JANUARY 2009 THROUGH DECEMBER 2009 AND JANUARY 1993 THROUGH DECEMBER 2009 SUMMARY REPORT OF METEOROLOGICAL DATA COLLECTED AT ENERGY*SOLUTIONS*' CLIVE, UTAH FACILITY

Prepared for:

Energy*Solutions*, LLC
423 West 300 South, Suite 200
Salt Lake City, Utah 84101

By

Meteorological Solutions Inc.
Project No. 021008134

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1.0 INTRODUCTION

This annual and 17-year summary report, prepared for Energy*Solutions* by Meteorological Solutions Inc. (MSI), summarizes the meteorological data collected at the Energy*Solutions* monitoring station located at Clive, Utah during the 12-month period from January 1, 2009 to December 31, 2009 and during the 17-year period from January 1, 1993 through December 31, 2009. Prior to the report covering the period ending December 2007, annual reports covered the period of October through September and prior multi-year summary reports covered the period July through June.

1.1 Background

Energy*Solutions* has operated a meteorological monitoring station at their Clive, Utah facility since April 1992. The main objective of this monitoring program is to collect on-site meteorological data for use in on-site operations, and to satisfy conditions of their Groundwater Quality Discharge Permit. The meteorological tower was relocated to a site northwest of the historical site on December 1, 2006. Current coordinates for the site are:

Latitude:	40 degrees, 41 minutes, 54 seconds
Longitude:	113 degrees, 6 minutes, 20 seconds

Figure 1.1 illustrates the current location of the monitoring station. The sensors and data logger from the old tower were transferred to the new tower. The elevation of the current monitoring station is 1,306 meters above sea level.

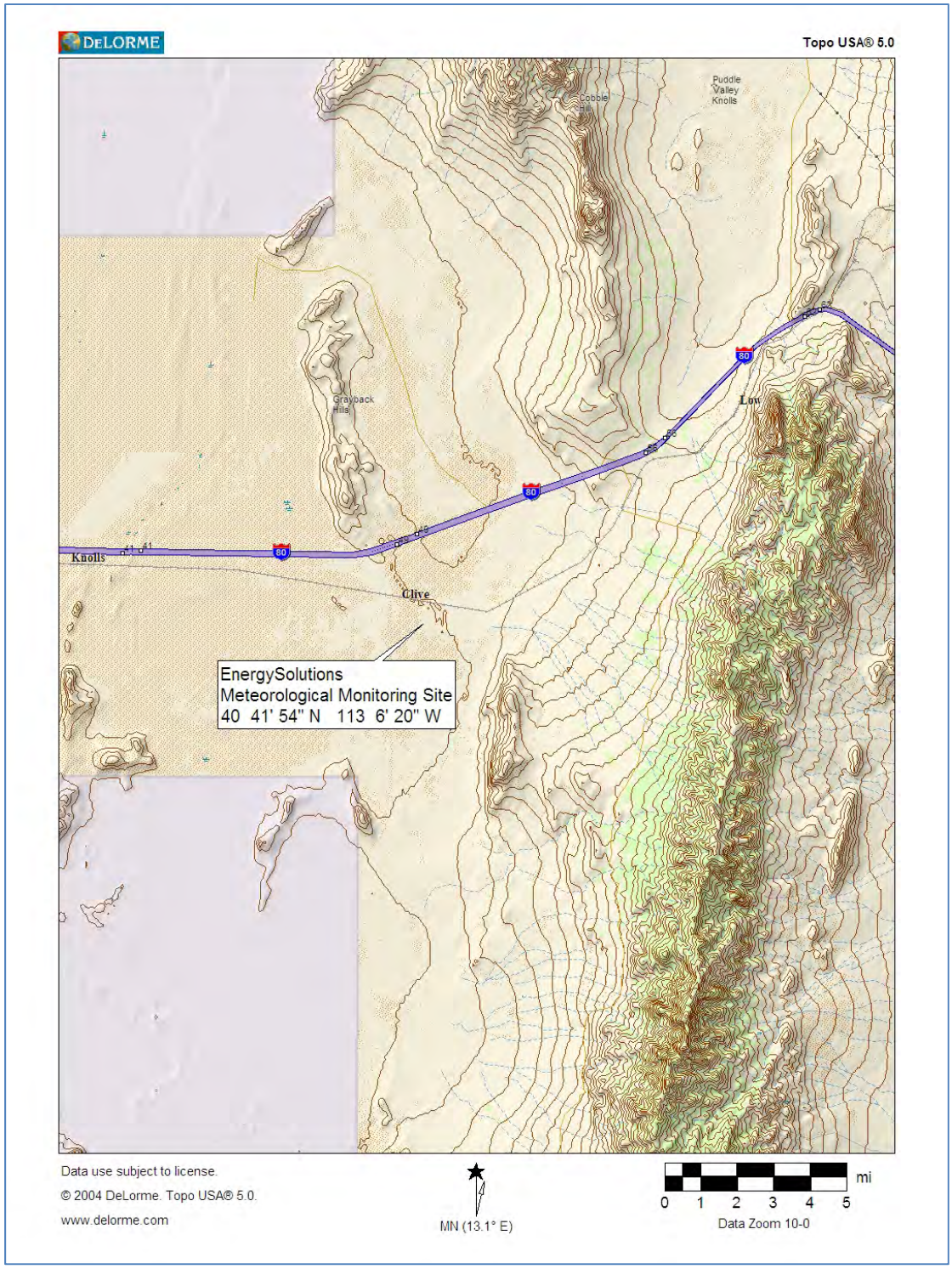

Figure 1.1 Energy*Solutions* Monitoring Station Location

1.2 Monitoring Station Description

The monitoring station is equipped to measure horizontal wind speed, wind direction, 2- and 10-meter temperature, delta-temperature for the derivation of stability class, solar radiation, precipitation, and evaporation. The instrumentation used to collect these meteorological parameters is presented in Table 1-1. The units used for each measured parameter are presented in Table 1-2.

Table 1-1

Meteorological Parameters and Instrumentation

Energy*Solutions* Monitoring Facility Clive, Utah

Parameter	Manufacturer	Model No.	Serial No.
Wind Speed	RM Young	05305	11541
Wind Direction	RM Young	05305	11541
Sigma Theta	(calculated by the data logger)		
Temperature (2 m)	RM Young RM Young	43347 41342	ECWX2M 16384[1]
Temperature (10 m)	RM Young RM Young	43347 41342	ECWX9M 16384[1]
Pan Evaporation	Novalynx	255-100	08663
Solar Radiation	Li-cor	200	PY15627
Precipitation	Met One	385	E1987
Data Logger	Campbell Scientific	CR10X	13136

[1] - New temperature sensors installed on April 20, 2009.

Table 1-2

Units for Meteorological Parameters

Parameter	Unit
Wind Speed	meters per second (mps)
Wind Direction	degrees from true north (°)
Sigma Theta	degrees (°)
Temperature	degrees Celsius (°C)
Delta-temperature	degrees Celsius (°C)
Pan Evaporation	millimeters/hour
Solar Radiation	kilowatts per square meter
Precipitation	millimeters
Time	Mountain Standard Time (MST)
Occurrence Frequency	percent

Data from the instruments (listed in Table 1-1) were collected and stored by a Campbell Scientific Instruments, Inc. Model CR10X Data Logger. Measurements were made every second. Averages were computed by the data logger and recorded every hour. The data logger also computes hourly sigma theta values (σ_θ is the standard deviation of horizontal wind direction fluctuations) by sampling the wind direction data every second. The two temperature sensors are used to derive stability class using the delta-temperature (ΔT) method. The data logger was downloaded by Energy*Solutions* on a weekly basis, and the data archived to computer files. In addition, a certified consulting meteorologist at MSI performed weekly reviews of all meteorological data.

Calibration verifications have been performed at the facility every six months since the inception of monitoring.

1.3 Topographical Description of Monitoring Facility and General Climatology of Area

The Energy*Solutions* facility lies in northwestern Utah within the Great Salt Lake Desert in the northern section of the Great Basin. The facility is located approximately 64 kilometers west of the Great Salt Lake. The topography in the area consists of the Lakeside Mountains and the Great Salt Lake located east of the facility and the Grassy Mountains to the northeast. The highest terrain in these mountain ranges rises to approximately 2,012 meters. To the south, west, and north of the facility is the Great Salt Lake Desert which is bordered by the Raft River and Grouse Creek Mountains 112 kilometers to the northwest. The Deep Creek Mountains, located 80 to 112 kilometers to the southwest contains peaks to 2,286 meters on the north side nearest the desert and as high as 3,658 meters on the southern end of the range.

The area is climatologically classified as "desert" according to the Koppen climate scheme (Donn, 1975). The climatological definition of a desert is "an area in which the precipitation that falls each year is less than one-half the amount that is potentially evapotranspirated." Desert soils have high salt content. Vegetation is devoid in areas with the highest salt content; soils with a lower salt content host sage, greasewood or pickleweed. (Shearer, 1956).

The general climate of the area is driven by its elevation, relative location with respect to the average storm track, distance from moisture sources and large mountain barriers. The Sierra Nevada Range along the Nevada/California border is a significant barrier to storm systems as they pass from the Pacific Ocean into the western United States. This mountain barrier is, in large part, the reason for desert conditions in much of the Intermountain west, including the Great Salt Lake Desert.

The climate of the area is characterized by cold winters, warm to hot summers, and large temperature extremes, particularly in the summer. Storm systems pass over the area generally moving from west to east. Air masses moving through this area are generally maritime polar, with occasional maritime tropical in the fall and early winter. At infrequent intervals, this region is invaded by cold, dry polar air or arctic air masses in winter. These air masses cause the coldest temperatures of the season. In summertime, a thermal low occasionally develops over the deserts of Arizona and southern California. The counterclockwise flow which develops around this low pressure region causes maritime tropical air masses from the Gulf of Mexico to the southeast or from the eastern Pacific to the southwest to move into the region. The movement of this warm, moist tropical air northward is also known as the “monsoon season”. This moist southerly flow can contribute to strong thunderstorm activity over much of the state of Utah, including the Great Salt Lake Desert. The monsoon season generally develops in early July and continues through the middle or latter part of August.

Precipitation amounts for both rain and snow are minimal. Winds can be strong during frontal passages and thunderstorms, particularly in the spring and early summer months. Due to the very dry air mass that covers the region during the summer, the precipitation which falls from high-based thunderstorms frequently evaporates before hitting the ground. Hail can accompany thunderstorms with the most damaging hail storms occurring during the warmer months of May through September (Brough, et al., 1987). Tornadoes and ice storms are rare events in the Great Salt Lake Desert; blizzards do occur occasionally. Dust storms, causing reduced visibilities, occur during most spring months and accompany frontal passages. Although the facility is far enough from the Pacific coast not to be affected by hurricanes, the remnants from these storms can cause occasional heavy rainfall (Pope, et al., 1996).

Due to the region's mid-latitude location, fluctuations of air masses occur frequently in the form of cyclones (low-pressure systems) and their associated frontal systems and troughs, and anti-cyclones (high-pressure systems). Fronts, both cold and warm, represent the boundaries of contrasting air masses and, to a certain extent, provide the mechanisms which generate temperature, precipitation, and wind patterns in the area. Movement of these frontal systems is usually from west or northwest to east or southeast with some deviations, and is controlled by the prevailing wind flow at upper levels in the atmosphere. Surface winds associated with these frontal systems are predominantly southerly and northwesterly.

Precipitation in the region averages from approximately 7.62 millimeters (0.30 inches) to 31.75 millimeters (1.25 inches) each month or approximately nine inches annually. Months with no precipitation are uncommon. Precipitation generally occurs every month of the year, with slightly higher amounts in the spring and summer months associated with springtime low-pressure systems and summertime convective storms moving across the region. The maximum monthly precipitation generally occurs during the month of April with the minimum monthly precipitation occurring in August. Twenty-four hour precipitation amounts in excess of 25.4 millimeters (one inch) are rare.

Data from three meteorological monitoring stations were used for the 17-year climatological summary section. These stations are Dugway, Fish Springs and the Clive Facility, and are shown in Figure 1.2. Climatological precipitation and temperature data for Dugway were compared against on-site data. Evaporation data from Fish Springs were reviewed. No offsite wind speed and wind direction data were used in this report due to the lack of monitoring stations with representative wind data.

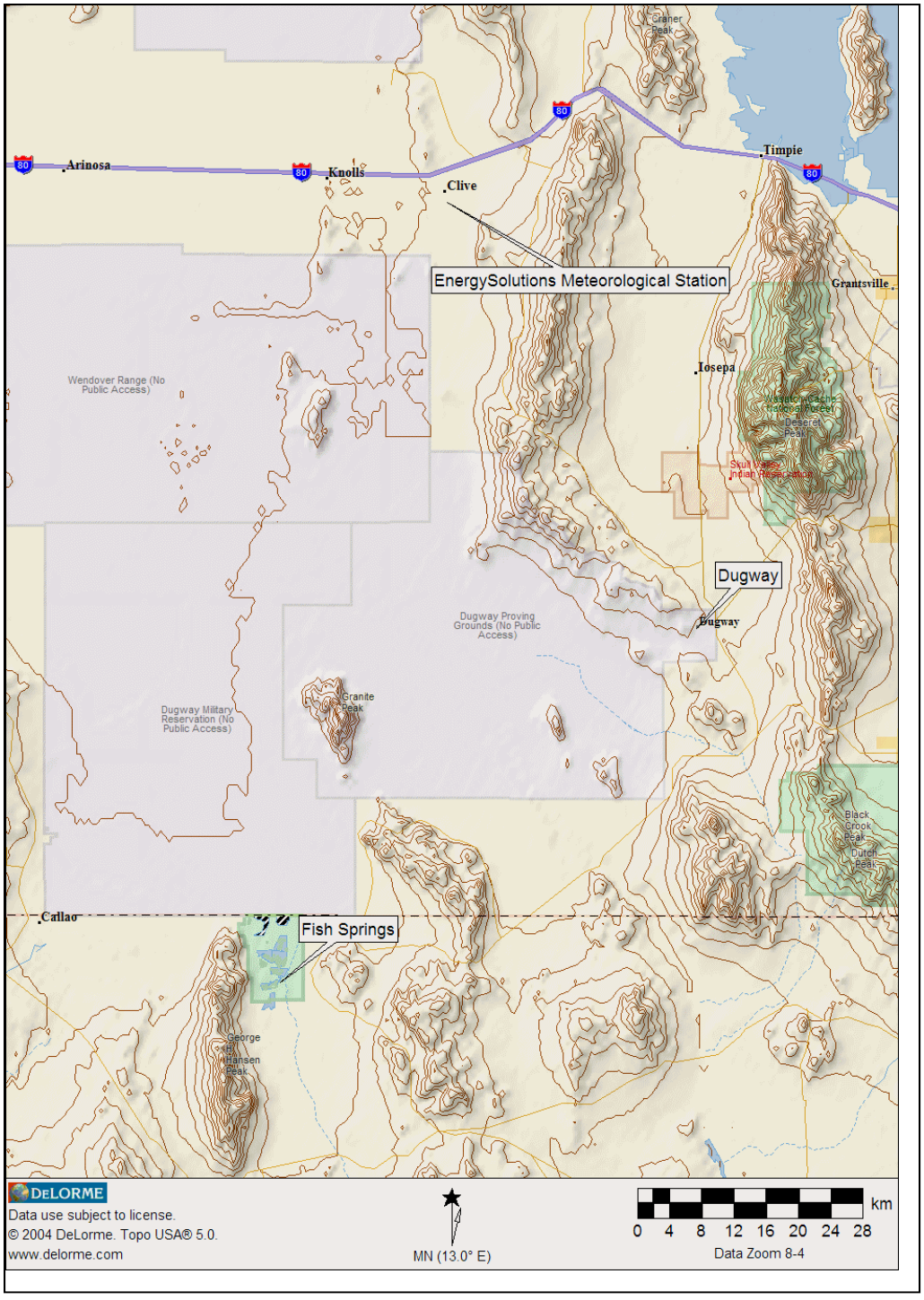

Figure 1.2 Location of Monitoring Sites used in Climatological Analysis

2.0 JANUARY 2009 THROUGH DECEMBER 2009 DATA SUMMARY

This section of the report summarizes the January 2009 through December 2009 data results and data recovery. Hourly data for the period are tabulated in the appendices. These appendix tables display the hourly average of measurements recorded in the hour "ending"; that is, the first hour of the day is labeled 01, meaning the hour beginning at midnight and ending at 01:00 a.m., and the second hour is labeled 02 meaning the values collected from 01:00 a.m. to 02:00 a.m. For this report data are presented in calendar quarters. Quarter 1 encompasses January through March 2009; quarter 2 encompasses April through June 2009; quarter 3 encompasses July through September 2009; and quarter 4 encompasses October through December 2009.

Sigma theta data were processed with wind speeds to derive hourly stability classes. ΔT and solar radiation data were also processed with the wind speeds to derive hourly stability classes.

2.1 Wind Speed and Horizontal Wind Direction

Figures 2.1 through 2.5 provide diagrams of the joint frequency of occurrence distributions (wind roses) of wind speed and wind direction for each quarter and for the period January 2009 to December 2009. These winds are surface winds, controlled in large part by topography, and are not related to the synoptic winds which control storm movement and are discussed in Section 1.0 of this report. Summary tables of hourly average wind direction and wind speed are presented in Appendix A. The tabulated joint frequencies of occurrence distributions are also included in Appendix A.

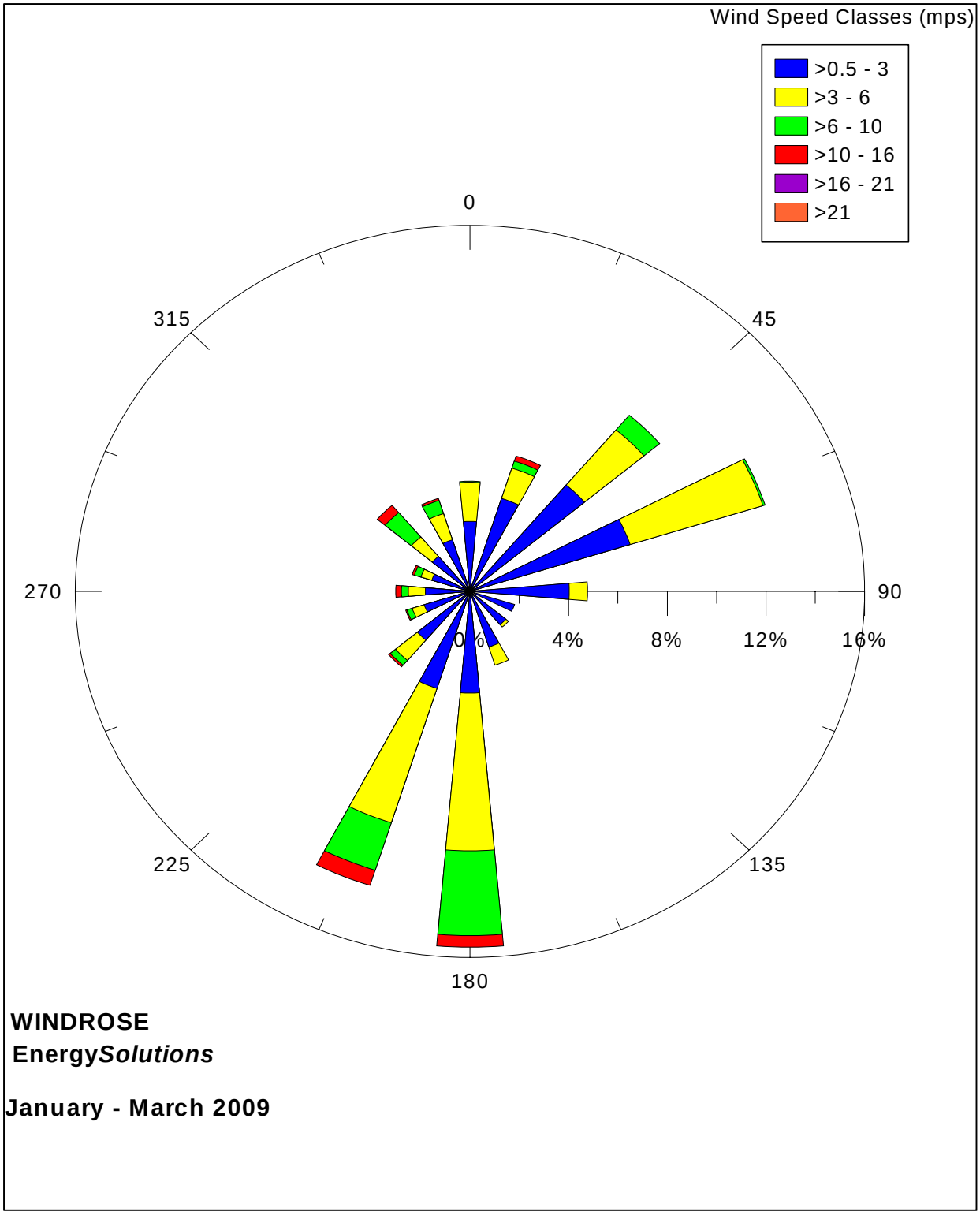

Figure 2.1 First Quarter Wind Rose, January - March 2009

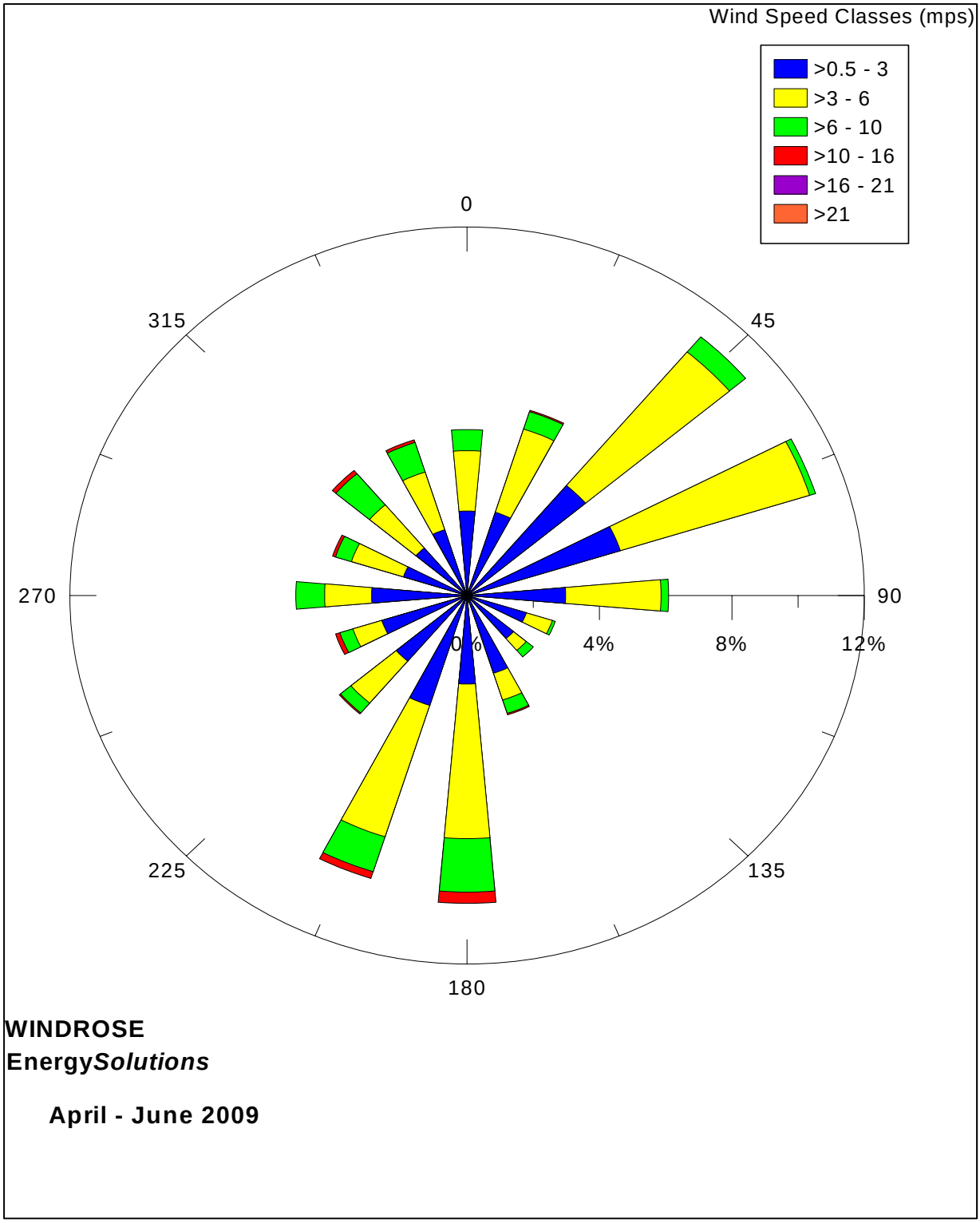

Figure 2.2 Second Quarter Wind Rose, April - June 2009

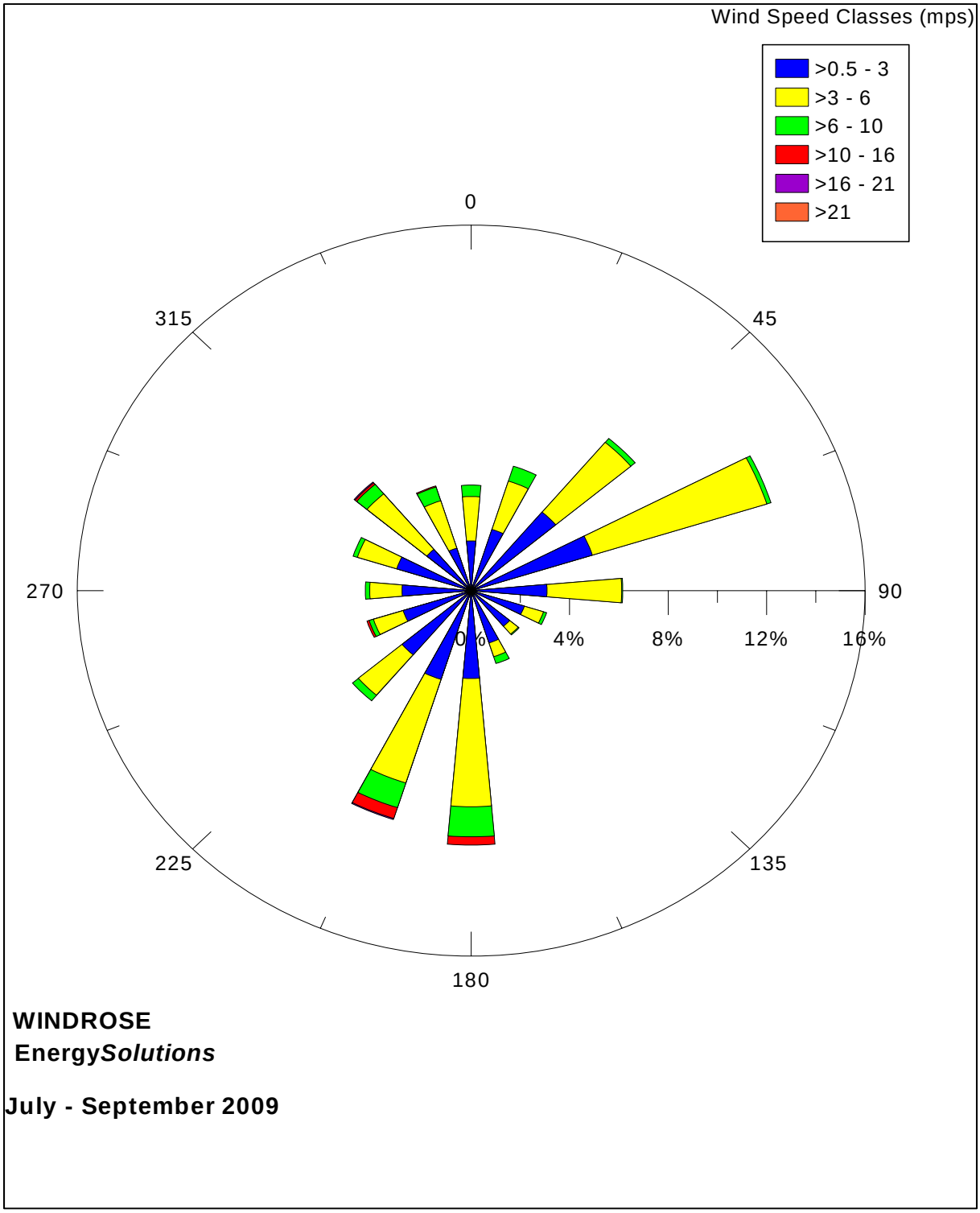

Figure 2.3 Third Quarter Wind Rose, July – September 2009

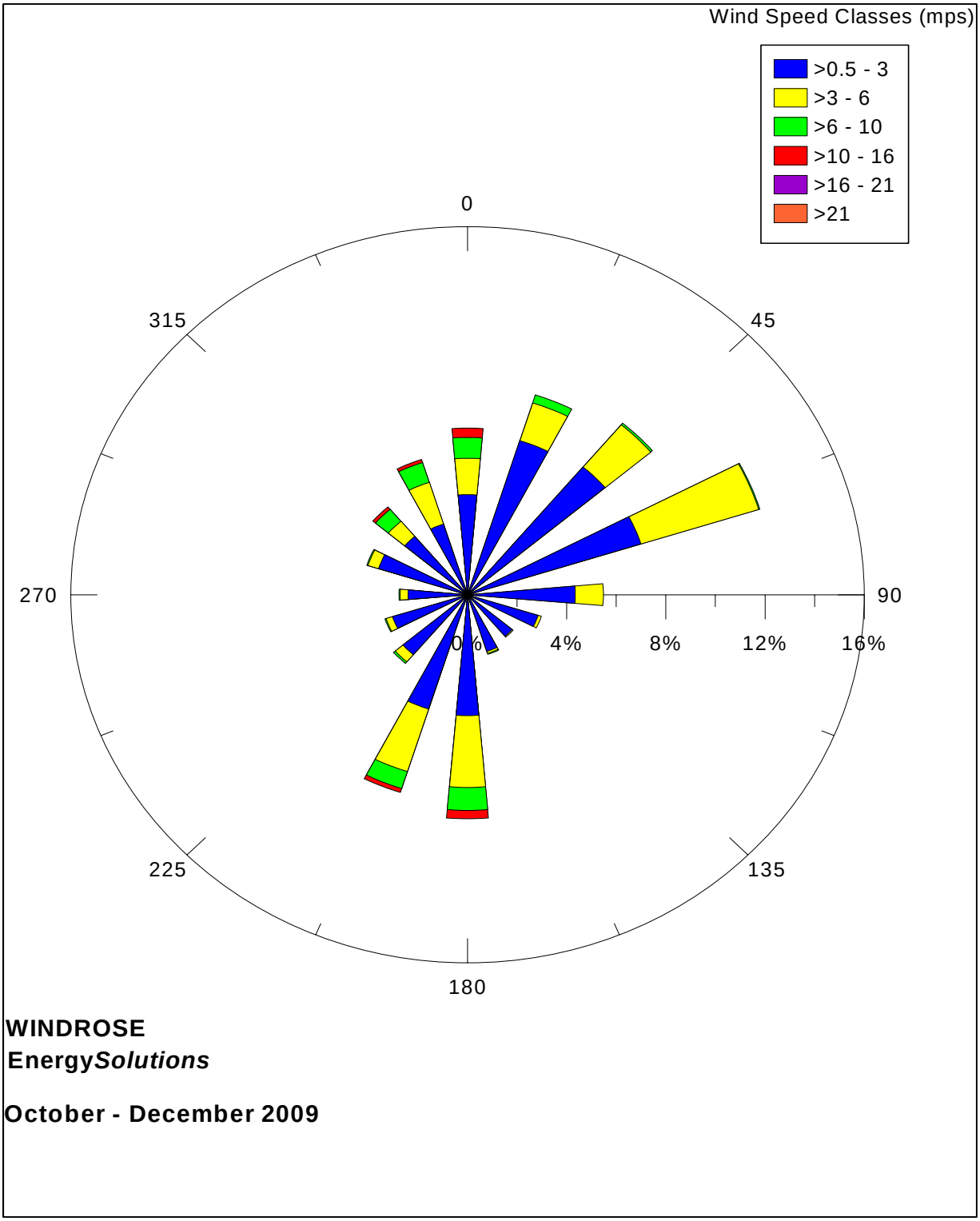

Figure 2.4 Fourth Quarter Wind Rose, October – December 2009

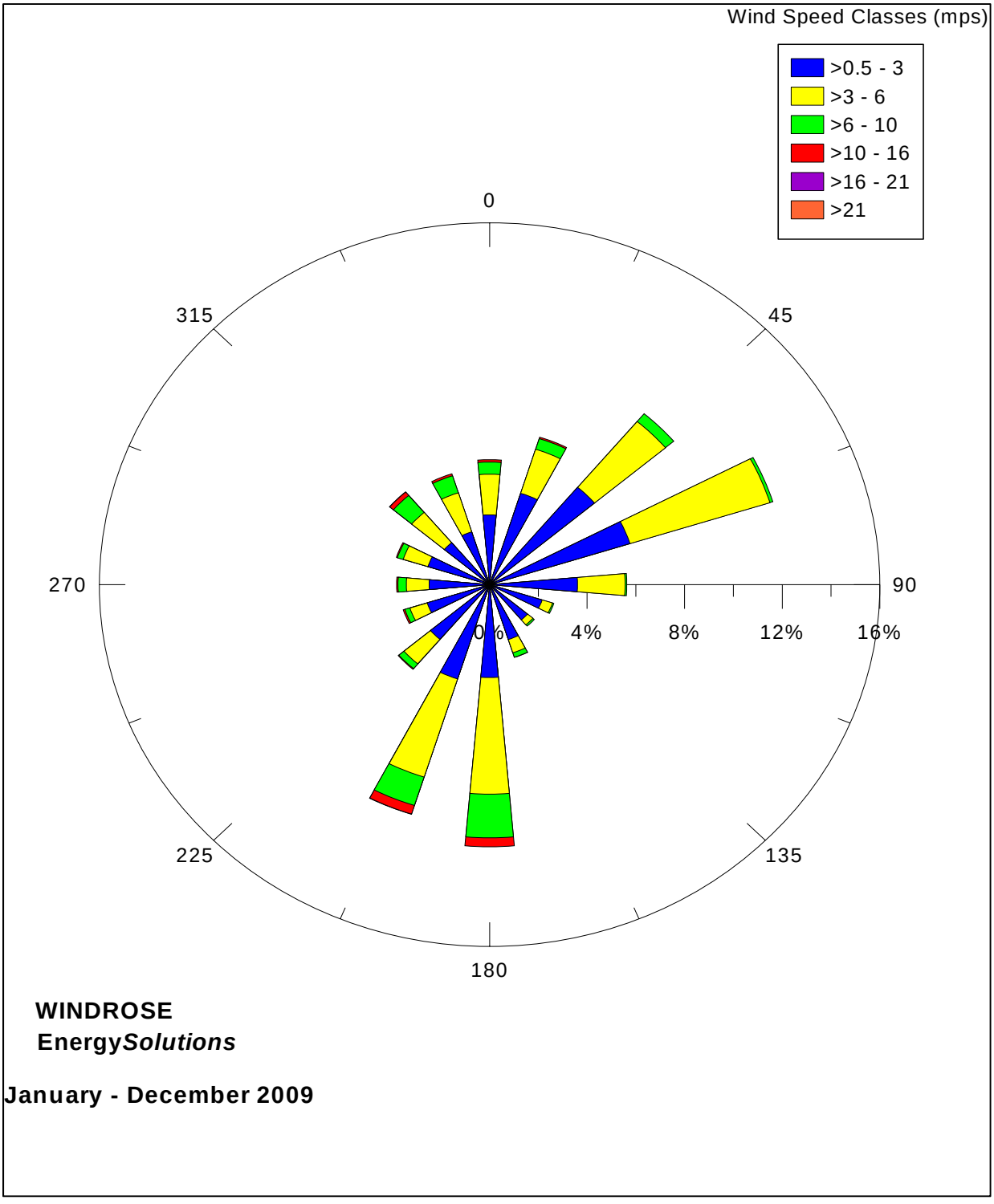

Figure 2.5 12-Month Wind Rose, January 2009 – December 2009

Reported wind directions represent the directions from which the wind is blowing. For the 12-month period, the highest percentage of winds were found in the east-northeast sector (12.2%), with the second most frequent sector being the south (11.6%), followed by the south-southwest (10.7%). For quarter 1, 2009, south was the most frequent sector (15.6%). For quarter 2, 2009, east-northeast was the most frequent sector (11.1%). For quarter 3, 2009, winds from the east-northeast sector were the most common (12.8%) and during quarter 4, 2009, east-northeast was the most common sector (12.4%).

