Date Printed: 05/02/2016 01:20

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

Daily Summary Report

Site: Tower "D" (1000 Area)

5/1/2016

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	17.3	17.5	17.4	17.4	.16	.11	.13	-.05	-.03
01:00	17.1	17.3	17.2	17.3	.21	.16	.20	-.05	-.01
02:00	17.0	17.3	17.2	17.2	.27	.19	.19	-.08	-.08
03:00	16.8	17.2	17.1	17.2	.34	.31	.37	-.03	.03
04:00	16.0	16.5	16.6	16.8	.46	.58	.78	.12	.32
05:00	16.0	16.3	16.4	16.6	.36	.43	.58	.07	.22
06:00	16.2	16.3	16.3	16.6	.15	.16	.36	.00	.21
07:00	16.7	16.8	17.0	17.4	.07	.27	.74	.20	.67
08:00	18.0	17.9	17.8	17.9	-.11	-.19	-.06	-.07	.05
09:00	19.1	18.8	18.6	18.6	-.26	-.48	-.52	-.22	-.26
10:00	20.5	20.1	19.8	19.7	-.44	-.71	-.77	-.27	-.34
11:00	22.7	22.1	21.8	21.7	-.66	-.93	-1.02	-.27	-.36
12:00	24.2	23.5	23.2	23.1	-.66	-.95	-1.06	-.29	-.41
13:00	25.1	24.4	24.1	24.0	-.70	-1.00	-1.12	-.31	-.42
14:00	26.1	25.5	25.2	25.1	-.65	-.95	-1.03	-.30	-.38
15:00	26.6	26.0	25.7	25.6	-.57	-.90	-1.03	-.32	-.46
16:00	26.4	26.1	25.8	25.8	-.32	-.61	-.69	-.29	-.37
17:00	25.7	25.5	25.3	25.3	-.13	-.36	-.40	-.22	-.26
18:00	25.0	25.0	24.8	24.8	-.03	-.22	-.23	-.19	-.20
19:00	24.3	24.4	24.3	24.3	.12	.00	.04	-.12	-.07
20:00	23.3	23.5	23.5	23.6	.20	.16	.24	-.04	.04
21:00	21.1	21.7	21.6	21.6	.54	.43	.48	-.11	-.06
22:00	19.1	20.4	20.8	21.2	1.36	1.79	2.14	.43	.78
23:00	18.3	19.9	20.2	20.7	1.57	1.92	2.42	.35	.85
Avg	20.8	20.8	20.7	20.8	.05	-.03	.03	-.09	-.02
Max	26.6	26.1	25.8	25.8	1.57	1.92	2.42	.43	.85
Hr. of Max	15	16	16	16	23	23	23	22	23
Min	16.0	16.3	16.3	16.6	-.70	-1.00	-1.12	-.32	-.46
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)

5/1/2016

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	17.2	17.2	17.2	19.3	101.4	100.4	14.7	14.7	0.012699
01:00	17.0	17.0	17.0	19.2	101.4	100.4	14.5	14.5	0.012492
02:00	16.9	17.0	17.0	19.1	101.4	100.4	14.4	14.5	0.012472
03:00	16.7	16.9	16.8	19.0	101.4	100.4	14.3	14.4	0.012311
04:00	16.0	16.3	16.0	19.0	101.4	100.5	13.6	13.9	0.011706
05:00	15.9	16.1	15.9	18.9	101.4	100.6	13.6	13.7	0.011664
06:00	16.1	16.1	16.1	18.8	101.5	100.6	13.8	13.8	0.011829
07:00	16.6	16.6	16.7	18.7	101.6	100.6	14.2	14.1	0.012223
08:00	17.9	17.6	17.9	18.6	101.6	100.6	15.3	15.0	0.013242
09:00	18.9	18.5	18.9	18.6	100.9	100.3	16.2	15.9	0.014097
10:00	19.0	18.6	19.5	18.7	93.5	93.5	16.3	15.9	0.01427
11:00	18.8	17.8	20.1	18.9	80.6	78.6	16.0	15.0	0.014103
12:00	18.5	17.4	20.4	19.4	72.6	70.4	15.6	14.6	0.013852
13:00	18.5	17.2	20.7	20.0	68.3	65.8	15.5	14.4	0.013802
14:00	17.9	16.7	20.6	20.6	62.1	59.9	15.0	13.9	0.013329
15:00	18.0	16.9	20.9	21.1	60.9	58.4	15.1	14.0	0.013461
16:00	17.8	16.8	20.7	21.5	60.7	57.9	14.9	14.0	0.013295
17:00	18.3	17.4	20.7	21.7	65.3	62.4	15.3	14.5	0.013651
18:00	18.7	18.0	20.8	21.9	69.5	66.6	15.7	15.1	0.014007
19:00	18.6	18.0	20.5	21.9	72.4	69.3	15.7	15.2	0.013939
20:00	18.6	18.2	20.2	21.9	76.8	74.0	15.8	15.4	0.013937
21:00	18.1	17.8	19.1	21.8	84.8	80.6	15.3	15.1	0.013434
22:00	18.0	17.8	18.3	21.6	95.4	87.0	15.3	15.1	0.013317
23:00	17.7	18.0	17.9	21.4	98.6	91.1	15.1	15.3	0.013125
Avg	17.7	17.3	18.7	20.1	86.5	84.2	15.1	14.7	0.013177
Max	19.0	18.6	20.9	21.9	101.6	100.6	16.3	15.9	0.01427
Hr. of Max	10	10	15	20	08	08	10	10	10
Min	15.9	16.1	15.9	18.6	60.7	57.9	13.6	13.7	0.011664
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)

