01	.00	4.6	3.7	4.4	6.6	7.3	9.8	9.9
07:00	.00	-.04	9.2	6.9	7.5	7.8	6.3	9.5	9.7
08:00	.00	-.05	4.4	4.6	4.1	7.9	5.6	9.6	9.5
09:00	-.19	-.06	5.5	6.0	4.4	16.4	6.0	9.9	9.4
10:00	-.12	-.11	6.4	6.2	4.4	21.2	13.4	10.4	9.8
11:00	.06	-.21	4.1	4.1	4.2	24.9	23.8	11.4	10.8
12:00	.05	-.16	8.9	8.7	8.4	21.7	19.8	12.4	11.8
13:00	-.27	-.23	8.7	9.6	8.8	16.8	14.4	13.0	12.4
14:00	-.08	.21	8.7	10.8	9.1	19.2	16.3	13.2	12.6
15:00	-.23	-.06	9.2	11.0	8.1	20.3	16.1	13.5	12.9
16:00	-.05	-.02	7.1	10.1	5.0	15.6	12.1	13.6	13.0
17:00	.04	.02	3.4	4.1	2.9	8.9	9.3	13.3	12.9
18:00	.01	.00	3.2	5.5	1.7	5.3	4.3	12.9	13.0
19:00	-.04	-.16	7.6	10.8	5.6	6.7	4.8	13.3	13.4
20:00	-.07	-.07	11.4	14.9	11.0	10.1	6.0	13.0	12.9
21:00	-.13	-.33	21.1	22.7	20.4	13.4	8.5	13.4	13.2
22:00	-.14	-.27	16.9	25.0	15.4	13.5	7.2	13.1	12.8
23:00	-.11	-.12	14.7	25.0	11.5	12.0	5.4	12.6	12.4
Avg	-.05	-.06	7.4	9.3	6.5	12.3	9.6	11.5	11.5
Max	.06	.21	21.1	25.0	20.4	24.9	23.8	13.6	13.4
Hr. of Max	11	14	21	23	21	11	11	16	19
Min	-.27	-.33	2.1	2.7	1.7	5.3	4.3	9.1	9.4
Count	24	24	24	24	24	24	24	24	24
Total									