For the period January 2009 through December 2009, wind speed records show 2.1 percent calm winds with an annual average speed of 3.2 meters per second (mps), or 7.2 miles per hour (mph). No hourly average wind speeds were recorded greater than 16 mps (36 mph). Approximately 9.6 percent of wind speeds were greater than 6 mps (13 mph). Wind speeds greater than 10 mps (22 mph) were reported 1.5 percent of the time. During the first quarter 2009, winds from the northwest sector contained the highest average wind speeds at 4.7 mps (10.5 mph). For the second quarter winds from the south and northwest sectors contained the highest average wind speeds at 4.4 mps (9.8 mph). The south and southwest sectors contained the highest average wind speeds in the third quarter at 4.2 mps (9.4 mph). For the fourth quarter, south, north, and north-northwest sectors contained the highest average wind speeds at 3.5 mps (7.8 mph). The highest wind speed measured for the first quarter was 14.3 mps (32.0 mph) that occurred on March 4, 2009 at 12:00; the highest wind speed for the second quarter was 14.3 mps (32.0 mph) on April 8, 2009 at 10:00; the highest wind speed for the third quarter was 17.4 mps (38.9 mph) on August 6, 2009 at 20:00; and the highest wind speed measured for the fourth quarter was 14.6 mps (32.7 mph) on October 28, 2009 at 15:00.

2.2 Stability

Atmospheric stability is a semi-quantitative measure of the mixing capability of the lower atmosphere. Stability classes are typically used as input for dispersion models to assist in calculating ground-level concentration of gaseous or particulate emissions.

Stability classes at the Energy*Solutions* site were computed using the ΔT technique. Hourly σ_θ results and the calculated hourly stability classes are presented in Appendix B.

Pasquill stability classes A, B, and C represent unstable conditions, with Class A being most unstable. Classes E and F represent stable conditions, with Class F being most stable. Class D represents neutral conditions. The stability class data (collected as σ_θ) during the January 2009 through December 2009 period showed 39.3 percent neutral (Pasquill stability class D), 31.3 percent stable (Classes E and F), and 29.4 percent unstable classes (Classes A, B, and C). Using ΔT stabilities, there were 46.0 percent neutral, 25.8 percent stable and 28.2 percent unstable. These data are summarized in Table 2-1.

Table 2-1

Percentage of Occurrence of Stability Categories

	Sigma Theta Method						Delta-T Method					
Month	**A**	**B**	**C**	**D**	**E**	**F**	**A**	**B**	**C**	**D**	**E**	**F**
January 2009	4.8	5.2	5.4	44.3	22.8	17.5	0.0	12.6	7.5	38.1	10.3	31.5
February 2009	10.1	5.4	6.8	40.5	22.5	14.7	0.4	11.5	13.4	41.2	10.1	23.4
March 2009	8.7	5.2	7.3	56.3	13.9	8.6	1.7	9.2	7.4	66.9	4.2	10.6
April 2009	12.3	5.6	9.0	45.5	15.9	11.7	5.2	11.7	9.4	53.7	5.5	14.5
May 2009	19.4	10.1	9.6	39.2	11.2	10.5	8.7	18.6	10.9	47.5	5.8	8.5
June 2009	16.7	9.7	12.1	38.6	11.2	11.7	6.0	17.4	13.9	45.0	5.6	12.1
July 2009	19.4	11.7	12.4	34.5	11.8	10.2	7.0	21.1	14.2	45.9	4.4	7.4
August 2009	22.0	8.9	9.3	34.9	14.0	10.9	7.7	18.3	10.5	50.5	4.7	8.3
September 2009	16.2	6.9	8.8	36.1	13.9	18.1	4.6	16.2	8.6	47.1	8.2	15.3
October 2009	12.4	5.3	6.6	42.6	13.5	19.6	1.5	7.7	12.0	50.1	8.1	20.6
November 2009	15.4	3.9	6.4	27.3	21.4	25.6	0.0	16.2	8.8	33.4	8.3	33.3
December 2009	11.0	4.6	7.8	31.4	16.8	28.4	0.0	13.3	5.0	31.4	19.9	30.4
12-mo Average	14.1	6.9	8.4	39.3	15.7	15.6	3.6	14.5	10.1	46.0	7.9	17.9

2.3 Temperature

Ambient daily average temperatures ranged from a low of -17.7°C in December 2009 to a high of 29.9°C in July 2009. The hourly minimum was -24.5°C on December 9, 2009 and the hourly maximum was 38.4° C on July 23, 2009. Hourly averages of the temperature data are given in Appendix C and these data are summarized in Table 2-2.

Table 2-2

Temperatures in Degrees Celsius

Month	Monthly Mean	Lowest Daily Average Temperature	Highest Daily Average Temperature	Minimum Hour	Maximum Hour
January 2009	-1.4	-11.9	4.4	-15.6	10.1
February 2009	1.4	-4.5	9.1	-12.0	15.6
March 2009	4.8	-2.3	14.5	-11.3	22.4
April 2009	8.8	0.9	18.9	-5.7	26.4
May 2009	16.7	9.2	22.8	2.6	32.9
June 2009	18.6	13.2	26.3	5.3	36.1
July 2009	25.6	20.2	29.9	10.3	38.4
August 2009	23.2	16.2	29.6	6.9	36.7
September 2009	19.7	7.8	25.9	0.1	33.2
October 2009	7.8	0.1	14.7	-7.4	26.3
November 2009	1.2	-6.9	11.1	-14.1	22.6
December 2009	-9.0	-17.7	-0.6	-24.5	7.0
12-month	9.8	-17.7	29.9	-24.5	38.4

2.4 Pan Evaporation

Pan evaporation measurements were made from April 27, 2009 through October 6, 2009 when ambient air temperatures remained above freezing. Pan evaporation data, by month, are provided in Appendix D. Table 2-3 presents the monthly total, daily maximum, and hourly maximums for pan evaporation. The total evaporation for April 27 through October 6, 2009, was 50.9 inches (1294 mm).

A site visit was conducted on April 20, 2009 to service and audit the evaporation pan. The results of the audit indicated that the gauge was working properly and was within the EPA recommended tolerance.

On October 6, 2009, a performance audit was conducted on the evaporation pan and the results of the audit indicated that the gauge was working properly and was within EPA's recommended tolerance.

Table 2-3

Pan Evaporation in Millimeters

Month	Monthly Total	Daily Maximum	Hourly Maximum
April 2009 [1)]	22	6.3	1.3
May 2009	250	12.6	2.2
June 2009	196	13.9	2.2
July 2009	347	14.7	2.0
August 2009	290	21.1	2.3
September 2009	181	13.1	1.9
October 2009 [2)]	8	3.1	0.5
Total/Maximum	1294 (50.9 in.)	21.1	2.3

1) Evaporation measurements began on April 27, 2009.
2) Evaporation measurements ended on October 6, 2009.

2.5 Precipitation

The total precipitation at the site for the period January 2009 through December 2009 was 205.91 mm (8.1 inches). Precipitation data for the Clive site show that for the current year (2009), precipitation rates were above average. Precipitation data for Dugway, Utah, indicate a total of 130.0 mm (5.12 inches) of precipitation for the current year. The month with the greatest total of precipitation recorded at Clive was April 2009 when a total of 49.97 mm (1.97 inches) fell. The day which recorded the greatest amount of precipitation was April 16, 2009 when 15.72 mm (0.62 inches) fell. The greatest amount of precipitation during any one hour was on June 17, 2009 at 20:00 when 5.58 mm (0.22 inches) fell. Appendix E presents the precipitation data for the period. Table 2-4 presents the monthly precipitation totals, and the daily and hourly maximums.

Table 2-4

Precipitation in Millimeters

Month	Monthly Total	Daily Maximum	Hourly Maximum
January 2009	26.38	8.63	2.29
February 2009	21.81	6.59	2.29
March 2009	7.86	2.80	1.02
April 2009	49.97	15.72	4.06
May 2009	16.23	7.36	4.57
June 2009	33.50	15.24	5.59
July 2009	1.26	0.76	0.76
August 2009	1.52	1.01	0.76
September 2009	12.17	6.86	3.56
October 2009	19.27	8.38	2.29
November 2009	1.27	1.02	0.51
December 2009	14.67	6.86	1.27
Total/Maximum	205.91	15.72	5.59

2.6 Solar Radiation

The hourly maximum solar radiation recorded at the site occurred on June 30, 2009 and was 1.13 kilowatts per square meter (kW/m^2). Solar radiation data are presented in Appendix F. Table 2-5 presents the monthly mean and hourly maximum solar radiation data.

Table 2-5

Solar Radiation in Kilowatts Per Square Meter

Month	Monthly Mean	Hourly Maximum
January 2009	0.23	0.57
February 2009	0.30	0.75
March 2009	0.37	0.89
April 2009	0.43	1.01
May 2009	0.51	1.06
June 2009	0.47	1.13
July 2009	0.53	1.06
August 2009	0.50	1.05
September 2009	0.45	0.93
October 2009	0.35	0.82
November 2009	0.28	0.62
December 2009	0.20	0.54

3.0 QUALITY ASSURANCE

Energy*Solutions*' Quality Assurance Plan requires semi-annual calibration verification checks of wind speed and direction, precipitation, and evaporation sensors to protect the integrity and value of the data.

3.1 Calibration Verification Checks

Independent calibration verification checks were performed April 20, 2009 and October 6, 2009 to assure the meteorological instruments were performing according to manufacturers' specifications. The calibration verification checks on Energy*Solutions* instrumentation were performed in accordance with EPA's Quality Assurance Handbook for Air Pollution Measurement Systems, Vol. IV: Meteorological Measurements, March 1995 and EPA's Ambient Monitoring Guidelines for Prevention of Significant Deterioration, May 1987.

Both calibration verification checks showed that the instruments were properly calibrated and were working within Prevention of Significant Deterioration (PSD) specifications.

3.2 Data Recovery

Data recoveries for the period January 2009 to December 2009 are provided in Table 3-1.

Table 3-1

Data Recovery Energy*Solutions*

January 2009 to December 2009

Month	Wind Speed	Wind Dir	Sigma Theta	Temp	ΔT	Pan Evap	Prcp	SR
January 2009	100	100	100	100	100	----	100	100
February 2009	100	100	100	100	100	----	100	100
March 2009	99.9	99.9	99.9	99.9	99.9	----	99.9	99.9
April 2009	99.3	99.3	99.3	99.3	99.3	100 [1)]	100	100
May 2009	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
June 2009	100	100	100	100	100	100	93.5	100
July 2009	100	100	100	100	100	100	100	100
August 2009	100	100	100	100	100	100	100	100
September 2009	100	100	100	100	100	100	100	100
October 2009	99.3	99.3	99.3	99.3	99.3	100 [2)]	100	100
November 2009	100	100	100	100	100	----	100	100
December 2009	100	100	100	100	100	----	100	100
12-month	99.9	99.9	99.9	99.9	99.9	100	99.5	100

---- No data recorded

1) Partial month - measurements began on April 27, 2009

2) Partial month – measurements ended on October 6, 2009

All parameters achieved 90% data acquisition or better. In fact, all parameters measured at the site recorded a data recovery in excess of 99% for the year. Pan evaporation is not recorded during winter months due to sub-freezing temperatures at the site.

3.3 Station Maintenance

On April 20, 2009, MSI conducted calibration verification checks on wind speed, wind direction, temperature, solar radiation sensors, precipitation gauge and evaporation pan at the Clive meteorological station. The results of the calibration verification checks indicated that the sensors appeared to be operating properly and the data acquisition system was reporting and storing data within manufacturer tolerances and EPA approved guidelines. On October 6, 2009, MSI conducted calibration verification checks on wind speed, wind direction, temperature, solar radiation sensors, precipitation gauge and evaporation pan at the Clive meteorological station. The results of the calibration verification checks indicated that the sensors appeared to be operating properly and the data acquisition system was reporting and storing data within manufacturer tolerances and EPA approved guidelines.

4.0 17-YEAR DATA SUMMARY

This section of the report summarizes the Clive meteorological data from the period of January 1993 through December 2009. This 17-year data period represents the period with the most recent concurrent on- and off-site meteorological data. Figures are presented as discussed in the following subsections.

4.1 Wind Speed and Horizontal Wind Direction

Figure 4.1 provides a diagram of the joint frequency of occurrence distributions (wind roses) of wind speed and wind direction for the 17-year period. Appendix G contains the 17-year joint frequency of occurrence distributions.

For the 17-year period, the most frequent (and predominant) winds were from the east-northeast (12.8%) followed by the south-southwest (12.6%). Reported wind directions represent the directions from which the wind is blowing.

Wind speed records show a low percentage (1.4%) of calm winds and a fairly small percentage of strong winds. For the period, 9.5 percent of wind speeds were greater than 6 mps (13 mph) and 1.2 percent was greater than 10 mps (22 mph). This pattern was also true for the individual years. Most of the stronger wind speeds occurred in the dominant wind directions. The average wind speed for the 17-year period was 3.2 mps (7.2 mph). The maximum measured wind speed for the 17-year period was 30 mps (67.1 mph) on January 22, 1993.

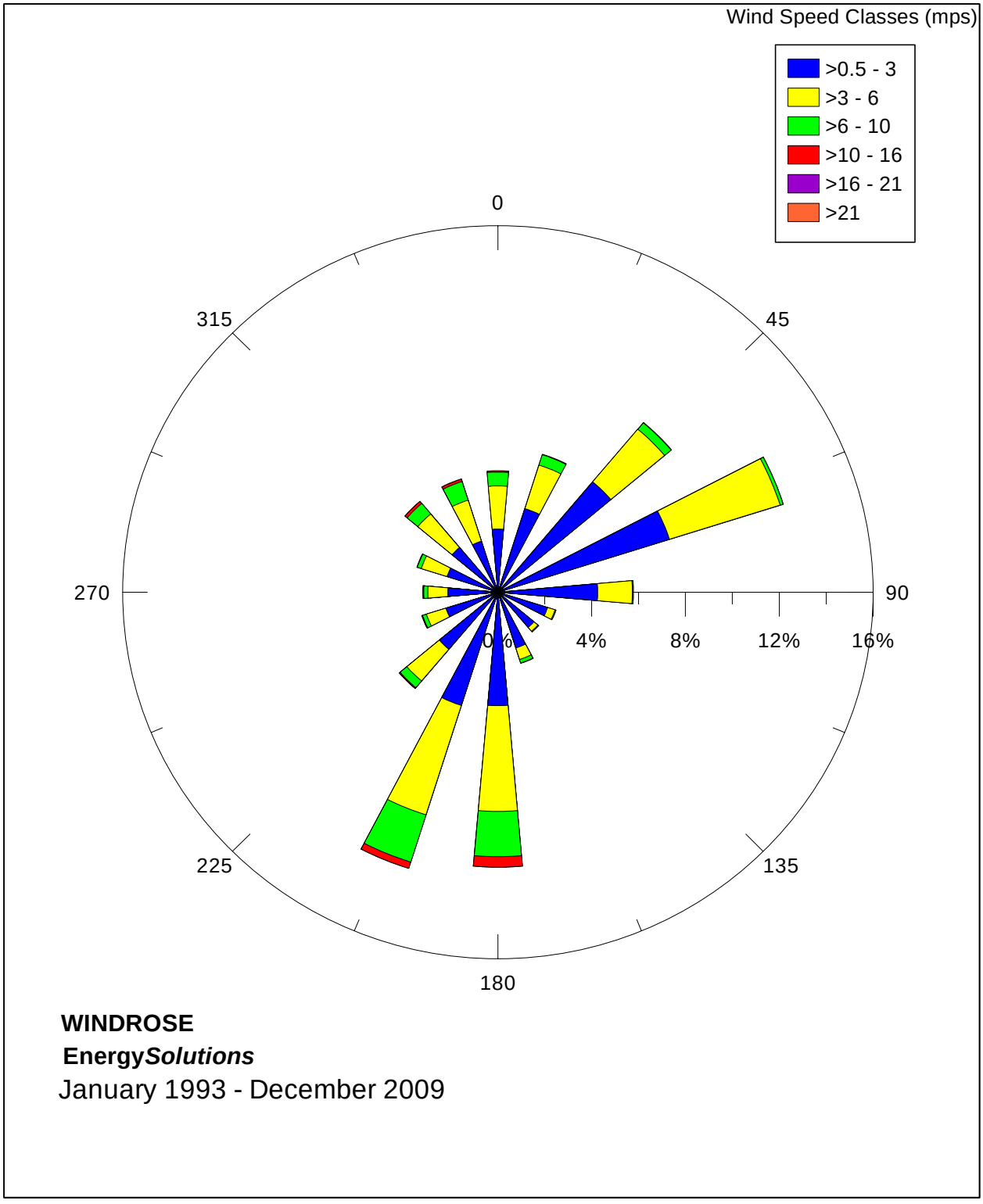

Figure 4.1 Energy*Solutions* Wind Rose January 1993 – December 2009

4.2 Stability

Stability classes at the Energy*Solutions* site were computed using the ΔT technique. Pasquill stability classes A, B, and C represent unstable conditions, with Class A being most unstable. Classes E and F represent stable conditions, with Class F being most stable. Class D represents neutral conditions. The stability class data (collected as σ_θ) during the July 1993 – December 2009 period showed 35.0 percent neutral (Pasquill stability class D), 29.4 percent stable (Classes E and F), and 35.9 percent unstable classes (classes A, B, and C). These data are summarized in Table 4-1. Using ΔT stabilities, there were 44.8 percent neutral, 26.0 percent stable and 29.2 percent unstable. These data are summarized in Table 4-2.

Table 4-1

Stability Class Summary (Percentage of Occurrence)

Sigma Theta Method

Period	A	B	C	D	E	F
July 1993 – Dec. 1993	12.1	12.3	14.6	26.9	14.5	19.6
Jan. 1994 – Dec. 1994	12.0	12.2	14.4	33.1	14.1	14.2
Jan. 1995 – Dec. 1995	10.4	11.4	14.7	32.7	15.2	15.6
Jan. 1996 – Dec. 1996	10.7	11.4	14.4	34.8	14.1	14.6
Jan. 1997 – Dec. 1997	10.6	11.8	14.5	32.9	14.6	15.6
Jan. 1998 – Dec. 1998	10.8	11.9	14.9	31.6	15.6	15.2
Jan. 1999 – Dec. 1999	10.7	11.7	14.7	31.6	15.0	16.3
Jan. 2000 – Dec. 2000	10.9	11.1	14.5	33.8	14.9	14.8
Jan. 2001 – Dec. 2001	12.3	12.1	14.4	31.6	13.9	15.7
Jan. 2002 – Dec. 2002	11.5	12.1	14.9	32.1	15.2	14.2
Jan. 2003 – Dec. 2003	10.9	9.9	12.7	38.9	16.9	10.7
Jan. 2004 – Dec. 2004	17.5	7.9	9.8	37.8	11.1	15.9
Jan. 2005 – Dec. 2005	15.5	7.9	11.4	38.4	12.1	14.7
Jan. 2006 – Dec. 2006	16.0	8.6	10.4	38.2	11.5	15.3
Jan. 2007 – Dec. 2007	16.3	8.0	10.8	36.3	13.1	15.5
Jan. 2008 – Dec. 2008	14.3	6.5	8.4	38.9	15.3	16.6
Jan. 2009 - Dec. 2009	14.1	6.9	8.4	39.3	15.7	15.6
17-Year	12.8	10.4	12.7	35.0	14.3	15.1

Table 4-2

Stability Class Summary (Percentage of Occurrence)

Delta-T Method

Period	A	B	C	D	E	F
Jan. 1993 – Dec. 1993	2.5	12.3	16.6	45.9	11.0	11.7
Jan. 1994 – Dec. 1994	2.0	12.8	15.5	45.2	11.5	13.0
Jan. 1995 – Dec. 1995	1.3	11.5	15.6	44.8	12.0	14.8
Jan. 1996 – Dec. 1996	1.9	12.3	14.6	46.5	11.4	13.3
Jan. 1997 – Dec. 1997	1.8	11.3	14.7	44.7	12.3	15.2
Jan. 1998 – Dec. 1998	2.1	10.5	16.2	43.4	12.7	15.1
Jan. 1999 – Dec. 1999	1.8	11.0	15.7	42.5	13.1	15.9
Jan. 2000 – Dec. 2000	1.8	11.4	15.4	44.8	12.0	14.6
Jan. 2001 – Dec. 2001	1.9	12.1	15.8	42.2	12.2	15.8
Jan. 2002 – Dec. 2002	2.3	12.6	16.6	40.1	12.5	15.9
Jan. 2003 – Dec. 2003	2.1	13.2	14.2	43.2	10.5	16.8
Jan. 2004 – Dec. 2004	3.1	15.6	11.1	45.7	11.2	13.3
Jan. 2005 – Dec. 2005	2.3	14.0	11.9	46.3	7.6	17.9
Jan. 2006 – Dec. 2006	2.8	14.8	12.2	46.0	6.3	17.9
Jan. 2007 – Dec. 2007	3.0	15.2	11.3	47.5	5.6	17.4
Jan. 2008 – Dec. 2008	3.2	14.3	10.4	47.6	7.3	17.2
Jan. 2009 - Dec. 2009	3.6	14.5	10.1	46.0	7.9	17.9
17-year	2.3	12.9	14.0	44.8	10.4	15.6

4.3 Temperature

Table 4-3 presents a mean temperature for the 17-year period of 10.8°C. The hourly minimum temperature during the 17-year period was -25.5°C on January 14, 2007 and the hourly maximum temperature was 41.3°C on June 21, 1999. Table 4-4 presents a comparison of 17-year monthly average temperatures to the January 2009 – December 2009 monthly average temperature data.

Table 4-3

17-Year Temperature Summary in Degrees Celsius

Period	Mean Temp	Minimum Daily Temp	Maximum Daily Temp	Minimum Hourly Temp	Maximum Hourly Temp
Jan. 1993 - Dec. 2009	10.8	-18.8	32.7	-25.5	41.3

Table 4-4

Comparison of 17-Year Monthly Mean Temperature Data to

Monthly Mean Temperatures from January – December 2009

Month	17-Year Average	2009 Average
January	-1.6	-1.4
February	0.2	1.4
March	5.2	4.8
April	9.5	8.8
May	15.7	16.7
June	20.9	18.6
July	26.4	25.6
August	24.9	23.2
September	18.3	19.7
October	10.1	7.8
November	2.8	1.2
December	-2.4	-9.0

As seen from Table 4-4, temperatures during 2009 were in general agreement with the 17-year means.

4.4 Pan Evaporation

Pan evaporation measurements began as early as April and continued through October when ambient air temperatures began to fall below freezing. Evaporation data for July through October 1999, April through June 2000, and April through October 2004 were not usable due to instrument malfunction. Maximum hourly evaporation values normally occur in July. Figure 4.2 presents the monthly mean evaporation values based on valid available data for the months of April through October. The annual average evaporation at the Clive station, based on fifteen years of valid monthly data (1993 - 1998, 2001 - 2003, and 2005 - 2009), is 52.23 inches. Figure 4.3 presents the average annual evaporation using fifteen years of valid data.

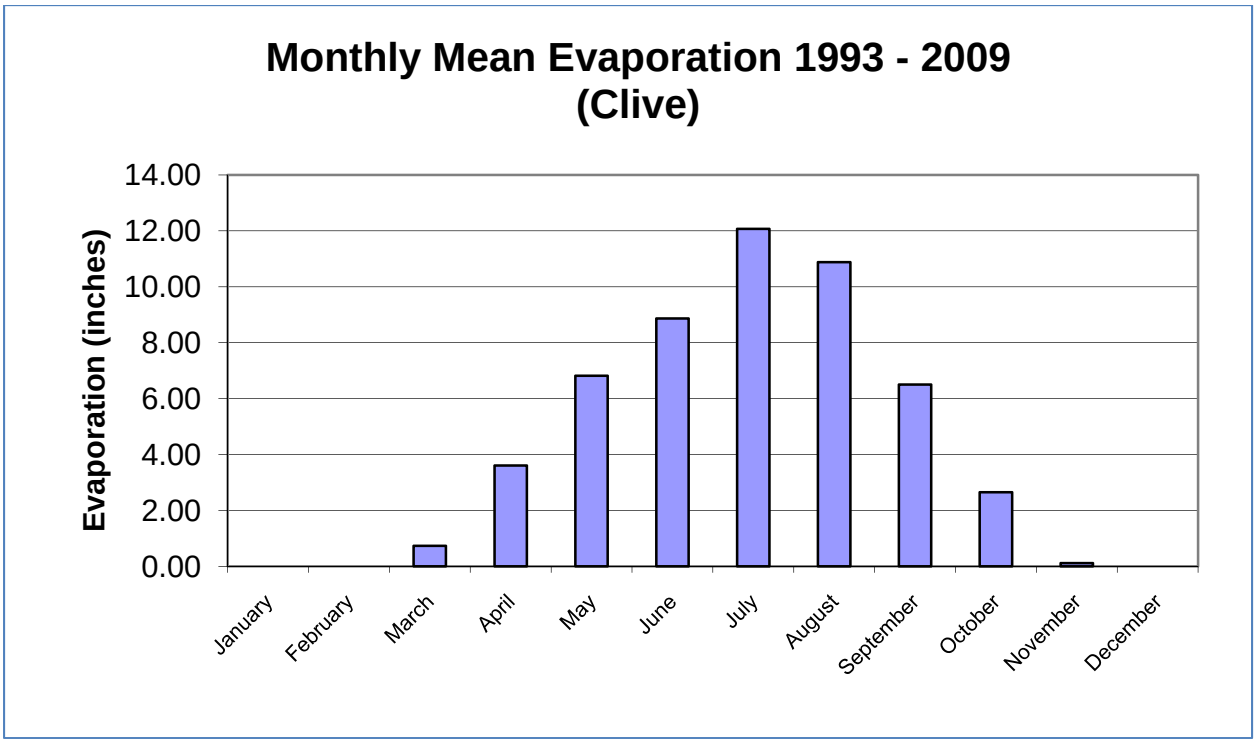

Figure 4.2 Monthly Mean Evaporation Based on Valid Data

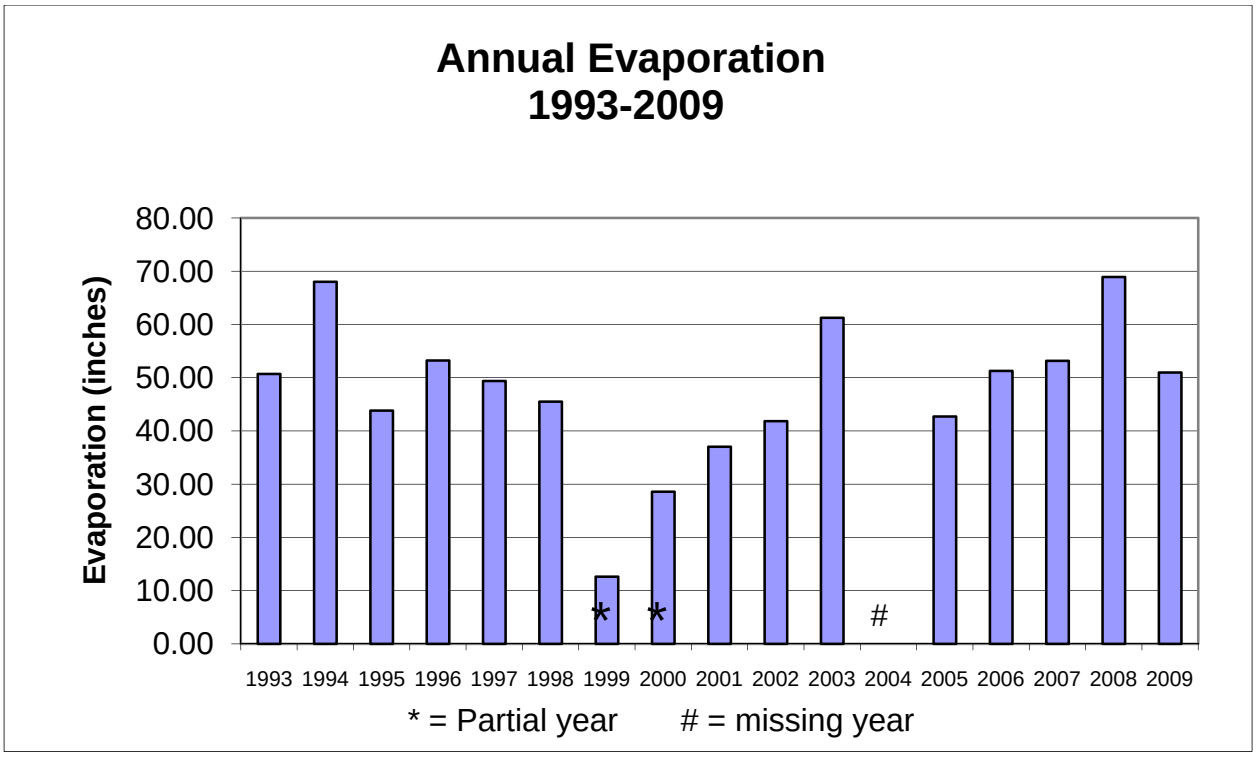

Figure 4.3 Mean Annual Evaporation Based on Valid Data

Note: In Figure 4.3, data for July through October 1999 and April through June 2000 are missing

4.5 Precipitation

Precipitation data from the Clive monitoring site were missing from November 8, 2002 through April 28, 2003. The 17-year climatological averages were used for these missing data. These months were excluded from the 17-year climatology statistics. Excluding the 2002-2003 data, a total of approximately 136 inches of rain fell at the site during the last sixteen years, which equates to 8.53 inches per year. This value is very close to climatological precipitation values from near-by long-term precipitation monitoring locations. The lowest monthly total of 0.00 inches was observed in May 2001, and was the only month without precipitation recorded for the last sixteen years. May 2005 had the highest monthly total of 2.94 inches.

During performance audits, artificial amounts of precipitation are introduced into the gauge. These audit inputs were removed from the data set. In addition, corrected precipitation data recorded from January 1993 to December 1995 were used in this report. The details of this correction were contained in a February 23, 1996 letter submitted to the Utah Division of Radiation Control. Table 4-5 presents a summary of the precipitation data.

Table 4-5

Summary of Precipitation in Inches at Clive

January 1993 – December 2009

Year	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1993	1.17	0.39	0.67	0.17	0.99	0.70	0.03	0.10	0.27	0.78	0.33	0.18	5.78
1994	0.13	0.63	1.14	1.66	0.79	0.02	0.06	0.39	0.51	0.89	1.91	0.22	8.35
1995	0.95	0.78	1.74	0.44	2.58	1.88	0.17	0.04	0.15	0.06	0.24	0.78	9.81
1996	1.31	0.78	0.88	0.91	1.90	0.29	1.10	0.01	0.41	0.69	0.60	0.77	9.65
1997	1.56	0.87	0.17	1.42	0.98	2.36	1.19	0.32	0.90	0.47	0.72	0.60	11.56
1998	0.71	2.21	1.67	1.63	1.04	2.69	0.43	0.28	0.52	1.94	0.10	0.32	13.54
1999	0.81	0.64	0.46	2.65	0.41	1.84	0.06	0.68	0.12	0.04	0.13	0.18	8.02
2000	1.31	1.87	0.23	0.38	0.53	0.10	0.07	1.05	0.15	1.92	0.15	0.44	8.20
2001	0.21	0.55	1.48	1.17	0.00	0.52	0.13	0.25	0.22	0.20	1.25	0.81	6.79
2002	0.50	0.07	0.44	1.36	0.57	0.08	0.24	0.01	0.52	0.95	0.50[1]	0.51[1]	5.75[2]
2003	0.79[1]	0.86[1]	0.85[1]	1.18[1]	0.91	0.12	0.03	0.45	0.21	0.17	0.62	1.27	7.46[2]
2004	0.06	1.30	0.43	1.98	0.60	0.19	0.35	0.57	0.99	1.50	0.91	0.18	9.06
2005	1.15	1.09	0.93	1.29	2.94	0.92	0.01	0.60	0.09	0.40	0.36	0.38	10.16
2006	0.82	0.25	1.58	1.24	0.51	0.33	0.32	0.58	0.35	0.94	0.25	0.22	7.39
2007	0.35	1.15	1.27	0.55	0.45	1.32	0.78	0.07	0.89	0.49	0.04	0.93	8.29
2008	0.50	0.26	0.24	0.13	0.33	0.42	0.01	0.19	0.08	0.46	0.36	0.22	3.20
2009	1.04	0.86	0.31	1.97	0.64	1.32	0.05	0.06	0.48	0.76	0.05	0.58	8.12
17-yr average	0.79[3]	0.86[3]	0.85[3]	1.18[3]	0.95	0.89	0.30	0.33	0.40	0.74	0.50[3]	0.51[3]	8.53

[1] Monthly totals based on 16-year climatological average.
[2] Annual total based on valid data and 15-year climatological averages.
[3] Average is based on 16 years of annual precipitation totals (excludes 2002 and 2003 climatological averages).

4.6 Solar Radiation

Figure 4.4 presents monthly average solar radiation in Langleys per day for the 17-year period. The maximum solar radiation occurs in June and averages approximately 674 Langleys per day.