5/1/2016

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	0.012695	19.7	19.7	.00	29.05	983.9	-1.9	.00	51.2
01:00	0.012531	19.4	19.4	.00	29.06	984.0	-2.7	.00	28.1
02:00	0.012566	19.3	19.5	.01	29.04	983.3	-2.9	.00	74.5
03:00	0.012458	19.1	19.3	.05	29.03	983.2	-2.7	.00	50.3
04:00	0.011953	18.2	18.5	.00	29.04	983.3	-2.8	.00	242.5
05:00	0.011837	18.1	18.4	.00	29.04	983.6	-2.5	.00	204.7
06:00	0.01184	18.4	18.4	.00	29.06	984.0	-1.0	.00	228.5
07:00	0.012169	19.0	18.9	.00	29.07	984.6	38.4	.06	217.7
08:00	0.013015	20.5	20.2	.00	29.09	985.1	155.8	.22	219.4
09:00	0.01378	21.8	21.4	.00	29.10	985.5	192.2	.28	205.5
10:00	0.013881	22.1	21.5	.00	29.10	985.4	468.0	.67	210.6
11:00	0.013205	21.8	20.5	.00	29.09	985.0	730.3	1.05	202.4
12:00	0.012918	21.5	20.0	.00	29.08	984.7	695.2	1.00	209.4
13:00	0.012742	21.4	19.8	.00	29.07	984.4	708.0	1.01	219.4
14:00	0.012359	20.6	19.2	.00	29.06	984.2	695.6	1.00	224.7
15:00	0.012477	20.8	19.3	.00	29.05	983.8	712.7	1.02	212.4
16:00	0.01244	20.6	19.3	.00	29.03	983.0	456.5	.65	212.7
17:00	0.012938	21.1	20.0	.00	29.02	982.8	282.6	.41	213.9
18:00	0.013409	21.7	20.7	.00	29.03	983.1	180.3	.26	214.5
19:00	0.013444	21.6	20.8	.00	29.04	983.5	81.0	.12	218.9
20:00	0.013604	21.6	21.1	.00	29.06	984.1	9.3	.01	208.7
21:00	0.013219	20.8	20.5	.00	29.06	984.1	-2.9	.00	188.0
22:00	0.013205	20.6	20.5	.00	29.08	984.7	-2.4	.00	93.1
23:00	0.013367	20.3	20.7	.00	29.07	984.6	-2.1	.00	260.6
Avg	0.012836	20.4	19.9	.00	29.06	984.1	224.3	.32	208.0
Max	0.013881	22.1	21.5	.05	29.10	985.5	730.3	1.05	260.6
Hr. of Max	10	10	10	03	10	09	11	11	23
Min	0.011837	18.1	18.4	.00	29.02	982.8	-2.9	.00	28.1
Count	24	24	24	24	24	24	24	24	24
Total									

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Daily Summary Report

Site: Tower "D" (1000 Area)

