Date Printed: 07/27/2017 01:20

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

Daily Summary Report

Site: Tower "D" (1000 Area)

7/26/2017

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	21.1	22.7	23.3	24.2	70.0	72.9	73.9	75.6	1.58
01:00	20.6	22.1	22.6	23.7	69.1	71.8	72.7	74.6	1.51
02:00	20.0	21.1	21.8	22.6	68.0	70.1	71.3	72.7	1.16
03:00	19.6	20.8	21.2	21.7	67.3	69.4	70.2	71.0	1.18
04:00	19.3	20.2	20.7	21.2	66.8	68.4	69.2	70.2	.88
05:00	19.1	20.1	20.4	21.0	66.4	68.2	68.7	69.7	.99
06:00	19.1	19.7	20.0	20.8	66.3	67.4	68.1	69.4	.59
07:00	19.9	20.3	20.4	21.0	67.8	68.6	68.8	69.8	.45
08:00	22.5	22.3	22.1	22.1	72.6	72.1	71.8	71.8	-.23
09:00	24.8	24.4	24.1	24.0	76.7	75.8	75.4	75.1	-.48
10:00	26.9	26.2	25.9	25.7	80.4	79.1	78.7	78.3	-.68
11:00	29.3	28.4	28.1	27.8	84.7	83.1	82.6	82.1	-.92
12:00	31.0	29.8	29.6	29.4	87.7	85.6	85.2	84.9	-1.17
13:00	31.7	30.6	30.3	30.1	89.1	87.0	86.6	86.3	-1.14
14:00	32.1	31.0	30.7	30.7	89.8	87.8	87.3	87.2	-1.07
15:00	32.6	31.5	31.2	31.0	90.7	88.8	88.1	87.9	-1.09
16:00	33.1	32.1	31.8	31.7	91.6	89.7	89.2	89.0	-1.03
17:00	32.8	32.1	31.8	31.7	91.1	89.8	89.3	89.1	-.71
18:00	32.2	31.6	31.3	31.3	89.9	88.8	88.3	88.2	-.60
19:00	30.4	30.4	30.3	30.3	86.7	86.7	86.6	86.6	-.01
20:00	27.0	28.3	29.1	29.6	80.6	82.9	84.4	85.2	1.30
21:00	24.9	26.9	27.5	28.5	76.9	80.5	81.6	83.3	1.98
22:00	23.9	25.5	26.4	27.3	75.0	78.0	79.5	81.1	1.65
23:00	23.2	24.3	25.2	25.9	73.8	75.8	77.4	78.6	1.10
Avg	25.7	25.9	26.1	26.4	78.3	78.7	79.0	79.5	.22
Max	33.1	32.1	31.8	31.7	91.6	89.8	89.3	89.1	1.98
Hr. of Max	16	17	17	17	16	17	17	17	21
Min	19.1	19.7	20.0	20.8	66.3	67.4	68.1	69.4	-1.17
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)