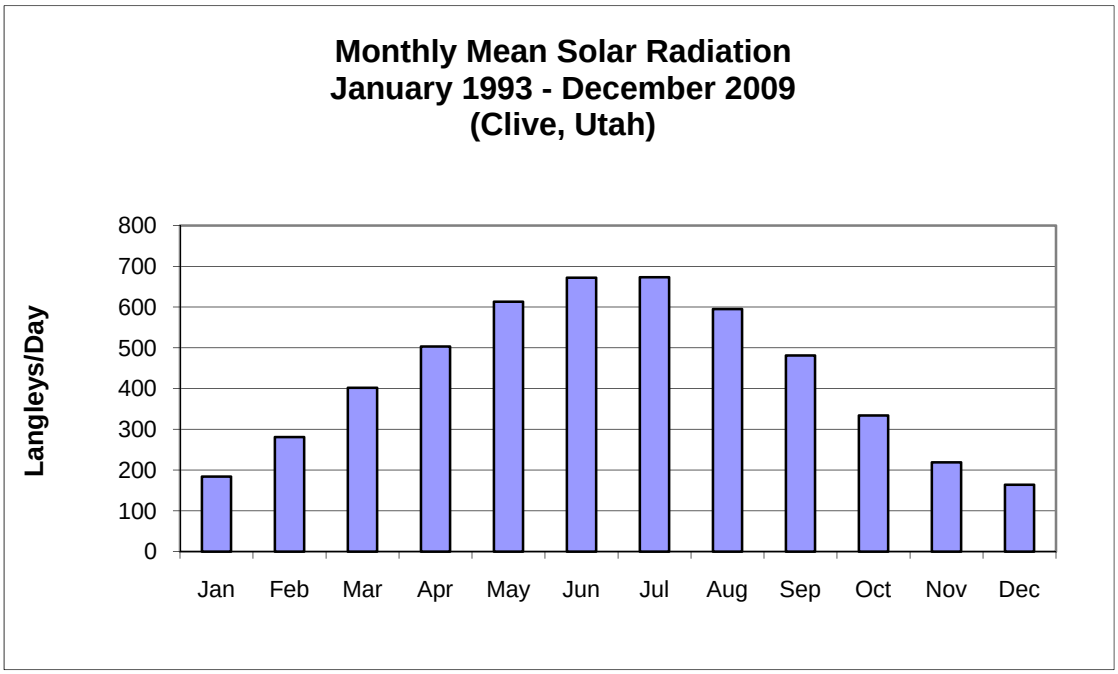

Figure 4.4 17-Year Monthly Mean Solar Radiation in Langleys Per Day

5.0 COMPARISON OF JANUARY 2009 – DECEMBER 2009 DATA WITH 17-YEAR ON-SITE DATA (JANUARY 1993 – DECEMBER 2009)

This section of the report compares the on-site meteorological data for the most recent year (January through December 2009) to the 17-year on-site data set.

5.1 Wind Speed and Horizontal Wind Direction

Comparison of the most recent year of data and the 17-year on-site data set shows that wind speed and direction for both data sets were very similar. For the most recent year wind speeds averaged 3.2 mps (7.2 mph), while for the 17-year period wind speeds averaged 3.2 mps (7.2 mph). Calm winds accounted for 2.1% of the total winds measured during the most recent year, while for the 17-year period they accounted for 1.4%. The prevailing wind directions from both data sets generate similar summary wind roses as presented in Figures 2.6 and 4.1. The most common wind directions for both data periods are from the east-northeast, south and south-southwest.

5.2 Stability Class

Comparison of the most recent year stability class data (Table 2-1) with the 17-year data set (Tables 4-1 and 4-2) shows that for stability class derived from both the σ_θ and ΔT methods the resultant stability class distributions are similar. Comparison of the ΔT stability class distribution from both data sets show that all stability classes (A, B, C, D, E, and F) were within five percent of each class.

5.3 Temperature

On-site temperature data for the most recent year (Table 2-2) were compared to the 17-year on-site data set (Table 4-3). The mean temperature for the 17-year period was 10.8°C, while for the most recent year the mean temperature was 9.8°C, making January - December 2009 slightly cooler than average. The highest hourly temperature recorded during the 17-year data period was 41.3°C on June 21, 1999 compared to the highest hourly temperature of 38.4°C on July 23, 2009 for the most recent year. The lowest hourly temperature recorded during the 17-year data period was -25.5°C on January 14, 2007, and the lowest hourly temperature during the most recent year was -24.5°C on December 9, 2009. The highest average daily temperature (24-hour value) in the 17-year data period was 32.7°C on July 17, 2003 compared to the highest average daily temperature of 29.9°C on July 18, 2009 for the most recent year. The lowest average daily temperature in the 17-year data period was -18.8°C on January 14, 2007 compared to the lowest daily temperature of -17.7°C on December 25, 2009 for the most recent year.

5.4 Pan Evaporation

Pan evaporation data for the most recent year were compared to fifteen years of valid on-site evaporation data. The 15-year mean evaporation was 52.23 inches, while the evaporation for the most recent year (January – December 2009) was 50.9 inches.

5.5 Precipitation

On-site monthly total precipitation data collected during the most recent data year were compared to the 17-year on-site average monthly values. Clive precipitation data for November 2002 through April 2003 were not usable and, therefore, were not included as part of the mean average precipitation. Monthly precipitation data recorded during the most recent year were very close to the 17-year average.

5.6 Solar Radiation

On-site solar radiation data collected during the most recent data year were compared to the 17-year on-site values. In general, solar radiation values were close to the 17-year averages. The mean daily solar radiation of 435 Langleys measured during the most recent data year is approximately 2% higher than the 17-year average value of 427 Langleys.

6.0 COMPARISON WITH OFF-SITE CLIMATOLOGICAL DATA

This section of the report addresses the on-site meteorological data with respect to long-term off-site data to determine whether the meteorological assumptions made during the original infiltration and unsaturated zone modeling were representative of actual site conditions.

6.1 Wind Speed and Horizontal Wind Direction

There were no wind speed and wind direction monitoring locations within a 25-mile radius which MSI could deem wholly representative of the Clive facility.

In MSI's professional opinion, wind data from the Clive site appear reasonable for the region and are inherently representative of wind conditions at the site. Bi-annual calibration verifications of the meteorological sensors have been performed since site inception. These verifications independently verify the accuracy of the measured data.

6.2 Temperature

On-site monthly mean temperature data were compared to Dugway temperature data for the 17-year period. Figure 6.1 presents the mean annual temperature values for the 1993 through 2009 period for the Clive and Dugway sites. Figure 6.2 presents monthly average temperature values for both sites for the 17-year period of record. Also presented in this figure are the long-term monthly average temperature values for Dugway from 1950 through 2009. As seen from these figures, the temperature data compare well between the two sites and the monthly averages agree with long-term climatological values.

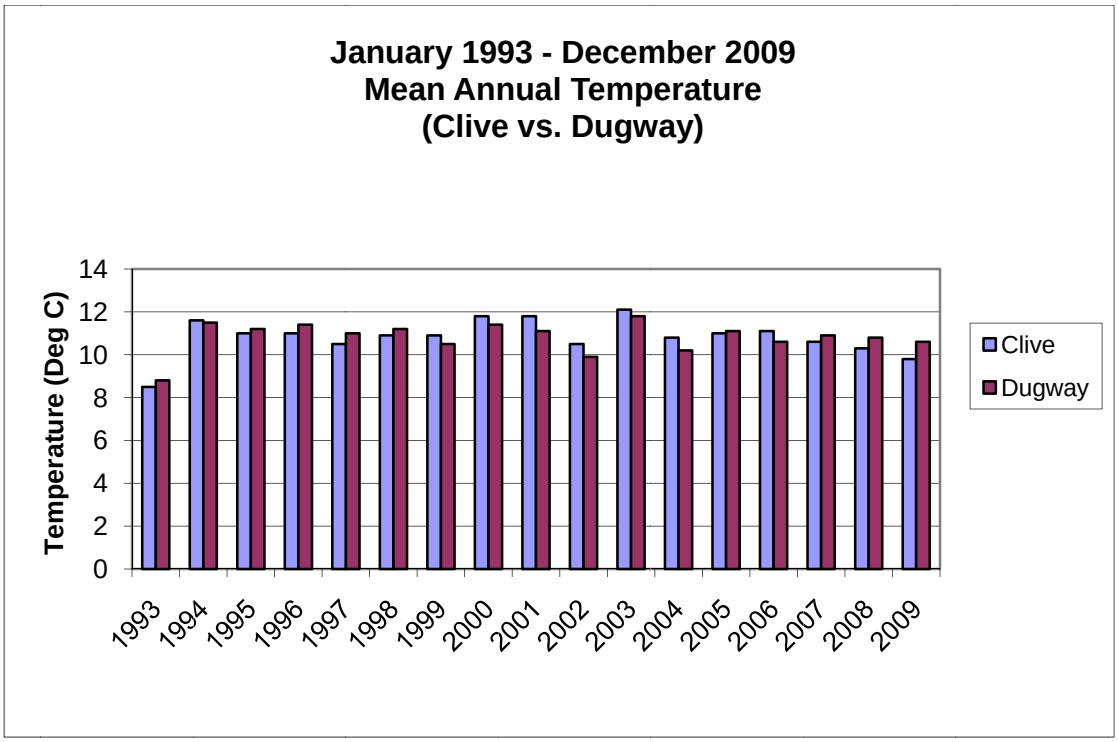

Figure 6.1 January 1993 – December 2009 Mean Annual Temperature (Clive vs. Dugway)

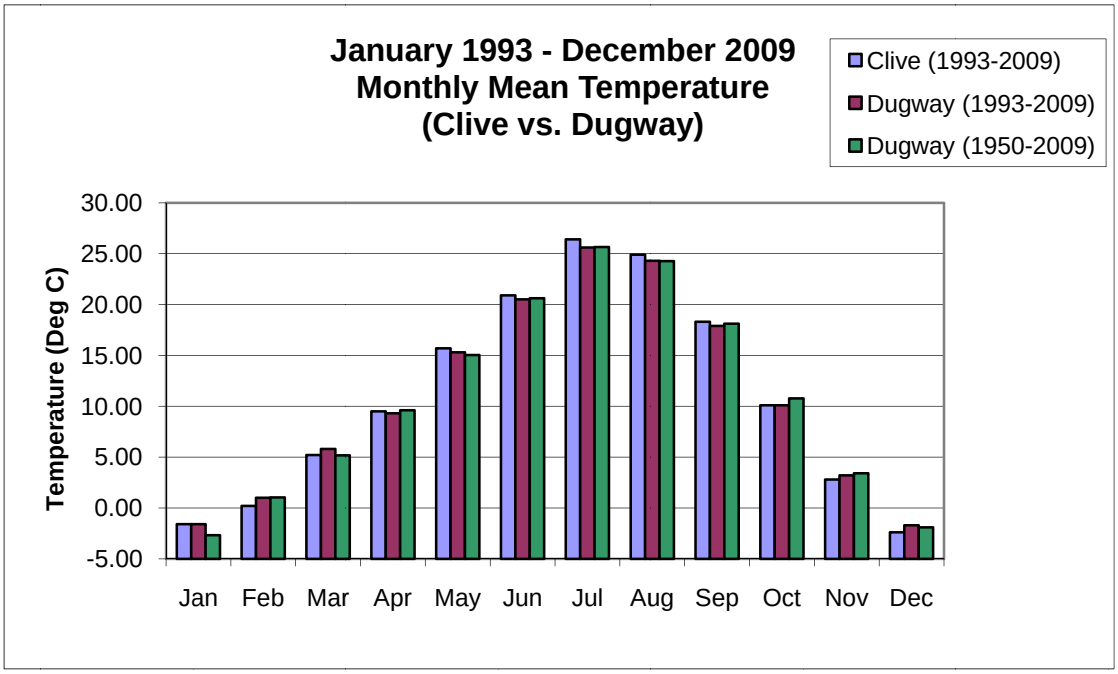

Figure 6.2 January 1993 – December 2009 Monthly Mean Temperature (Clive vs. Dugway)

6.3 Pan Evaporation

On-site pan evaporation data were compared to Fish Springs, Utah evaporation data. Fish Springs data are available from 1963 - 1977 and, therefore, no concurrent data are available. Climatologically, Fish Springs shows an average annual evaporation of approximately 58 inches (see Figure 6.3). Of the seventeen years of Energy*Solutions* evaporation available for this report only fifteen years could be used. During the fifteen available years, the annual evaporation at Energy*Solutions* was approximately 52.23 inches. Annual variations in evaporation can be significant as shown at Fish Springs (Figure 6.3) in which evaporation ranged from 39 to 70 inches per year. Much of this variation can depend upon when evaporation measurements began and ended during each measurement year.

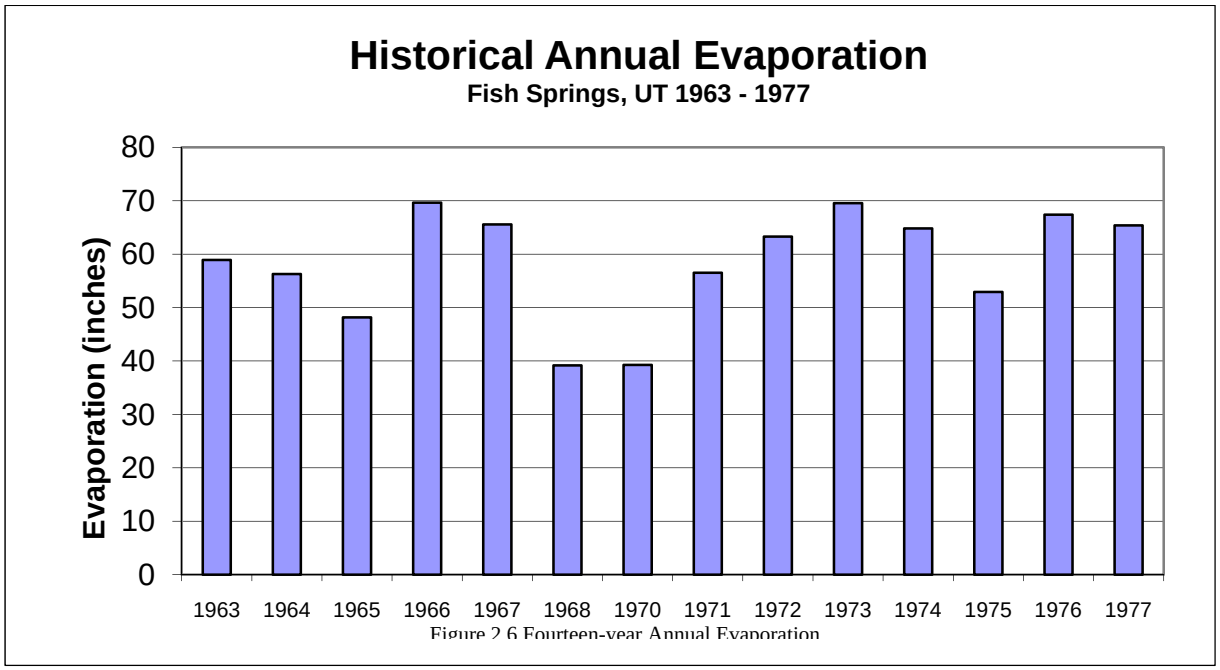

Figure 2.6 Fourteen-year Annual Evaporation

Figure 6.3 Fish Springs Historical Evaporation Data

6.4 Precipitation

On-site monthly total precipitation data were compared to Dugway precipitation data for the 17-year period. Figure 6.4 presents the annual precipitation values for the 1993 through 2009 period for the Clive and Dugway sites. Figure 6.5 presents monthly average precipitation values for both sites for the 17-year period of record. Only sixteen years of data were used in the mean statistics. Clive precipitation data for November 2002 through April 2003 were not usable due to low data recovery. Also presented in Figure 6.5 are the long-term monthly average precipitation values for Dugway from 1950 through 2009. In general, precipitation data from the two sites compare well and the monthly and annuals totals are close to long-term climatological values. It should be stated that precipitation totals from individual storms can vary greatly over a short horizontal distance, especially during convective summertime events and, therefore, precipitation comparisons become more meaningful when compared over longer periods.

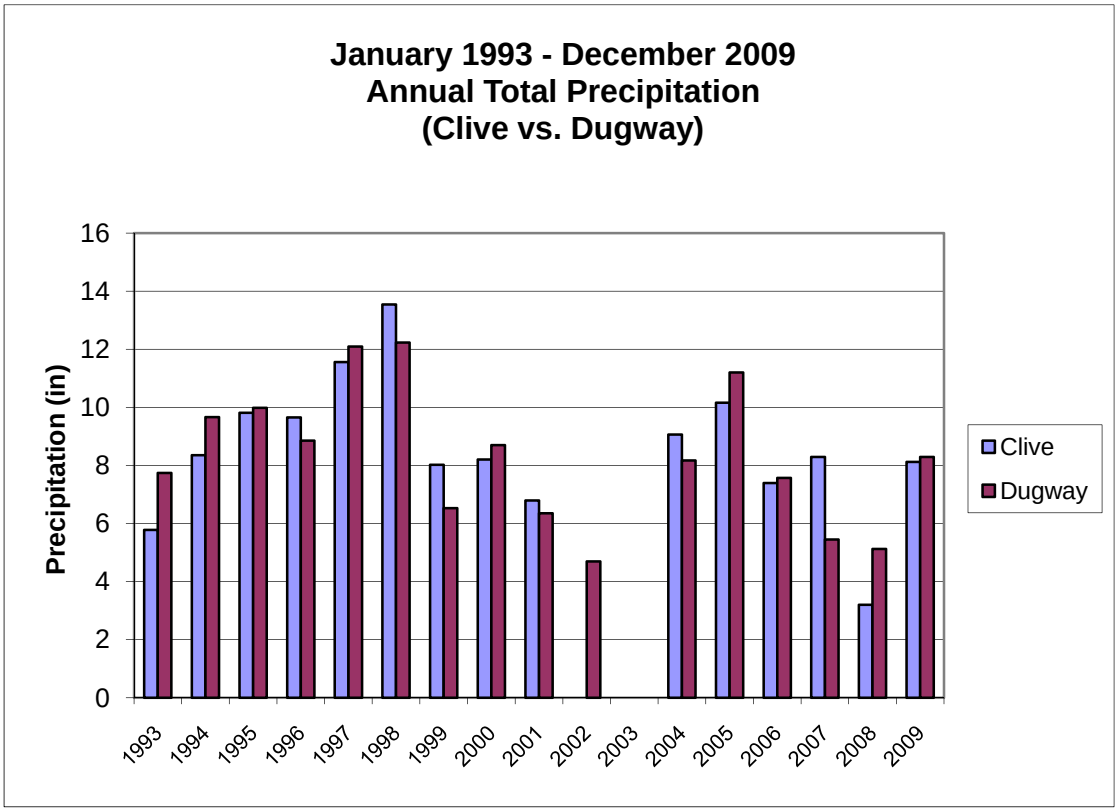

Figure 6.4 January 1993 – December 2009 Annual Total Precipitation (Clive vs. Dugway)

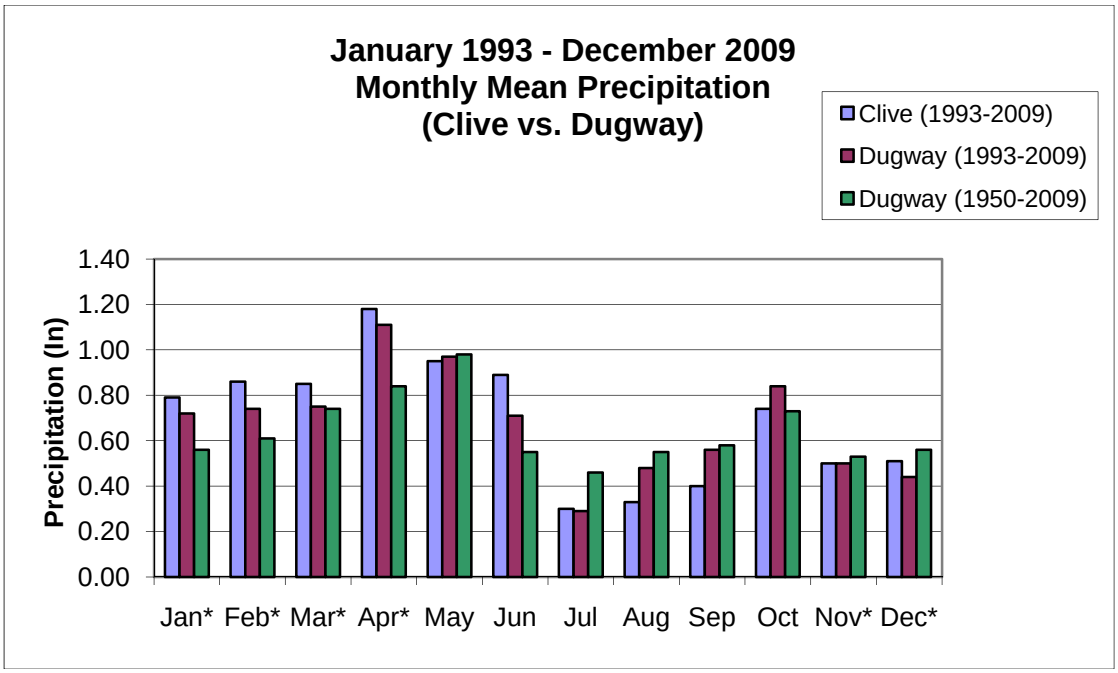

Figure 6.5 January 1993 – December 2009 Monthly Mean Precipitation (Clive vs. Dugway)
* Statistics based on 16 years of data

6.5 Solar Radiation

On-site solar radiation values agreed well with the Climate Atlas of the United States published in 1983. Figure 6.6 is the mean daily solar radiation in Langleys for June from this atlas. The value for northwestern Utah agrees well with the corresponding on-site June value.

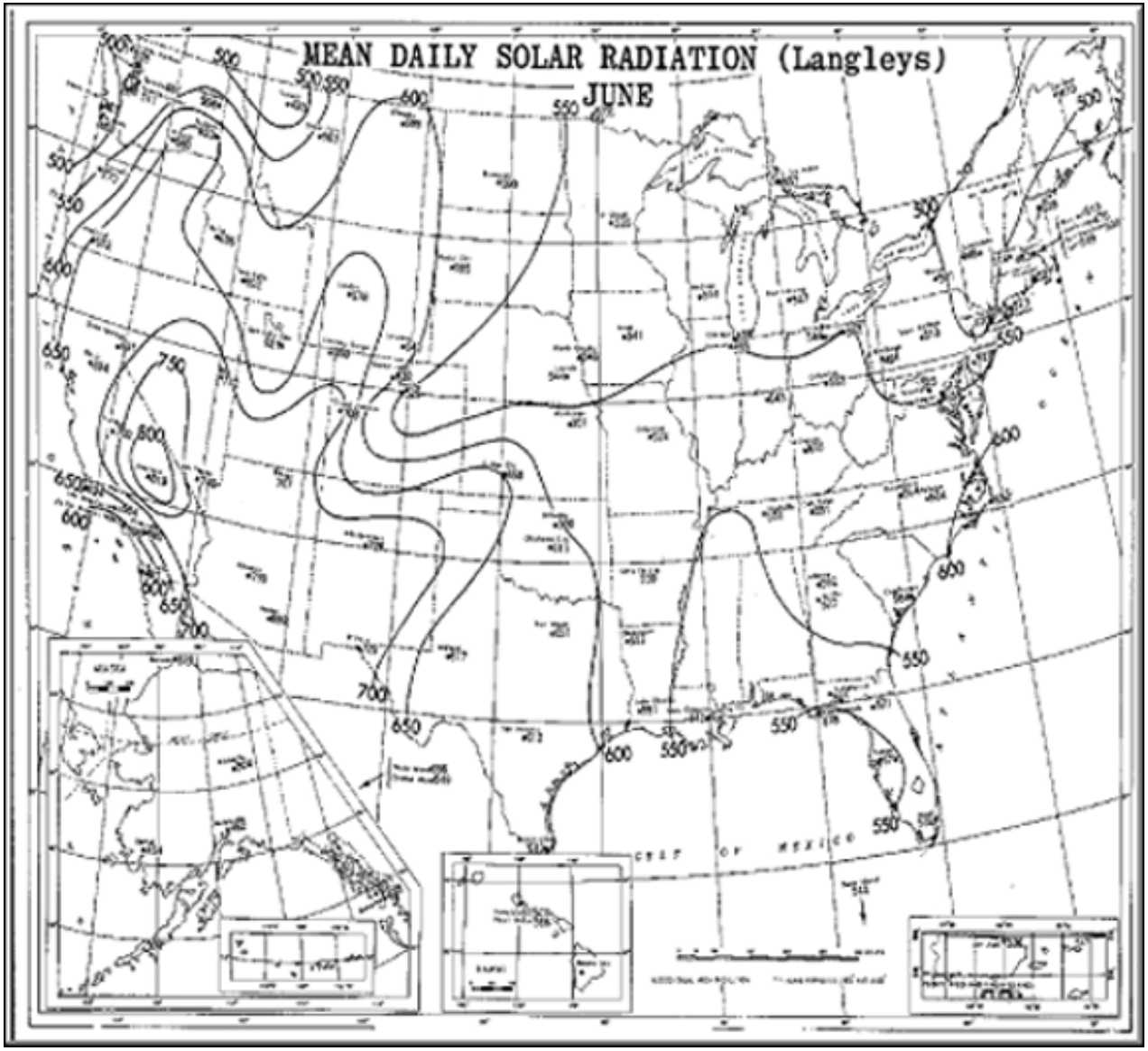

Figure 6.6 Mean Daily Solar Radiation for June

7.0 CONCLUSIONS

Meteorological Solutions Inc. (MSI) compiled and analyzed Energy*Solutions*' on-site meteorological data collected from January 1993 through December 2009. Off-site data comparisons were made with evaporation data at Fish Springs, Utah, and Dugway, Utah temperature and precipitation data. The on-site temperature data from the past seventeen years appear complete and agree well with concurrent Dugway data. The precipitation data, with the exception of six months from November 8, 2002 through April 28, 2003, were complete from the past seventeen years. These data also agreed well with concurrent Dugway data.

The fifteen years of evaporation data that were available from the site show reasonable evaporation amounts suggesting the annual evaporation values are within expected ranges for the site. Some of the variations between the sites can be attributed to the beginning and ending times for each monitoring year.

On-site wind data were not compared to off-site wind data due to the inherent non-transposition of these types of measurements. All sensors at the site, including wind speed, wind direction, temperature, precipitation and evaporation are subjected to National Institute of Standards and Technology (NIST) traceable calibration verifications every six months and, with the exception of the June 1999 evaporation and April 2003 precipitation calibration verifications, have successfully passed these audits. These calibration verifications act to independently confirm the accuracy of the measurements and, therefore, the representativeness of the resultant data.

Given the agreement between the on-site meteorological data and the long-term off-site data, it is reasonable that the meteorological assumptions made during the original infiltration and unsaturated zone modeling were representative of the actual conditions at the site.

8.0 REFERENCES

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Appendix A

Hourly Wind Speed and Direction Data, January 2009 – December 2009

A.1 Hourly Wind Speed/Direction

A.2 Monthly Joint Frequency of Occurrence Distributions of Wind Speeds and Direction

A.3 Quarterly Joint Frequency of Occurrence Distributions of Wind Speeds and Direction - Sigma Theta

A.4 Quarterly Joint Frequency of Occurrence Distributions of Wind Speeds and Direction - Delta-T

A.5 Annual 2008 Joint Frequency of Occurrence Distributions of Wind Speeds and Direction - Sigma Theta

A.6 Annual 2008 Joint Frequency of Occurrence Distributions of Wind Speeds and Direction - Delta-T

Appendix A.1
Hourly Wind Speed/Direction

EnergySolutions - Clive, Utah

WIND DIRECTION and SPEED in MPS for JANUARY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13
01	080/02.8	205/01.4	031/01.4	171/01.0	199/01.5	194/01.8	168/02.4	140/02.0	182/02.3	164/02.3	176/03.0	187/05.9	188/06.8
02	191/05.6	187/05.9	192/05.9	191/06.1	184/05.8	184/07.8	185/06.6	182/06.9	194/05.9	189/05.8	190/06.7	183/06.9	185/09.4
03	336/03.4	324/05.5	328/05.4	339/06.2	350/04.3	076/01.5	039/02.2	029/02.6	054/02.4	067/02.3	019/02.0	058/01.9	006/02.5
04	046/01.9	077/03.5	141/02.4	094/01.7	077/03.0	077/02.9	080/03.0	069/02.9	072/02.1	196/02.7	214/01.7	196/01.1	180/01.7
05	158/01.4	059/02.4	021/02.5	062/01.8	344/01.3	042/00.3	001/00.6	039/01.5	052/01.7	103/02.8	088/01.5	035/01.4	169/01.7
06	175/00.8	043/00.8	031/01.4	076/00.8	062/00.9	021/00.8	054/00.3	080/00.7	081/00.3	010/00.9	206/01.3	188/04.3	172/05.3
07	185/05.4	184/05.2	204/04.6	204/04.7	190/04.3	190/03.0	191/06.2	198/06.0	196/05.8	196/05.2	196/05.3	204/05.0	203/04.7
08	139/01.3	151/01.0	194/01.6	156/01.7	169/01.4	046/01.1	306/01.8	095/01.5	035/00.4	056/01.2	021/01.6	024/01.9	020/02.3
09	340/04.3	354/05.8	022/03.8	040/02.9	001/03.1	336/04.5	320/04.6	323/03.5	323/02.1	276/00.9	344/03.3	348/02.9	029/01.5
10	133/00.3	190/02.0	220/00.9	037/01.2	079/01.2	000/00.0	235/00.2	174/00.7	183/02.3	211/02.2	195/02.8	191/03.7	188/04.3
11	125/01.0	149/01.0	169/02.5	172/01.6	167/01.8	103/01.6	036/01.6	105/01.2	115/01.2	043/00.7	068/01.1	042/01.6	214/01.6
12	201/04.1	215/04.0	191/03.9	144/01.8	061/01.7	008/02.4	327/04.1	266/03.6	192/02.4	187/02.5	195/02.8	183/03.1	176/03.3
13	221/02.4	160/01.8	241/01.1	177/03.2	184/05.3	188/05.5	192/05.3	194/04.9	192/05.3	186/05.5	194/05.4	190/05.9	188/06.3
14	190/01.5	182/01.2	063/01.3	091/00.8	358/00.8	082/00.9	045/02.3	031/01.8	074/00.7	162/00.6	255/00.2	197/01.4	212/00.9
15	018/01.9	218/02.3	143/01.5	030/02.3	039/02.9	065/02.5	124/01.3	154/00.4	306/00.4	211/00.8	210/01.4	203/01.9	191/01.9
16	082/00.4	057/00.1	207/00.3	357/00.2	116/01.0	215/00.5	172/01.1	043/00.8	260/00.0	213/01.2	191/02.4	195/02.0	232/01.2
17	056/03.3	058/03.5	060/02.6	023/00.8	085/02.4	147/01.3	041/00.5	113/00.8	197/01.1	260/01.9	315/00.4	074/00.5	339/00.9
18	055/03.0	101/01.9	167/01.3	269/00.5	036/01.6	050/02.2	096/02.2	132/00.7	033/00.9	038/00.0	238/01.1	224/00.8	227/00.8
19	033/01.7	037/01.6	098/01.9	161/00.8	030/02.5	008/02.4	078/01.7	174/00.9	286/00.3	177/00.1	224/00.7	225/00.9	237/01.2
20	043/02.4	050/03.0	065/02.9	118/01.7	071/01.9	346/01.0	212/00.5	025/00.1	163/00.0	228/00.2	212/02.3	218/01.7	214/01.3
21	037/00.6	140/01.3	015/00.7	024/01.1	084/00.8	032/01.0	052/00.1	283/00.2	272/00.0	200/00.1	261/00.3	324/00.5	356/00.8
22	091/01.0	011/01.1	357/00.7	320/00.3	036/00.8	331/01.2	265/00.3	021/01.6	315/01.8	027/00.3	295/00.7	007/00.6	019/02.0
23	273/03.9	078/02.1	161/01.3	199/01.6	018/01.3	023/01.6	090/01.4	351/01.5	040/01.3	022/01.5	042/02.5	027/01.5	353/01.2
24	076/01.2	087/02.6	123/01.5	177/00.5	173/01.6	215/02.4	125/02.9	203/02.8	274/01.4	301/00.5	307/01.7	137/01.1	255/02.1
25	215/02.6	338/01.6	148/01.3	194/01.2	210/03.0	265/03.3	236/01.7	153/02.2	197/04.5	194/03.5	158/05.4	171/03.7	220/02.6
26	353/01.4	043/02.2	030/02.5	056/02.9	048/04.4	039/04.9	038/05.1	042/06.1	046/06.3	045/05.5	036/05.0	043/04.7	053/05.2
27	056/03.4	058/02.5	063/01.3	107/01.7	098/02.5	054/01.5	045/00.9	075/01.2	120/00.3	186/00.8	215/01.2	188/01.3	187/02.5
28	185/06.0	187/06.8	189/06.2	193/07.1	193/06.8	192/06.7	191/06.6	196/06.5	199/06.8	194/06.3	200/04.4	193/05.7	189/04.5
29	064/02.9	007/03.5	096/01.9	353/01.1	097/01.5	147/01.4	227/01.4	131/01.5	119/01.1	215/02.5	189/03.1	187/03.7	185/03.1
30	083/01.4	084/01.0	038/01.2	079/02.0	069/03.3	065/02.6	041/02.2	049/01.9	099/01.2	159/01.8	183/01.4	250/01.6	313/00.7
31	131/00.8	112/00.7	040/00.4	048/00.8	041/00.7	221/01.0	077/00.4	017/01.3	129/01.5	248/00.9	200/00.8	196/01.8	232/01.8
MEAN	097/02.4	096/02.6	105/02.2	104/02.0	080/02.4	067/02.3	086/02.3	097/02.3	141/02.1	189/02.0	212/02.4	187/02.6	212/02.8
MX SPD	185/06.0	187/06.8	189/06.2	193/07.1	193/06.8	184/07.8	185/06.6	182/06.9	199/06.8	194/06.3	190/06.7	183/06.9	185/09.4
MN SPD	133/00.3	057/00.1	207/00.3	357/00.2	041/00.7	000/00.0	052/00.1	025/00.1	260/00.0	038/00.0	255/00.2	074/00.5	313/00.7

