Date Printed: 12/22/2016 01:20

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

Daily Summary Report

Site: Tower "D" (1000 Area)

12/21/2016

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	-2.6	-2.2	-2.0	-1.7	.43	.56	.86	.14	.43
01:00	-3.5	-2.6	-2.3	-1.9	.91	1.21	1.62	.30	.71
02:00	-4.0	-3.1	-2.6	-2.2	.80	1.33	1.79	.53	.98
03:00	-4.2	-3.2	-3.0	-2.7	1.03	1.25	1.56	.22	.52
04:00	-3.1	-2.7	-2.6	-2.5	.35	.45	.54	.10	.18
05:00	-2.8	-2.8	-2.8	-2.8	.04	-.01	.06	-.05	.02
06:00	-3.3	-3.3	-3.3	-3.3	-.02	-.06	-.04	-.04	-.03
07:00	-3.1	-3.2	-3.3	-3.3	-.04	-.16	-.21	-.12	-.18
08:00	-2.6	-2.7	-2.9	-2.9	-.11	-.26	-.32	-.15	-.21
09:00	-1.9	-2.1	-2.2	-2.3	-.13	-.26	-.35	-.13	-.22
10:00	-.7	-1.0	-1.2	-1.3	-.23	-.41	-.54	-.18	-.31
11:00	.1	-.2	-.4	-.6	-.34	-.54	-.65	-.20	-.31
12:00	1.9	1.2	.7	.6	-.68	-1.15	-1.33	-.47	-.65
13:00	5.0	3.9	3.4	3.6	-1.08	-1.61	-1.34	-.53	-.26
14:00	6.8	5.7	5.1	5.3	-1.09	-1.75	-1.49	-.66	-.40
15:00	7.3	7.0	6.7	6.5	-.36	-.66	-.84	-.30	-.48
16:00	7.1	7.0	6.8	6.7	-.09	-.26	-.33	-.17	-.25
17:00	6.0	6.3	6.2	6.3	.23	.18	.26	-.05	.03
18:00	5.3	5.9	6.0	6.3	.58	.74	.97	.15	.38
19:00	5.0	5.7	5.9	6.1	.69	.89	1.09	.19	.39
20:00	4.8	5.6	5.8	6.1	.81	1.03	1.32	.23	.52
21:00	4.7	5.4	5.8	6.1	.75	1.11	1.43	.36	.68
22:00	4.6	5.3	5.5	5.8	.63	.82	1.14	.19	.51
23:00	4.6	4.9	5.2	5.7	.34	.62	1.11	.28	.78
Avg	1.3	1.5	1.4	1.6	.14	.13	.26	-.02	.12
Max	7.3	7.0	6.8	6.7	1.03	1.33	1.79	.53	.98
Hr. of Max	15	16	16	16	03	02	02	02	02
Min	-4.2	-3.3	-3.3	-3.3	-1.09	-1.75	-1.49	-.66	-.65
Count	24	24	24	24	24	24	24	24	24
Total									

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Daily Summary Report

Site: Tower "D" (1000 Area)