7/26/2017

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	2.17	3.12	.58	1.54	19.2	20.0	20.9	28.0	91.0
01:00	2.02	3.04	.51	1.54	19.1	20.1	20.7	27.7	93.5
02:00	1.84	2.61	.68	1.45	18.8	20.0	20.4	27.5	94.9
03:00	1.63	2.04	.45	.86	18.5	20.1	20.3	27.2	95.4
04:00	1.37	1.90	.49	1.02	18.3	19.8	19.9	27.0	95.7
05:00	1.27	1.82	.28	.83	18.1	19.7	19.9	26.7	96.0
06:00	.98	1.69	.39	1.11	18.1	19.3	19.4	26.5	96.2
07:00	.58	1.14	.13	.69	18.7	19.7	19.9	26.2	95.4
08:00	-.40	-.43	-.17	-.20	19.2	19.2	20.2	26.0	83.5
09:00	-.73	-.87	-.25	-.40	19.3	19.3	21.0	25.9	73.4
10:00	-.96	-1.15	-.27	-.47	20.0	19.9	22.0	25.8	68.0
11:00	-1.19	-1.46	-.27	-.54	19.9	19.3	22.3	26.0	58.7
12:00	-1.39	-1.59	-.22	-.42	19.6	19.0	22.6	26.4	52.5
13:00	-1.37	-1.56	-.24	-.42	19.2	18.6	22.6	27.0	49.0
14:00	-1.36	-1.42	-.29	-.35	19.9	19.7	23.4	27.7	50.1
15:00	-1.44	-1.59	-.35	-.50	20.2	20.3	24.0	28.2	49.7
16:00	-1.31	-1.43	-.29	-.40	19.8	19.5	23.7	28.4	47.3
17:00	-.97	-1.08	-.26	-.36	20.0	19.6	23.8	28.7	48.5
18:00	-.90	-.92	-.31	-.33	20.7	20.4	24.1	28.9	52.7
19:00	-.07	-.05	-.06	-.05	22.2	21.8	24.7	29.0	63.9
20:00	2.11	2.57	.82	1.27	22.0	21.2	23.6	29.0	76.4
21:00	2.60	3.58	.61	1.59	21.1	21.2	23.1	29.0	81.3
22:00	2.48	3.39	.83	1.74	20.9	21.3	22.7	28.8	85.8
23:00	1.95	2.67	.85	1.57	21.0	21.6	22.5	28.6	89.5
Avg	.37	.67	.15	.45	19.7	20.0	22.0	27.5	74.5
Max	2.60	3.58	.85	1.74	22.2	21.8	24.7	29.0	96.2
Hr. of Max	21	21	23	22	19	19	19	21	06
Min	-1.44	-1.59	-.35	-.54	18.1	18.6	19.4	25.8	47.3
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)

7/26/2017

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	86.9	16.4	17.2	0.014377	0.015119	22.3	23.5	.00	29.20
01:00	90.4	16.4	17.3	0.014307	0.015176	22.2	23.5	.00	29.19
02:00	95.4	16.1	17.2	0.013976	0.015098	21.7	23.4	.00	29.18
03:00	97.9	15.8	17.4	0.01375	0.015178	21.4	23.5	.00	29.18
04:00	99.9	15.6	17.1	0.013542	0.014922	21.1	23.2	.00	29.18
05:00	100.0	15.5	17.0	0.013411	0.014856	20.9	23.1	.00	29.19
06:00	100.1	15.4	16.6	0.013374	0.014428	20.8	22.4	.00	29.21
07:00	98.4	16.0	17.0	0.013941	0.014779	21.7	23.0	.00	29.22
08:00	84.8	16.3	16.4	0.014342	0.014357	22.3	22.3	.00	29.22
09:00	75.4	16.4	16.4	0.014506	0.014491	22.6	22.5	.00	29.22
10:00	70.2	17.0	16.9	0.015163	0.015027	23.5	23.3	.00	29.22
11:00	59.5	16.8	16.2	0.015071	0.014491	23.4	22.5	.00	29.22
12:00	54.0	16.4	15.9	0.014843	0.014274	23.1	22.2	.00	29.21
13:00	50.4	16.0	15.5	0.014473	0.013948	22.5	21.7	.00	29.19
14:00	52.5	16.7	16.5	0.015142	0.014911	23.5	23.1	.00	29.17
15:00	53.0	17.0	17.1	0.015489	0.015521	24.0	24.0	.00	29.16
16:00	48.9	16.6	16.2	0.015144	0.014768	23.5	22.9	.00	29.14
17:00	49.3	16.7	16.4	0.015275	0.014929	23.6	23.1	.00	29.12
18:00	53.4	17.6	17.2	0.016022	0.015669	24.8	24.2	.00	29.11
19:00	62.3	19.3	18.8	0.017519	0.017089	27.0	26.4	.00	29.11
20:00	67.5	19.2	18.2	0.017216	0.016402	26.6	25.3	.00	29.13
21:00	72.9	18.2	18.3	0.016237	0.016363	25.1	25.3	.00	29.13
22:00	79.7	18.1	18.5	0.016069	0.016465	24.8	25.4	.00	29.13
23:00	87.0	18.2	18.9	0.016131	0.016764	24.9	25.9	.00	29.13
Avg	74.6	16.8	17.1	0.014972	0.015209	23.2	23.6	.00	29.17
Max	100.1	19.3	18.9	0.017519	0.017089	27.0	26.4	.00	29.22
Hr. of Max	06	19	23	19	19	19	19	23	11
Min	48.9	15.4	15.5	0.013374	0.013948	20.8	21.7	.00	29.11
Count	24	24	24	24	24	24	24	24	24
Total									

