Date Printed: 12/21/2016 01:20

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

Daily Summary Report

Site: Tower "D" (1000 Area)

12/20/2016

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	-2.4	-1.6	-1.6	-1.4	.82	.88	1.00	.06	.18
01:00	-1.2	-.8	-.7	-.8	.49	.50	.49	.01	.00
02:00	-.7	-.4	-.5	-.6	.23	.14	.10	-.09	-.13
03:00	-.2	-.2	-.3	-.4	.02	-.14	-.24	-.15	-.25
04:00	-.1	-.2	-.3	-.5	-.03	-.21	-.32	-.17	-.29
05:00	-.1	-.1	-.3	-.4	-.06	-.24	-.36	-.18	-.30
06:00	.0	-.1	-.3	-.4	-.07	-.25	-.39	-.18	-.32
07:00	.0	-.1	-.3	-.4	-.09	-.28	-.42	-.19	-.34
08:00	.1	.0	-.2	-.3	-.11	-.31	-.45	-.20	-.34
09:00	.6	.4	.2	.0	-.17	-.40	-.55	-.24	-.39
10:00	1.2	1.0	.8	.6	-.16	-.40	-.54	-.24	-.38
11:00	1.8	1.6	1.4	1.3	-.15	-.37	-.52	-.23	-.37
12:00	2.3	2.0	1.7	1.6	-.28	-.52	-.66	-.23	-.37
13:00	2.7	2.4	2.2	2.0	-.26	-.54	-.68	-.28	-.42
14:00	3.0	2.6	2.4	2.2	-.41	-.66	-.80	-.24	-.38
15:00	3.2	2.9	2.7	2.6	-.26	-.50	-.61	-.23	-.35
16:00	3.1	3.2	3.0	2.9	.08	-.13	-.25	-.21	-.33
17:00	.7	2.2	2.5	2.6	1.53	1.80	1.92	.28	.39
18:00	-1.1	.8	1.2	1.6	1.86	2.35	2.69	.49	.83
19:00	-1.7	-.3	.2	.9	1.33	1.91	2.54	.58	1.21
20:00	-2.3	-1.0	-.5	.5	1.30	1.80	2.80	.50	1.50
21:00	-2.5	-1.4	-1.0	.0	1.12	1.59	2.53	.47	1.41
22:00	-2.7	-1.6	-1.3	-1.0	1.15	1.39	1.76	.25	.61
23:00	-2.7	-2.0	-1.9	-1.9	.75	.83	.83	.08	.09
Avg	.0	.4	.4	.4	.36	.34	.41	-.01	.05
Max	3.2	3.2	3.0	2.9	1.86	2.35	2.80	.58	1.50
Hr. of Max	15	16	16	16	18	18	20	19	20
Min	-2.7	-2.0	-1.9	-1.9	-.41	-.66	-.80	-.28	-.42
Count	24	24	24	24	24	24	24	24	24
Total									

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Daily Summary Report

Site: Tower "D" (1000 Area)