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

WIND DIRECTION and SPEED in MPS for JANUARY, 2009 PAGE 2

HR END DAY	14	15	16	17	18	19	20	21	22	23	24	MEAN	MX SPD	MN SPD
01	191/06.0	187/06.0	195/04.9	180/06.0	193/06.1	198/06.1	198/05.9	199/06.3	194/05.8	190/05.7	191/05.5	182/04.1	188/06.8	171/01.0
02	182/07.2	191/07.5	239/05.4	265/05.9	314/04.8	355/04.9	082/02.7	004/01.5	333/00.5	355/02.2	344/05.8	204/05.6	185/09.4	333/00.5
03	343/02.7	339/02.9	007/02.9	055/02.6	091/03.0	097/02.8	054/03.0	072/03.8	087/03.6	088/03.7	067/03.0	035/03.2	339/06.2	076/01.5
04	175/01.0	116/00.8	106/01.6	120/01.2	188/01.9	160/01.5	213/01.3	175/02.2	190/03.6	188/01.7	188/01.4	141/02.0	190/03.6	116/00.8
05	194/03.7	202/03.6	163/02.7	135/00.6	092/01.7	051/01.8	071/01.9	357/01.2	059/01.1	090/00.3	060/00.7	072/01.7	194/03.7	042/00.3
06	181/05.4	194/04.9	198/04.6	198/05.0	201/05.0	199/05.7	194/05.6	201/05.9	194/06.1	186/06.8	186/05.7	160/03.3	186/06.8	054/00.3
07	198/05.2	188/05.1	195/04.3	203/02.9	147/01.3	038/00.7	163/01.4	189/01.7	108/01.3	160/01.9	189/02.2	186/03.9	191/06.2	038/00.7
08	008/02.8	077/01.1	180/05.1	182/06.1	215/04.2	348/06.1	356/04.5	057/01.7	140/01.3	009/02.7	351/05.2	066/02.5	182/06.1	035/00.4
09	100/01.3	071/01.7	074/02.5	071/03.3	054/03.1	050/02.4	056/02.4	064/02.2	041/02.0	091/01.5	343/01.9	021/02.8	354/05.8	276/00.9
10	189/04.3	188/04.0	186/03.2	212/02.8	179/02.5	189/03.3	195/02.5	210/01.5	145/01.3	360/00.9	028/00.7	185/02.0	188/04.3	000/00.0
11	176/02.1	180/02.4	111/01.4	090/01.7	102/00.3	113/01.8	197/02.1	171/02.0	196/04.5	194/04.8	188/05.2	138/02.0	188/05.2	102/00.3
12	198/02.8	302/03.9	327/04.0	004/03.5	137/01.7	057/01.2	294/01.6	169/01.6	198/01.9	295/02.6	244/02.3	215/02.8	201/04.1	057/01.2
13	184/06.4	186/06.5	185/05.5	189/03.4	192/03.4	182/04.2	198/04.5	197/04.4	198/04.5	203/03.3	223/01.5	193/04.4	186/06.5	241/01.1
14	192/02.1	186/01.5	182/01.6	186/02.3	190/01.9	128/00.7	067/02.1	062/02.6	087/02.6	261/01.1	012/01.9	134/01.5	062/02.6	255/00.2
15	238/00.5	353/01.0	049/01.1	040/01.0	059/00.9	071/02.7	059/02.2	075/02.7	089/02.2	198/01.2	345/00.4	085/01.6	039/02.9	154/00.4
16	207/01.8	169/00.6	017/01.2	079/00.6	306/01.3	046/01.9	064/02.3	074/02.1	087/02.1	073/03.8	064/03.4	113/01.3	073/03.8	260/00.0
17	004/01.3	004/01.6	359/01.5	003/01.6	045/02.0	059/01.2	080/02.1	080/02.7	071/02.2	086/00.7	048/01.4	049/01.6	058/03.5	315/00.4
18	208/01.6	212/00.8	341/00.6	024/01.5	354/00.3	299/01.4	065/01.9	061/01.3	085/00.7	117/01.2	101/01.2	073/01.2	055/03.0	038/00.0
19	236/01.1	276/01.0	291/00.6	274/01.4	285/02.2	320/01.4	187/00.4	069/00.6	066/02.5	082/03.3	065/01.8	290/01.4	082/03.3	177/00.1
20	168/01.3	168/01.1	171/00.9	053/00.7	021/01.4	090/01.5	101/00.8	037/01.1	077/02.5	073/02.5	089/01.1	101/01.4	050/03.0	163/00.0
21	307/00.5	333/00.7	345/01.0	354/01.0	289/01.1	028/00.4	031/01.2	029/01.4	021/02.2	047/01.9	035/02.6	004/00.9	035/02.6	272/00.0
22	049/02.7	020/01.5	314/01.9	337/02.8	339/02.0	019/00.9	013/02.1	041/02.7	291/01.1	246/00.8	147/02.0	355/01.4	337/02.8	320/00.3
23	023/00.4	338/00.1	324/00.2	341/02.2	011/02.6	012/01.8	054/03.6	066/04.7	062/04.3	073/04.4	068/03.5	030/02.1	066/04.7	338/00.1
24	277/01.3	006/00.5	021/00.9	346/01.4	076/02.0	088/02.7	094/03.0	079/02.7	189/01.1	180/00.9	192/02.5	145/01.7	094/03.0	177/00.5
25	088/02.9	248/01.9	191/03.2	179/03.6	202/03.0	200/03.1	345/05.9	309/03.7	203/00.7	317/03.1	339/01.1	211/02.9	345/05.9	203/00.7
26	056/06.0	045/05.1	054/06.2	053/06.0	036/06.1	026/07.0	028/06.5	023/05.4	019/05.0	010/04.3	039/03.8	038/04.9	026/07.0	353/01.4
27	181/02.9	182/03.4	193/04.0	193/03.5	181/02.5	197/03.9	192/04.6	186/06.5	187/07.2	188/07.8	190/07.1	157/03.1	188/07.8	120/00.3
28	201/04.3	188/02.9	198/03.2	201/02.1	155/02.2	272/01.7	320/01.6	331/02.6	342/02.3	353/04.4	008/02.8	205/04.6	193/07.1	320/01.6
29	179/02.0	188/02.7	217/02.5	208/02.4	223/01.3	099/01.1	078/02.5	056/03.0	073/04.5	072/03.9	062/03.1	135/02.4	073/04.5	353/01.1
30	218/00.2	308/00.3	336/00.8	024/01.2	345/01.4	091/02.0	076/02.4	076/03.5	070/03.2	059/03.0	045/02.5	058/01.8	076/03.5	218/00.2
31	195/02.2	167/02.0	179/01.3	162/00.9	255/00.5	355/01.2	076/02.3	070/02.3	028/02.1	080/02.8	025/01.8	114/01.3	080/02.8	040/00.4
MEAN	192/02.8	199/02.6	200/02.6	122/02.6	156/02.4	067/02.6	081/02.8	075/02.8	100/02.8	096/02.9	057/02.7	120/02.5		
MX SPD	182/07.2	191/07.5	054/06.2	182/06.1	193/06.1	026/07.0	028/06.5	186/06.5	187/07.2	188/07.8	190/07.1		185/09.4	
MN SPD	218/00.2	338/00.1	324/00.2	135/00.6	102/00.3	028/00.4	187/00.4	069/00.6	333/00.5	090/00.3	345/00.4			000/00.0

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 120/02.5 MAXIMUM WIND SPEED WAS 9.4 MPS AT 185 DEGREES ON 1/ 2 AT 1300

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

WIND DIRECTION and SPEED in MPS for FEBRUARY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13
01	025/00.8	268/00.2	108/00.4	034/01.8	050/02.4	309/01.2	119/00.8	125/01.2	251/01.5	007/00.6	029/01.5	061/01.6	036/01.5
02	136/01.1	262/00.5	304/00.1	221/01.7	323/00.8	169/00.3	096/01.5	080/01.8	077/00.9	000/00.0	266/01.1	257/01.3	180/02.3
03	064/03.5	048/02.6	048/02.5	075/03.3	064/03.4	031/01.5	087/01.9	013/01.0	215/01.1	238/00.7	230/01.9	200/01.7	247/00.9
04	202/02.2	211/02.7	208/02.8	187/04.1	066/02.2	027/02.8	161/01.7	342/00.6	015/01.0	002/00.6	235/00.4	230/01.2	331/00.9
05	152/01.6	064/01.8	048/02.2	053/02.4	052/00.6	040/01.5	356/01.2	112/01.7	141/01.0	290/00.4	218/01.0	214/01.1	095/00.9
06	144/01.6	257/01.2	079/01.5	305/01.5	133/02.2	191/04.5	218/02.9	186/02.3	162/03.9	169/03.7	192/03.4	170/01.5	176/02.2
07	069/03.9	063/03.8	045/02.0	305/00.7	051/02.8	054/01.3	036/02.5	030/03.8	046/04.1	034/04.4	094/03.2	063/02.0	023/03.3
08	065/03.3	061/02.9	077/01.8	054/02.3	122/01.9	084/01.5	210/01.3	225/01.8	195/02.6	212/03.0	187/04.3	206/04.2	190/05.1
09	194/06.3	185/06.3	182/05.5	179/05.0	177/05.5	184/04.4	185/05.5	176/07.2	172/06.5	168/05.9	160/03.0	179/00.6	032/01.8
10	359/02.5	353/05.7	329/05.4	321/06.3	341/03.7	344/01.2	360/02.1	343/02.4	335/05.6	358/03.8	348/02.6	344/05.1	355/04.1
11	171/02.9	186/04.3	215/02.5	211/03.1	191/03.9	222/03.8	212/04.0	210/02.4	295/01.1	300/01.2	004/01.3	114/01.2	195/04.4
12	056/02.3	060/03.7	064/03.2	071/02.9	082/02.2	053/01.6	041/01.7	075/03.1	054/03.9	041/03.5	018/04.2	039/03.0	039/02.6
13	154/02.1	184/03.0	189/03.6	232/00.7	094/01.0	143/01.5	114/01.4	017/01.3	009/01.2	060/01.7	076/01.1	195/03.1	165/02.3
14	243/01.9	162/02.5	235/02.1	265/01.8	290/01.4	329/01.0	308/01.3	298/02.2	246/02.2	206/02.6	188/03.3	184/03.9	184/04.9
15	007/00.6	357/00.6	071/01.0	062/02.3	035/02.1	032/01.9	028/02.3	038/02.0	061/01.9	068/02.1	059/02.8	070/02.6	063/03.7
16	090/01.1	094/01.4	031/00.5	005/00.6	023/02.2	358/02.0	074/01.5	054/01.0	225/00.3	000/00.0	045/01.5	030/01.1	067/01.4
17	184/07.5	184/06.4	196/04.8	196/05.5	198/07.8	193/08.0	181/06.3	188/04.9	191/06.7	200/05.9	225/05.2	238/05.7	251/04.5
18	172/02.2	193/02.8	193/04.3	187/03.3	199/03.2	203/03.7	194/03.4	197/02.5	210/02.6	190/03.9	201/04.4	205/04.2	195/04.2
19	190/02.0	072/01.4	006/00.5	178/00.5	169/00.5	025/00.8	165/00.9	190/01.4	170/01.6	212/03.2	194/03.0	204/03.0	205/03.2
20	178/00.7	050/00.6	003/01.0	041/01.4	058/01.6	008/01.8	010/00.9	038/01.9	022/00.9	010/00.6	243/01.2	181/01.4	207/02.3
21	068/03.5	103/02.1	068/04.1	075/03.2	082/02.7	128/02.3	172/02.5	197/02.6	199/01.5	224/01.3	215/00.9	262/00.8	001/00.7
22	066/01.0	104/01.6	052/01.2	057/00.7	183/00.8	242/01.0	054/02.3	070/03.2	078/03.1	054/03.7	007/02.1	263/01.6	082/00.4
23	160/00.4	044/01.2	156/00.7	324/02.3	101/02.8	358/01.4	071/01.3	043/02.1	007/01.6	034/01.3	052/01.1	059/01.0	096/01.1
24	197/04.2	181/05.1	192/07.1	193/06.2	190/06.5	191/07.1	194/06.4	198/05.0	199/04.6	190/06.4	193/06.9	193/07.0	199/06.2
25	113/01.1	069/02.3	097/01.5	136/02.4	109/00.9	067/02.9	100/02.1	333/01.4	074/01.5	179/03.0	210/04.1	197/05.1	206/03.9
26	077/02.2	100/02.5	208/00.6	339/01.3	117/00.9	183/01.2	183/02.8	185/02.8	191/05.2	191/04.6	191/08.5	197/09.7	214/09.6
27	033/05.6	037/05.0	041/05.1	028/04.9	015/06.7	044/04.0	022/04.2	005/04.1	008/04.0	351/05.4	350/03.9	354/01.7	020/02.9
28	059/02.1	157/01.6	083/01.5	117/00.3	186/00.9	024/00.5	079/00.8	050/00.7	023/00.3	356/00.6	308/00.7	276/00.8	273/01.0
MEAN	118/02.5	106/02.7	090/02.5	074/02.6	099/02.6	052/02.4	110/02.4	078/02.4	140/02.6	269/02.6	214/02.8	201/02.8	163/02.9
MX SPD	184/07.5	184/06.4	192/07.1	321/06.3	198/07.8	193/08.0	194/06.4	176/07.2	191/06.7	190/06.4	191/08.5	197/09.7	214/09.6
MN SPD	160/00.4	268/00.2	304/00.1	117/00.3	169/00.5	169/00.3	119/00.8	342/00.6	225/00.3	000/00.0	235/00.4	179/00.6	082/00.4

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

WIND DIRECTION and SPEED in MPS for FEBRUARY, 2009 PAGE 2

HR END DAY	14	15	16	17	18	19	20	21	22	23	24	MEAN	MX SPD	MN SPD
01	055/01.6	323/01.6	328/02.1	021/01.3	031/01.4	058/01.7	031/02.2	072/02.6	063/02.3	058/02.9	073/02.8	039/01.6	058/02.9	268/00.2
02	200/01.6	198/01.5	203/00.9	296/00.6	051/00.2	004/00.2	054/03.2	074/03.1	068/04.1	071/04.5	071/04.1	116/01.6	071/04.5	000/00.0
03	321/00.3	343/00.4	321/00.9	002/01.1	017/02.6	055/02.6	061/03.5	061/03.2	063/03.1	054/02.7	101/02.5	040/02.0	064/03.5	321/00.3
04	332/00.9	038/00.5	340/00.6	313/00.9	304/02.3	054/01.7	069/02.5	074/03.4	044/02.9	070/03.6	092/03.6	018/01.9	187/04.1	235/00.4
05	334/00.9	091/00.5	070/02.6	078/03.9	009/02.7	357/02.0	075/01.4	015/01.6	186/01.8	049/02.9	027/01.3	059/01.6	078/03.9	290/00.4
06	189/01.7	143/00.5	075/00.3	318/00.9	027/01.1	061/03.3	084/03.4	061/03.8	066/02.4	074/03.7	070/04.8	133/02.4	070/04.8	075/00.3
07	033/05.1	042/05.7	036/05.9	025/05.4	032/05.3	008/03.4	033/02.7	052/02.8	077/01.8	049/01.4	054/03.0	043/03.3	036/05.9	305/00.7
08	198/06.1	199/05.5	198/04.8	183/04.9	182/07.9	187/06.8	182/07.0	187/07.4	175/06.8	182/06.8	185/05.8	175/04.4	182/07.9	210/01.3
09	095/01.7	050/01.6	029/02.1	036/03.0	148/04.9	174/07.5	189/02.8	140/01.6	132/00.4	068/00.8	209/00.5	156/03.8	174/07.5	132/00.4
10	351/03.2	301/02.7	189/02.8	164/03.6	158/03.4	172/03.5	170/03.1	155/02.3	162/01.9	180/01.9	190/01.6	331/03.4	321/06.3	344/01.2
11	222/04.1	241/03.1	269/02.2	341/01.5	052/01.3	078/03.8	072/03.7	066/03.9	060/03.6	075/03.9	064/02.9	187/02.9	195/04.4	295/01.1
12	045/02.0	030/02.5	050/03.3	043/02.8	039/03.0	033/02.2	061/01.9	065/01.1	069/02.6	088/02.9	101/03.0	055/02.7	018/04.2	065/01.1
13	043/03.0	003/02.9	022/02.1	162/01.9	129/02.9	146/01.5	173/04.5	154/03.5	149/02.9	183/01.6	195/02.9	138/02.2	173/04.5	232/00.7
14	178/05.1	165/04.6	177/05.2	179/04.0	199/03.5	192/02.5	185/04.0	178/02.5	277/01.0	360/01.9	012/01.7	220/02.8	177/05.2	329/01.0
15	071/04.1	071/04.3	067/04.1	153/03.0	076/03.8	073/04.9	073/05.2	056/04.2	063/04.3	072/04.3	078/02.3	060/02.9	073/05.2	007/00.6
16	076/03.0	066/03.3	080/02.8	072/02.0	025/02.4	036/01.8	034/01.5	144/01.4	172/04.6	181/06.3	197/06.5	064/02.1	197/06.5	000/00.0
17	282/04.4	276/04.9	285/04.5	305/03.5	329/02.2	046/03.2	069/03.5	084/02.6	058/01.1	054/00.7	212/00.6	212/04.6	193/08.0	212/00.6
18	223/02.5	295/02.7	298/02.6	271/02.3	253/01.9	210/00.9	131/01.3	170/00.9	282/01.0	277/00.9	145/00.7	210/02.6	201/04.4	145/00.7
19	190/03.2	192/03.8	184/03.3	200/02.7	244/01.6	047/01.7	081/04.4	071/04.5	070/03.1	078/01.9	071/02.1	157/02.3	071/04.5	006/00.5
20	221/02.5	238/02.1	263/00.6	248/00.9	239/01.8	238/01.6	114/01.3	069/01.4	058/03.6	075/04.0	072/03.5	038/01.7	075/04.0	050/00.6
21	280/00.9	318/01.3	346/00.8	296/01.2	327/01.8	043/02.5	058/03.1	066/03.9	061/03.6	071/03.7	146/01.8	070/02.2	068/04.1	001/00.7
22	192/00.6	266/00.7	320/01.1	336/00.9	020/01.2	308/02.2	004/01.8	060/02.3	079/02.0	084/01.1	102/01.2	049/01.6	054/03.7	082/00.4
23	210/02.0	205/04.5	214/04.9	208/04.2	296/02.1	335/02.4	051/03.5	041/02.2	319/00.5	350/01.0	189/04.5	042/02.1	214/04.9	160/00.4
24	221/03.9	219/03.2	228/02.4	272/02.4	332/01.7	010/03.2	074/03.9	078/04.3	061/03.3	058/04.5	072/03.0	188/04.8	192/07.1	332/01.7
25	223/02.7	261/03.1	298/06.1	268/05.2	281/04.9	323/03.5	035/02.1	062/03.1	058/03.6	079/03.2	089/03.5	101/03.1	298/06.1	109/00.9
26	237/08.4	249/08.4	253/08.0	268/08.7	282/06.3	320/06.9	019/05.1	042/05.7	037/06.6	034/06.2	028/05.9	209/05.3	197/09.7	208/00.6
27	042/02.1	015/02.2	032/03.1	033/04.6	037/05.3	042/03.8	051/03.8	062/03.8	069/03.6	065/03.6	062/03.6	031/04.0	015/06.7	354/01.7
28	315/01.4	299/01.9	304/03.1	332/03.5	339/03.9	060/02.5	049/03.4	061/02.7	065/03.3	074/02.1	085/01.8	029/01.7	339/03.9	117/00.3
MEAN	240/02.8	289/02.9	315/03.0	309/02.9	357/03.0	040/03.0	073/03.2	081/03.1	075/02.9	071/03.0	099/02.9	083/02.8		
MX SPD	237/08.4	249/08.4	253/08.0	268/08.7	182/07.9	174/07.5	182/07.0	187/07.4	175/06.8	182/06.8	197/06.5		197/09.7	
MN SPD	321/00.3	343/00.4	075/00.3	296/00.6	051/00.2	004/00.2	131/01.3	170/00.9	132/00.4	054/00.7	209/00.5			000/00.0

POSSIBLE NUMBER OF OBSERVATIONS = 672 ACTUAL NUMBER OF OBSERVATIONS = 672 DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 083/02.8 MAXIMUM WIND SPEED WAS 9.7 MPS AT 197 DEGREES ON 2/26 AT 1200

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

WIND DIRECTION and SPEED in MPS for MARCH, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13
01	063/00.9	071/00.9	072/01.7	177/00.9	312/00.9	025/01.2	043/02.4	045/01.5	120/00.8	331/00.7	246/01.0	234/00.6	277/00.7
02	239/00.9	136/01.4	118/01.5	179/01.0	337/01.4	151/01.4	309/01.6	053/01.7	013/01.6	012/01.2	037/00.8	342/01.6	356/01.3
03	186/08.8	185/10.6	191/08.3	189/08.2	189/07.3	195/05.2	216/03.6	215/04.1	197/05.5	196/07.4	194/10.2	196/12.2	199/12.9
04	187/05.7	177/06.8	177/06.0	176/05.6	185/03.8	195/05.0	199/05.7	219/05.1	187/03.4	197/09.0	201/13.6	208/14.3	223/12.0
05	176/03.8	190/03.9	176/04.7	184/04.7	196/05.1	183/05.0	180/05.5	185/05.2	182/05.4	184/06.3	188/07.0	200/06.8	185/06.2
06	178/03.1	184/04.5	183/04.5	185/03.4	190/02.2	182/03.2	189/03.6	183/03.4	227/01.5	207/01.7	207/02.9	213/03.2	188/03.9
07	023/02.8	006/03.9	011/03.3	038/02.4	356/03.2	158/00.4	095/01.9	082/02.4	076/01.6	105/01.9	140/02.8	170/03.2	183/02.6
08	169/04.0	192/04.6	183/04.3	193/02.3	206/03.1	199/03.1	191/03.0	183/03.6	198/04.8	195/07.3	193/08.6	194/08.6	192/08.0
09	041/04.9	036/05.5	040/07.9	045/08.0	027/05.6	037/06.1	037/06.0	036/06.5	038/05.5	035/04.7	360/04.0	339/06.6	004/04.0
10	158/01.6	185/01.7	232/01.8	189/04.2	188/04.1	186/04.1	178/05.1	178/04.9	185/05.2	184/05.3	193/05.1	203/03.5	230/03.3
11	069/03.3	060/01.8	335/00.8	062/01.0	077/03.2	075/03.6	054/02.0	077/01.9	185/00.8	241/00.9	225/01.2	014/01.0	325/00.9
12	048/02.9	047/03.2	054/04.1	064/04.5	048/05.1	030/05.0	040/04.4	041/04.3	032/05.1	036/07.6	046/06.9	049/05.8	051/04.3
13	040/04.3	033/02.5	049/03.3	033/04.0	062/04.6	019/01.9	058/02.5	067/02.4	038/03.0	318/02.1		317/01.6	240/00.9
14	191/01.2	185/01.7	225/01.5	063/00.9	041/01.4	035/02.0	100/00.7	247/00.5	356/00.3	052/00.3	307/00.9	204/01.8	242/02.1
15	092/02.3	225/01.3	264/00.6	190/00.3	053/00.5	185/03.2	257/03.3	091/02.1	096/01.7	173/02.1	185/02.4	219/03.4	230/04.2
16	199/04.2	192/05.6	184/05.9	185/05.5	198/05.1	204/03.8	202/03.7	208/04.2	188/05.1	186/05.7	186/07.9	187/10.1	189/10.6
17	186/03.7	186/04.3	184/04.9	194/05.2	196/04.8	207/03.6	229/01.6	086/02.2	209/01.6	056/00.8	197/02.5	259/03.9	263/03.5
18	057/06.0	055/05.7	057/05.1	060/04.7	059/03.4	066/03.5	075/03.5	091/01.7	026/01.0	044/01.8	278/01.0	299/01.2	266/01.4
19	042/03.0	071/03.1	078/04.2	067/03.5	154/01.3	170/00.4	079/01.3	150/01.4	153/00.9	067/00.9	194/01.8	198/03.3	200/03.7
20	073/03.9	061/02.9	042/02.5	126/02.7	185/01.6	142/01.4	197/00.8	344/01.3	228/00.8	210/01.9	194/03.5	212/02.1	223/01.3
21	204/02.1	126/02.8	208/01.8	180/04.5	188/05.3	198/03.7	354/01.2	036/02.1	074/01.5	201/04.2	186/08.9	190/11.0	191/10.3
22	263/02.7	173/02.5	165/03.1	138/03.5	122/01.7	109/01.2	190/01.9	195/04.1	187/05.9	192/06.1	188/08.7	301/11.3	321/13.8
23	305/03.5	324/05.7	323/09.5	319/08.7	321/07.8	311/08.0	315/07.2	323/05.9	322/07.3	322/08.3	319/10.2	321/10.4	319/10.5
24	023/02.5	080/01.9	077/03.3	073/03.4	059/02.4	051/01.6	200/02.3	192/02.5	199/02.0	191/02.5	218/01.3	317/04.0	341/03.1
25	137/03.0	184/03.5	192/03.4	158/03.2	162/02.5	176/04.1	189/04.3	199/04.3	206/04.1	200/04.6	223/04.0	296/02.5	286/02.8
26	318/06.4	317/07.2	306/07.8	310/09.0	341/08.9	343/06.1	321/09.9	327/09.6	352/04.7	006/04.4	021/07.5	010/07.3	023/07.9
27	044/02.0	036/02.7	018/02.9	069/02.8	062/01.7	058/01.8	066/01.2	163/00.6	121/01.6	199/01.5	242/01.9	259/01.4	292/02.1
28	182/02.5	266/00.5	184/01.2	298/01.5	305/01.1	014/00.6	155/00.7	256/01.2	179/04.4	191/06.3	191/08.6	193/07.4	197/06.0
29	185/09.9	185/11.2	184/11.2	191/09.9	190/09.5	193/08.4	203/07.3	311/11.6	338/12.0	319/08.3	278/02.7	321/06.7	287/06.6
30	314/10.5	313/11.2	321/12.3	319/10.8	318/09.5	318/08.5	322/07.5	326/07.1	343/04.8	327/07.3	335/08.2	339/06.4	337/03.6
31	186/03.8	189/04.2	192/04.9	183/05.2	190/05.4	196/04.6	197/04.2	204/04.5	193/05.8	189/06.3	190/07.2	189/06.2	197/05.7
MEAN	137/03.9	143/04.2	161/04.5	145/04.4	142/04.0	148/03.6	171/03.5	151/03.7	164/03.5	197/04.2	214/05.1	248/05.5	251/05.2
MX SPD	314/10.5	185/11.2	321/12.3	319/10.8	190/09.5	318/08.5	321/09.9	311/11.6	338/12.0	197/09.0	201/13.6	208/14.3	321/13.8
MN SPD	063/00.9	266/00.5	264/00.6	190/00.3	053/00.5	158/00.4	100/00.7	247/00.5	356/00.3	052/00.3	037/00.8	234/00.6	277/00.7

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

WIND DIRECTION and SPEED in MPS for MARCH, 2009 PAGE 2

HR END DAY	14	15	16	17	18	19	20	21	22	23	24	MEAN	MX SPD	MN SPD
01	048/00.6	329/00.8	309/01.7	301/02.5	311/03.0	005/03.1	062/02.3	081/03.1	086/02.9	035/01.6	038/01.1	021/01.5	005/03.1	234/00.6
02	089/02.1	208/02.7	180/02.3	245/02.9	245/02.4	173/04.0	203/04.4	180/08.2	182/10.8	181/10.6	187/09.0	182/03.2	182/10.8	037/00.8
03	199/12.7	204/12.3	204/11.6	213/09.6	211/07.4	202/07.3	184/04.4	197/05.9	191/07.4	194/06.8	192/07.1	197/08.2	199/12.9	216/03.6
04	229/11.2	244/10.7	269/11.2	271/09.3	282/06.4	260/04.5	008/04.1	015/03.0	126/03.3	155/04.1	153/03.3	206/07.0	208/14.3	015/03.0
05	200/07.3	190/07.7	180/07.3	188/07.0	181/06.2	164/03.9	162/03.8	192/04.1	192/04.1	190/02.3	191/01.7	185/05.2	190/07.7	191/01.7
06	194/05.4	191/04.2	185/07.1	265/06.9	325/06.5	009/03.3	062/04.1	022/04.0	009/02.9	031/02.9	002/03.9	197/03.8	185/07.1	227/01.5
07	175/03.0	221/02.8	218/02.2	225/02.5	179/03.8	177/03.6	147/01.6	117/01.1	171/02.7	101/01.2	062/01.4	128/02.4	006/03.9	158/00.4
08	190/07.9	184/08.4	194/08.3	230/05.7	240/04.0	259/01.8	246/04.0	033/05.5	068/07.0	065/07.7	051/07.4	193/05.5	193/08.6	259/01.8
09	341/03.0	356/03.0	059/02.5	069/01.9	043/01.5	306/01.0	334/05.2	349/03.7	342/03.0	038/01.8	084/02.4	022/04.3	045/08.0	306/01.0
10	210/03.2	190/03.6	168/03.1	187/02.8	184/03.0	210/02.0	077/01.5	101/01.8	057/00.9	072/02.7	062/03.6	176/03.3	184/05.3	057/00.9
11	340/01.0	004/01.8	057/03.2	057/03.3	062/04.9	061/04.2	052/03.6	061/03.1	054/02.6	060/03.0	063/03.6	049/02.4	062/04.9	335/00.8
12	041/03.8	051/05.2	037/05.1	043/06.1	048/06.5	038/05.0	033/04.2	022/03.7	023/04.3	019/04.4	037/04.0	041/04.8	036/07.6	048/02.9
13	003/01.8	312/02.3	294/03.2	327/03.6	022/04.0	036/04.4	049/03.5	078/03.3	075/04.3	082/03.0	096/03.0	030/03.0	062/04.6	240/00.9
14	267/02.3	229/03.0	191/06.0	184/06.4	194/05.6	224/03.8	011/03.1	043/03.2	063/03.7	029/03.4	077/02.5	176/02.4	184/06.4	356/00.3
15	233/06.1	240/06.0	228/06.4	213/05.9	209/06.0	197/05.3	185/03.7	161/03.0	183/03.4	198/02.0	204/03.1	197/03.3	228/06.4	190/00.3
16	194/10.1	185/09.1	203/09.0	213/07.5	215/06.7	251/03.7	258/02.3	226/01.9	244/03.0	197/02.5	205/02.6	204/05.7	189/10.6	226/01.9
17	289/03.4	298/02.1	234/02.0	273/01.5	304/01.6	357/02.1	048/04.2	066/04.0	074/04.0	037/04.1	045/05.0	227/03.2	194/05.2	056/00.8
18	259/01.6	286/01.7	291/03.3	307/03.6	008/02.5	013/02.6	076/04.1	086/04.4	058/04.0	051/04.2	061/04.0	032/03.2	057/06.0	026/01.0
19	195/03.5	210/04.2	201/03.8	215/04.2	242/02.4	319/01.6	017/02.9	071/03.5	067/04.8	344/03.2	073/04.7	129/02.8	067/04.8	170/00.4
20	207/01.9	227/02.0	253/01.7	256/01.1	309/01.6	276/00.7	074/01.6	080/04.8	085/04.9	076/03.4	064/02.6	174/02.2	085/04.9	276/00.7
21	197/09.8	194/10.6	195/10.7	195/11.5	190/11.5	196/11.2	197/12.5	192/13.0	186/12.1	220/08.5	308/05.2	192/07.3	192/13.0	354/01.2
22	329/10.6	353/03.8	162/04.1	188/04.5	317/06.7	318/05.3	327/04.3	323/05.0	303/03.1	293/02.5	299/02.9	245/05.0	321/13.8	109/01.2
23	321/06.8	316/06.9	315/06.6	316/08.6	317/09.4	319/09.0	318/08.6	321/08.4	327/07.1	337/06.7	012/04.2	322/07.7	319/10.5	305/03.5
24	327/03.0	311/02.5	320/04.0	314/03.9	324/04.3	319/04.3	324/03.4	010/05.2	070/03.4	078/02.9	103/02.3	007/03.0	010/05.2	218/01.3
25	337/01.6	209/01.7	248/04.9	258/06.2	260/06.9	270/07.2	288/08.5	286/05.8	332/06.5	338/05.9	316/08.4	237/04.6	288/08.5	337/01.6
26	020/09.8	027/11.7	026/12.3	027/11.8	027/11.7	031/11.4	029/09.5	036/08.1	051/04.5	012/03.2	001/02.7	002/08.1	026/12.3	001/02.7
27	275/02.3	312/03.8	297/02.1	008/01.6	280/01.0	160/01.4	145/01.4	134/01.5	061/01.1	304/00.6	208/01.3	030/01.8	312/03.8	163/00.6
28	195/05.2	214/04.0	191/03.6	174/03.9	177/05.2	186/07.1	179/06.3	183/04.8	189/05.0	184/08.1	183/08.6	197/04.3	191/08.6	266/00.5
29	276/12.2	280/11.5	281/11.6	278/11.6	284/10.5	288/08.4	278/05.6	267/03.3	276/04.4	237/03.0	270/06.9	261/08.5	276/12.2	278/02.7
30	350/03.2	346/03.7	309/04.6	326/04.5	306/02.8	293/02.9	302/03.6	273/01.5	154/02.4	177/03.3	183/04.2	316/06.0	321/12.3	273/01.5
31	221/04.7	260/05.6	244/05.3	220/05.4	226/04.6	215/05.8	192/06.1	227/05.4	220/04.3	234/06.1	301/05.8	209/05.3	190/07.2	186/03.8
MEAN	256/05.2	256/05.1	236/05.5	251/05.4	270/05.2	273/04.6	031/04.5	069/04.4	086/04.4	064/04.1	071/04.1	209/04.5		
MX SPD	199/12.7	204/12.3	026/12.3	027/11.8	027/11.7	031/11.4	197/12.5	192/13.0	186/12.1	181/10.6	187/09.0		208/14.3	
MN SPD	048/00.6	329/00.8	309/01.7	256/01.1	280/01.0	276/00.7	145/01.4	117/01.1	057/00.9	304/00.6	038/01.1			356/00.3

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 743 DATA RECOVERY RATE = 99.9 %

MONTHLY MEAN = 209/04.5 MAXIMUM WIND SPEED WAS 14.3 MPS AT 208 DEGREES ON 3/ 4 AT 1200

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

WIND DIRECTION and SPEED in MPS for APRIL, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13
01	332/10.0	346/11.1	344/12.6	323/11.1	313/09.3	322/08.6	319/09.9	311/06.7	318/08.6	315/08.5	319/07.2	322/04.9	316/03.6
02	178/03.9	179/04.2	184/05.1	189/05.5	182/05.7	181/04.6	187/07.8	186/09.2	185/09.5	186/10.1	182/11.8	181/12.3	184/11.9
03	322/02.8	162/01.4	327/04.1	313/06.8	319/06.0	316/03.0	328/05.2	330/06.6	319/07.4	333/06.5	331/07.3	323/08.2	327/07.9
04	034/01.6	015/02.5	343/03.8	320/06.1	352/03.7	336/03.2	327/06.9	351/03.1	351/02.5	333/05.5	323/07.4	329/06.7	354/06.8
05	075/02.0	059/01.5	040/01.0	020/01.4	056/01.7	080/02.4	083/03.5	176/02.3	189/01.2	072/02.5	044/02.4	017/03.0	004/02.5
06	054/03.8	063/04.2	072/03.0	114/01.6	160/01.4	169/00.7	130/01.4	343/00.9	352/00.6	050/00.8	272/01.0	252/01.5	250/01.8
07	054/02.9	100/02.0	189/01.3	301/00.8	358/00.6	199/01.4	083/01.0	278/01.0	166/01.2	203/01.8	206/02.7	182/02.5	187/03.0
08	174/03.9	175/03.7	174/04.1	172/04.1	175/06.6	181/07.6	184/07.0	209/05.1	180/09.7	193/14.3	203/13.2	210/12.4	222/12.6
09	166/02.9	205/03.3	228/03.5	189/04.6	178/05.5	187/05.8	173/04.9	177/05.3	174/05.4	189/03.9	219/03.0	256/02.4	272/03.1
10	065/03.9	072/03.9	073/03.8	080/03.2	077/02.1	045/01.6	078/02.9	061/02.9	058/02.9	119/01.9	197/03.7	209/04.7	222/02.7
11	328/01.9	011/03.7	042/04.0	070/02.6	029/03.2	078/02.8	049/05.7	037/03.3	044/05.8	046/04.3	056/04.0	007/02.9	012/03.5
12	018/01.8	088/02.3	147/01.4	130/01.1	023/02.6	033/01.9	098/01.1	080/01.5	197/01.0	219/00.6	259/01.4	316/02.9	304/01.6
13	244/00.4	119/00.5	160/00.1	070/00.8	311/00.4	107/00.7	010/01.1	241/00.3	241/00.6	187/04.3	194/06.3	199/06.6	191/07.1
14	177/04.9	195/03.3	203/03.5	204/06.7	186/06.4	194/05.9	193/03.7	182/03.7	198/03.1	281/04.8	292/03.9	297/03.9	142/02.1
15	072/02.7	013/02.2	061/03.9	197/07.8	163/05.2	161/04.8	177/08.6	168/08.6	154/10.2	152/09.9	158/09.4	161/09.0	159/09.1
16	356/02.6	026/00.8	254/02.5	000/00.0	000/00.0	000/00.0	000/00.0	000/00.0	043/01.6	063/02.2	066/02.2	073/00.6	193/01.8
17	009/02.1	042/01.5	035/01.2	046/01.0	080/01.3	087/01.8	083/01.6	013/01.2	013/00.8	074/01.4	078/01.3	074/01.8	046/02.6
18	094/00.6	099/02.9	268/02.6	135/00.9	155/00.2	164/00.6	197/01.6	202/03.0	199/02.4	335/01.5	182/01.5	052/02.1	032/04.1
19	071/01.4	055/01.3	102/00.9	181/02.4	259/01.5	029/01.6	080/01.5	172/01.5	196/02.8	201/04.2	201/04.4	210/03.1	233/02.3
20	069/03.6	068/03.7	121/02.0	198/00.8	035/00.7	065/01.4	002/01.1	136/01.1					
21	074/04.3	126/02.8	184/02.4	011/01.3	046/01.9	030/01.1	018/00.2	197/00.5	182/01.8	204/01.9	222/02.5	215/02.6	208/01.9
22	103/00.4	028/00.4	234/01.5	333/01.0	058/00.7	008/00.8	020/01.7	106/01.3	145/00.5	224/02.0	205/04.7	201/04.8	212/04.9
23	190/04.6	186/04.7	186/04.8	208/03.8	177/04.5	179/06.1	183/04.9	189/03.6	186/03.7	190/04.5	205/05.6	207/05.9	239/05.9
24	088/03.5	350/05.8	057/06.2	049/05.5	031/04.7	037/05.1	029/05.3	033/05.3	034/06.3	036/06.5	029/05.9	006/04.9	015/03.6
25	012/02.1	109/02.3	142/04.5	032/06.0	021/05.0	347/04.4	346/04.7	008/04.9	017/04.3	039/05.2	018/06.0	055/05.6	076/05.7
26	180/05.0	176/05.9	183/05.4	176/03.5	217/03.3	249/03.3	336/04.4	015/02.0	312/03.4	301/04.6	342/03.3	331/02.3	303/03.2
27	251/00.8	003/00.8	023/01.3	176/01.6	360/01.5	053/01.8	038/01.2	212/01.0	200/01.8	185/04.0	194/05.9	198/05.9	190/06.3
28	181/04.9	185/07.1	185/07.7	187/07.6	193/06.8	226/05.4	282/04.5	001/02.6	016/02.8	052/01.7	063/01.6	355/01.8	233/02.4
29	066/03.2	103/01.6	021/01.8	036/02.4	083/03.3	107/01.2	036/01.6	011/01.2	038/02.0	027/02.0	350/02.4	123/02.5	258/01.9
30	046/05.1	056/05.0	054/05.2	051/05.3	052/04.2	058/03.2	069/03.0	113/00.6	198/00.8	188/02.5	196/02.7	239/01.3	245/02.5
MEAN	070/03.1	084/03.2	126/03.5	119/03.6	064/03.3	090/03.1	055/03.6	140/03.0	179/03.6	166/04.3	225/04.6	253/04.5	244/04.4
MX SPD	332/10.0	346/11.1	344/12.6	323/11.1	313/09.3	322/08.6	319/09.9	186/09.2	154/10.2	193/14.3	203/13.2	210/12.4	222/12.6
MN SPD	244/00.4	028/00.4	160/00.1	000/00.0	000/00.0	000/00.0	000/00.0	000/00.0	145/00.5	219/00.6	272/01.0	073/00.6	304/01.6