12/21/2016

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	-3.3	-2.6	-3.1	4.7	95.1	96.9	3.8	4.0	0.003
01:00	-4.5	-3.2	-4.2	4.6	93.4	95.9	3.5	3.9	0.002748
02:00	-5.0	-4.0	-4.6	4.5	92.9	94.4	3.4	3.7	0.002644
03:00	-5.4	-4.1	-5.0	4.4	92.2	94.0	3.3	3.6	0.00257
04:00	-3.9	-3.4	-3.6	4.3	94.4	95.6	3.7	3.8	0.002871
05:00	-3.6	-3.4	-3.3	4.2	95.1	95.8	3.8	3.8	0.002943
06:00	-4.2	-4.1	-3.9	4.2	93.9	94.7	3.6	3.6	0.002818
07:00	-3.8	-3.8	-3.6	4.1	95.4	95.6	3.7	3.7	0.002889
08:00	-3.2	-3.3	-3.0	4.1	95.9	96.0	3.9	3.8	0.003017
09:00	-2.5	-2.6	-2.3	4.0	96.5	96.6	4.1	4.0	0.003192
10:00	-1.2	-1.4	-1.0	4.0	97.5	97.5	4.5	4.4	0.003521
11:00	-.7	-.7	-.4	4.1	95.2	97.5	4.6	4.6	0.003655
12:00	-.3	-.4	.4	4.2	85.8	89.7	4.7	4.7	0.003754
13:00	.3	-.7	1.8	4.4	72.3	72.7	4.9	4.6	0.003939
14:00	.5	-.6	2.6	4.6	64.7	64.5	4.9	4.6	0.004018
15:00	.4	.0	2.7	4.8	61.9	61.7	4.9	4.7	0.003975
16:00	.9	.4	3.0	5.0	65.5	63.5	5.1	4.9	0.004134
17:00	1.5	.8	3.0	5.1	73.4	68.8	5.3	5.0	0.004308
18:00	1.9	.9	3.1	5.3	79.6	71.1	5.5	5.1	0.004445
19:00	2.0	1.0	3.0	5.4	81.5	72.6	5.5	5.1	0.004456
20:00	2.1	1.0	3.0	5.5	83.7	73.0	5.6	5.1	0.004504
21:00	2.3	1.3	3.1	5.6	85.2	75.2	5.6	5.2	0.004557
22:00	2.4	1.3	3.1	5.6	86.1	76.0	5.7	5.2	0.004594
23:00	2.3	1.6	3.1	5.7	85.9	79.9	5.6	5.4	0.004568
Avg	-1.0	-1.3	-.3	4.7	86.0	84.1	4.6	4.4	0.00363
Max	2.4	1.6	3.1	5.7	97.5	97.5	5.7	5.4	0.004594
Hr. of Max	22	23	23	23	10	11	22	23	22
Min	-5.4	-4.1	-5.0	4.0	61.9	61.7	3.3	3.6	0.00257
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)

12/21/2016

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	0.003155	4.8	5.0	.00	29.41	996.0	-2.7	.00	72.7
01:00	0.00302	4.4	4.8	.00	29.40	995.7	-2.4	.00	51.9
02:00	0.002854	4.2	4.5	.00	29.41	995.9	-2.7	.00	100.0
03:00	0.002831	4.1	4.5	.00	29.41	995.9	-2.2	.00	86.8
04:00	0.002982	4.6	4.8	.00	29.40	995.7	-2.1	.00	46.8
05:00	0.002975	4.7	4.7	.00	29.40	995.6	-2.5	.00	62.0
06:00	0.002838	4.5	4.5	.00	29.41	995.9	-2.2	.00	43.2
07:00	0.002885	4.6	4.6	.00	29.42	996.2	-.8	.00	45.0
08:00	0.002997	4.8	4.8	.00	29.41	996.0	22.0	.03	33.9
09:00	0.003166	5.1	5.0	.00	29.42	996.2	70.4	.10	74.9
10:00	0.003463	5.6	5.5	.00	29.42	996.4	124.8	.18	77.4
11:00	0.003655	5.8	5.8	.00	29.42	996.4	205.3	.29	87.4
12:00	0.003732	6.0	5.9	.00	29.37	994.7	469.6	.67	80.7
13:00	0.00367	6.3	5.8	.00	29.34	993.5	429.4	.62	176.5
14:00	0.003715	6.4	5.9	.00	29.32	992.8	434.3	.62	260.2
15:00	0.003869	6.3	6.1	.00	29.30	992.3	255.0	.37	337.3
16:00	0.003981	6.6	6.3	.00	29.30	992.2	49.2	.07	312.7
17:00	0.004104	6.8	6.5	.00	29.30	992.4	-.1	.00	329.8
18:00	0.004131	7.0	6.5	.00	29.31	992.5	-2.3	.00	132.4
19:00	0.00416	7.1	6.6	.00	29.30	992.4	-2.2	.00	64.5
20:00	0.004155	7.1	6.6	.00	29.30	992.3	-2.3	.00	212.2
21:00	0.004236	7.2	6.7	.00	29.29	992.1	-2.7	.00	229.2
22:00	0.004237	7.3	6.7	.00	29.29	991.9	-2.4	.00	222.8
23:00	0.004348	7.2	6.9	.00	29.28	991.5	-2.2	.00	222.0
Avg	0.003548	5.8	5.6	.00	29.36	994.3	84.5	.12	68.0
Max	0.004348	7.3	6.9	.00	29.42	996.4	469.6	.67	337.3
Hr. of Max	23	22	23	23	11	11	12	12	15
Min	0.002831	4.1	4.5	.00	29.28	991.5	-2.7	.00	33.9
Count	24	24	24	24	24	24	24	24	24
Total									