12/20/2016

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	-3.6	-3.9	-3.2	4.9	92.4	84.7	3.8	3.6	0.002925
01:00	-2.7	-3.3	-2.2	4.8	90.4	83.2	4.0	3.8	0.003128
02:00	-2.3	-2.9	-1.8	4.8	88.9	83.8	4.1	3.9	0.003209
03:00	-2.4	-2.8	-1.6	4.7	85.9	83.3	4.1	4.0	0.003209
04:00	-2.3	-2.6	-1.5	4.7	86.1	84.2	4.1	4.0	0.003233
05:00	-2.2	-2.5	-1.5	4.7	86.1	84.7	4.1	4.0	0.003247
06:00	-2.1	-2.3	-1.4	4.7	86.5	85.4	4.2	4.1	0.003273
07:00	-1.7	-1.9	-1.2	4.7	88.7	88.0	4.3	4.2	0.003356
08:00	-1.7	-1.9	-1.1	4.7	88.1	87.7	4.3	4.2	0.003373
09:00	-1.3	-1.6	-.7	4.7	87.6	87.2	4.4	4.3	0.00346
10:00	-1.0	-1.2	-.2	4.7	86.2	85.9	4.5	4.4	0.00356
11:00	-1.0	-1.3	-.1	4.8	82.1	81.0	4.5	4.4	0.003546
12:00	-1.1	-1.5	.0	4.9	78.8	78.2	4.4	4.3	0.003526
13:00	-1.3	-1.7	.0	5.0	75.4	74.5	4.4	4.2	0.003482
14:00	-1.5	-2.0	.0	5.2	72.5	71.8	4.3	4.1	0.003434
15:00	-1.8	-2.2	-.1	5.3	70.2	69.3	4.2	4.1	0.003364
16:00	-1.8	-2.1	-.2	5.5	70.4	68.7	4.2	4.1	0.003355
17:00	-2.0	-2.0	-1.1	5.5	83.1	74.3	4.2	4.2	0.00332
18:00	-2.5	-1.9	-2.0	5.5	91.0	82.8	4.1	4.2	0.003197
19:00	-2.7	-2.0	-2.4	5.4	93.1	89.2	4.0	4.2	0.003138
20:00	-3.2	-2.1	-2.9	5.3	94.1	92.4	3.9	4.2	0.003038
21:00	-3.4	-2.4	-3.1	5.1	94.1	93.8	3.8	4.1	0.002976
22:00	-3.6	-2.4	-3.3	5.0	94.0	94.5	3.7	4.1	0.002927
23:00	-3.6	-2.6	-3.3	4.9	94.0	95.8	3.7	4.0	0.002934
Avg	-2.2	-2.2	-1.5	5.0	85.8	83.5	4.1	4.1	0.003259
Max	-1.0	-1.2	.0	5.5	94.1	95.8	4.5	4.4	0.00356
Hr. of Max	11	10	14	18	21	23	11	11	10
Min	-3.6	-3.9	-3.3	4.7	70.2	68.7	3.7	3.6	0.002925
Count	24	24	24	24	24	24	24	24	24
Total									

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Daily Summary Report

Site: Tower "D" (1000 Area)

12/20/2016

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	0.002847	4.7	4.6	.00	29.62	1003.0	-2.1	.00	50.9
01:00	0.002982	5.0	4.8	.00	29.61	1002.7	-2.3	.00	68.8
02:00	0.003077	5.1	4.9	.00	29.60	1002.5	-2.2	.00	84.4
03:00	0.003115	5.1	5.0	.00	29.59	1002.0	-2.5	.00	51.1
04:00	0.003155	5.2	5.1	.00	29.58	1001.6	-1.8	.00	30.5
05:00	0.003178	5.2	5.1	.00	29.58	1001.7	-2.4	.00	43.4
06:00	0.003214	5.2	5.2	.00	29.59	1002.1	-2.6	.00	45.6
07:00	0.00331	5.4	5.3	.00	29.60	1002.5	-1.6	.00	48.7
08:00	0.003328	5.4	5.3	.00	29.61	1002.7	16.4	.02	51.4
09:00	0.003402	5.5	5.5	.00	29.61	1002.6	56.8	.08	82.8
10:00	0.003508	5.7	5.6	.00	29.60	1002.3	90.8	.13	65.8
11:00	0.003462	5.7	5.5	.00	29.58	1001.6	102.7	.15	175.0
12:00	0.003426	5.6	5.5	.00	29.54	1000.4	122.7	.18	232.8
13:00	0.00338	5.6	5.4	.00	29.51	999.4	152.0	.22	219.2
14:00	0.003299	5.5	5.3	.00	29.49	998.7	180.4	.26	267.6
15:00	0.00326	5.4	5.2	.00	29.47	998.1	200.8	.29	194.2
16:00	0.003295	5.4	5.3	.00	29.47	998.0	119.1	.17	13.2
17:00	0.003315	5.3	5.3	.00	29.47	998.0	7.3	.01	41.2
18:00	0.003332	5.1	5.3	.00	29.46	997.7	-2.5	.00	50.7
19:00	0.003315	5.0	5.3	.00	29.44	996.9	-2.2	.00	67.6
20:00	0.003283	4.8	5.2	.00	29.42	996.4	-2.4	.00	74.8
21:00	0.003223	4.7	5.1	.00	29.42	996.3	-2.5	.00	74.9
22:00	0.003203	4.7	5.1	.00	29.44	996.8	-2.1	.00	71.3
23:00	0.003161	4.7	5.0	.00	29.42	996.3	-2.5	.00	59.0
Avg	0.003253	5.2	5.2	.00	29.53	1000.0	42.4	.06	62.0
Max	0.003508	5.7	5.6	.00	29.62	1003.0	200.8	.29	267.6
Hr. of Max	10	11	10	23	00	00	15	15	14
Min	0.002847	4.7	4.6	.00	29.42	996.3	-2.6	.00	13.2
Count	24	24	24	24	24	24	24	24	24
Total									