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

WIND DIRECTION and SPEED in MPS for APRIL, 2009 PAGE 2

HR END DAY	14	15	16	17	18	19	20	21	22	23	24	MEAN	MX SPD	MN SPD
01	280/03.5	279/03.0	311/04.2	312/04.8	278/03.1	312/03.2	264/02.0	211/01.1	182/03.5	183/02.3	177/03.6	301/06.1	344/12.6	211/01.1
02	185/12.0	186/11.9	190/08.4	206/07.2	303/07.1	011/07.7	040/06.8	068/04.7	106/02.5	323/04.2	320/03.4	184/07.4	181/12.3	106/02.5
03	340/07.2	347/07.2	343/06.0	009/09.0	050/06.8	346/06.0	327/05.2	337/05.5	323/08.5	321/08.4	324/06.9	332/06.2	009/09.0	162/01.4
04	355/07.5	334/07.2	336/06.8	346/06.5	349/07.5	358/07.0	346/05.3	010/02.9	074/02.1	082/02.8	078/01.9	355/04.9	355/07.5	034/01.6
05	051/01.9	055/02.5	092/03.0	002/01.9	023/02.3	044/03.7	075/04.7	086/03.8	070/03.1	048/03.6	070/04.2	058/02.6	075/04.7	040/01.0
06	326/01.6	248/01.0	276/01.4	346/02.0	323/03.2	334/03.8	319/03.7	001/02.2	080/04.3	072/04.6	064/04.3	007/02.3	072/04.6	352/00.6
07	193/03.6	200/04.7	199/05.4	203/05.0	189/05.9	169/04.8	144/03.3	105/04.6	142/06.0	187/04.4	185/02.8	178/03.0	142/06.0	358/00.6
08	217/09.5	243/12.2	241/11.4	248/09.7	245/08.7	286/06.7	321/03.9	278/01.5	148/01.5	330/02.7	200/02.7	211/07.3	193/14.3	278/01.5
09	303/02.2	275/02.9	260/01.7	318/01.4	304/01.5	062/04.9	085/04.4	067/03.9	067/03.4	056/03.6	053/04.0	203/03.6	187/05.8	318/01.4
10	105/01.5	248/02.5	287/03.0	348/03.2	017/03.7	020/03.8	011/02.4	065/03.7	154/05.7	160/04.2	127/02.3	080/03.2	154/05.7	105/01.5
11	334/06.1	323/04.2	326/07.8	336/09.7	350/08.8	015/04.0	031/01.7	334/03.6	345/05.1	009/03.2	360/03.4	014/04.4	336/09.7	031/01.7
12	313/02.1	291/02.6	349/02.6	339/03.6	002/03.7	016/03.7	081/03.3	118/03.8	109/04.0	107/01.9	294/00.3	031/02.2	109/04.0	294/00.3
13	192/06.4	209/04.4	194/04.2	183/04.5	185/04.5	187/04.7	166/02.6	165/02.9	181/04.7	254/04.4	182/01.8	190/03.1	191/07.1	160/00.1
14	138/03.0	134/04.7	144/05.2	137/04.6	113/03.5	068/01.9	069/04.6	082/06.3	085/06.1	093/03.6	042/01.4	154/04.2	204/06.7	042/01.4
15	175/07.3	182/04.6	210/03.7	258/03.8	238/03.5	030/03.8	324/04.3	089/02.5	215/01.6	235/00.3	237/01.6	175/05.3	154/10.2	235/00.3
16	193/03.3	182/01.6	086/01.1	072/02.4	077/02.5	061/01.3	360/01.2	075/02.5	331/01.6	026/01.7	070/03.0	058/01.5	193/03.3	000/00.0
17	010/05.0	353/05.5	351/05.2	014/04.4	006/04.0	338/04.5	345/04.1	003/03.3	081/03.1	079/02.2	047/02.0	036/02.6	353/05.5	013/00.8
18	034/03.9	032/03.9	359/02.6	347/02.4	350/02.6	348/02.2	350/01.6	068/01.6	097/01.2	099/02.0	263/00.7	063/02.0	032/04.1	155/00.2
19	246/02.0	265/01.6	328/01.0	296/01.7	291/01.1	208/00.4	082/00.0	080/01.0	105/03.1	124/01.1	023/01.0	173/01.8	201/04.4	082/00.0
20	273/01.2	300/01.2	310/01.1	291/01.8	269/01.4	203/00.8	158/00.7	149/02.3	110/03.0	094/04.1	080/03.8	100/01.9	094/04.1	035/00.7
21	251/01.5	259/01.6	236/01.9	309/01.5	125/00.8	350/00.8	080/00.7	097/03.1	129/01.9	192/00.8	049/01.4	161/01.7	074/04.3	018/00.2
22	190/04.1	203/03.9	209/03.7	213/03.3	289/07.0	255/01.4	190/02.3	171/03.5	177/04.5	184/03.9	182/04.3	195/02.8	289/07.0	103/00.4
23	209/06.5	194/06.4	203/07.0	222/07.7	269/07.6	271/04.6	258/04.0	315/05.0	287/03.7	233/01.3	338/01.6	216/04.9	222/07.7	233/01.3
24	034/04.5	022/04.7	003/05.3	350/06.7	353/05.2	025/03.0	061/03.4	055/03.9	094/04.3	070/03.0	017/02.2	033/04.8	350/06.7	017/02.2
25	358/05.3	301/07.2	333/02.6	297/01.6	243/03.8	222/05.3	214/04.8	158/02.1	052/01.8	190/02.9	184/04.7	016/04.3	301/07.2	297/01.6
26	305/05.1	320/06.9	313/07.9	316/08.6	307/07.8	309/07.1	312/04.9	336/02.1	064/01.7	105/02.4	160/00.8	302/04.4	316/08.6	160/00.8
27	191/06.7	189/05.6	183/06.4	184/07.2	187/07.2	163/07.4	152/03.0	184/02.4	281/04.5	298/01.6	193/02.6	194/03.7	163/07.4	251/00.8
28	264/03.2	262/03.2	337/04.0	324/03.4	322/09.8	354/05.8	029/05.7	041/05.3	066/04.2	010/03.6	049/04.0	339/04.5	322/09.8	063/01.6
29	336/01.7	269/02.0	220/01.9	206/02.6	199/02.2	264/01.9	334/02.8	032/02.8	071/03.9	073/04.4	067/03.4	040/02.4	073/04.4	107/01.2
30	276/01.9	290/01.9	276/02.7	300/03.1	261/02.4	316/02.5	333/03.6	328/02.3	034/05.8	030/06.0	026/06.0	352/03.3	030/06.0	113/00.6
MEAN	274/04.4	265/04.4	283/04.3	304/04.5	304/04.6	342/04.0	017/03.4	064/03.2	095/03.7	087/03.2	067/02.9	034/03.8		
MX SPD	185/12.0	243/12.2	241/11.4	248/09.7	322/09.8	011/07.7	040/06.8	082/06.3	323/08.5	321/08.4	324/06.9		193/14.3	
MN SPD	273/01.2	248/01.0	328/01.0	318/01.4	125/00.8	208/00.4	082/00.0	080/01.0	097/01.2	235/00.3	294/00.3			000/00.0

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 715 DATA RECOVERY RATE = 99.3 %

MONTHLY MEAN = 034/03.8 MAXIMUM WIND SPEED WAS 14.3 MPS AT 193 DEGREES ON 4/ 8 AT 1000

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

WIND DIRECTION and SPEED in MPS for MAY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13
01	037/07.0	036/06.3	038/06.3	024/05.7	037/05.7	057/05.7	055/04.9	043/04.7	064/04.2	063/04.3	046/03.6	348/01.7	022/02.4
02	061/03.1	048/02.3	028/01.7	067/02.9	080/02.3	160/03.0	177/03.8	212/06.1	298/07.3	338/04.9	355/01.4	206/00.9	086/01.4
03	078/03.7	064/02.5	060/02.7	065/02.4	201/01.0	201/01.4	201/00.5	080/01.2	100/00.6	166/03.6	156/02.9	188/03.0	221/03.8
04	048/03.0	040/02.5	041/03.2	058/03.7	059/03.1	072/03.4	066/02.7	056/00.6	045/01.4	002/01.2	027/01.4	277/01.4	229/01.7
05	064/02.5	147/02.5	336/01.7	325/02.1	054/02.5	097/02.6	080/02.2	187/02.3	189/04.8	195/03.3	254/02.9	251/04.2	236/05.7
06	018/02.6	289/01.5	011/02.6	092/01.8	079/02.8	223/01.3	340/00.1	000/00.0	229/01.0	209/01.9	196/04.3	196/06.5	209/05.7
07	070/04.6	076/04.4	074/03.1	068/02.7	061/03.6	059/04.4	054/03.6	059/03.4	052/04.7	042/04.7	013/03.4	318/02.4	313/02.8
08	038/05.1	030/06.2	043/05.2	046/05.0	044/04.3	031/03.9	038/02.6	045/02.9	004/04.5	035/04.1	011/02.8	338/02.8	333/03.6
09	045/03.4	061/03.3	067/03.7	069/03.4	046/03.7	065/03.9	067/03.4	046/03.5	327/00.8	041/02.7	045/01.7	237/02.0	256/01.8
10	049/02.6	068/02.6	052/02.8	061/02.3	042/01.8	039/02.4	068/02.3	079/03.7	044/04.8	045/05.0	044/04.3	023/03.0	004/02.1
11	074/04.3	084/04.1	071/03.3	071/04.1	083/03.6	165/00.8	081/00.8	079/02.1	106/03.0	205/02.6	247/01.3	208/01.9	209/03.6
12	197/03.2	189/03.5	189/04.5	227/03.6	235/01.6	183/01.5	188/03.9	188/02.3	241/02.9	288/05.4	278/06.1	273/06.6	262/05.8
13	006/07.4	009/06.5	014/06.2	356/05.1	010/04.0	354/04.2	005/03.2	346/06.2	343/04.6	010/03.6	045/02.8	015/03.0	012/02.9
14	065/03.0	078/03.6	071/03.0	073/02.0	085/01.3	207/02.4	192/02.9	204/02.7	192/03.3	224/03.0	225/02.5	226/02.2	278/02.9
15	074/03.5	048/03.3	058/02.8	070/03.0	045/03.0	049/02.9	036/01.8	353/02.4	358/02.3	352/04.5	341/04.2	310/03.6	330/03.2
16	027/02.1	039/03.2	059/02.3	075/02.7	064/02.4	041/01.6	058/01.6	066/02.5	047/03.1	030/01.8	201/01.8	308/02.0	284/02.6
17	066/02.9	082/03.8	074/04.1	101/03.3	188/01.2	253/00.2	058/00.4	148/00.8	221/00.7	235/01.1	267/00.6	244/01.4	226/01.8
18	076/04.4	057/04.1	087/03.5	216/01.1	166/01.0	104/00.3	354/00.7	210/00.4	174/00.7	213/01.7		000/00.0	247/01.8
19	066/03.0	292/02.1	109/02.6	025/01.0	081/02.0	166/02.2	186/05.3	183/04.4	189/05.0	190/04.1	214/04.8	212/05.8	217/08.1
20	140/01.7	163/02.8	199/05.3	196/03.8	187/03.5	190/03.3	205/03.0	296/04.4	353/03.9	007/03.9	065/03.6	046/04.5	035/04.0
21	038/05.5	055/05.8	043/04.5	055/03.0	069/04.2	066/04.3	061/04.7	054/03.7	046/02.4	319/02.1	311/01.7	360/01.6	262/02.2
22	049/02.9	068/03.7	049/02.5	072/03.2	077/03.7	087/03.2	153/01.3	161/01.1	278/02.8	298/01.4	247/01.2	213/01.4	211/01.4
23	181/02.8	145/02.8	182/06.1	188/05.8	189/05.5	168/04.0	147/01.9	142/01.5	067/01.5	143/02.0	133/02.2	058/01.9	357/02.2
24	194/01.2	034/01.3	083/02.6	171/01.8	224/02.2	212/03.0	160/02.2	173/05.0	175/07.0	186/07.3	172/06.5	161/05.4	193/04.4
25	183/03.4	187/03.8	148/02.1	090/02.2	090/01.7	083/00.9	056/01.7	074/00.7	301/00.5	020/00.8	287/01.3	313/01.5	302/01.9
26	216/01.7	189/02.5	176/02.3	112/01.6	028/00.8	042/01.4	057/01.5	176/01.0	179/01.1	245/01.1	231/01.4	313/01.7	340/02.4
27	030/02.2	346/01.1	052/01.3	048/02.0	108/02.7	228/01.7	132/00.9	076/00.4	289/00.6	246/00.8	293/01.1	319/02.3	319/02.8
28	067/02.3	079/03.2	066/03.7	052/02.6	109/02.2	143/01.9	358/00.7	328/00.7	337/01.6	347/01.4	306/01.5	286/03.1	357/03.3
29	298/01.4	061/01.2	083/02.2	066/02.0	047/03.6	074/02.0	070/01.6	119/01.9	186/01.1	183/02.5	223/01.7	281/01.7	258/01.3
30	219/03.7	175/02.1	189/01.7	180/01.4	039/01.7	120/01.5	166/01.5	356/00.9	244/01.1	192/04.6	195/05.0	203/04.6	231/03.1
31	188/06.5	326/02.6	244/01.6	094/01.5	128/00.9	035/00.9	192/02.9	176/03.6	187/04.7	191/02.9	251/01.8	294/01.5	225/02.2
MEAN	068/03.4	065/03.3	070/03.3	075/02.9	080/02.7	107/02.5	090/02.3	103/02.5	298/02.8	274/03.0	273/02.7	278/02.8	275/03.1
MX SPD	006/07.4	009/06.5	038/06.3	188/05.8	037/05.7	057/05.7	186/05.3	346/06.2	298/07.3	186/07.3	172/06.5	273/06.6	217/08.1
MN SPD	194/01.2	346/01.1	052/01.3	025/01.0	028/00.8	253/00.2	340/00.1	000/00.0	301/00.5	020/00.8	267/00.6	000/00.0	258/01.3

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

WIND DIRECTION and SPEED in MPS for MAY, 2009 PAGE 2

HR END DAY	14	15	16	17	18	19	20	21	22	23	24	MEAN	MX SPD	MN SPD
01	293/01.2	194/02.4	200/03.4	175/05.7	182/04.8	166/04.4	100/01.3	015/01.8	081/02.5	088/03.1	090/02.8	061/04.0	037/07.0	293/01.2
02	247/01.7	262/05.0	280/03.2	318/03.9	287/02.7	303/02.2	349/01.9	261/01.6	233/02.0	009/01.7	060/02.9	323/02.9	298/07.3	206/00.9
03	231/04.7	212/03.6	200/04.4	271/05.4	246/06.2	210/06.6	297/07.6	036/03.2	163/03.7	140/02.0	344/03.7	175/03.4	297/07.6	201/00.5
04	222/03.4	250/02.8	251/02.6	280/01.5	223/02.4	219/02.7	242/01.8	260/00.8	276/02.8	039/02.6	099/04.0	357/02.4	099/04.0	056/00.6
05	253/06.1	264/06.0	261/06.3	265/06.6	278/07.1	281/06.7	278/05.4	294/04.9	293/04.1	290/04.1	309/04.1	267/04.2	278/07.1	336/01.7
06	223/07.9	261/08.6	268/07.5	269/07.6	278/06.2	292/05.1	280/03.2	265/02.8	282/02.7	030/04.7	067/03.8	266/03.8	261/08.6	000/00.0
07	283/04.3	270/04.8	309/03.9	307/04.0	311/03.9	332/04.1	030/03.3	032/06.1	020/04.4	032/04.9	036/05.6	020/04.0	032/06.1	318/02.4
08	350/02.7	309/03.8	282/02.8	308/02.9	310/02.8	008/02.9	045/05.2	064/04.1	056/03.2	046/03.8	046/03.5	017/03.8	030/06.2	038/02.6
09	168/02.3	284/02.5	314/03.5	333/05.2	008/06.9	046/06.8	043/07.3	046/05.5	052/03.7	032/03.5	019/03.7	033/03.7	043/07.3	327/00.8
10	313/02.2	285/03.1	269/03.0	262/02.2	295/01.6	332/01.5	353/00.4	108/04.4	104/03.9	091/04.2	062/04.6	034/02.9	045/05.0	353/00.4
11	238/02.7	263/01.4	248/01.4	302/01.1	288/03.3	309/02.4	275/00.0	140/00.3	151/00.2	163/01.9	199/02.9	175/02.2	074/04.3	275/00.0
12	262/04.5	270/07.3	275/07.1	275/07.0	285/08.1	298/08.8	298/10.4	301/08.1	326/08.1	033/06.0	004/06.9	259/05.6	298/10.4	183/01.5
13	356/02.9	344/02.8	360/03.6	288/04.8	299/04.5	312/02.0	076/00.9	044/02.6	061/03.6	076/03.2	056/02.5	008/03.9	006/07.4	076/00.9
14	277/03.0	296/02.9	296/03.0	254/02.7	217/05.1	222/04.7	291/06.5	037/07.1	043/05.4	018/07.3	052/05.4	241/03.7	018/07.3	085/01.3
15	315/04.2	298/03.8	309/03.8	314/03.9	023/02.4	039/01.0	030/01.8	072/03.8	086/03.5	032/03.2	023/03.8	017/03.2	352/04.5	039/01.0
16	263/02.9	282/03.3	313/02.5	283/02.4	314/02.2	319/02.4	038/03.9	080/03.4	069/03.5	055/02.7	061/02.4	023/02.6	038/03.9	041/01.6
17	327/01.5	131/02.0	325/02.1	259/01.5	318/02.5	315/02.2	010/02.2	080/03.8	105/03.8	080/02.8	058/04.2	073/02.1	058/04.2	253/00.2
18	218/03.6	195/03.8	189/02.7	205/01.9	124/02.3	151/02.1	121/03.0	079/02.9	061/01.7	049/02.1	046/04.1	141/02.2	076/04.4	000/00.0
19	299/03.5	327/05.4	049/02.1	209/04.5	304/10.3	312/06.3	264/02.7	244/01.6	182/03.5	179/05.4	182/03.8	211/04.1	304/10.3	025/01.0
20	031/04.8	015/04.8	345/03.8	357/03.9	037/03.8	047/02.9	057/06.1	033/06.1	026/06.5	042/07.5	036/05.9	040/04.3	042/07.5	140/01.7
21	274/03.5	304/03.2	336/03.1	347/04.0	018/04.1	042/05.1	042/05.8	064/03.9	072/03.2	055/02.9	063/03.4	028/03.7	055/05.8	360/01.6
22	246/01.8	360/02.2	331/02.2	097/04.9	098/05.7	044/05.9	090/02.7	158/03.3	139/02.0	232/01.9	251/01.6	114/02.7	044/05.9	161/01.1
23	006/02.9	054/02.6	091/03.9	074/03.3	086/02.8	315/03.9	212/09.0	207/08.2	188/03.8	200/03.0	194/02.1	146/03.6	212/09.0	142/01.5
24	243/02.6	239/02.7	234/03.0	328/02.0	032/12.5	079/07.8	336/08.0	014/06.4	051/05.7	087/04.0	069/02.5	163/04.5	032/12.5	194/01.2
25	008/01.9	016/02.0	015/03.0	351/05.2	344/07.1	041/08.7	058/06.4	032/03.5	051/03.0	060/02.7	081/01.7	037/02.8	041/08.7	301/00.5
26	324/03.6	349/03.6	016/03.2	340/04.5	015/08.1	049/06.5	048/05.1	058/04.6	050/03.1	027/02.2	030/02.1	025/02.8	015/08.1	028/00.8
27	349/03.1	322/03.6	012/03.2	013/03.0	032/03.4	029/03.4	052/04.5	066/04.0	096/03.5	064/03.4	036/02.1	022/02.4	052/04.5	076/00.4
28	358/02.0	293/02.7	341/03.5	314/03.5	042/03.8	044/05.6	050/05.6	071/03.3	066/01.5	072/03.9	078/02.6	026/02.8	044/05.6	358/00.7
29	293/02.6	284/02.4	010/03.3	004/04.5	082/06.0	096/07.0	130/06.8	153/05.4	181/03.8	190/04.4	170/03.6	119/03.1	096/07.0	186/01.1
30	215/03.1	172/03.4	161/07.0	147/03.8	181/01.8	049/02.7	082/05.3	085/03.5	097/03.6	188/06.5	167/08.1	169/03.4	167/08.1	356/00.9
31	191/02.8	079/02.2	245/03.5	264/04.2	290/04.8	107/09.2	106/08.2	078/05.1	061/04.4	024/04.2	055/04.6	171/03.6	107/09.2	128/00.9
MEAN	281/03.2	288/03.6	301/03.6	298/03.9	325/04.8	359/04.6	028/04.6	058/04.1	078/03.6	062/03.7	059/03.7	031/03.4		
MX SPD	223/07.9	261/08.6	268/07.5	269/07.6	032/12.5	107/09.2	298/10.4	207/08.2	326/08.1	042/07.5	167/08.1		032/12.5	
MN SPD	293/01.2	263/01.4	248/01.4	302/01.1	295/01.6	039/01.0	275/00.0	140/00.3	151/00.2	009/01.7	251/01.6			000/00.0

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 743 DATA RECOVERY RATE = 99.9 %

MONTHLY MEAN = 031/03.4 MAXIMUM WIND SPEED WAS 12.5 MPS AT 32 DEGREES ON 5/24 AT 1800

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

WIND DIRECTION and SPEED in MPS for JUNE, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13
01	048/03.8	039/01.9	073/03.2	089/02.7	145/02.6	183/03.7	173/03.8	135/02.1	075/01.2	304/01.3	290/01.6	264/02.0	320/02.6
02	089/03.2	125/01.8	088/01.3	225/01.0	033/01.3	064/02.8	085/02.7	075/01.3	048/01.4	346/01.7	220/01.4	202/01.9	182/02.1
03	036/03.7	054/03.5	061/02.1	089/01.8	220/01.7	124/01.8	081/01.8	070/02.1	129/02.0	204/03.1	195/03.8	198/03.5	202/03.8
04	177/03.2	321/01.6	041/04.3	067/05.7	057/05.5	056/06.1	062/05.9	060/03.7	053/04.1	056/02.9	068/01.6	206/02.0	197/02.3
05	170/02.5	163/02.8	138/07.7	166/02.8	173/03.4	262/06.6	262/02.8	263/02.6	358/05.9	044/04.7	031/02.5	062/05.6	062/06.7
06	227/04.4	226/02.7	358/01.3	125/01.4	163/02.0	193/02.8	195/03.8	185/03.4	203/03.7	204/05.1	217/05.5	217/05.4	213/05.1
07	333/00.8	056/01.6	076/01.3	121/01.0	192/03.6	180/03.5	190/03.7	238/03.6	281/04.0	267/01.4	201/03.4	220/04.1	248/03.4
08	068/03.5	048/03.4	060/03.1	040/02.4	076/03.4	147/02.3	161/02.1	355/00.9	194/01.4	209/04.0	206/04.8	206/04.9	209/04.3
09	055/05.0	052/03.1	132/01.7	343/01.7	038/01.1	195/01.6	163/02.9	275/01.7	241/01.2	236/02.3	208/03.5	202/04.4	186/04.8
10	018/01.7	254/01.0	071/00.9	130/00.5	214/00.5	201/01.4	146/02.0	178/02.1	233/02.3	241/01.5	194/03.4	188/04.4	209/02.0
11	179/04.0	141/01.6	332/00.9	278/01.3	155/01.7	115/01.6	002/00.8	107/00.4	320/00.7	218/01.0	193/02.2	179/04.4	199/05.7
12	074/01.6	051/01.5	158/01.5	050/01.7	151/02.2	004/00.6	036/01.4	015/01.4	265/01.3	184/01.1	210/02.4	216/04.7	152/02.7
13	096/05.0	089/05.6	050/03.2	276/01.5	157/02.1	074/02.3	054/03.9	071/05.4	075/04.4	166/02.8	217/04.1	204/03.0	190/04.1
14	103/01.4	102/02.5	015/02.5	159/01.3	108/00.7	014/01.3	028/01.4	045/01.3	350/00.8	323/01.3	308/01.5	310/01.8	221/01.9
15	344/01.9	095/02.8	141/02.3	183/02.1	347/01.6	042/01.6	126/01.2	171/01.6	203/02.3	221/02.5	240/02.9	242/02.3	237/02.4
16	041/02.3	046/03.0	065/02.6	058/02.0	041/02.1	055/02.7	045/01.8	011/01.3	343/01.1	283/00.8	066/01.9	037/02.3	013/02.3
17	183/03.2	162/01.7	168/02.0	189/02.5	174/01.9	153/02.1	314/00.9	042/00.9	126/02.2	087/00.7	161/01.8	180/02.9	193/04.2
18	221/01.3	221/02.4	170/01.6	191/01.8	180/01.2	200/01.7	200/02.2	194/03.0	199/03.1	208/02.9	282/02.5	301/03.4	303/02.9
19	012/01.2	054/00.8	073/00.6	181/00.7	018/01.3	045/01.0	009/01.6	020/01.4	276/00.9	218/01.2	204/05.3	197/05.9	199/05.7
20	293/07.3	324/09.5	016/05.8	331/04.7	358/06.2	026/03.9	060/01.9	060/05.2	057/05.6	343/04.4	322/07.3	317/08.9	331/06.8
21	002/02.0	350/02.4	021/02.0	054/01.6	079/02.8	098/03.3	101/03.0	322/01.9	256/01.4	267/02.5	276/01.3	265/01.3	212/02.4
22	031/02.5	034/03.1	036/03.0	057/02.2	035/02.4	056/03.1	056/03.5	049/04.2	035/05.1	028/04.9	023/03.5	012/03.0	013/03.0
23	048/05.2	041/04.8	032/03.8	063/04.5	047/04.7	054/04.5	071/05.3	065/05.2	045/05.1	037/04.6	051/02.2	014/02.1	008/01.6
24	060/03.3	037/03.3	087/03.0	112/02.1	147/02.3	092/01.7	173/01.6	167/02.3	183/03.0	192/04.6	196/04.3	207/02.8	225/03.0
25	064/03.6	057/02.6	076/03.6	126/02.6	323/02.9	132/01.8	233/03.2	189/03.8	186/00.9	241/02.7	251/02.1	216/04.4	208/06.8
26	181/04.3	189/06.8	188/10.5	187/08.4	185/06.1	187/05.0	186/04.3	187/04.6	189/05.6	189/06.9	196/05.8	201/03.9	203/03.2
27	077/02.7	065/03.2	120/02.3	282/01.7	089/01.3	194/00.8	206/01.1	166/01.7	221/01.4	311/01.0	326/02.2	332/02.7	299/01.3
28	059/02.6	055/03.2	070/03.6	076/03.4	076/02.9	135/01.0	080/03.0	085/02.7	166/02.3	205/02.6	190/02.1	200/02.0	220/01.8
29	064/03.7	082/03.5	065/04.3	077/03.9	200/02.5	149/03.0	059/03.3	067/01.7	045/01.7	072/01.5	058/01.2	231/01.7	205/04.1
30	080/04.5	088/01.7	146/01.1	336/01.0	110/01.7	086/02.5	039/01.8	105/01.6	092/02.5	151/03.1	203/04.3	236/05.2	211/03.3
MEAN	065/03.2	068/03.0	078/02.9	106/02.4	114/02.5	115/02.6	100/02.6	091/02.5	179/02.6	232/02.7	222/03.1	226/03.6	219/03.5
MX SPD	293/07.3	324/09.5	188/10.5	187/08.4	358/06.2	262/06.6	062/05.9	071/05.4	358/05.9	189/06.9	322/07.3	317/08.9	331/06.8
MN SPD	333/00.8	054/00.8	073/00.6	130/00.5	214/00.5	004/00.6	002/00.8	107/00.4	320/00.7	087/00.7	058/01.2	265/01.3	299/01.3

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

WIND DIRECTION and SPEED in MPS for JUNE, 2009 PAGE 2

HR END DAY	14	15	16	17	18	19	20	21	22	23	24	MEAN	MX SPD	MN SPD
01	178/02.0	203/02.5	192/01.6	269/03.3	288/04.8	189/07.9	145/08.0	300/05.5	355/03.4	058/03.0	010/01.5	171/03.2	145/08.0	075/01.2
02	142/02.4	178/02.2	173/03.1	288/05.2	243/10.7	013/03.1	104/03.6	100/04.1	061/04.5	037/03.8	017/04.7	096/03.0	243/10.7	225/01.0
03	208/04.4	214/03.3	227/02.2	201/04.1	206/03.6	211/01.6	122/01.0	062/03.9	080/03.6	090/03.7	091/02.5	142/02.9	208/04.4	122/01.0
04	238/02.8	205/04.7	206/03.8	185/07.1	202/09.7	207/06.1	252/04.1	203/02.1	139/02.6	149/02.6	161/03.4	149/04.1	202/09.7	321/01.6
05	129/04.7	124/05.0	144/09.0	201/12.9	202/12.6	317/10.7	030/06.0	268/06.0	289/04.0	234/02.6	206/04.6	185/05.6	201/12.9	170/02.5
06	228/04.7	220/03.6	252/03.7	266/02.6	247/02.3	202/06.1	193/06.2	168/06.3	244/07.2	289/05.9	345/03.1	218/04.1	244/07.2	358/01.3
07	261/03.2	277/02.9	286/02.2	306/05.0	022/03.1	110/02.8	063/02.9	057/04.6	088/03.4	059/04.1	070/04.0	222/03.1	306/05.0	333/00.8
08	199/02.9	208/02.8	206/07.0	197/07.5	196/05.6	190/05.4	191/04.5	062/02.6	029/07.3	062/05.3	067/04.4	152/04.0	197/07.5	355/00.9
09	191/03.4	213/04.6	224/04.4	264/05.6	004/07.4	059/05.0	098/04.2	090/03.4	057/02.0	065/02.8	087/03.1	148/03.4	004/07.4	038/01.1
10	268/03.0	279/03.3	252/04.9	213/07.5	169/03.3	221/01.3	277/01.1	234/02.8	354/02.6	071/02.3	264/03.7	220/02.5	213/07.5	130/00.5
11	200/06.2	199/04.4	249/05.3	277/05.1	168/01.7	119/02.5	159/02.2	193/02.3	199/02.1	188/02.8	126/01.0	186/02.6	200/06.2	107/00.4
12	182/01.7	262/01.9	223/02.4	232/02.7	295/04.0	306/04.6	272/05.8	320/04.8	077/02.3	270/02.2	041/03.2	253/02.5	272/05.8	004/00.6
13	184/08.9	189/08.5	181/08.6	238/05.5	272/04.6	233/06.5	148/03.7	279/01.5	037/01.5	103/01.1	346/01.0	153/04.1	184/08.9	346/01.0
14	267/03.3	251/07.5	279/05.4	278/02.9	233/03.2	123/05.6	130/02.8	255/07.6	326/04.8	148/03.2	064/01.8	333/02.8	255/07.6	108/00.7
15	234/03.3	246/03.5	250/03.4	247/03.3	256/02.3	317/03.8	029/06.6	032/04.7	018/03.3	058/03.0	038/03.1	250/02.8	029/06.6	126/01.2
16	360/03.5	351/03.5	045/03.8	065/05.7	111/04.9	170/09.1	187/12.4	183/07.8	194/05.0	187/04.2	202/02.9	053/03.7	187/12.4	283/00.8
17	113/02.9	054/06.9	053/05.1	111/04.4	187/06.2	220/08.1	334/04.3	045/03.7	062/03.2	115/01.6	179/01.5	139/03.1	220/08.1	087/00.7
18	285/02.0	255/02.9	245/03.6	202/05.3	186/03.0	320/02.2	068/02.3	055/02.9	079/03.7	108/03.7	094/01.6	210/02.6	202/05.3	180/01.2
19	207/05.5	203/04.7	198/05.3	192/04.8	190/03.8	174/03.6	132/04.2	111/04.8	121/05.1	142/04.9	140/07.7	158/03.4	140/07.7	073/00.6
20	342/04.6	038/03.4	132/04.0	165/06.7	147/04.4	227/04.0	214/04.6	204/02.0	080/01.8	055/00.9	201/00.7	007/04.8	324/09.5	201/00.7
21	218/05.5	214/06.1	212/06.7	220/06.8	314/09.3	325/10.9	348/07.7	357/03.3	065/03.5	031/03.9	005/04.1	328/04.0	325/10.9	276/01.3
22	027/03.1	051/04.0	048/03.8	045/04.1	028/04.7	043/05.2	038/04.9	041/05.1	041/04.3	055/03.9	050/05.0	039/03.8	043/05.2	057/02.2
23	221/02.0	273/02.9	315/03.4	310/02.8	332/02.3	342/01.8	052/03.9	054/04.6	069/03.9	077/04.1	074/03.2	035/03.7	071/05.3	008/01.6
24	228/03.1	239/02.4	219/02.2	193/02.3	176/02.8	183/02.4	181/01.3	070/04.0	069/03.7	088/03.9	081/04.4	156/02.9	192/04.6	181/01.3
25	228/04.3	235/08.1	265/08.3	288/03.4	343/02.7	023/02.7	041/01.7	005/03.6	264/05.1	099/04.4	167/04.2	223/03.7	265/08.3	186/00.9
26	223/02.5	150/02.3	277/03.7	300/03.6	320/08.2	358/09.5	070/05.6	091/03.8	109/04.4	083/02.1	213/01.2	187/05.1	188/10.5	213/01.2
27	333/02.3	328/03.4	315/03.8	310/03.5	354/03.5	359/04.2	043/05.9	052/05.3	084/03.9	043/03.7	043/02.7	002/02.7	043/05.9	194/00.8
28	162/01.9	093/01.9	249/02.9	241/02.1	239/02.6	355/02.2	046/03.3	080/04.6	086/03.5	087/03.5	034/02.4	107/02.7	080/04.6	135/01.0
29	201/03.6	214/02.9	249/02.6	184/03.1	276/01.9	332/01.2	277/01.2	083/03.2	063/05.3	082/04.6	075/04.6	096/02.9	063/05.3	058/01.2
30	205/02.4	221/04.5	267/03.3	250/08.7	256/09.3	272/08.2	261/06.1	278/02.6	053/01.3	091/02.4	108/01.9	166/03.5	256/09.3	336/01.0
MEAN	216/03.5	223/04.0	235/04.3	239/04.9	243/05.0	268/04.9	103/04.4	062/04.1	064/03.7	087/03.3	080/03.1	146/03.4		
MX SPD	184/08.9	189/08.5	144/09.0	201/12.9	202/12.6	325/10.9	187/12.4	183/07.8	029/07.3	289/05.9	140/07.7		201/12.9	
MN SPD	182/01.7	262/01.9	192/01.6	241/02.1	168/01.7	332/01.2	122/01.0	279/01.5	053/01.3	055/00.9	201/00.7			107/00.4