5/1/2016

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	46.5	51.7	46.0	37.3	20.1	11.4	7.9	2.0	4.3
01:00	20.4	25.6	15.6	9.7	45.9	25.8	21.1	1.4	3.5
02:00	68.2	67.3	68.6	52.2	22.6	23.9	17.2	1.7	2.5
03:00	51.9	71.4	13.3	52.4	65.6	57.2	50.1	.4	1.0
04:00	249.6	226.9	252.3	223.2	24.1	33.9	26.7	1.9	2.7
05:00	238.9	205.3	237.8	235.1	54.1	45.1	46.7	1.0	1.4
06:00	248.7	212.6	252.1	210.5	50.3	16.0	14.3	.9	2.0
07:00	242.1	226.0	237.3	219.8	21.6	13.6	7.6	1.3	2.2
08:00	233.2	230.2	230.2	223.0	18.5	9.2	8.1	2.5	3.9
09:00	224.4	220.0	222.7	214.4	32.3	23.0	15.5	1.9	2.8
10:00	218.7	214.4	219.9	207.7	27.5	23.0	19.1	2.8	3.8
11:00	216.6	214.0	210.7	207.2	35.8	27.0	22.8	3.6	4.5
12:00	218.6	217.9	215.5	209.6	27.5	26.1	20.5	4.9	6.4
13:00	230.7	224.5	227.1	217.1	33.3	22.3	16.1	4.4	6.3
14:00	228.6	224.7	231.1	216.8	24.3	17.5	12.8	7.1	9.8
15:00	220.5	217.9	219.3	210.2	27.1	22.2	16.5	6.2	9.0
16:00	219.3	215.6	218.8	207.9	23.4	19.3	14.1	6.6	9.2
17:00	221.0	218.4	220.9	210.5	23.1	17.7	11.7	5.5	8.1
18:00	222.8	220.3	221.5	212.4	21.8	16.0	11.1	4.9	7.2
19:00	225.0	221.6	227.5	213.9	25.5	16.7	11.7	4.1	6.7
20:00	217.8	213.1	215.9	205.4	22.5	15.7	11.6	4.5	7.6
21:00	201.8	188.3	218.9	182.3	54.3	23.1	16.1	1.4	3.1
22:00	194.3	186.1	284.6	181.2	77.8	32.8	14.0	.3	1.4
23:00	217.8	198.8	259.0	191.5	42.2	14.0	7.8	1.3	3.1
Avg	223.0	210.0	234.0	208.0	34.2	23.0	17.5	.0	.0
Max	249.6	230.2	284.6	235.1	77.8	57.2	50.1	7.1	9.8
Hr. of Max	04	08	22	05	22	03	03	14	14
Min	20.4	25.6	13.3	9.7	18.5	9.2	7.6	.3	1.0
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)

5/1/2016

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	5.9	2.1	4.4	6.0	2.2	6.2	-3.0	-1.6	-.21
01:00	4.9	2.3	4.2	5.9	2.5	6.1	-3.6	-.3	-.26
02:00	3.2	1.8	2.7	3.4	2.0	3.7	-3.4	-1.0	-.14
03:00	1.2	1.7	2.2	2.1	2.0	2.5	.3	1.7	.02
04:00	2.7	2.1	2.8	2.9	2.4	3.2	-.3	1.0	-.04
05:00	1.3	1.1	1.8	1.8	1.6	2.2	1.5	-.6	-.01
06:00	2.5	1.1	2.0	2.6	1.5	2.9	-.9	-1.5	-.04
07:00	4.1	1.4	2.3	4.1	1.8	4.4	-1.3	.0	-.05
08:00	5.2	2.7	4.0	5.3	3.0	5.6	-1.2	-.3	-.13
09:00	3.7	2.1	3.0	3.9	2.5	4.2	3.1	-2.3	.04
10:00	4.5	3.2	4.1	4.7	3.6	5.1	1.3	-.2	-.03
11:00	5.6	4.2	5.0	6.0	4.7	6.5	-.7	-1.1	-.13
12:00	7.8	5.5	7.1	8.3	6.2	8.9	2.9	.1	.03
13:00	7.9	5.1	6.8	8.2	5.7	8.8	1.5	-1.3	-.11
14:00	11.8	7.6	10.2	12.0	8.2	12.8	1.9	.6	-.15
15:00	11.2	6.9	9.6	11.7	7.9	12.4	2.2	.4	.03
16:00	11.4	7.1	9.6	11.7	7.6	12.5	1.1	-.1	-.07
17:00	10.6	5.9	8.4	10.8	6.5	11.4	.4	-.2	-.21
18:00	9.5	5.2	7.5	9.7	5.6	10.3	.7	-.3	-.11
19:00	9.1	4.4	7.0	9.3	5.0	9.9	.9	.4	-.09
20:00	10.5	4.9	7.9	10.7	5.5	11.4	.8	1.3	-.08
21:00	5.1	1.8	3.4	5.3	2.4	5.5	2.9	.6	.09
22:00	3.7	.6	1.6	3.8	1.1	4.0	.2	.0	.00
23:00	5.8	1.5	3.3	5.9	1.9	6.1	-.9	.3	-.05
Avg	.0	3.4	5.0	6.5	3.9	6.9	.3	-.2	-.07
Max	11.8	7.6	10.2	12.0	8.2	12.8	3.1	1.7	.09
Hr. of Max	14	14	14	14	14	14	09	03	21
Min	1.2	.6	1.6	1.8	1.1	2.2	-3.6	-2.3	-.26
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)