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Daily Summary Report

Site: Tower "D" (1000 Area)

12/20/2016

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	45.4	58.5	34.9	49.1	25.3	13.9	11.0	1.3	3.5
01:00	43.7	45.6	58.3	35.7	28.8	19.1	12.7	1.3	3.9
02:00	85.0	80.3	81.6	70.6	22.8	27.0	20.0	1.6	3.0
03:00	52.3	56.3	40.1	46.2	27.0	17.3	12.6	2.2	4.9
04:00	29.3	33.2	13.0	21.9	28.9	15.1	12.6	2.0	4.5
05:00	35.6	36.5	26.7	25.6	25.1	15.5	11.6	1.8	3.9
06:00	41.4	43.6	31.4	33.4	28.3	13.0	9.7	2.0	3.9
07:00	40.5	43.9	33.0	33.7	23.6	17.1	12.0	1.9	3.5
08:00	49.3	50.4	39.6	40.7	21.6	16.8	11.2	2.4	4.2
09:00	72.3	68.2	83.1	59.3	30.3	23.4	17.0	1.4	2.4
10:00	39.2	57.3	35.5	46.7	42.8	54.4	53.0	.9	1.1
11:00	220.1	208.4	207.1	203.1	47.0	46.9	39.0	1.3	1.6
12:00	239.1	235.8	239.8	232.5	39.3	28.1	23.7	2.7	3.4
13:00	238.1	235.6	227.6	230.3	44.6	30.9	28.4	2.2	2.9
14:00	263.2	250.4	264.9	245.1	46.8	28.1	27.3	2.5	3.4
15:00	233.5	224.9	233.2	221.7	55.9	61.2	58.9	1.1	1.6
16:00	349.5	354.1	334.9	340.5	41.1	31.2	25.0	1.2	1.7
17:00	37.3	51.3	2.6	42.0	35.3	17.7	14.9	.8	1.0
18:00	51.8	63.7	29.9	54.5	31.2	13.6	8.3	1.0	1.8
19:00	57.6	52.3	50.6	42.4	29.5	16.9	7.2	.9	2.0
20:00	60.0	29.0	54.5	17.9	25.7	22.4	16.0	.6	1.3
21:00	69.6	37.4	56.2	25.6	16.6	8.8	12.1	.7	2.5
22:00	67.4	67.7	58.0	58.8	17.5	11.4	7.7	1.2	3.0
23:00	40.8	61.3	17.0	50.8	32.5	33.8	26.8	.8	1.7
Avg	44.0	48.0	32.0	36.0	32.0	24.3	19.9	.0	.0
Max	349.5	354.1	334.9	340.5	55.9	61.2	58.9	2.7	4.9
Hr. of Max	16	16	16	16	15	15	15	12	03
Min	29.3	29.0	2.6	17.9	16.6	8.8	7.2	.6	1.0
Count	24	24	24	24	24	24	24	24	24
Total									

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Daily Summary Report

Site: Tower "D" (1000 Area)