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 720 DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 146/03.4 MAXIMUM WIND SPEED WAS 12.9 MPS AT 201 DEGREES ON 6/ 5 AT 1700

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

WIND DIRECTION and SPEED in MPS for JULY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13
01	060/03.3	103/01.9	181/02.9	172/05.0	208/03.1	214/03.6	169/01.8	010/01.5	065/00.9	260/01.4	251/02.1	262/02.6	293/02.1
02	076/04.2	065/03.4	076/03.2	075/01.8	159/01.8	157/01.1	187/01.3	187/01.4	205/02.3	220/03.6	244/02.3	228/01.5	239/03.0
03	186/03.8	122/01.4	166/02.6	152/02.9	139/01.6	260/00.9	056/01.4	130/02.2	188/04.9	193/04.5	212/03.4	207/03.1	200/02.3
04	054/05.6	357/06.1	015/06.7	051/04.7	060/03.7	106/03.1	257/02.5	189/03.2	051/01.4	240/05.1	156/06.4	135/04.4	189/03.8
05	123/01.7	060/01.5	060/01.4	172/02.3	169/04.2	180/04.8	173/04.0	193/02.7	186/03.7	199/04.9	199/03.5	179/03.3	214/03.5
06	063/03.4	049/02.2	096/02.2	048/01.1	144/03.4	170/06.9	194/05.8	203/04.1	230/02.4	198/03.1	205/06.9	222/06.5	237/05.5
07	056/04.3	029/04.2	036/04.4	045/04.2	034/04.2	065/03.9	046/02.9	070/02.3	072/02.4	198/01.8	234/01.6	204/02.4	191/04.1
08	030/02.6	075/03.8	042/02.5	062/02.6	320/01.6	328/03.0	092/01.6	074/01.3	040/01.9	326/03.7	346/03.6	334/03.5	315/04.5
09	008/04.2	044/03.6	047/03.5	057/03.6	062/04.2	063/05.2	057/04.8	074/03.1	118/02.6	186/02.8	194/04.7	195/04.4	201/04.8
10	052/03.3	052/04.9	036/04.4	056/03.9	063/05.6	055/03.0	077/03.4	078/04.0	059/03.9	137/02.1	199/02.5	200/02.4	198/03.6
11	078/03.1	077/02.0	134/01.8	101/01.6	280/02.1	180/01.6	034/01.7	055/01.0	343/00.8	162/00.7	172/02.0	207/05.2	227/05.2
12	172/02.1	022/01.2	028/01.0	057/02.2	079/03.2	076/02.6	090/01.4	091/00.8	182/00.7	193/02.2	183/02.8	180/04.0	198/05.1
13	188/05.4	205/06.4	204/02.7	222/01.8	252/02.3	182/02.8	197/02.3	192/01.1	354/03.4	341/05.2	335/04.7	320/03.5	328/03.8
14	028/05.4	048/05.3	049/04.5	061/03.2	045/03.4	044/03.0	064/01.8	133/01.2	250/01.2	251/01.5	264/02.1	245/02.5	237/01.8
15	039/02.2	063/03.1	062/02.7	079/03.7	095/03.5	086/03.8	085/02.9	096/02.4	095/01.4	084/01.0	229/01.4	209/01.9	200/02.1
16	071/04.8	071/04.2	153/02.4	209/01.2	006/02.7	068/03.7	082/03.7	076/03.7	169/02.8	198/02.3	224/01.7	216/01.9	231/02.1
17	069/04.9	109/03.8	167/02.1	144/01.6	046/03.0	082/04.1	073/04.4	015/01.9	077/01.3	255/01.6	243/01.3	276/02.5	295/01.8
18	057/03.9	057/02.9	056/02.1	063/03.9	066/03.5	130/03.8	134/02.3	075/03.2	070/03.5	034/02.2	241/01.1	190/02.1	251/03.0
19	188/04.3	191/04.9	197/03.8	188/03.0	189/01.8	037/01.5	210/01.5	194/04.0	194/03.1	199/05.2	227/05.3	230/04.6	275/03.5
20	056/03.9	074/01.8	070/01.9	014/01.1	147/00.6	040/02.0	006/01.5	176/01.2	291/00.8	314/00.9	326/01.9	013/02.1	004/02.8
21	040/03.5	068/03.9	106/02.1	173/02.8	165/01.4	063/01.1	071/01.7	352/01.3	230/00.5	208/02.2	197/03.8	194/03.0	209/02.5
22	192/01.7	183/03.4	179/01.8	225/01.3	031/01.6	166/00.8	338/01.2	130/01.2	191/03.4	193/05.0	204/05.1	222/04.3	227/03.4
23	021/01.9	034/03.2	083/02.3	002/02.1	108/02.3	186/03.5	193/01.8	351/02.0	236/01.6	187/02.8	205/03.5	211/03.5	204/04.0
24	173/03.2	186/02.1	202/01.4	181/02.2	187/01.7	190/04.3	178/02.8	226/02.5	213/02.6	186/03.9	207/03.0	219/03.1	228/03.4
25	336/04.4	043/01.7	332/01.9	042/02.8	152/03.3	152/02.7	157/02.6	183/03.0	174/02.9	182/01.9	213/01.6	218/01.8	269/02.3
26	231/02.5	226/02.9	165/01.8	106/01.2	018/01.5	173/00.9	110/01.3	324/01.0	244/00.7	247/01.6	252/01.7	303/01.7	265/01.8
27	105/02.0	115/02.4	210/01.4	280/01.8	099/00.8	065/01.3	146/01.4	201/01.3	193/02.6	188/04.6	226/03.3	223/02.4	246/02.4
28	032/04.2	040/02.5	069/01.8	064/02.6	064/02.6	048/02.3	071/02.8	049/02.4	055/03.5	034/03.5	322/01.9	287/02.2	305/03.3
29	049/03.0	067/03.3	083/02.7	072/03.1	053/02.0	016/01.1	105/01.9	071/03.8	054/04.4	038/02.4	297/02.2	314/03.5	302/04.3
30	046/02.6	055/03.7	050/02.6	075/03.0	064/03.0	068/04.1	054/03.6	017/01.9	050/01.6	030/01.5	291/01.4	283/02.2	287/03.0
31	189/02.7	197/01.4	197/02.9	201/02.7	201/03.4	192/03.2	203/04.6	217/03.2	224/02.4	207/04.4	224/03.4	231/02.3	318/03.5
MEAN	071/03.5	074/03.2	097/02.6	094/02.6	096/02.7	109/02.9	110/02.5	110/02.3	158/02.3	207/02.9	231/03.0	230/03.0	246/03.3
MX SPD	054/05.6	205/06.4	015/06.7	172/05.0	063/05.6	170/06.9	194/05.8	203/04.1	188/04.9	341/05.2	205/06.9	222/06.5	237/05.5
MN SPD	123/01.7	022/01.2	028/01.0	048/01.1	147/00.6	166/00.8	338/01.2	091/00.8	230/00.5	162/00.7	241/01.1	228/01.5	237/01.8

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

WIND DIRECTION and SPEED in MPS for JULY, 2009 PAGE 2

HR END DAY	14	15	16	17	18	19	20	21	22	23	24	MEAN	MX SPD	MN SPD
01	262/02.1	259/04.7	241/02.2	209/04.6	188/03.7	206/05.5	241/11.6	196/08.8	274/04.2	042/05.4	053/05.8	222/03.8	241/11.6	065/00.9
02	204/07.6	193/08.3	177/09.0	189/05.2	134/06.2	112/06.2	154/04.8	190/03.1	179/03.8	175/04.2	189/03.4	173/03.9	177/09.0	157/01.1
03	183/02.6	160/02.1	193/02.1	181/02.1	205/02.1	199/02.3	197/02.7	177/01.9	054/02.5	027/07.0	029/08.0	173/02.9	029/08.0	260/00.9
04	212/02.4	244/02.3	320/02.0	258/01.8	233/02.5	248/02.8	228/06.5	262/04.0	318/03.2	122/03.7	196/03.9	222/03.8	015/06.7	051/01.4
05	203/03.3	211/03.3	224/03.1	221/03.1	199/03.5	192/03.6	178/03.5	130/03.6	113/04.7	100/04.3	056/05.1	172/03.4	056/05.1	060/01.4
06	277/04.3	276/04.4	277/03.6	300/04.0	287/04.3	321/05.4	352/06.3	012/06.7	010/04.1	049/03.3	048/04.0	277/04.3	170/06.9	048/01.1
07	200/06.1	210/05.2	216/04.8	213/05.0	288/04.6	317/05.8	331/05.8	333/04.3	057/03.6	068/04.0	056/02.6	046/03.9	200/06.1	234/01.6
08	316/04.3	339/03.1	336/03.4	296/03.3	314/03.2	344/04.5	353/06.2	001/07.2	034/06.6	037/06.2	030/05.0	002/03.7	001/07.2	074/01.3
09	231/04.6	246/03.8	276/03.2	309/02.0	321/02.7	335/03.9	353/04.6	005/04.5	042/03.5	049/03.1	055/03.2	032/03.8	063/05.2	309/02.0
10	205/04.7	208/05.2	211/05.1	190/04.8	176/03.8	154/01.9	079/02.8	054/04.3	052/03.7	057/04.5	065/03.3	102/03.8	063/05.6	154/01.9
11	235/05.7	274/04.6	231/02.8	214/03.2	306/02.0	277/05.5	261/04.4	217/02.1	090/02.6	045/02.7	068/02.8	194/02.8	235/05.7	162/00.7
12	203/05.1	186/04.8	191/06.0	216/06.8	230/05.8	227/05.1	133/03.3	140/03.9	157/03.5	165/04.4	171/05.5	160/03.5	216/06.8	182/00.7
13	308/02.9	276/03.3	268/03.7	275/04.3	313/04.3	329/04.0	335/04.3	330/08.9	006/07.0	027/07.2	023/06.2	294/04.2	330/08.9	192/01.1
14	257/02.3	245/02.6	286/03.1	259/02.4	089/01.6	034/03.1	039/05.0	054/04.8	077/03.4	064/03.1	048/02.1	031/02.9	028/05.4	133/01.2
15	208/02.2	257/02.4	278/02.8	297/01.6	326/01.9	007/02.8	052/04.8	088/04.7	076/03.7	070/03.1	051/04.3	073/02.8	052/04.8	084/01.0
16	281/01.9	283/02.5	282/02.3	288/02.4	348/02.1	061/02.2	084/05.6	087/04.4	097/04.1	083/02.9	059/03.4	095/03.0	084/05.6	209/01.2
17	302/02.9	309/04.4	327/03.9	315/04.5	360/03.9	029/03.6	062/04.9	064/04.2	084/03.6	071/03.9	069/03.7	037/03.2	069/04.9	077/01.3
18	276/03.6	298/02.8	305/05.9	339/04.3	290/02.3	258/07.1	264/08.2	246/05.4	213/07.1	244/04.5	248/04.2	286/03.9	264/08.2	241/01.1
19	273/03.7	244/02.4	293/02.6	322/03.1	234/03.4	233/02.7	273/07.3	009/04.6	053/04.5	086/03.7	054/04.0	226/03.7	273/07.3	037/01.5
20	001/02.5	329/05.2	336/04.3	004/04.9	001/04.6	042/04.7	050/06.5	044/04.9	067/03.7	076/03.4	053/03.0	025/02.9	050/06.5	147/00.6
21	245/02.5	286/02.7	313/02.8	259/02.8	335/02.5	071/02.5	085/04.9	087/04.1	091/03.1	074/03.1	062/03.4	106/02.7	085/04.9	230/00.5
22	217/03.4	251/03.3	289/03.6	304/03.2	301/02.5	354/02.6	341/01.9	051/02.2	105/03.6	090/03.1	064/01.4	212/02.7	204/05.1	166/00.8
23	222/03.7	215/04.0	244/02.5	172/02.7	011/02.8	033/02.3	031/03.6	319/08.0	301/06.8	286/02.1	182/03.0	233/03.2	319/08.0	236/01.6
24	197/02.6	224/03.2	310/03.0	346/04.2	032/02.6	045/03.2	095/05.1	206/04.3	211/04.9	176/03.7	251/04.5	202/03.2	095/05.1	202/01.4
25	266/02.6	353/02.6	241/02.2	101/02.8	032/01.9	047/03.2	029/03.6	024/04.7	350/06.8	001/04.5	096/02.7	050/02.9	350/06.8	213/01.6
26	255/02.3	301/02.5	285/02.9	286/03.6	325/03.0	119/01.4	201/01.9	112/02.4	087/01.7	056/01.3	072/02.2	244/01.9	286/03.6	244/00.7
27	286/04.0	307/04.3	315/04.8	308/05.1	307/04.6	334/04.8	023/06.5	033/07.1	030/07.2	029/05.1	051/05.5	300/03.6	030/07.2	099/00.8
28	289/03.4	302/03.7	270/03.3	322/03.7	346/03.4	037/02.7	057/02.2	091/03.9	079/03.1	058/02.9	044/03.3	027/03.0	032/04.2	069/01.8
29	318/04.7	319/05.0	332/05.2	349/05.0	345/05.0	024/05.6	042/07.3	037/05.9	031/04.9	042/03.6	051/02.7	025/03.9	042/07.3	016/01.1
30	297/03.2	318/03.6	325/04.0	328/04.5	320/04.3	279/07.0	272/07.1	249/05.5	201/06.4	180/05.2	189/04.0	344/03.7	272/07.1	291/01.4
31	308/04.2	309/03.8	320/04.0	298/04.0	296/04.4	314/04.1	049/04.8	072/04.6	058/04.1	071/04.0	060/03.2	239/03.6	049/04.8	197/01.4
MEAN	253/03.6	267/03.7	278/03.7	278/03.7	311/03.4	352/03.9	029/05.1	056/04.8	065/04.4	068/04.0	065/03.9	128/03.4		
MX SPD	204/07.6	193/08.3	177/09.0	216/06.8	134/06.2	258/07.1	241/11.6	330/08.9	030/07.2	027/07.2	029/08.0		241/11.6	
MN SPD	281/01.9	160/02.1	320/02.0	297/01.6	089/01.6	119/01.4	341/01.9	177/01.9	087/01.7	056/01.3	064/01.4			230/00.5

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 128/03.4 MAXIMUM WIND SPEED WAS 11.6 MPS AT 241 DEGREES ON 7/ 1 AT 2000

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

WIND DIRECTION and SPEED in MPS for AUGUST, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13
01	061/04.3	061/03.3	073/03.5	059/03.5	086/02.8	173/03.0	160/02.5	306/01.4	310/01.4	264/01.6	220/02.1	206/01.2	285/02.0
02	069/04.8	091/02.0	198/01.3	077/01.1	061/01.5	143/00.9	353/00.9	020/00.7	208/00.9	080/01.3	226/03.2	284/02.3	212/01.6
03	178/04.9	185/04.1	181/05.3	188/04.6	191/05.3	189/05.9	201/05.4	205/04.3	193/03.0	195/06.3	205/06.9	210/06.0	225/04.6
04	179/04.7	184/05.1	189/04.9	191/05.4	233/03.4	180/02.3	207/04.1	188/05.2	199/04.6	209/03.6	200/05.0	223/05.5	238/05.0
05	055/04.1	334/02.5	158/01.0	167/02.8	186/04.2	205/02.5	024/01.3	066/01.1	162/01.1	213/02.6	199/04.9	199/04.4	204/05.0
06	176/08.1	191/07.4	192/07.2	179/03.5	234/02.5	244/04.1	274/02.3	104/00.9	224/00.6	180/08.7	184/11.1	187/11.3	201/13.1
07	055/03.8	073/03.5	068/02.9	071/03.2	070/02.4	080/03.1	034/01.6	056/01.7	055/02.5	040/02.4	359/03.9	354/03.4	321/03.5
08	015/04.4	359/04.8	358/06.8	005/05.4	004/04.5	014/03.8	058/02.7	067/02.7	028/03.0	356/04.3	002/04.3	012/02.7	015/02.1
09	050/03.8	056/03.1	056/02.9	062/03.1	055/02.6	163/02.5	098/00.8	065/00.7	280/00.7	298/00.9	261/01.1	218/01.9	194/01.6
10	065/02.9	073/03.0	079/03.9	064/03.1	064/02.4	085/01.6	124/01.2	349/00.5	225/01.2	257/01.1	359/01.6	047/01.6	031/02.2
11	053/04.0	062/03.5	089/03.7	067/02.7	076/04.7	099/03.3	165/01.0	161/01.3	199/01.2	209/02.2	223/01.7	214/02.4	196/02.6
12	047/03.3	075/02.7	174/02.8	108/01.6	160/02.2	184/02.7	315/01.7	044/01.1	199/00.6	200/01.7	205/05.0	211/04.8	239/03.9
13	320/02.8	066/02.7	050/02.5	070/01.7	122/02.8	176/03.2	220/02.9	219/01.3	191/05.6	201/05.9	222/03.4	240/01.7	202/03.1
14	016/04.2	077/01.7	167/02.8	193/00.6	156/01.3	223/02.8	183/05.0	195/04.8	202/03.1	217/05.2	227/05.2	238/04.5	228/04.8
15	024/06.2	025/04.1	025/03.0	359/02.8	353/03.5	329/07.2	350/05.3	057/04.0	040/05.5	335/04.3	330/05.2	316/05.1	299/05.4
16	063/03.5	058/03.6	073/04.2	073/03.6	060/03.4	060/02.7	087/03.4	062/02.4	044/01.4	303/00.9	337/01.6	348/01.8	294/02.8
17	037/02.1	029/03.1	043/03.0	044/02.8	049/02.5	138/02.2	132/01.2	082/01.1	056/03.3	029/02.6	007/01.6	303/01.5	259/02.2
18	060/03.0	050/01.9	063/02.3	066/02.8	065/03.5	063/01.9	116/01.9	320/01.3	061/01.9	298/01.5	288/01.5	321/01.7	308/02.6
19	099/01.8	239/00.9	236/00.9	082/01.7	182/01.3	265/00.9	010/00.7	328/01.1	170/00.8	222/02.1	230/02.0	282/01.9	269/02.8
20	070/05.1	061/04.1	049/03.6	136/03.2	201/01.9	031/01.0	062/02.5	071/02.0	105/01.9	217/01.6	223/01.4	250/01.9	258/02.1
21	073/04.3	068/04.4	103/02.1	242/00.9	032/00.9	056/01.3	292/00.5	161/00.8	203/01.2	242/00.7	201/02.5	197/03.2	228/02.1
22	111/02.7	115/01.6	070/00.7	152/01.2	345/01.0	090/02.5	079/04.0	334/01.9	115/01.0	187/02.2	198/02.1	198/05.6	202/06.9
23	224/07.4	174/04.9	182/07.6	172/10.5	172/07.3	179/02.2	176/03.3	215/01.2	189/03.2	179/07.6	180/08.6	184/08.3	189/08.9
24	183/03.7	184/03.7	205/03.5	170/02.1	030/01.7	108/01.3	101/01.4	001/00.7	174/01.0	085/00.6	020/01.9	343/01.4	232/01.3
25	080/02.5	045/01.8	076/01.0	344/00.6	203/00.9	086/01.2	074/02.0	029/01.8	005/02.0	054/01.0	031/01.4	243/01.6	200/01.9
26	079/03.4	066/04.4	102/03.5	164/01.6	048/01.2	079/00.7	064/01.4	065/02.4	133/02.1	205/02.7	247/01.9	246/01.8	218/02.1
27	073/04.4	058/03.4	071/04.2	057/03.4	145/02.1	134/01.5	069/01.7	079/03.3	068/03.4	113/02.4	211/02.7	247/01.3	259/01.9
28	071/04.3	074/04.4	052/02.7	113/02.3	276/01.3	051/01.5	117/01.2	175/00.9	191/01.9	207/02.6	197/02.2	225/01.6	260/01.1
29	066/04.3	060/04.2	109/02.8	171/01.4	053/01.0	067/01.8	046/01.3	135/01.8	167/01.4	206/01.6	222/01.2	294/01.8	297/01.7
30	084/03.6	139/01.7	096/00.8	202/01.5	143/02.7	357/01.1	043/01.7	014/01.6	014/00.8	001/00.6	238/01.0	197/03.3	205/03.7
31	063/06.8	062/06.5	067/03.3	067/03.1	083/03.7	169/01.8	069/02.8	092/02.7	146/01.6	185/02.6	217/01.7	189/01.1	235/01.7
MEAN	070/04.2	075/03.5	097/03.2	108/02.8	096/02.7	119/02.4	085/02.2	067/01.9	161/02.1	218/02.8	235/03.2	244/03.2	241/03.4
MX SPD	176/08.1	191/07.4	182/07.6	172/10.5	172/07.3	329/07.2	201/05.4	188/05.2	191/05.6	180/08.7	184/11.1	187/11.3	201/13.1
MN SPD	099/01.8	239/00.9	070/00.7	193/00.6	032/00.9	079/00.7	292/00.5	349/00.5	224/00.6	085/00.6	238/01.0	189/01.1	260/01.1

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

WIND DIRECTION and SPEED in MPS for AUGUST, 2009 PAGE 2

HR END DAY	14	15	16	17	18	19	20	21	22	23	24	MEAN	MX SPD	MN SPD
01	277/02.6	281/03.8	342/04.3	327/03.5	339/03.0	321/02.4	077/04.0	100/04.1	089/03.9	090/04.3	090/04.4	024/03.0	090/04.4	206/01.2
02	213/02.0	243/02.8	239/04.1	224/03.7	230/02.4	249/02.0	160/01.5	100/03.7	105/03.9	117/04.7	163/03.3	169/02.4	069/04.8	020/00.7
03	239/03.7	233/03.4	221/04.4	190/05.8	188/05.7	190/04.5	181/04.9	171/04.0	166/04.4	172/04.9	178/04.9	195/04.9	205/06.9	193/03.0
04	216/05.0	185/05.5	225/03.6	208/03.7	150/01.6	317/01.7	010/02.0	051/02.5	088/04.2	069/04.4	057/04.3	193/04.1	223/05.5	150/01.6
05	207/06.3	220/06.9	194/07.3	185/07.9	188/07.3	173/09.5	156/09.4	155/08.1	164/08.1	166/08.9	167/09.3	178/05.3	173/09.5	158/01.0
06	197/13.9	191/14.4	194/14.8	201/15.9	205/16.2	207/14.3	304/17.4	322/12.9	344/07.4	050/03.7	057/04.1	204/09.0	304/17.4	224/00.6
07	319/03.9	292/02.9	245/03.3	286/05.3	272/05.3	292/05.7	324/05.9	331/04.3	336/04.1	341/06.2	001/07.6	002/03.8	001/07.6	034/01.6
08	298/02.3	302/02.9	296/04.1	307/03.8	320/03.5	340/02.3	328/02.5	343/03.3	034/03.2	093/02.8	062/02.9	001/03.5	358/06.8	015/02.1
09	071/02.0	314/03.1	307/03.4	313/03.5	304/03.0	349/02.9	038/04.8	054/04.3	072/03.1	058/02.1	050/02.5	029/02.5	038/04.8	065/00.7
10	348/02.4	320/03.2	279/02.7	288/02.0	282/02.7	324/02.1	060/05.2	082/03.4	074/03.6	080/03.5	060/03.9	035/02.5	060/05.2	349/00.5
11	217/02.8	222/03.0	226/02.9	221/02.8	243/02.8	176/02.4	198/01.4	054/01.8	068/03.4	059/04.2	070/04.5	157/02.8	076/04.7	165/01.0
12	232/04.3	229/03.9	277/03.0	238/02.9	190/02.6	180/03.3	184/01.7	099/01.3	147/02.6	145/02.1	005/02.6	185/02.7	205/05.0	199/00.6
13	205/04.5	210/04.7	182/04.4	228/05.0	274/04.9	212/05.9	208/05.2	218/01.4	166/03.2	176/05.0	332/03.6	204/03.6	201/05.9	219/01.3
14	262/04.8	271/03.4	269/03.9	297/04.6	297/04.8	293/04.8	318/03.3	025/09.9	020/07.9	023/07.3	023/08.6	252/04.6	025/09.9	193/00.6
15	308/05.6	315/05.0	330/04.1	014/03.5	002/02.8	028/02.8	037/02.4	089/01.3	109/03.3	086/02.8	064/04.1	009/04.1	329/07.2	089/01.3
16	296/03.5	267/03.7	274/03.5	289/03.1	317/03.0	017/03.4	019/03.6	057/02.5	082/03.4	025/02.6	026/03.0	019/02.9	073/04.2	303/00.9
17	202/02.6	284/02.3	312/04.1	296/03.5	330/02.6	358/03.5	033/04.4	045/05.0	073/03.5	047/03.1	038/03.2	026/02.8	045/05.0	082/01.1
18	258/03.4	266/04.4	276/04.2	315/04.1	323/03.1	014/01.4	098/01.2	100/01.4	122/01.6	015/01.0	047/02.4	018/02.3	266/04.4	015/01.0
19	234/02.6	272/02.7	271/02.7	306/02.2	352/03.6	342/02.4	336/01.5	108/03.0	104/03.6	085/03.2	067/03.5	274/02.1	352/03.6	010/00.7
20	249/01.6	226/01.7	267/02.1	277/02.0	309/03.1	308/02.9	001/03.6	060/04.1	071/04.0	081/04.0	077/03.7	045/02.7	070/05.1	031/01.0
21	226/02.1	243/01.8	339/02.4	002/02.2	322/02.2	002/02.4	052/04.6	084/04.1	063/03.4	059/04.1	074/04.1	056/02.4	052/04.6	292/00.5
22	213/05.1	221/04.8	232/03.5	226/02.7	269/02.2	312/01.9	004/02.3	109/03.6	204/09.3	204/11.5	205/10.8	183/03.8	204/11.5	070/00.7
23	207/08.7	242/07.9	257/06.9	283/08.5	308/08.2	353/02.4	294/01.4	248/04.2	287/03.7	251/02.1	180/02.6	215/05.7	172/10.5	215/01.2
24	100/01.6	015/02.4	349/03.4	305/04.7	272/02.8	279/02.7	122/03.7	141/03.2	187/02.6	145/01.5	101/01.7	129/02.3	305/04.7	085/00.6
25	238/02.3	252/03.0	273/02.6	251/03.3	271/03.2	306/02.4	342/03.3	034/04.6	072/03.9	072/03.8	075/03.4	021/02.3	034/04.6	344/00.6
26	228/02.4	273/02.1	328/02.3	308/03.6	304/03.4	005/01.8	068/04.6	091/04.0	099/04.4	063/04.1	072/04.0	076/02.7	068/04.6	079/00.7
27	293/02.2	339/02.6	002/03.2	003/03.7	020/03.6	037/03.8	055/02.9	048/01.6	052/02.4	079/04.2	072/03.9	057/02.9	073/04.4	247/01.3
28	273/02.0	297/02.2	302/02.7	314/02.7	296/02.0	008/02.5	079/04.1	077/04.0	071/03.8	067/04.3	074/04.5	067/02.6	074/04.5	175/00.9
29	286/01.1	281/02.0	328/02.1	284/02.2	331/02.9	030/03.0	054/04.1	079/02.9	093/03.8	071/04.8	068/04.3	052/02.5	071/04.8	053/01.0
30	196/04.8	191/06.8	183/06.0	190/06.4	225/06.3	293/03.5	332/02.7	072/03.7	046/05.7	042/06.0	065/06.0	116/03.4	191/06.8	001/00.6
31	256/02.0	286/03.2	286/02.8	264/02.0	256/01.6	021/01.4	187/02.1	166/02.1	059/03.9	095/02.7	098/02.9	133/02.8	063/06.8	189/01.1
MEAN	244/03.7	261/04.0	274/04.0	276/04.2	287/03.9	327/03.5	033/03.9	079/03.9	086/04.2	080/04.2	069/04.3	107/03.4		
MX SPD	197/13.9	191/14.4	194/14.8	201/15.9	205/16.2	207/14.3	304/17.4	322/12.9	204/09.3	204/11.5	205/10.8		304/17.4	
MN SPD	286/01.1	226/01.7	267/02.1	288/02.0	150/01.6	014/01.4	098/01.2	099/01.3	122/01.6	015/01.0	101/01.7			349/00.5

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 107/03.4 MAXIMUM WIND SPEED WAS 17.4 MPS AT 304 DEGREES ON 8/ 6 AT 2000

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

WIND DIRECTION and SPEED in MPS for SEPTEMBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13
01	052/02.9	072/02.6	103/02.6	102/04.1	268/01.4	103/01.7	173/01.8	089/01.7	143/01.0	266/01.0	201/04.7	199/05.2	223/04.4
02	075/03.7	063/04.6	057/02.9	079/02.9	079/03.6	192/01.4	166/02.5	087/02.3	071/02.4	175/01.6	229/02.1	294/01.0	307/01.4
03	107/02.5	100/01.4	072/02.2	159/01.3	046/02.3	040/02.6	123/02.5	080/01.2	335/01.1	190/01.6	159/01.5	196/03.1	231/03.3
04	349/01.7	059/01.2	021/01.9	026/01.8	349/02.2	047/01.6	006/01.2	062/00.7	052/01.0	287/01.3	189/03.1	186/03.4	205/01.9
05	198/04.7	174/04.7	150/01.8	178/00.8	131/01.3	172/02.6	176/04.0	241/01.8	177/02.9	185/06.0	202/05.2	188/04.9	190/07.2
06	167/03.6	187/04.0	205/04.6	188/04.2	199/03.9	204/03.3	223/01.9	195/03.2	183/05.0	184/08.3	186/08.8	188/08.7	189/08.1
07	273/02.7	187/02.0	108/02.1	062/02.9	044/02.6	074/02.3	048/02.5	078/02.7	028/01.4	019/02.4	316/01.7	239/01.5	222/02.0
08	043/04.2	051/03.7	056/04.9	025/03.8	029/03.4	055/04.1	043/02.9	055/04.1	014/02.8	028/03.6	042/05.5	047/04.1	020/03.7
09	065/02.5	065/04.2	118/02.7	097/00.9	080/01.9	141/01.8	169/01.0	121/00.7	166/02.3	180/03.4	183/04.1	192/04.2	216/03.0
10	072/04.7	148/03.9	172/02.0	131/01.3	008/01.0	092/01.5	354/01.2	111/01.4	007/00.6	139/00.4	250/01.0	222/01.7	230/01.9
11	057/03.0	059/03.0	079/04.4	053/02.9	074/03.6	070/02.3	083/02.4	253/01.5	175/02.1	190/02.0	233/01.2	307/01.7	333/01.8
12	078/03.5	043/02.2	060/02.2	077/03.7	083/04.4	101/02.5	063/01.2	165/02.5	209/02.5	240/01.0	288/00.9	220/01.7	198/02.0
13	042/01.9	041/03.0	107/04.0	173/02.2	176/02.0	282/02.4	091/01.8	303/01.1	166/01.3	206/03.7	198/06.9	199/07.2	216/04.9
14	188/04.3	179/05.9	183/05.3	184/05.3	183/04.8	190/04.6	182/04.1	207/02.8	191/04.1	177/09.2	181/10.3	201/09.9	233/07.3
15	011/01.2	259/01.2	140/01.0	125/01.2	172/01.6	192/00.4	167/01.2	353/01.3	085/00.5	142/00.8	233/00.9	349/01.3	032/01.7
16	126/01.9	215/00.5	168/00.8	145/01.3	118/00.6	023/01.2	058/00.9	279/00.9	150/00.7	223/01.1	273/00.9	270/00.9	333/01.6
17	064/03.4	089/03.1	149/01.4	249/01.8	127/01.6	091/01.3	007/01.1	117/00.9	191/03.1	194/04.1	230/02.5	245/01.3	259/01.4
18	072/03.0	082/02.5	118/01.7	174/01.5	047/01.1	101/01.0	045/01.1	055/01.5	051/01.1	201/02.0	195/03.5	203/02.6	229/01.7
19	130/00.9	057/00.6	109/00.9	334/01.7	068/02.1	102/02.0	325/00.9	067/01.6	006/01.3	187/01.5	187/03.5	200/06.1	198/06.1
20	152/04.2	179/04.5	192/04.6	186/04.5	182/03.3	188/04.4	213/01.7	310/05.4	344/05.6	342/03.7	335/05.2	334/04.5	352/04.6
21	020/04.6	014/03.3	013/05.0	359/05.9	352/06.4	003/04.9	004/05.1	002/04.5	001/04.8	003/05.6	006/05.9	348/06.1	005/06.0
22	062/03.4	029/02.0	047/02.8	082/03.2	166/02.2	156/00.8	189/00.5	053/01.2	168/00.9	208/02.0	232/01.7	262/01.3	321/02.2
23	080/02.9	074/02.8	053/01.0	097/00.8	100/01.1	356/01.0	179/01.1	178/01.5	199/01.8	199/02.0	232/01.1	339/01.5	006/02.8
24	060/02.5	090/03.5	189/01.9	018/02.2	046/01.1	075/01.0	133/00.7	155/01.4	087/01.2	207/03.0	241/02.9	219/02.0	218/02.1
25	045/01.6	212/01.2	125/01.3	072/00.9	051/01.4	043/02.2	172/01.8	140/01.2	353/01.2	321/00.7	224/01.9	250/01.7	265/01.5
26	117/00.8	002/00.8	057/00.9	174/02.1	093/01.1	027/00.7	208/01.5	203/01.2	355/00.7	199/00.8	205/02.2	208/03.2	212/03.7
27	086/03.6	140/02.6	185/01.9	334/01.4	039/01.4	024/01.7	125/01.6	178/02.3	174/02.5	216/01.8	263/02.0	309/01.6	326/02.6
28	055/02.6	124/02.3	089/03.2	113/01.6	103/02.4	042/01.1	186/01.3	181/01.3	158/01.3	147/01.3	194/03.1	206/04.3	200/01.9
29	182/05.7	188/04.7	239/03.8	225/04.9	209/04.8	227/02.8	167/04.1	199/03.5	182/03.9	184/05.4	188/07.2	204/05.5	207/06.6
30	337/09.2	339/08.2	331/10.4	323/09.5	333/07.7	332/03.6	323/03.5	325/04.2	319/07.2	317/05.8	320/09.6	315/09.1	317/07.6
MEAN	076/03.2	095/03.0	112/02.9	110/02.8	085/02.6	084/02.2	134/02.0	126/02.1	122/02.3	203/02.9	225/03.7	237/03.7	251/03.6
MX SPD	337/09.2	339/08.2	331/10.4	323/09.5	333/07.7	003/04.9	004/05.1	310/05.4	319/07.2	177/09.2	181/10.3	201/09.9	189/08.1
MN SPD	117/00.8	215/00.5	168/00.8	178/00.8	118/00.6	192/00.4	189/00.5	062/00.7	085/00.5	139/00.4	288/00.9	270/00.9	307/01.4