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Daily Summary Report

Site: Tower "D" (1000 Area)

7/26/2017

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	988.8	-1.3	46.4	67.8	6.6	59.3	10.1	9.8	51.0
01:00	988.7	-1.3	68.8	52.0	17.6	42.0	14.7	14.9	47.3
02:00	988.2	-1.3	59.5	52.2	334.8	42.8	17.6	17.8	31.6
03:00	988.1	-1.3	50.0	57.1	344.2	47.7	30.9	11.1	53.1
04:00	988.2	-1.3	24.5	62.8	337.1	49.7	45.4	21.7	35.7
05:00	988.5	-1.3	66.5	58.4	288.1	53.2	34.8	32.4	36.1
06:00	989.4	2.6	355.2	358.6	276.3	348.3	50.3	50.0	37.1
07:00	989.5	73.2	61.3	35.9	323.7	25.2	30.6	18.1	47.9
08:00	989.6	285.4	74.2	51.6	81.5	42.3	44.6	37.6	49.5
09:00	989.5	470.4	69.2	64.2	71.7	56.4	31.5	28.1	37.2
10:00	989.4	675.0	79.9	68.0	89.3	58.5	38.6	41.5	49.8
11:00	989.5	869.6	168.8	155.4	167.9	151.3	40.6	47.6	39.9
12:00	989.1	968.4	165.4	167.7	157.5	159.8	47.3	44.2	51.0
13:00	988.6	1022.0	163.1	171.9	157.8	166.0	70.9	68.1	70.8
14:00	988.0	746.9	293.3	287.9	275.8	279.9	39.6	36.6	48.0
15:00	987.4	897.8	350.7	343.2	329.6	332.9	37.2	36.2	52.4
16:00	986.8	690.1	239.1	240.4	225.5	235.3	38.1	24.6	38.8
17:00	986.3	450.1	252.6	252.2	243.9	247.1	38.5	32.7	48.9
18:00	985.8	331.6	299.4	296.2	291.9	288.0	16.7	15.0	22.1
19:00	986.0	183.1	253.3	255.0	251.5	249.8	15.0	14.1	19.3
20:00	986.3	15.4	251.6	256.7	268.0	252.1	14.0	7.8	19.7
21:00	986.5	-1.2	149.2	298.7	318.8	294.7	26.4	43.5	41.6
22:00	986.6	-1.2	108.3	126.3	270.9	116.9	65.4	23.8	38.7
23:00	986.6	-1.3	243.7	241.8	259.2	237.7	14.5	9.8	24.8
Avg	988.0	319.6	66.0	33.0	296.0	17.0	33.9	28.6	41.3
Max	989.6	1022.0	355.2	358.6	344.2	348.3	70.9	68.1	70.8
Hr. of Max	08	13	06	06	03	06	13	13	13
Min	985.8	-1.3	24.5	35.9	6.6	25.2	10.1	7.8	19.3
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)