12/20/2016

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	4.9	1.5	3.6	5.0	1.7	5.2	-1.1	-1.0	-.10
01:00	5.4	1.5	4.1	5.5	1.7	5.8	1.4	1.0	-.02
02:00	4.3	1.7	3.4	4.6	2.2	4.9	3.7	4.4	.08
03:00	6.3	2.5	5.3	6.7	3.0	7.0	-.1	.6	-.10
04:00	5.7	2.2	4.7	5.8	2.8	6.1	-1.9	.5	-.21
05:00	4.8	1.9	4.0	5.0	2.3	5.3	-1.3	.3	-.17
06:00	5.0	2.2	4.0	5.0	2.5	5.3	-1.3	-1.3	-.22
07:00	4.6	2.0	3.7	4.7	2.4	5.0	-1.6	.6	-.24
08:00	5.0	2.5	4.3	5.1	2.9	5.3	-2.5	-2.0	-.31
09:00	2.9	1.7	2.7	3.1	2.1	3.4	2.0	7.0	.00
10:00	1.3	1.1	1.3	1.5	1.6	2.0	-6.6	-4.4	-.21
11:00	2.0	1.5	1.9	2.2	2.1	2.8	.0	-4.2	-.03
12:00	3.8	3.2	3.7	4.1	3.7	4.5	1.7	-5.1	-.03
13:00	3.3	2.7	3.3	3.6	3.2	4.0	2.2	2.5	.06
14:00	3.9	3.0	3.7	4.3	3.4	4.8	-.7	-3.5	-.08
15:00	1.9	1.8	2.2	2.4	2.4	3.0	-8.4	-14.5	-.33
16:00	1.4	1.3	1.8	1.5	1.8	1.9	-2.0	-5.1	-.13
17:00	1.0	.9	1.2	1.4	1.3	1.6	1.4	-.3	.01
18:00	2.8	1.2	1.9	2.8	1.5	3.0	2.9	1.2	.06
19:00	3.1	1.0	2.1	3.2	1.3	3.4	.5	1.3	.01
20:00	1.9	.6	1.5	2.0	1.0	2.2	3.1	2.3	.04
21:00	2.4	.7	2.5	2.6	1.1	2.7	2.4	3.3	.05
22:00	4.2	1.3	3.1	4.3	1.6	4.4	.2	-.2	-.03
23:00	2.1	.9	1.9	2.4	1.4	2.6	-1.9	-1.1	-.10
Avg	.0	1.7	3.0	3.7	2.1	4.0	-.3	-.7	-.08
Max	6.3	3.2	5.3	6.7	3.7	7.0	3.7	7.0	.08
Hr. of Max	03	12	03	03	12	03	02	09	02
Min	1.0	.6	1.2	1.4	1.0	1.6	-8.4	-14.5	-.33
Count	24	24	24	24	24	24	24	24	24
Total									

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Daily Summary Report

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12/20/2016

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	-.08	4.6	7.3	11.4	16.2	5.9	-1.5	-1.6
01:00	.03	4.8	9.4	11.0	19.5	8.6	-.7	-.9
02:00	.31	7.1	8.7	9.4	19.9	10.7	-.3	-.7
03:00	.02	7.8	10.3	10.8	20.6	8.9	-.1	-.6
04:00	-.03	6.4	10.1	9.8	20.6	9.8	.0	-.6
05:00	-.03	6.0	8.7	9.8	22.2	9.2	.0	-.6
06:00	-.20	7.1	7.6	9.6	22.0	9.1	.1	-.5
07:00	-.02	6.4	7.6	9.2	21.6	10.4	.1	-.6
08:00	-.27	6.4	7.6	8.9	19.6	9.6	.2	-.4
09:00	.32	6.2	10.5	11.4	22.7	16.8	.6	-.1
10:00	-.11	4.6	5.7	5.3	28.1	29.6	1.2	.6
11:00	-.34	7.3	7.6	7.3	27.7	31.6	1.8	1.1
12:00	-.38	9.2	11.0	11.0	18.0	17.5	2.1	1.4
13:00	.11	9.4	13.7	12.8	21.6	18.8	2.5	1.8
14:00	-.33	8.5	10.8	15.3	20.0	19.4	2.7	2.0
15:00	-.83	8.9	8.5	8.0	29.2	27.6	3.1	2.4
16:00	-.21	4.1	5.5	3.9	20.7	21.8	3.4	2.8
17:00	-.02	3.7	6.4	5.7	11.7	7.5	2.2	2.4
18:00	.05	3.9	3.9	5.3	10.3	4.2	.8	1.5
19:00	.07	2.3	3.4	6.0	7.6	3.4	-.3	.7
20:00	.09	2.5	2.7	3.9	7.7	5.1	-.9	.4
21:00	.16	2.1	3.9	5.3	8.0	4.8	-1.3	-.1
22:00	-.01	3.0	7.1	9.4	9.6	2.8	-1.5	-1.1
23:00	-.08	3.7	4.6	5.3	12.7	6.5	-2.0	-2.1
Avg	-.07	5.7	7.6	8.6	18.2	12.5	.5	.3
Max	.32	9.4	13.7	15.3	29.2	31.6	3.4	2.8
Hr. of Max	09	13	13	14	15	11	16	16
Min	-.83	2.1	2.7	3.9	7.6	2.8	-2.0	-2.1
Count	24	24	24	24	24	24	24	24
Total								