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

WIND DIRECTION and SPEED in MPS for SEPTEMBER, 2009 PAGE 2

HR END DAY	14	15	16	17	18	19	20	21	22	23	24	MEAN	MX SPD	MN SPD
01	226/03.5	213/02.7	186/02.3	271/02.3	095/01.7	066/01.6	041/02.5	067/03.8	066/04.7	071/04.5	063/03.7	121/02.8	199/05.2	143/01.0
02	293/02.3	254/02.1	287/03.5	299/02.5	300/03.1	321/03.1	093/03.4	099/02.7	073/03.7	066/03.6	087/03.9	061/02.8	063/04.6	294/01.0
03	295/02.6	279/01.4	044/02.1	313/01.9	188/02.0	085/04.4	094/03.7	092/03.5	135/02.1	268/01.0	061/02.2	106/02.2	085/04.4	268/01.0
04	236/01.6	318/02.5	306/03.5	091/06.0	100/06.7	052/03.5	139/02.6	248/03.8	152/03.7	178/03.1	243/03.0	041/02.6	100/06.7	062/00.7
05	175/05.4	194/05.7	178/05.3	174/05.5	187/05.5	185/05.5	188/03.8	175/03.3	171/04.2	177/03.3	166/02.2	180/04.1	190/07.2	178/00.8
06	187/05.9	197/04.9	182/05.7	192/05.8	185/06.1	184/05.6	185/04.8	171/03.9	173/05.1	188/05.4	239/04.7	191/05.2	186/08.8	223/01.9
07	299/02.2	304/02.7	309/03.1	312/04.6	316/03.9	318/02.4	359/03.3	028/03.4	042/06.0	041/07.4	033/05.9	002/03.1	041/07.4	028/01.4
08	019/03.7	007/03.3	033/02.4	032/02.7	057/02.5	046/04.7	036/05.4	051/04.1	059/03.5	070/04.3	057/03.4	041/03.8	042/05.5	033/02.4
09	228/02.8	231/02.7	266/02.5	305/02.1	348/01.7	014/02.1	053/03.2	080/03.9	058/03.1	064/03.3	068/03.4	116/02.6	065/04.2	121/00.7
10	233/01.8	286/03.7	301/02.7	323/04.2	334/02.1	004/02.6	054/02.7	090/03.3	065/03.0	054/03.0	062/03.4	051/02.3	072/04.7	139/00.4
11	297/02.7	293/02.3	329/04.2	323/04.4	328/03.3	348/03.9	033/03.6	067/03.5	068/02.9	046/02.0	022/02.5	019/02.8	079/04.4	233/01.2
12	235/01.6	178/01.5	009/02.3	314/02.2	017/02.7	065/06.1	062/04.1	063/02.8	034/02.3	079/02.3	104/02.2	079/02.5	065/06.1	288/00.9
13	181/06.5	169/06.0	137/03.6	065/04.6	012/05.2	110/06.8	109/06.3	116/05.4	160/07.8	173/06.8	189/05.2	152/04.4	160/07.8	303/01.1
14	286/03.1	332/01.9	259/10.1	305/04.7	059/02.5	114/03.2	126/05.2	116/03.5	190/02.0	296/01.7	123/02.2	190/04.9	181/10.3	296/01.7
15	283/01.3	291/03.9	288/03.6	302/03.3	235/02.5	121/02.9	137/01.8	183/02.4	073/01.2	058/02.6	041/01.9	144/01.7	291/03.9	192/00.4
16	301/02.4	004/03.6	338/03.8	344/04.5	013/03.3	039/03.0	037/03.4	063/02.5	039/02.3	072/02.8	068/03.1	030/02.0	344/04.5	215/00.5
17	269/02.3	271/02.4	256/02.0	139/01.5	218/01.8	260/01.1	160/02.3	094/04.3	086/03.8	051/03.8	060/03.9	168/02.3	094/04.3	117/00.9
18	245/01.6	250/02.2	292/02.7	292/02.7	318/02.0	312/01.9	002/02.5	068/03.5	075/03.5	056/02.7	079/04.0	066/02.2	079/04.0	101/01.0
19	199/04.1	227/02.9	238/03.6	255/03.5	276/02.3	294/02.6	230/04.1	197/03.9	068/03.7	187/01.3	203/07.1	197/02.8	203/07.1	057/00.6
20	332/05.1	322/04.5	313/04.6	349/06.4	352/06.3	349/06.8	013/05.1	014/04.6	026/04.9	337/09.1	032/03.7	334/04.9	337/09.1	213/01.7
21	004/05.4	007/05.3	007/04.9	353/05.2	334/05.8	315/05.0	331/02.3	048/01.4	081/01.2	062/02.3	067/01.8	008/04.5	352/06.4	081/01.2
22	321/03.0	300/04.2	311/05.1	326/03.2	279/02.9	339/02.5	308/02.0	023/01.7	064/02.6	063/02.5	059/02.0	358/02.3	311/05.1	189/00.5
23	359/03.9	011/04.1	025/03.8	028/04.7	029/04.5	030/04.7	029/03.5	071/02.0	092/01.4	138/02.2	028/02.5	055/02.4	028/04.7	097/00.8
24	242/01.8	288/02.4	281/02.6	338/01.9	319/01.8	032/03.3	052/03.0	030/02.0	036/02.2	074/03.3	050/02.1	053/02.2	090/03.5	133/00.7
25	291/01.7	312/01.8	293/01.9	303/01.3	316/01.5	035/01.5	095/03.6	127/01.8	344/02.3	132/01.6	028/00.9	360/01.6	095/03.6	321/00.7
26	222/03.2	261/02.9	274/03.5	240/02.2	213/02.8	196/04.1	189/04.6	180/04.8	182/04.8	201/04.4	300/02.7	207/02.5	180/04.8	027/00.7
27	305/03.5	307/03.3	299/02.8	333/02.8	002/02.1	028/02.4	090/04.1	096/03.8	023/03.5	045/03.0	067/03.8	019/02.6	090/04.1	334/01.4
28	205/02.4	204/03.1	190/03.6	187/05.1	185/06.2	174/04.9	163/04.3	148/05.5	180/06.1	172/05.7	187/05.9	164/03.4	185/06.2	042/01.1
29	192/09.5	188/10.4	190/12.0	195/13.9	197/13.7	198/12.1	194/12.0	189/10.2	241/08.8	323/12.0	327/09.4	204/07.8	195/13.9	227/02.8
30	323/07.5	299/07.6	288/07.9	309/08.3	314/08.2	322/08.0	322/06.4	331/06.5	329/08.8	327/06.4	327/05.4	322/07.4	331/10.4	323/03.5
MEAN	265/03.5	277/03.6	290/04.1	311/04.1	322/03.9	021/04.1	077/04.0	092/03.7	079/03.8	078/03.9	060/03.6	105/03.3		
MX SPD	192/09.5	188/10.4	190/12.0	195/13.9	197/13.7	198/12.1	194/12.0	189/10.2	241/08.8	323/12.0	327/09.4		195/13.9	
MN SPD	283/01.3	279/01.4	293/01.9	303/01.3	316/01.5	260/01.1	137/01.8	048/01.4	073/01.2	268/01.0	028/00.9			139/00.4

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 720 DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 105/03.3 MAXIMUM WIND SPEED WAS 13.9 MPS AT 195 DEGREES ON 9/29 AT 1700

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

WIND DIRECTION and SPEED in MPS for OCTOBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13
01	330/05.1	318/05.7	347/03.6	340/02.3	052/02.0	239/01.3	189/01.5	246/01.1	224/01.8	247/01.9	315/03.0	314/02.5	309/02.5
02	064/02.4	081/02.3	066/02.4	074/02.6	161/00.6	055/00.5	070/00.9	076/01.0	007/01.2	043/01.1	311/01.1	283/01.3	263/01.1
03	070/03.5	064/04.5	121/03.2	310/02.1	327/01.2	274/00.9	049/01.1	128/01.4	185/02.6	194/03.0	166/04.0	215/03.5	191/03.4
04	230/03.2	227/01.9	240/01.6	078/02.2	002/03.2	356/03.6	169/08.9	180/09.4	282/05.8	299/05.1	297/08.9	253/07.4	277/06.5
05	155/01.2	204/02.4	065/01.6	031/01.3	169/01.2	179/01.4	191/03.0	192/01.7	245/00.6	178/02.1	192/03.4	236/02.5	265/02.2
06	063/02.7	047/03.9	024/03.6	040/03.5	068/02.9	075/03.0	064/03.0	060/02.4					
07	079/03.7	127/01.8	004/01.2	061/01.0	079/03.3	044/02.6	046/02.4	137/02.0	191/02.1	201/02.8	219/01.6	208/01.7	251/01.7
08	216/00.8	189/01.1	145/01.0	060/01.1	069/02.0	057/02.6	071/01.5	057/01.8	055/01.2	026/02.5	356/03.1	327/02.6	337/03.5
09	138/00.5	049/01.1	064/00.6	104/00.4	336/00.6	163/01.6	322/00.8	282/00.8	189/02.7	197/05.2	192/06.6	193/06.3	213/05.4
10	010/04.0	033/02.9	033/02.5	030/02.8	058/01.8	130/01.0	094/01.1	075/02.9	054/01.2	011/00.9	360/01.4	347/03.6	001/03.3
11	071/03.2	074/03.2	074/02.8	067/03.2	052/03.1	109/02.3	172/06.7	223/05.4	298/02.5	098/01.3	234/01.6	194/03.2	198/04.9
12	080/02.3	122/02.5	180/02.2	348/01.3	353/01.6	066/01.7	136/00.5	030/01.0	115/00.8	182/00.9	225/01.7	206/03.1	197/03.3
13	189/05.3	189/05.0	185/04.1	177/04.4	187/04.9	180/04.5	174/04.7	174/04.5	175/04.9	178/08.3	180/10.2	187/10.0	191/10.9
14	179/05.8	176/03.9	210/04.0	167/02.1	291/01.5	351/01.7	094/02.1	192/04.0	174/01.7	195/01.1	205/04.6	188/07.8	187/08.2
15	098/03.6	129/02.1	185/02.1	357/01.6	066/02.4	077/01.7	062/02.0	057/02.9	042/02.2	053/03.8	032/02.8	316/01.8	263/01.9
16	054/02.8	067/03.3	189/01.3	101/00.8	051/01.2	055/01.7	102/01.5	281/00.9	170/01.4	257/00.8	337/01.6	281/01.9	252/02.0
17	078/03.0	079/03.8	103/01.6	142/01.1	210/00.9	210/01.1	142/01.1	172/02.4	152/01.1	196/02.0	217/03.4	205/02.9	224/02.1
18	056/01.9	181/01.7	132/01.1	232/01.1	134/01.1	269/01.1	109/01.6	055/01.4	075/01.5	038/01.0	191/01.6	206/04.3	210/02.2
19	185/04.0	205/04.0	217/04.1	264/04.1	342/02.8	005/04.4	033/01.6	035/01.4	055/03.3	066/04.2	050/02.2	285/01.1	214/01.5
20	277/02.8	239/02.3	256/02.4	284/02.9	123/01.0	164/00.7	029/02.1	349/01.7	029/01.7	013/02.7	355/03.8	353/04.0	341/05.6
21	031/02.6	027/02.0	056/02.6	044/01.7	036/02.1	072/02.4	067/02.3	031/01.4	348/01.1	299/01.7	293/02.4	319/02.9	332/02.9
22	064/01.6	079/01.8	012/01.3	176/01.0	024/00.7	020/01.7	033/01.7	012/01.4	017/01.4	067/00.9	198/01.6	192/02.7	193/02.6
23	069/03.6	166/02.2	170/00.9	162/00.5	249/00.7	015/01.6	114/00.6	196/02.1	199/01.5	150/01.2	212/02.6	199/03.1	188/04.2
24	296/03.5	219/05.1	055/02.6	168/01.4	111/00.9	197/02.2	189/03.6	197/02.9	151/01.8	216/02.1	194/04.4	196/05.6	189/06.0
25	346/04.2	007/03.4	058/02.0	077/03.1	061/03.2	063/03.4	066/03.9	054/02.4	063/02.3	055/02.1	027/01.4	015/02.9	322/02.2
26	033/01.1	177/01.2	204/01.0	334/00.6	344/00.9	044/00.4	063/00.6	032/00.5	145/00.5	148/01.2	199/02.0	208/03.0	192/05.9
27	186/10.0	311/09.6	346/05.2	331/11.1	336/10.3	358/06.8	109/01.9	336/04.8	336/07.0	329/08.3	330/09.4	332/08.3	321/08.6
28	351/05.9	352/05.3	348/05.5	349/05.3	348/04.7	354/06.1	346/06.9	351/07.5	355/09.3	341/08.0	356/11.5	002/13.6	007/14.1
29	273/01.8	353/02.1	350/04.5	344/06.0	101/01.2	112/01.2	119/01.5	108/01.2	117/01.1	073/01.1	348/02.7	325/03.0	326/03.2
30	104/01.2	199/01.7	182/02.8	178/03.1	180/04.7	186/04.4	203/04.2	186/03.5	189/03.7	190/04.0	181/05.9	186/06.7	187/06.8
31	213/01.6	227/00.8	322/01.2	009/01.0	360/01.2	133/00.9	169/01.1	034/01.5	032/01.2	221/01.2	215/02.0	202/03.5	213/04.0
MEAN	077/03.2	129/03.1	089/02.5	045/02.5	046/02.3	075/02.3	100/02.5	080/02.6	112/02.4	159/02.8	251/03.8	247/04.2	244/04.4
MX SPD	186/10.0	311/09.6	348/05.5	331/11.1	336/10.3	358/06.8	169/08.9	180/09.4	355/09.3	178/08.3	356/11.5	002/13.6	007/14.1
MN SPD	138/00.5	227/00.8	064/00.6	104/00.4	161/00.6	044/00.4	136/00.5	032/00.5	145/00.5	257/00.8	311/01.1	285/01.1	263/01.1

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

WIND DIRECTION and SPEED in MPS for OCTOBER, 2009 PAGE 2

HR END DAY	14	15	16	17	18	19	20	21	22	23	24	MEAN	MX SPD	MN SPD
01	285/01.8	245/02.1	265/02.2	322/01.9	323/02.1	137/00.7	073/01.1	106/02.2	169/01.0	096/01.7	068/01.9	297/02.2	318/05.7	137/00.7
02	264/01.7	306/01.9	256/01.7	275/02.7	309/02.3	344/02.7	025/02.6	052/02.1	071/03.5	055/03.0	054/04.2	023/02.0	054/04.2	055/00.5
03	206/02.7	187/03.9	183/02.8	179/03.6	169/05.0	129/03.7	052/02.7	030/03.0	048/02.9	192/04.9	205/04.9	161/03.1	169/05.0	274/00.9
04	325/05.4	317/04.6	008/04.0	038/02.3	301/03.7	331/04.4	066/02.5	067/02.7	040/02.4	039/01.3	060/01.7	331/04.3	180/09.4	039/01.3
05	276/02.2	279/03.0	282/02.8	310/02.8	318/03.1	319/03.5	319/02.7	341/02.6	048/03.0	084/03.8	060/03.1	249/02.4	084/03.8	245/00.6
06	343/02.3	313/02.7	016/02.7	016/02.6	347/04.5	043/05.2	034/03.3	062/03.1	064/03.4	069/03.7	067/03.0	041/03.2	043/05.2	343/02.3
07	311/01.7	306/01.6	273/02.0	294/02.4	278/01.8	288/01.7	341/00.7	091/01.0	350/01.9	058/02.9	063/01.5	001/02.0	079/03.7	341/00.7
08	312/08.0	316/06.9	311/06.7	322/06.1	334/05.9	354/04.4	008/02.8	067/01.7	090/02.6	150/02.6	244/01.0	018/03.1	312/08.0	216/00.8
09	238/03.8	279/04.0	276/03.1	300/03.9	280/01.9	350/04.5	037/03.6	050/02.9	023/02.7	007/04.9	030/03.0	310/03.0	192/06.6	104/00.4
10	003/02.2	333/03.1	318/01.7	337/01.7	014/01.5	008/02.1	031/02.0	015/01.8	044/03.0	046/02.9	047/02.7	024/02.3	010/04.0	011/00.9
11	214/05.1	239/04.9	262/03.6	308/02.1	054/03.7	075/04.1	065/04.4	043/04.3	055/05.0	070/04.7	070/03.9	090/03.7	172/06.7	098/01.3
12	196/05.8	197/06.5	200/05.4	187/05.8	190/04.5	172/04.9	173/04.6	192/03.4	184/05.9	201/03.0	190/05.5	175/03.3	197/06.5	136/00.5
13	194/10.8	194/11.1	192/09.1	192/10.0	189/10.2	196/10.0	192/07.2	196/08.0	191/09.8	187/10.9	191/07.9	187/07.8	194/11.1	185/04.1
14	194/07.9	186/05.5	174/05.1	206/06.0	132/02.4	117/01.6	120/01.0	257/01.6	021/02.1	109/02.5	144/01.4	174/03.6	187/08.2	120/01.0
15	302/03.0	293/03.4	299/02.2	315/02.2	353/02.3	001/02.0	037/02.5	106/02.1	084/01.3	055/03.3	062/03.6	034/02.4	053/03.8	084/01.3
16	293/02.6	302/02.5	298/02.9	321/03.6	336/03.9	001/03.7	027/02.8	053/02.5	053/02.2	054/03.5	061/03.1	008/02.3	336/03.9	101/00.8
17	241/01.7	221/01.9	211/01.4	195/01.6	176/02.0	264/01.3	028/03.4	072/03.5	072/03.8	073/03.4	053/02.6	165/02.2	079/03.8	210/00.9
18	202/05.2	201/05.8	206/05.5	198/05.8	182/04.8	175/03.2	245/01.7	226/02.5	212/02.4	238/02.2	205/01.7	189/02.6	201/05.8	038/01.0
19	070/01.6	274/02.2	335/10.1	356/09.4	001/08.8	003/06.6	054/03.8	037/06.1	063/06.5	081/03.3	115/04.7	024/04.2	335/10.1	285/01.1
20	002/06.0	001/07.1	013/06.1	021/05.8	021/06.0	004/04.9	003/04.5	357/04.2	043/02.6	053/01.9	037/02.5	004/03.6	001/07.1	164/00.7
21	327/02.5	319/03.8	304/03.0	299/03.0	310/02.2	344/01.9	105/03.1	295/03.0	144/00.8	139/01.2	130/01.5	002/02.3	319/03.8	144/00.8
22	219/02.0	263/01.9	274/01.8	199/01.5	162/01.3	181/01.6	108/01.3	060/01.3	093/01.3	079/01.2	051/02.9	090/01.6	051/02.9	024/00.7
23	205/04.1	215/02.9	200/01.9	217/01.6	167/01.9	190/02.3	183/02.6	184/03.8	192/01.3	303/00.9	320/02.8	191/02.1	188/04.2	162/00.5
24	188/04.6	208/03.4	233/02.9	342/05.0	356/06.6	356/07.2	022/03.2	008/04.3	034/03.8	006/06.4	002/06.7	207/04.0	356/07.2	111/00.9
25	304/01.8	340/02.1	340/02.4	359/03.2	022/03.1	064/03.1	081/02.7	070/03.6	083/01.1	049/01.9	086/01.8	038/02.6	346/04.2	083/01.1
26	186/06.5	191/07.0	191/07.9	181/06.7	182/05.2	196/04.8	148/02.1	184/04.4	181/07.6	186/09.4	187/09.7	175/03.8	187/09.7	044/00.4
27	321/10.6	324/09.7	325/10.2	326/10.3	337/09.0	328/07.8	321/09.8	329/08.4	019/04.1	347/05.0	338/03.5	334/07.9	331/11.1	109/01.9
28	007/14.0	010/14.6	002/14.0	002/13.8	003/13.7	356/11.9	358/10.0	338/08.6	329/07.7	328/06.1	095/01.5	355/09.2	010/14.6	095/01.5
29	333/04.0	327/03.6	312/04.0	336/03.6	352/02.1	060/00.7	221/01.4	233/01.5	269/02.6	318/01.1	103/00.7	354/02.3	344/06.0	060/00.7
30	184/05.5	190/05.2	177/03.7	159/02.2	168/02.0	189/02.6	168/01.8	191/02.0	156/01.8	160/02.1	180/01.9	179/03.5	187/06.8	104/01.2
31	215/03.1	206/03.7	203/03.6	202/03.2	210/02.8	232/01.4	098/02.9	090/02.2	096/00.8	054/02.5	058/04.1	183/02.1	058/04.1	227/00.8
MEAN	264/04.5	269/04.6	270/04.4	294/04.4	319/04.2	360/03.9	054/03.3	056/03.4	073/03.3	069/03.5	080/03.3	046/03.4		
MX SPD	007/14.0	010/14.6	002/14.0	002/13.8	003/13.7	356/11.9	358/10.0	338/08.6	191/09.8	187/10.9	187/09.7		010/14.6	
MN SPD	070/01.6	306/01.6	211/01.4	199/01.5	162/01.3	137/00.7	341/00.7	091/01.0	144/00.8	303/00.9	103/00.7			104/00.4

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 739 DATA RECOVERY RATE = 99.3 %

MONTHLY MEAN = 046/03.4 MAXIMUM WIND SPEED WAS 14.6 MPS AT 10 DEGREES ON 10/28 AT 1500

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

WIND DIRECTION and SPEED in MPS for NOVEMBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13
01	042/02.6	104/00.9	108/00.8	073/01.1	056/01.4	045/00.9	096/00.8	033/01.2	292/00.6	007/01.1	187/01.1	187/02.7	198/02.8
02	022/02.6	131/02.5	110/02.0	071/03.9	054/03.5	066/03.7	080/03.4	063/02.4	088/03.9	173/02.4	187/03.3	189/03.4	196/04.1
03	351/00.4	200/00.8	141/01.1	034/01.5	273/00.6	186/00.9	053/00.6	112/01.0	021/00.8	225/00.9	234/00.7	249/01.1	237/01.6
04	159/00.8	171/02.0	168/01.8	178/01.0	175/00.6	095/00.9	103/00.6	012/01.8	358/01.2	239/01.1	221/01.0	247/00.9	222/01.0
05	191/00.7	011/00.6	005/01.8	070/02.8	019/01.9	052/01.7	087/02.2	181/01.0	351/00.7	191/00.6	218/01.2	182/03.4	190/03.8
06	189/04.0	176/04.8	182/04.8	199/04.2	205/03.7	201/04.2	187/05.1	190/04.7	201/04.0	195/05.7	207/07.1	220/06.9	231/05.3
07	082/03.7	086/02.6	295/01.4	059/01.5	254/01.5	134/01.8	152/01.7	047/03.0	100/02.8	312/01.6	029/01.6	100/01.5	355/01.7
08	055/03.9	074/03.8	075/03.4	069/04.0	065/03.7	056/02.7	067/03.8	055/03.3	053/01.5	021/01.7	001/02.1	004/02.0	339/03.1
09	083/03.3	113/02.4	197/01.3	001/01.2	033/00.9	186/01.5	102/00.9	013/00.6	129/00.9	192/02.4	209/02.9	206/02.9	197/02.0
10	117/00.9	142/00.2	200/00.8	093/00.9	006/01.0	087/01.2	346/01.3	073/02.4	134/02.2	281/01.7	285/01.8	286/01.0	341/01.0
11	144/00.7	004/00.3	297/00.9	018/00.8	209/01.4	335/01.1	055/01.5	160/01.6	245/01.1	339/01.4	333/00.9	356/00.8	202/01.0
12	292/01.0	234/02.1	210/03.4	197/04.7	258/02.7	205/03.4	169/04.0	177/03.7	264/01.7	002/02.1	008/02.0	001/03.8	347/04.6
13	052/01.7	046/02.2	007/02.7	030/02.3	029/01.5	025/02.5	054/02.7	067/02.7	051/02.9	342/00.8	343/02.2	311/02.6	300/02.3
14	046/01.2	059/00.8	016/00.9	120/01.2	165/02.1	304/01.9	082/01.6	209/01.2	318/07.6	337/07.4	329/04.9	351/01.6	323/03.5
15	118/00.8	144/00.8	131/01.1	325/00.5	031/00.8	058/01.1	022/01.3	170/01.7	229/01.0	201/01.4	198/01.8	239/01.0	222/01.2
16	262/00.6	059/01.8	058/01.3	089/01.1	064/02.6	068/01.6	296/00.5	117/01.3	151/00.6	202/01.4	211/01.9	201/01.0	254/00.9
17	209/00.8	099/00.7	070/00.5	100/00.3	021/00.5	237/00.1	105/00.7	111/00.4	037/00.7	182/01.3	214/01.5	206/01.3	221/01.0
18	056/00.8	133/01.9	341/01.4	150/01.1	128/01.3	359/01.5	054/02.0	039/02.6	030/01.7	006/01.0	294/01.6	281/01.2	301/03.2
19	078/03.6	054/02.5	067/03.9	031/03.0	226/01.6	168/01.5	195/00.9	196/00.6	175/01.2	210/02.3	200/02.7	205/02.7	195/01.7
20	344/01.7	324/00.3	130/00.4	037/02.1	065/01.2	176/01.2	187/00.7	039/00.9	043/01.7	006/00.7	088/01.9	101/01.3	036/01.4
21	279/05.9	048/02.9	040/03.5	351/02.8	152/01.4	093/02.4	073/02.1	018/01.7	029/02.5	350/02.8	355/03.0	342/06.8	339/05.7
22	047/04.1	188/01.6	214/01.2	209/02.5	175/01.4	199/02.5	181/02.0	127/01.0	047/00.8	349/00.9	239/02.6	203/06.5	204/07.5
23	043/01.5	083/03.0	229/01.2	118/01.0	220/01.8	180/02.6	192/04.2	171/03.1	080/01.1	237/00.6	211/01.5	295/01.6	302/02.5
24	163/00.6	336/00.5	134/01.0	070/00.9	039/00.9	029/00.5	360/00.7	088/00.5	263/00.5	205/01.5	204/02.2	220/01.1	254/01.1
25	136/01.8	298/01.5	049/01.5	074/00.8	306/00.7	146/01.4	188/01.0	209/01.2	181/00.8	190/01.6	209/02.2	244/00.8	218/00.7
26	023/01.8	044/01.0	079/00.8	024/02.1	064/01.7	170/01.0	228/00.9	113/00.7	168/00.8	200/01.4	229/01.0	241/01.1	223/01.4
27	190/01.5	124/01.8	012/01.5	028/01.0	157/01.5	142/01.0	031/01.6	028/01.6	046/01.1	306/01.4	019/01.4	350/01.1	349/01.7
28	120/01.4	344/01.5	292/01.5	230/01.1	312/01.6	344/02.1	019/05.3	010/05.5	011/06.1	035/06.5	033/07.8	032/08.0	025/08.8
29	359/03.0	019/03.5	026/03.4	353/02.0	053/02.4	066/05.2	068/02.4	058/02.1	301/01.6	044/03.0	056/04.5	046/04.8	019/04.1
30	064/03.1	080/03.6	082/03.7	097/02.7	085/03.3	166/03.2	207/02.6	182/01.6	103/00.7	196/01.9	208/03.6	206/02.6	191/02.4
MEAN	079/02.0	082/01.8	085/01.8	067/01.9	070/01.7	114/01.9	096/02.0	097/01.9	055/01.8	266/02.0	241/02.5	250/02.6	259/02.8
MX SPD	279/05.9	176/04.8	182/04.8	197/04.7	205/03.7	066/05.2	019/05.3	010/05.5	318/07.6	337/07.4	033/07.8	032/08.0	025/08.8
MN SPD	351/00.4	142/00.2	130/00.4	100/00.3	021/00.5	237/00.1	296/00.5	111/00.4	263/00.5	191/00.6	234/00.7	356/00.8	218/00.7

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

WIND DIRECTION and SPEED in MPS for NOVEMBER, 2009 PAGE 2

HR END DAY	14	15	16	17	18	19	20	21	22	23	24	MEAN	MX SPD	MN SPD
01	200/02.6	228/02.1	243/01.4	315/01.1	320/01.1	311/01.3	032/01.2	094/02.1	121/01.2	067/02.0	063/02.4	069/01.5	198/02.8	292/00.6
02	243/02.2	228/00.9	238/01.0	256/01.1	284/02.1	069/01.6	056/02.7	074/03.5	079/02.1	092/01.0	079/01.3	104/02.5	196/04.1	228/00.9
03	272/01.4	289/01.6	284/01.7	296/02.2	306/01.9	059/03.4	063/04.0	065/03.4	102/02.6	201/01.5	198/01.5	254/01.5	063/04.0	351/00.4
04	235/00.9	214/00.9	297/02.7	305/02.9	317/01.8	073/03.0	080/03.6	143/02.2	174/02.0	194/01.5	140/01.0	186/01.6	080/03.6	175/00.6
05	193/04.0	199/06.5	186/05.9	209/03.0	210/03.5	242/02.4	191/02.0	205/02.2	184/03.2	193/05.1	189/05.8	189/02.8	199/06.5	011/00.6
06	242/04.7	257/04.1	268/02.5	296/01.2	046/02.3	106/01.9	030/02.5	069/03.6	074/04.0	062/03.7	077/03.8	191/04.1	207/07.1	296/01.2
07	330/03.1	343/02.4	350/02.6	030/03.0	067/03.6	062/03.1	047/03.1	071/04.5	059/03.9	049/03.0	067/03.7	047/02.6	071/04.5	295/01.4
08	334/04.1	321/04.0	340/03.6	339/03.7	014/02.7	063/03.4	066/04.0	062/03.7	073/03.8	078/02.0	098/01.7	041/03.2	334/04.1	053/01.5
09	246/01.5	239/01.4	014/00.7	298/01.9	016/02.4	079/03.3	062/02.7	088/03.2	049/01.8	212/01.5	200/00.6	132/01.8	083/03.3	013/00.6
10	358/01.4	012/01.0	035/01.8	040/02.5	068/03.5	068/03.6	034/02.8	089/02.2	176/02.0	194/02.0	184/01.9	062/01.7	068/03.6	142/00.2
11	267/01.2	302/02.7	090/01.2	259/02.1	050/01.2	067/03.0	107/01.8	185/02.1	187/02.5	110/01.7	147/01.9	023/01.5	067/03.0	004/00.3
12	360/06.3	351/07.3	001/06.9	020/05.4	038/04.4	039/04.8	041/04.4	043/04.0	034/03.0	043/03.1	025/01.9	358/03.8	351/07.3	292/01.0
13	296/01.9	267/02.1	251/02.8	291/02.2	346/00.9	096/03.3	069/01.7	075/01.2	067/01.2	054/03.0	208/01.0	017/02.1	096/03.3	342/00.8
14	324/08.0	324/08.4	341/07.4	335/06.0	336/04.1	360/03.9	091/01.4	004/01.3	020/02.0	051/01.6	188/01.1	360/03.4	324/08.4	059/00.8
15	226/01.2	185/01.6	215/01.8	181/02.1	168/01.9	141/01.0	142/00.7	059/01.4	082/02.0	046/01.4	099/01.0	153/01.3	181/02.1	325/00.5
16	199/01.2	225/01.0	256/00.9	281/01.5	353/02.9	050/02.7	064/03.2	075/03.3	076/03.2	073/02.5	125/02.4	111/01.7	075/03.3	296/00.5
17	226/00.7	219/00.8	232/01.0	300/02.3	318/02.1	046/01.9	060/02.6	085/03.6	094/02.0	088/01.0	175/01.0	139/01.2	085/03.6	237/00.1
18	344/01.2	268/00.7	305/04.4	349/02.7	022/01.4	066/02.6	058/03.5	001/01.8	062/02.4	031/02.6	020/01.3	015/01.9	305/04.4	268/00.7
19	187/01.3	195/01.2	294/00.8	316/01.5	001/02.1	073/04.2	062/04.7	071/02.5	078/01.9	078/03.5	190/01.7	149/02.2	062/04.7	196/00.6
20	063/02.5	082/02.7	182/09.4	180/11.0	173/08.7	189/10.2	248/04.6	248/04.9	216/06.7	182/10.7	186/09.7	127/04.0	180/11.0	324/00.3
21	344/05.0	344/05.2	335/05.4	345/04.8	349/03.7	072/03.0	077/03.3	031/03.4	070/03.6	073/03.2	061/03.6	023/03.7	342/06.8	152/01.4
22	210/06.6	337/06.1	017/03.4	334/08.4	043/03.4	076/01.3	298/03.8	304/04.1	040/02.0	104/02.6	353/01.4	218/03.2	334/08.4	047/00.8
23	323/01.5	301/01.6	305/02.1	331/01.4	039/01.2	150/00.5	015/00.3	037/00.5	071/00.9	077/01.3	068/01.6	044/01.6	192/04.2	015/00.3
24	279/01.6	302/01.7	291/01.7	292/02.6	310/01.6	076/01.8	071/02.6	078/03.5	046/02.5	060/03.1	083/03.2	020/01.6	078/03.5	336/00.5
25	246/00.9	276/01.5	265/02.2	282/02.5	297/01.9	077/01.0	050/01.2	079/01.2	184/01.4	116/00.6	049/00.4	202/01.3	282/02.5	049/00.4
26	258/01.4	249/01.3	264/01.1	319/02.3	338/02.2	057/03.4	079/03.9	062/02.9	055/01.8	125/02.4	259/02.1	132/01.7	079/03.9	113/00.7
27	343/02.0	024/01.6	035/01.6	324/02.4	348/01.6	067/02.4	065/02.3	336/01.8	300/02.5	147/01.9	197/02.0	022/01.7	300/02.5	028/01.0
28	015/09.0	013/08.8	011/07.5	007/07.1	004/05.7	354/03.3	014/03.3	014/02.8	015/04.0	050/04.3	029/08.8	010/05.1	015/09.0	230/01.1
29	006/04.9	026/05.6	023/05.2	023/04.3	018/03.5	077/03.1	041/03.1	044/04.3	070/03.1	072/03.5	051/02.6	036/03.5	026/05.6	301/01.6
30	194/02.2	189/02.2	185/02.2	216/01.0	267/01.2	284/00.9	189/00.7	061/00.9	058/01.3	045/01.5	042/01.4	153/02.1	082/03.7	103/00.7
MEAN	277/02.9	281/03.0	300/03.1	312/03.2	355/02.7	068/02.8	061/02.7	062/02.7	078/02.6	089/02.6	112/02.5	056/02.4		
MX SPD	015/09.0	013/08.8	182/09.4	180/11.0	173/08.7	189/10.2	062/04.7	248/04.9	216/06.7	182/10.7	186/09.7		180/11.0	
MN SPD	226/00.7	268/00.7	014/00.7	216/01.0	346/00.9	150/00.5	015/00.3	037/00.5	071/00.9	116/00.6	049/00.4			237/00.1