7/26/2017

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	10.8	1.4	2.2	1.5	2.3	.7	2.5	1.8	.8
01:00	16.4	1.8	2.4	2.0	2.6	1.2	2.8	1.3	.3
02:00	18.5	1.6	2.2	1.7	2.4	1.4	2.6	1.6	.5
03:00	13.6	1.7	2.5	1.9	2.6	1.5	2.8	1.1	-.2
04:00	25.9	.8	1.5	1.7	2.0	1.9	2.2	2.1	.3
05:00	29.7	.5	1.6	1.0	1.7	1.4	1.9	.8	.5
06:00	42.2	.9	1.6	1.3	1.7	1.7	1.9	-1.2	-.4
07:00	19.3	1.2	2.1	1.4	2.3	.9	2.5	1.4	1.3
08:00	36.4	1.9	2.6	2.3	2.8	2.4	3.1	1.7	2.2
09:00	28.6	3.1	3.4	3.7	3.8	3.4	4.2	.2	2.3
10:00	42.3	2.6	2.9	3.0	3.3	3.2	3.9	.4	2.3
11:00	47.8	1.5	1.3	2.3	2.2	2.9	2.8	5.8	-.5
12:00	46.3	1.6	1.6	2.8	2.7	3.3	3.4	-.3	.7
13:00	69.3	1.4	1.6	2.9	2.8	3.2	3.4	-.8	-8.7
14:00	35.4	2.5	2.7	3.2	3.5	3.1	4.1	-2.1	-2.7
15:00	36.9	3.2	3.4	3.7	3.8	3.4	4.3	-.4	.6
16:00	24.3	3.3	3.9	4.1	4.4	3.9	4.9	.4	2.3
17:00	31.5	2.2	2.7	3.0	3.4	3.1	3.7	-4.2	-.9
18:00	14.4	3.8	4.7	4.0	4.8	3.0	4.9	.1	-6.8
19:00	13.6	3.1	3.9	3.5	4.4	2.3	4.5	.6	.3
20:00	7.9	2.4	4.0	2.5	4.1	1.4	4.3	-1.8	1.2
21:00	47.8	.2	1.2	.5	1.9	1.0	2.0	.3	.8
22:00	31.5	.1	.4	.9	.8	1.5	1.2	.7	.0
23:00	10.0	1.5	2.7	1.6	2.8	1.6	3.0	1.4	2.5
Avg	29.2	.0	.0	2.4	2.9	2.2	3.2	.5	-.1
Max	69.3	3.8	4.7	4.1	4.8	3.9	4.9	5.8	2.5
Hr. of Max	13	18	18	16	18	16	18	11	23
Min	7.9	.1	.4	.5	.8	.7	1.2	-4.2	-8.7
Count	24	24	24	24	24	24	24	24	24
Total									

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Daily Summary Report

Site: Tower "D" (1000 Area)

7/26/2017

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	.02	.05	2.7	5.3	2.7	7.3	4.0	24.0	25.5
01:00	.03	.02	3.7	5.0	3.6	7.2	4.1	23.4	24.9
02:00	.02	.05	4.4	6.0	3.9	7.6	5.2	22.4	23.8
03:00	-.01	.01	8.9	8.2	4.1	8.8	7.9	22.1	22.8
04:00	.03	.03	3.9	5.5	4.5	10.5	7.2	21.5	22.4
05:00	.03	.03	3.4	5.5	2.7	7.5	6.3	21.5	22.1
06:00	-.06	-.01	4.1	4.6	3.6	8.9	8.1	21.0	21.9
07:00	.03	.06	3.4	8.0	2.7	11.3	5.4	21.6	22.0
08:00	.06	.12	6.9	7.3	7.1	19.0	15.8	23.7	23.2
09:00	-.07	.12	11.9	12.4	7.5	21.0	20.5	25.8	25.1
10:00	-.02	.08	11.2	12.6	9.9	25.8	28.8	27.7	26.9
11:00	.34	-.06	7.3	6.6	6.4	28.4	32.3	29.6	28.8
12:00	.06	.09	8.2	9.6	9.9	24.8	32.1	30.9	30.2
13:00	-.03	-.55	8.7	10.5	7.8	25.7	31.6	31.7	30.9
14:00	-.10	-.26	8.2	8.0	8.0	24.8	25.3	32.3	31.5
15:00	-.30	-.15	8.5	9.2	8.6	27.0	24.7	32.9	32.0
16:00	-.07	.15	8.9	9.4	10.0	21.0	20.8	33.1	32.3
17:00	-.29	-.18	9.8	11.4	7.4	20.2	20.9	33.3	32.5
18:00	-.16	-.54	11.9	11.2	10.6	20.5	13.8	33.0	32.2
19:00	-.04	-.01	6.9	12.8	6.6	13.9	7.2	31.9	31.4
20:00	-.05	.07	5.0	6.6	2.5	7.1	4.4	29.7	30.6
21:00	.00	.02	2.3	9.4	2.4	8.3	9.0	28.3	29.7
22:00	.02	.02	4.1	3.7	5.1	6.8	9.8	27.0	28.6
23:00	.03	.13	6.9	5.5	3.3	7.2	3.1	25.9	27.3
Avg	-.02	-.03	6.7	8.1	5.9	15.4	14.5	27.3	27.4
Max	.34	.15	11.9	12.8	10.6	28.4	32.3	33.3	32.5
Hr. of Max	11	16	18	19	18	11	11	17	17
Min	-.30	-.55	2.3	3.7	2.4	6.8	3.1	21.0	21.9
Count	24	24	24	24	24	24	24	24	24
Total									