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Daily Summary Report

Site: Tower "D" (1000 Area)

12/21/2016

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	72.9	33.2	47.6	21.0	24.8	20.4	15.5	.8	1.5
01:00	81.6	68.5	13.2	58.4	43.1	31.8	19.6	.3	1.2
02:00	54.0	61.0	189.2	50.3	53.5	34.2	17.5	.2	.9
03:00	78.3	70.1	44.6	58.8	14.7	7.8	8.7	.5	.8
04:00	47.7	61.1	31.6	51.2	18.6	9.9	7.4	1.6	3.1
05:00	62.7	66.3	49.7	56.5	21.0	14.6	8.7	1.9	3.5
06:00	37.7	51.4	20.3	40.5	23.8	14.8	10.0	1.4	2.6
07:00	40.7	50.5	23.9	39.4	20.2	17.9	11.8	1.7	2.7
08:00	30.0	42.0	15.7	30.7	28.9	15.1	11.9	1.6	3.0
09:00	53.6	42.1	62.7	30.7	24.6	21.3	17.6	1.2	1.5
10:00	72.2	67.9	70.3	57.4	25.3	22.3	21.1	2.7	3.3
11:00	76.4	74.1	82.3	62.8	22.4	21.9	19.1	2.4	2.9
12:00	75.1	73.7	78.8	62.5	30.9	26.8	19.8	2.7	3.2
13:00	203.0	198.4	191.0	199.0	46.8	54.8	65.2	1.0	.8
14:00	306.9	321.0	264.1	312.3	65.3	58.5	47.4	1.6	1.8
15:00	320.0	324.7	309.8	315.0	47.6	38.1	44.3	.9	1.5
16:00	316.7	318.7	299.1	309.6	39.9	23.7	27.1	1.3	1.8
17:00	309.2	335.4	292.7	326.9	43.7	44.5	21.9	.6	1.2
18:00	349.9	12.6	254.5	348.0	45.1	33.7	30.5	.6	.4
19:00	239.0	175.4	278.8	174.1	77.3	28.2	26.0	.3	.5
20:00	232.7	234.6	244.0	226.1	44.2	40.4	44.7	.7	.8
21:00	256.9	291.1	245.2	258.5	37.3	48.4	37.9	.7	.9
22:00	232.4	227.8	238.6	223.3	38.2	9.3	12.8	1.2	2.3
23:00	234.6	247.8	232.8	242.5	25.9	12.5	12.7	1.7	3.0
Avg	25.0	34.0	343.0	19.0	36.0	27.1	23.3	.0	.0
Max	349.9	335.4	309.8	348.0	77.3	58.5	65.2	2.7	3.5
Hr. of Max	18	17	15	18	19	14	13	12	05
Min	30.0	12.6	13.2	21.0	14.7	7.8	7.4	.2	.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)