5/1/2016

Interval: 001h

	73_VSSpd_060m	79_PkWsH_015m	80_PkWsH_035m	81_PkWsH_060m	82_SPkWsH_015m	83_SPkWsH_060m	84_SigPhi_015m	85_SigPhi_060m	86_SonicTemp_015m
Hour	MPH	MPH	MPH	MPH	MPH	MPH	DEG	DEG	DEGC
00:00	-.21	9.6	11.4	9.8	6.9	10.3	17.5	5.7	18.7
01:00	-.10	10.8	12.4	13.1	10.3	13.7	19.0	7.6	18.5
02:00	-.08	5.3	6.2	10.5	5.8	6.9	16.2	7.9	18.5
03:00	.11	8.0	8.7	9.2	8.6	9.9	13.6	15.1	18.3
04:00	.09	4.4	5.3	7.1	4.8	7.4	6.6	5.8	17.6
05:00	-.01	4.1	11.9	12.4	4.1	7.4	13.0	10.2	17.4
06:00	-.06	3.2	4.4	6.4	3.5	5.3	8.0	4.9	17.4
07:00	.00	3.2	4.4	6.6	3.6	7.7	5.4	2.5	18.0
08:00	-.05	7.1	7.1	9.6	7.6	8.7	11.8	3.9	19.1
09:00	-.20	5.3	6.2	12.8	6.5	8.3	19.4	10.4	20.1
10:00	-.11	8.5	9.8	10.8	10.0	11.8	18.9	15.4	21.3
11:00	-.17	12.4	15.1	12.8	11.5	14.3	19.3	17.4	23.2
12:00	-.20	14.2	16.3	16.7	16.0	16.5	19.8	14.5	24.5
13:00	-.37	17.2	16.0	21.3	15.3	15.5	20.0	12.9	25.4
14:00	-.10	19.9	23.1	23.8	22.5	24.8	18.7	11.7	26.3
15:00	-.08	16.5	18.5	22.4	19.2	22.1	18.6	11.1	26.9
16:00	-.25	19.9	23.6	24.3	21.2	22.2	16.7	11.0	27.0
17:00	-.13	16.0	18.8	27.2	17.6	22.4	16.7	9.0	26.5
18:00	-.16	15.3	15.8	17.4	14.4	20.5	15.9	8.6	26.2
19:00	-.03	13.3	15.8	18.3	13.0	19.7	17.2	8.9	25.6
20:00	.13	13.1	20.8	25.9	14.6	20.6	16.5	8.8	24.8
21:00	.07	13.1	18.1	23.6	9.7	13.8	20.4	13.7	23.0
22:00	-.03	2.1	4.1	6.9	2.7	7.3	13.0	7.3	21.6
23:00	.03	5.7	8.0	12.4	6.3	12.9	8.9	5.5	21.1
Avg	-.08	10.3	12.6	15.1	10.7	13.8	15.5	9.6	22.0
Max	.13	19.9	23.6	27.2	22.5	24.8	20.4	17.4	27.0
Hr. of Max	20	16	16	17	14	14	21	11	16
Min	-.37	2.1	4.1	6.4	2.7	5.3	5.4	2.5	17.4
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)

5/1/2016

Interval: 001h

	37_SonicTemp_060m
Hour	DEGC
00:00	18.4
01:00	18.1
02:00	18.1
03:00	18.0
04:00	17.7
05:00	17.4
06:00	17.4
07:00	18.5
08:00	18.8
09:00	19.5
10:00	20.6
11:00	22.4
12:00	23.7
13:00	24.5
14:00	25.5
15:00	26.0
16:00	26.3
17:00	25.9
18:00	25.6
19:00	25.2
20:00	24.5
21:00	22.6
22:00	22.2
23:00	21.8
Avg	21.6
Max	26.3
Hr. of Max	16
Min	17.4
Count	24
Total	