12/21/2016

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	2.3	.9	1.7	2.5	1.3	2.7	-1.8	.0	-.06
01:00	1.8	1.2	1.6	2.1	1.5	2.3	1.4	1.9	.01
02:00	1.9	.7	1.3	2.1	1.1	2.3	1.3	1.0	.01
03:00	1.7	.5	.9	1.8	1.0	2.0	.8	-1.2	.00
04:00	4.2	1.7	3.3	4.3	5.7	4.5	-1.3	-1.6	1.92
05:00	4.4	2.1	3.6	4.4	2.3	4.8	-1.2	-1.3	-.14
06:00	3.2	1.5	2.7	3.3	1.8	3.7	-3.9	-2.2	-.18
07:00	3.2	1.8	2.8	3.2	2.5	3.8	-4.1	-6.6	-.15
08:00	3.3	1.9	3.2	3.5	2.4	4.0	-4.9	-.9	-.30
09:00	1.6	1.3	1.6	1.7	1.6	2.3	-4.9	-9.2	-.16
10:00	3.5	3.0	3.6	3.7	3.5	4.4	1.7	4.7	.05
11:00	3.2	2.8	3.4	3.7	3.4	4.2	1.5	2.6	.03
12:00	3.6	3.1	3.5	3.8	3.5	4.2	-1.7	-5.1	-.15
13:00	.6	1.5	1.2	1.2	2.1	2.0	.7	-19.0	.02
14:00	1.7	2.6	2.7	2.5	3.1	3.1	-3.5	-8.1	-.19
15:00	1.6	1.6	2.0	2.1	2.1	2.5	2.7	8.4	.08
16:00	1.6	1.6	2.1	2.1	1.9	2.3	-1.6	-8.1	-.09
17:00	1.8	.9	1.5	2.1	1.3	2.3	1.3	1.4	-.01
18:00	.9	.8	1.0	1.7	1.3	1.9	2.1	.9	.03
19:00	.6	.8	1.1	1.1	1.3	1.4	-.6	-1.0	-.04
20:00	.8	1.0	1.0	1.0	1.4	1.3	.3	.8	-.01
21:00	.9	1.0	1.3	1.2	1.5	1.4	1.0	.8	.02
22:00	1.7	1.4	2.4	1.8	1.8	2.1	.7	.3	.02
23:00	3.0	1.9	3.1	3.2	2.3	3.4	.7	.9	.01
Avg	.0	1.6	2.2	2.5	2.2	2.9	-.6	-1.7	.03
Max	4.4	3.1	3.6	4.4	5.7	4.8	2.7	8.4	1.92
Hr. of Max	05	12	10	05	04	05	15	15	04
Min	.6	.5	.9	1.0	1.0	1.3	-4.9	-19.0	-.30
Count	24	24	24	24	24	24	24	24	24
Total									

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Daily Summary Report

Site: Tower "D" (1000 Area)

12/21/2016

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	-.01	3.9	3.9	7.3	12.1	5.9	-2.2	-1.8
01:00	.07	3.2	5.0	5.7	7.6	5.1	-2.7	-2.1
02:00	.04	2.5	5.3	3.7	7.2	5.0	-3.3	-2.4
03:00	-.03	2.7	2.3	3.7	7.5	4.7	-3.3	-3.1
04:00	-.13	4.8	6.2	6.6	15.1	4.5	-2.2 R	-3.2
05:00	-.13	5.0	7.6	12.4	17.4	5.5	-3.0	-3.5
06:00	-.16	4.8	7.1	7.3	17.7	6.8	-3.5	-4.1
07:00	-.43	5.0	5.3	6.2	18.6	9.0	-3.5	-4.2
08:00	-.08	6.2	10.5	9.2	19.4	9.4	-3.1	-4.0
09:00	-.37	6.0	6.6	4.8	22.9	18.9	-2.3	-3.3
10:00	.21	7.3	8.5	7.6	19.0	17.5	-.9	-2.1
11:00	.09	6.9	7.3	7.3	19.5	17.6	.2	-.9
12:00	-.37	8.7	8.0	8.2	23.8	22.1	2.0	1.3
13:00	-.82	5.5	4.6	7.6	31.5	34.4	4.5	3.9
14:00	-.37	7.6	7.6	8.0	25.7	30.6	6.3	5.6
15:00	.27	5.5	5.0	5.3	27.5	28.5	7.2	6.5
16:00	-.30	5.0	4.6	5.5	18.8	18.0	7.1	6.6
17:00	.03	2.7	3.9	4.8	14.1	9.7	6.4	6.2
18:00	.05	4.6	3.7	3.7	12.7	6.6	6.0	6.1
19:00	.00	6.6	5.3	3.7	11.0	8.9	5.8	6.0
20:00	.01	4.4	3.2	2.1	6.5	6.7	5.7	6.0
21:00	.02	3.2	3.2	3.2	6.6	6.9	5.6	6.0
22:00	.03	3.0	4.1	3.2	5.4	5.5	5.4	5.7
23:00	.06	4.1	7.3	5.3	7.7	7.4	5.1	5.6
Avg	-.10	5.0	5.7	5.9	15.6	12.3	1.6	1.3
Max	.27	8.7	10.5	12.4	31.5	34.4	7.2	6.6
Hr. of Max	15	12	08	05	13	13	15	16
Min	-.82	2.5	2.3	2.1	5.4	4.5	-3.5	-4.2
Count	24	24	24	24	24	24	24	24
Total								