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 720 DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 056/02.4 MAXIMUM WIND SPEED WAS 11 MPS AT 180 DEGREES ON 11/20 AT 1700

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

WIND DIRECTION and SPEED in MPS for DECEMBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13
01	064/01.9	174/01.2	025/01.1	019/01.4	059/00.8	226/00.9	062/01.5	057/01.5	140/01.0	196/01.0	226/01.6	237/01.2	251/01.5
02	061/05.0	055/04.5	031/03.6	030/01.6	072/01.6	049/01.0	006/00.8	052/01.8	087/01.7	108/02.3	056/05.2	047/05.6	020/03.3
03	025/02.5	160/01.3	007/01.4	027/01.8	041/02.1	062/03.0	071/02.9	072/03.5	060/02.7	062/04.3	062/04.7	007/03.1	035/01.8
04	157/01.3	077/00.7	168/00.7	021/01.1	028/01.7	017/01.8	033/01.9	022/00.8	356/01.6	334/01.3	004/00.8	190/04.4	193/06.0
05	071/03.4	060/04.2	071/04.0	063/03.6	034/02.4	026/03.3	055/03.6	024/03.5	026/02.8	026/01.9	266/00.7	330/05.9	330/07.4
06	001/02.9	012/04.0	043/02.6	354/01.2	358/01.3	072/01.8	091/03.1	074/02.7	345/01.4	098/01.2	050/01.3	176/02.1	205/02.9
07	174/03.0	176/03.7	092/01.6	028/01.0	003/01.2	247/00.7	048/02.2	242/01.5	229/01.1	202/01.8	237/01.3	178/01.7	294/01.4
08	016/03.6	343/05.6	338/05.1	353/04.5	308/04.5	317/07.8	322/08.3	339/02.9	284/00.9	360/02.0	306/04.2	279/03.7	275/03.6
09	036/02.0	010/01.4	078/02.1	119/01.5	019/02.1	216/01.6	158/02.1	312/01.3	081/01.4	197/01.5	219/02.5	185/03.5	179/03.7
10	318/00.9	045/02.2	032/03.6	078/01.8	179/01.8	032/01.9	086/01.0	317/01.2	063/00.8	162/00.9	200/01.0	280/01.2	313/00.8
11	172/01.0	058/00.3	237/00.5	110/01.0	022/01.2	008/01.6	098/01.2	032/01.2	115/00.6	284/00.6	277/00.5	251/00.4	334/00.4
12	047/01.6	017/01.1	110/00.9	090/00.8	043/01.8	094/01.1	269/01.2	051/01.3	293/00.9	043/00.7	014/01.5	084/01.9	249/01.9
13	332/02.6	079/02.2	307/02.5	125/02.0	137/01.7	168/06.1	191/05.3	294/02.4	169/01.1	218/00.8	292/00.9	106/01.1	181/02.1
14	197/04.6	189/04.2	209/03.9	201/03.6	210/02.5	185/01.8	147/01.4	169/00.6	017/01.0	055/01.1	176/00.6	151/01.7	192/02.9
15	020/01.1	032/00.9	056/01.5	027/02.4	041/02.6	048/02.0	011/02.3	028/02.2	076/02.0	093/01.8	232/00.8	090/01.4	324/01.2
16	108/01.5	247/01.9	176/01.5	354/02.0	329/01.6	072/01.4	173/01.7	222/01.8	209/02.1	137/01.6	124/01.5	315/02.9	266/01.3
17	073/01.0	118/01.2	278/00.5	216/01.3	122/01.7	241/01.4	185/00.9	032/00.7	148/00.8	062/00.8	206/01.0	243/01.2	292/01.2
18	054/01.8	028/02.3	052/02.5	024/01.8	333/01.0	303/01.1	155/01.5	231/01.2	185/00.5	057/00.7	059/01.2	171/01.5	233/00.7
19	069/00.7	026/01.0	041/01.7	081/02.3	217/01.1	253/00.8	050/01.0	011/00.8	009/00.6	326/00.5	046/00.9	023/01.2	012/00.7
20	189/01.1	161/00.8	097/01.1	048/00.6	334/00.2	085/00.7	065/00.3	000/00.0	157/00.1	117/00.6	178/00.4	125/00.2	247/00.2
21	343/00.5	027/00.9	042/00.4	000/00.0	085/00.6	056/00.9	086/01.0	090/00.7	098/01.0	065/00.9	049/00.5	000/00.0	010/00.0
22	000/00.0	321/00.8	013/01.0	009/01.2	031/00.3	000/00.0	000/00.0	000/00.0	000/00.0	000/00.0	000/00.0	000/00.0	000/00.0
23	319/02.9	321/03.2	293/01.1	350/02.6	033/03.0	291/02.4	360/02.0	337/02.2	332/01.6	009/00.8	131/00.9	342/01.3	324/00.5
24	075/03.7	098/02.2	164/01.9	226/01.2	087/00.7	199/00.6	178/01.6	147/00.7	309/00.1	215/00.4	144/00.4	078/00.3	208/01.1
25	067/02.1	077/01.3	074/00.7	100/00.8	032/01.6	171/00.9	193/00.9	041/00.8	008/01.0	319/00.6	206/00.9	189/01.1	228/00.7
26	107/01.1	180/01.7	174/01.1	165/00.7	096/00.0	000/00.0	000/00.0	000/00.0	000/00.0	000/00.0	242/00.0	058/00.5	032/00.6
27	167/00.8	122/00.1	096/00.6	070/01.0	103/01.4	082/02.0	090/01.4	073/01.1	070/01.4	071/00.9	060/00.5	000/00.0	080/01.5
28	294/00.7	275/00.9	002/00.8	073/00.7	324/00.9	236/00.9	191/01.5	256/01.7	272/01.4	269/01.2	266/01.2	293/00.8	295/01.6
29	123/01.0	171/02.1	178/02.6	185/01.5	187/00.5	089/00.4	304/00.8	348/00.6	343/00.6	338/00.8	011/00.8	336/00.8	299/01.2
30	032/01.0	002/02.1	020/01.5	007/01.3	350/02.0	342/00.9	006/00.8	081/00.8	282/01.6	073/00.9	227/01.3	341/00.6	226/01.0
31	004/00.9	021/01.0	073/00.5	145/00.4	229/00.4	199/00.8	033/01.4	027/01.6	039/00.8	046/00.3	225/00.2	173/01.4	176/01.2
MEAN	056/01.9	059/02.0	058/01.8	058/01.6	036/01.5	062/01.7	082/01.8	025/01.4	038/01.1	060/01.1	220/01.3	200/01.7	274/01.8
MX SPD	061/05.0	343/05.6	338/05.1	353/04.5	308/04.5	317/07.8	322/08.3	072/03.5	026/02.8	062/04.3	056/05.2	330/05.9	330/07.4
MN SPD	000/00.0	122/00.1	042/00.4	000/00.0	096/00.0	000/00.0	000/00.0	000/00.0	000/00.0	000/00.0	000/00.0	000/00.0	010/00.0

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

WIND DIRECTION and SPEED in MPS for DECEMBER, 2009 PAGE 2

HR END DAY	14	15	16	17	18	19	20	21	22	23	24	MEAN	MX SPD	MN SPD
01	251/01.3	218/02.3	203/02.5	227/02.5	248/01.2	058/02.1	055/01.8	050/02.9	066/04.1	054/05.0	040/05.0	106/02.0	054/05.0	059/00.8
02	008/02.0	310/02.8	339/04.0	012/03.1	084/02.9	090/03.8	070/03.7	058/03.6	048/03.4	056/03.2	063/04.5	047/03.1	047/05.6	006/00.8
03	018/03.2	017/04.5	015/04.5	016/03.5	053/02.4	090/03.3	066/02.4	081/03.3	048/01.3	163/01.0	190/01.5	052/02.7	062/04.7	163/01.0
04	194/06.6	192/07.1	190/07.1	197/03.9	186/02.0	108/01.8	065/03.6	047/02.7	040/04.0	073/03.5	067/03.2	080/02.9	192/07.1	077/00.7
05	321/08.4	329/06.4	321/08.3	325/05.9	042/03.1	056/03.3	054/03.3	024/02.8	011/03.0	013/03.5	020/04.4	019/04.1	321/08.4	266/00.7
06	179/01.2	056/01.3	043/03.4	040/03.5	062/03.9	074/03.2	061/03.9	070/03.7	068/03.8	066/03.3	094/02.4	059/02.6	012/04.0	354/01.2
07	248/00.8	266/01.2	272/01.4	308/00.9	300/00.8	024/03.0	347/02.9	342/01.9	012/03.6	030/03.5	007/02.7	299/01.9	176/03.7	247/00.7
08	137/00.8	147/01.5	126/00.8	100/01.1	083/02.4	077/01.5	175/01.1	031/02.4	074/01.9	054/01.0	061/01.5	010/03.0	322/08.3	137/00.8
09	194/03.9	187/04.1	193/04.4	203/02.1	175/01.7	186/04.0	201/01.5	054/01.3	344/00.9	350/01.5	105/01.8	164/02.2	193/04.4	344/00.9
10	304/00.6	250/01.4	193/01.1	096/00.8	088/01.6	109/01.2	054/00.9	134/01.0	069/01.6	031/01.8	085/01.5	068/01.4	032/03.6	304/00.6
11	244/00.5	172/01.2	212/01.3	223/01.8	234/00.7	063/01.1	075/01.8	356/01.7	014/01.8	331/01.9	008/01.5	351/01.1	331/01.9	058/00.3
12	299/02.5	014/01.2	326/01.4	310/01.8	332/01.5	043/01.8	044/01.6	084/02.1	022/01.8	302/01.8	039/01.9	021/01.5	299/02.5	043/00.7
13	197/04.5	203/04.4	185/04.2	198/03.9	199/03.8	184/04.3	193/04.8	213/04.0	202/03.6	207/04.2	188/03.8	193/03.2	168/06.1	218/00.8
14	196/02.0	196/02.6	238/00.9	011/01.2	089/03.3	067/01.4	307/01.0	018/01.6	036/01.2	064/01.6	073/01.1	156/02.0	197/04.6	169/00.6
15	359/01.0	007/01.4	033/01.7	001/01.6	031/02.2	063/03.1	094/02.9	145/02.0	310/03.2	027/01.5	048/01.0	036/01.8	310/03.2	232/00.8
16	256/00.6	081/01.0	018/01.6	021/02.7	314/01.7	291/02.1	071/01.6	026/01.8	061/01.9	049/01.3	081/01.3	041/01.7	315/02.9	256/00.6
17	287/01.7	280/02.1	299/01.8	342/00.9	025/00.8	076/01.6	035/01.7	105/01.5	101/01.8	038/03.0	036/02.4	048/01.4	038/03.0	278/00.5
18	268/00.8	253/01.0	325/02.1	333/01.0	012/01.9	022/02.3	327/02.0	067/02.6	108/01.6	199/01.5	072/01.3	015/01.5	067/02.6	185/00.5
19	345/01.0	350/01.2	354/01.2	050/02.0	050/02.0	061/01.9	018/01.7	002/01.5	035/00.7	098/01.0	211/01.0	026/01.2	081/02.3	326/00.5
20	252/00.6	000/00.0	009/00.5	041/00.6	022/01.2	039/01.2	099/01.5	018/01.1	068/01.3	034/00.2	000/00.0	078/00.6	099/01.5	000/00.0
21	056/00.8	022/01.7	045/01.5	068/01.9	045/01.5	310/01.4	318/00.5	307/00.2	296/00.1	000/00.0	000/00.0	036/00.7	068/01.9	000/00.0
22	014/00.5	004/02.0	318/03.1	326/02.6	008/01.3	340/04.5	342/04.1	344/03.3	358/05.4	350/03.2	322/02.2	351/01.5	358/05.4	000/00.0
23	153/01.4	185/01.3	121/00.8	092/01.5	019/02.5	060/03.6	061/03.7	081/03.7	080/03.9	060/04.1	069/03.8	025/02.3	060/04.1	324/00.5
24	182/02.5	207/01.6	197/01.0	175/00.9	129/00.9	070/01.1	078/00.9	070/02.0	073/02.5	035/03.3	053/03.3	135/01.5	075/03.7	309/00.1
25	256/01.1	295/00.6	332/01.5	050/01.6	106/01.8	063/03.5	047/02.5	159/02.1	043/01.4	024/00.8	011/01.0	056/01.3	063/03.5	319/00.6
26	007/00.7	031/01.1	053/02.2	028/02.7	012/02.2	008/01.3	294/00.7	077/00.7	080/01.4	108/00.2	239/00.6	065/00.8	028/02.7	096/00.0
27	029/01.3	040/01.0	013/00.9	028/01.7	207/00.9	185/02.0	215/01.4	017/00.8	033/01.5	339/01.3	318/01.2	068/01.1	082/02.0	000/00.0
28	300/01.5	307/01.9	285/02.0	295/01.7	246/01.5	255/01.0	197/01.7	191/01.8	182/01.9	161/01.3	090/01.0	265/01.3	285/02.0	294/00.7
29	259/01.1	205/00.4	192/00.8	203/01.3	237/01.5	276/00.9	016/00.6	314/01.0	168/01.3	301/01.1	358/01.6	271/01.1	178/02.6	089/00.4
30	192/00.8	040/01.2	044/01.0	312/00.8	212/01.7	092/01.2	045/02.4	034/02.4	177/01.9	010/00.8	351/00.7	012/01.3	045/02.4	341/00.6
31	172/01.7	170/01.0	033/00.8	064/01.4	094/01.6	083/02.5	050/02.5	052/02.4	012/02.9	025/02.6	051/02.5	070/01.4	012/02.9	225/00.2
MEAN	260/01.9	280/02.0	336/02.3	011/02.0	052/01.9	063/02.3	049/02.2	048/02.1	050/02.3	037/02.1	049/02.0	043/01.8		
MX SPD	321/08.4	192/07.1	321/08.3	325/05.9	062/03.9	340/04.5	193/04.8	213/04.0	358/05.4	054/05.0	040/05.0		321/08.4	
MN SPD	244/00.5	000/00.0	009/00.5	041/00.6	234/00.7	276/00.9	318/00.5	307/00.2	296/00.1	000/00.0	000/00.0			000/00.0

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 043/01.8 MAXIMUM WIND SPEED WAS 8.4 MPS AT 321 DEGREES ON 12/ 5 AT 1400

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

Appendix A.2
Monthly Joint Frequency of Occurrence Distributions of Wind Speeds and Direction

EnergySolutions - Clive, Utah

JOINT FREQUENCY DISTRIBUTION January, 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	3.9	1.3	.0	.0	.0	.0	5.2	2.2
NNE	6.0	.4	.3	.0	.0	.0	6.7	2.0
NE	7.3	2.2	.7	.0	.0	.0	10.1	2.6
ENE	7.8	2.7	.0	.0	.0	.0	10.5	2.3
E	6.0	.8	.0	.0	.0	.0	6.9	1.9
ESE	2.6	.0	.0	.0	.0	.0	2.6	1.3
SE	2.6	.0	.0	.0	.0	.0	2.6	1.4
SSE	3.9	.1	.0	.0	.0	.0	4.0	1.7
S	6.6	5.9	3.2	.0	.0	.0	15.7	3.9
SSW	6.0	6.5	1.6	.0	.0	.0	14.1	3.7
SW	3.5	.3	.0	.0	.0	.0	3.8	1.7
WSW	1.5	.1	.0	.0	.0	.0	1.6	1.6
W	1.2	.5	.0	.0	.0	.0	1.7	2.2
WNW	1.2	.1	.0	.0	.0	.0	1.3	1.6
NW	1.5	.8	.0	.0	.0	.0	2.3	2.4
NNW	3.0	1.2	.3	.0	.0	.0	4.4	2.7
CALM							6.5	
TOTAL	64.5	23.0	6.0	.0	.0	.0	100.0	2.6

TOTAL NUMBER OF OBSERVATIONS 744
POSSIBLE NUMBER OF OBSERVATIONS 744
DATA RECOVERY 100.0%

EnergySolutions - Clive, Utah

JOINT FREQUENCY DISTRIBUTION February, 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	4.2	1.5	.0	.0	.0	.0	5.7	2.1
NNE	4.8	1.9	.1	.0	.0	.0	6.8	2.7
NE	8.2	3.3	.3	.0	.0	.0	11.8	2.7
ENE	8.5	9.5	.0	.0	.0	.0	18.0	2.9
E	3.9	.9	.0	.0	.0	.0	4.8	2.1
ESE	1.9	.0	.0	.0	.0	.0	1.9	1.5
SE	2.2	.0	.0	.0	.0	.0	2.2	1.6
SSE	1.9	1.3	.0	.0	.0	.0	3.3	2.7
S	4.2	5.4	2.8	.0	.0	.0	12.4	4.1
SSW	3.9	4.9	1.8	.0	.0	.0	10.6	3.8
SW	2.5	.9	.1	.0	.0	.0	3.6	2.7
WSW	2.2	.4	.4	.0	.0	.0	3.1	2.8
W	2.2	.6	.1	.0	.0	.0	3.0	2.3
WNW	1.9	.3	.3	.0	.0	.0	2.5	2.6
NW	2.4	.4	.3	.0	.0	.0	3.1	2.0
NNW	2.8	.9	.0	.0	.0	.0	3.7	2.2
CALM							3.6	
TOTAL	57.7	32.3	6.4	.0	.0	.0	100.0	2.9

TOTAL NUMBER OF OBSERVATIONS 672
POSSIBLE NUMBER OF OBSERVATIONS 672
DATA RECOVERY 100.0%

EnergySolutions - Clive, Utah

JOINT FREQUENCY DISTRIBUTION March, 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	1.2	2.3	.1	.0	.0	.0	3.6	3.3
NNE	2.0	1.9	.5	.7	.0	.0	5.1	4.9
NE	3.0	4.0	1.5	.0	.0	.0	8.5	3.9
ENE	4.3	5.1	.3	.0	.0	.0	9.7	3.1
E	2.0	.5	.0	.0	.0	.0	2.6	2.6
ESE	1.3	.0	.0	.0	.0	.0	1.3	1.5
SE	.9	.4	.0	.0	.0	.0	1.3	2.4
SSE	1.6	1.1	.0	.0	.0	.0	2.7	2.4
S	2.7	9.2	5.0	1.5	.0	.0	18.3	5.4
SSW	3.4	7.1	3.1	2.0	.0	.0	15.6	5.5
SW	2.3	2.3	.7	.3	.0	.0	5.5	3.9
WSW	2.2	.9	.3	.1	.0	.0	3.5	3.0
W	2.0	.9	.7	.7	.0	.0	4.3	4.6
WNW	1.7	.9	.5	.3	.0	.0	3.5	4.2
NW	2.2	2.0	3.8	1.2	.0	.0	9.2	6.1
NNW	1.3	1.5	1.5	.3	.0	.0	4.6	4.8
CALM							.7	
TOTAL	34.2	40.2	17.9	7.0	.0	.0	100.0	4.5

TOTAL NUMBER OF OBSERVATIONS 743
POSSIBLE NUMBER OF OBSERVATIONS 744
DATA RECOVERY 99.9%

EnergySolutions - Clive, Utah

JOINT FREQUENCY DISTRIBUTION April, 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	3.6	2.5	1.1	.0	.0	.0	7.3	3.7
NNE	3.5	3.5	.3	.0	.0	.0	7.3	3.2
NE	3.9	3.5	.4	.0	.0	.0	7.8	3.2
ENE	4.6	4.2	.1	.0	.0	.0	9.0	3.0
E	2.7	2.1	.3	.0	.0	.0	5.0	2.7
ESE	2.4	.7	.0	.0	.0	.0	3.1	2.2
SE	1.3	.8	.1	.0	.0	.0	2.2	2.9
SSE	2.1	.6	.8	.1	.0	.0	3.6	4.2
S	2.7	7.1	2.8	.8	.0	.0	13.4	5.1
SSW	3.2	4.5	1.5	.4	.0	.0	9.7	4.2
SW	1.8	.7	.3	.1	.0	.0	2.9	3.7
WSW	2.1	1.0	.3	.3	.0	.0	3.6	3.7
W	2.9	1.0	.1	.0	.0	.0	4.1	2.4
WNW	1.7	1.1	.6	.0	.0	.0	3.4	3.3
NW	1.1	2.5	3.1	.1	.0	.0	6.9	5.5
NNW	2.5	2.9	2.4	.3	.0	.0	8.1	4.7
CALM							2.7	
TOTAL	42.1	38.7	14.3	2.2	.0	.0	100.0	3.9

TOTAL NUMBER OF OBSERVATIONS 715
POSSIBLE NUMBER OF OBSERVATIONS 720
DATA RECOVERY 99.3%

EnergySolutions - Clive, Utah

JOINT FREQUENCY DISTRIBUTION May, 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	2.8	2.2	.5	.0	.0	.0	5.5	3.3
NNE	2.8	3.0	1.1	.1	.0	.0	7.0	3.8
NE	5.5	7.3	1.2	.0	.0	.0	14.0	3.8
ENE	5.4	7.5	.3	.0	.0	.0	13.2	3.2
E	3.5	2.8	.4	.0	.0	.0	6.7	3.1
ESE	.9	.7	.3	.0	.0	.0	1.9	3.7
SE	1.6	.0	.1	.0	.0	.0	1.7	2.2
SSE	2.2	1.2	.3	.0	.0	.0	3.6	3.0
S	2.7	3.9	.8	.0	.0	.0	7.4	3.7
SSW	3.1	2.4	.7	.0	.0	.0	6.2	3.5
SW	2.8	1.7	.3	.0	.0	.0	4.8	2.9
WSW	3.5	.3	.3	.0	.0	.0	4.0	2.3
W	2.4	1.3	1.9	.0	.0	.0	5.7	4.3
WNW	3.2	2.4	.8	.3	.0	.0	6.7	3.7
NW	3.0	2.0	.3	.0	.0	.0	5.2	3.1
NNW	2.2	2.0	.4	.0	.0	.0	4.6	3.3
CALM							1.6	
TOTAL	47.6	40.8	9.6	.4	.0	.0	100.0	3.4

TOTAL NUMBER OF OBSERVATIONS 743
POSSIBLE NUMBER OF OBSERVATIONS 744
DATA RECOVERY 99.9%

EnergySolutions - Clive, Utah

JOINT FREQUENCY DISTRIBUTION June, 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	1.8	1.2	.4	.0	.0	.0	3.5	3.1
NNE	2.2	2.1	.4	.0	.0	.0	4.7	3.2
NE	4.6	6.2	.3	.0	.0	.0	11.1	3.3
ENE	4.6	6.2	.1	.0	.0	.0	11.0	3.4
E	2.8	3.8	.0	.0	.0	.0	6.5	3.1
ESE	2.4	1.1	.0	.0	.0	.0	3.5	2.7
SE	2.6	.7	.6	.0	.0	.0	3.9	3.2
SSE	3.8	1.0	.3	.0	.0	.0	5.0	2.6
S	3.3	4.2	1.7	.3	.0	.0	9.4	4.1
SSW	5.0	6.7	1.4	.3	.0	.0	13.3	4.0
SW	3.8	2.9	.7	.0	.0	.0	7.4	3.4
WSW	2.5	1.5	.7	.1	.0	.0	4.9	3.9
W	3.3	1.9	.6	.0	.0	.0	5.8	3.3
WNW	1.1	1.4	.1	.0	.0	.0	2.6	3.5
NW	1.9	1.0	.7	.3	.0	.0	3.9	4.2
NNW	2.1	1.0	.3	.0	.0	.0	3.3	2.9
CALM							.1	
TOTAL	47.8	42.9	8.2	1.0	.0	.0	100.0	3.4

TOTAL NUMBER OF OBSERVATIONS 720
POSSIBLE NUMBER OF OBSERVATIONS 720
DATA RECOVERY 100.0%

EnergySolutions - Clive, Utah

JOINT FREQUENCY DISTRIBUTION July, 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	1.5	1.5	.8	.0	.0	.0	3.8	4.0
NNE	2.3	1.7	1.3	.0	.0	.0	5.4	3.9
NE	4.2	6.6	.4	.0	.0	.0	11.2	3.5
ENE	4.6	7.9	.0	.0	.0	.0	12.5	3.2
E	2.4	2.7	.0	.0	.0	.0	5.1	3.1
ESE	1.9	.7	.1	.0	.0	.0	2.7	2.6
SE	1.2	.8	.1	.0	.0	.0	2.2	2.8
SSE	2.0	.5	.1	.0	.0	.0	2.7	2.5
S	4.4	5.0	.3	.0	.0	.0	9.7	3.4
SSW	5.2	6.3	1.1	.0	.0	.0	12.6	3.6
SW	2.8	3.2	.4	.0	.0	.0	6.5	3.3
WSW	3.6	1.5	.1	.1	.0	.0	5.4	3.0
W	2.0	2.3	.5	.0	.0	.0	4.8	3.6
WNW	2.8	2.0	.1	.0	.0	.0	5.0	3.0
NW	1.9	4.2	.1	.0	.0	.0	6.2	3.6
NNW	.8	3.4	.1	.0	.0	.0	4.3	3.9
CALM							.1	
TOTAL	43.7	50.3	5.8	.1	.0	.0	100.0	3.4

TOTAL NUMBER OF OBSERVATIONS 744
POSSIBLE NUMBER OF OBSERVATIONS 744
DATA RECOVERY 100.0%

EnergySolutions - Clive, Utah

JOINT FREQUENCY DISTRIBUTION August, 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	2.6	2.0	.3	.0	.0	.0	4.8	3.1
NNE	3.2	1.5	.7	.0	.0	.0	5.4	3.1
NE	3.9	3.1	.0	.0	.0	.0	7.0	2.9
ENE	5.0	9.5	.4	.0	.0	.0	14.9	3.4
E	3.5	3.5	.0	.0	.0	.0	7.0	2.8
ESE	2.3	1.1	.0	.0	.0	.0	3.4	2.4
SE	1.6	.3	.0	.0	.0	.0	1.9	2.0
SSE	2.4	.4	.7	.0	.0	.0	3.5	3.3
S	2.7	4.4	1.9	.5	.0	.0	9.5	4.9
SSW	4.0	3.8	1.2	.9	.1	.0	10.1	4.8
SW	4.4	2.6	.4	.0	.0	.0	7.4	3.0
WSW	3.0	1.5	.3	.0	.0	.0	4.7	2.8
W	3.4	1.5	.0	.0	.0	.0	4.8	2.7
WNW	3.4	1.9	.1	.0	.0	.0	5.4	2.9
NW	2.3	2.7	.1	.1	.1	.0	5.4	3.8
NNW	2.8	1.3	.4	.0	.0	.0	4.6	3.1
CALM							.3	
TOTAL	50.4	41.0	6.5	1.6	.3	.0	100.0	3.4

TOTAL NUMBER OF OBSERVATIONS 744
POSSIBLE NUMBER OF OBSERVATIONS 744
DATA RECOVERY 100.0%

EnergySolutions - Clive, Utah

JOINT FREQUENCY DISTRIBUTION September, 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	2.5	2.4	.4	.0	.0	.0	5.3	3.4
NNE	2.9	3.5	.0	.0	.0	.0	6.4	3.1
NE	5.4	2.2	.3	.0	.0	.0	7.9	2.7
ENE	6.0	4.7	.1	.0	.0	.0	10.8	2.9
E	3.3	2.9	.1	.0	.0	.0	6.4	2.8
ESE	2.6	.7	.3	.0	.0	.0	3.6	2.6
SE	3.3	.3	.0	.0	.0	.0	3.6	1.8
SSE	2.8	1.0	.1	.0	.0	.0	3.9	2.4
S	4.4	7.5	1.8	.6	.0	.0	14.3	4.3
SSW	2.9	4.2	1.1	.6	.0	.0	8.8	4.4
SW	3.8	1.1	.1	.0	.0	.0	5.0	2.5
WSW	2.1	.8	.1	.1	.0	.0	3.2	2.9
W	3.1	.1	.0	.0	.0	.0	3.2	1.8
WNW	3.3	1.1	.3	.0	.0	.0	4.7	2.8
NW	2.9	2.6	1.4	.1	.0	.0	7.1	4.2
NNW	2.2	1.8	1.4	.1	.0	.0	5.6	4.4
CALM							.3	
TOTAL	53.6	36.9	7.6	1.5	.0	.0	100.0	3.3

TOTAL NUMBER OF OBSERVATIONS 720
POSSIBLE NUMBER OF OBSERVATIONS 720
DATA RECOVERY 100.0%

EnergySolutions - Clive, Utah

JOINT FREQUENCY DISTRIBUTION October, 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	2.3	3.1	1.9	1.2	.0	.0	8.5	5.6
NNE	4.7	1.1	.3	.0	.0	.0	6.1	2.4
NE	6.1	2.3	.1	.0	.0	.0	8.5	2.6
ENE	6.5	4.3	.1	.0	.0	.0	11.0	2.7
E	2.8	.5	.0	.0	.0	.0	3.4	2.0
ESE	3.0	.4	.0	.0	.0	.0	3.4	1.7
SE	2.6	.1	.0	.0	.0	.0	2.7	1.4
SSE	2.8	.1	.0	.0	.0	.0	3.0	1.7
S	4.1	5.8	2.4	.7	.0	.0	13.0	4.6
SSW	4.6	4.6	1.2	.5	.0	.0	11.0	4.0
SW	3.1	1.1	.0	.0	.0	.0	4.2	2.4
WSW	2.4	.3	.1	.0	.0	.0	2.8	2.1
W	2.8	.5	.1	.0	.0	.0	3.5	2.4
WNW	2.7	1.1	.1	.0	.0	.0	3.9	2.8
NW	3.7	1.2	1.1	.4	.0	.0	6.4	4.0
NNW	3.0	2.8	1.8	.4	.0	.0	8.0	4.5
CALM							.7	
TOTAL	57.2	29.5	9.3	3.2	.0	.0	100.0	3.4

TOTAL NUMBER OF OBSERVATIONS 739
POSSIBLE NUMBER OF OBSERVATIONS 744
DATA RECOVERY 99.3%

EnergySolutions - Clive, Utah

JOINT FREQUENCY DISTRIBUTION November, 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	4.6	1.1	.8	.0	.0	.0	6.5	2.8
NNE	6.0	1.8	.8	.0	.0	.0	8.6	2.9
NE	7.2	2.8	.1	.0	.0	.0	10.1	2.4
ENE	7.4	6.8	.0	.0	.0	.0	14.2	2.7
E	4.0	1.9	.0	.0	.0	.0	6.0	2.2
ESE	3.3	.0	.0	.0	.0	.0	3.3	1.3
SE	3.1	.0	.0	.0	.0	.0	3.1	1.5
SSE	2.2	.1	.0	.0	.0	.0	2.4	1.5
S	5.8	2.1	.4	.4	.0	.0	8.8	3.0
SSW	6.9	2.1	.7	.0	.0	.0	9.7	2.6
SW	4.2	.1	.3	.0	.0	.0	4.6	1.6
WSW	3.6	.6	.0	.0	.0	.0	4.2	1.8
W	2.4	.1	.0	.0	.0	.0	2.5	1.8
WNW	5.0	.3	.0	.0	.0	.0	5.3	1.8
NW	2.6	.6	.4	.0	.0	.0	3.6	2.8
NNW	2.9	1.9	.7	.0	.0	.0	5.6	3.3
CALM							1.7	
TOTAL	71.2	22.4	4.3	.4	.0	.0	100.0	2.4

TOTAL NUMBER OF OBSERVATIONS 720
POSSIBLE NUMBER OF OBSERVATIONS 720
DATA RECOVERY 100.0%

EnergySolutions - Clive, Utah

JOINT FREQUENCY DISTRIBUTION December, 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	6.2	.5	.0	.0	.0	.0	6.7	1.6
NNE	10.3	2.3	.0	.0	.0	.0	12.6	2.0
NE	8.5	2.2	.0	.0	.0	.0	10.6	2.1
ENE	8.2	3.9	.0	.0	.0	.0	12.1	2.2
E	6.2	.9	.0	.0	.0	.0	7.1	1.7
ESE	2.7	.0	.0	.0	.0	.0	2.7	1.3
SE	1.5	.0	.0	.0	.0	.0	1.5	1.3
SSE	2.7	.0	.1	.0	.0	.0	2.8	1.5
S	5.9	1.5	.1	.0	.0	.0	7.5	2.1
SSW	4.2	1.9	.4	.0	.0	.0	6.5	2.6
SW	3.0	.0	.0	.0	.0	.0	3.0	1.3
WSW	3.4	.0	.0	.0	.0	.0	3.4	1.2
W	2.2	.3	.0	.0	.0	.0	2.4	1.4
WNW	3.6	.0	.0	.0	.0	.0	3.6	1.4
NW	3.6	.8	.5	.0	.0	.0	5.0	2.6
NNW	3.8	.9	.3	.0	.0	.0	5.0	2.3
CALM							7.5	
TOTAL	75.8	15.2	1.5	.0	.0	.0	100.0	1.9

TOTAL NUMBER OF OBSERVATIONS 744
POSSIBLE NUMBER OF OBSERVATIONS 744
DATA RECOVERY 100.0%

Appendix A.3
Quarterly Joint Frequency of Occurrence Distributions of Wind Speeds and Direction - Sigma Theta

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES January - March 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY A

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	6.5	.0	.0	.0	.0	.0	6.5	1.3
NNE	5.9	.0	.0	.0	.0	.0	5.9	1.8
NE	4.7	.0	.0	.0	.0	.0	4.7	1.4
ENE	5.3	.0	.0	.0	.0	.0	5.3	1.5
E	2.4	.0	.0	.0	.0	.0	2.4	1.4
ESE	2.4	.0	.0	.0	.0	.0	2.4	1.0
SE	.6	.0	.0	.0	.0	.0	.6	1.5
SSE	2.4	.0	.0	.0	.0	.0	2.4	1.4
S	2.4	.0	.0	.0	.0	.0	2.4	2.0
SSW	6.5	.0	.0	.0	.0	.0	6.5	1.6
SW	13.0	.0	.0	.0	.0	.0	13.0	1.7
WSW	7.7	.0	.0	.0	.0	.0	7.7	1.3
W	9.5	.0	.0	.0	.0	.0	9.5	1.3
WNW	7.1	.0	.0	.0	.0	.0	7.1	2.0
NW	9.5	.0	.0	.0	.0	.0	9.5	1.3
NNW	8.3	.0	.0	.0	.0	.0	8.3	1.1
CALM							5.9	
TOTAL	94.1	.0	.0	.0	.0	.0	100.0	1.5

TOTAL NUMBER OF CASES OF THIS STABILITY 169
TOTAL NUMBER OF OBSERVATIONS 2159
PERCENTAGE OF TOTAL OF THIS STABILITY 7.8%

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES January - March 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY B

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	4.4	3.5	.0	.0	.0	.0	7.9	2.5
NNE	.9	1.8	.0	.0	.0	.0	2.6	2.5
NE	3.5	1.8	.0	.0	.0	.0	5.3	2.3
ENE	5.3	.9	.0	.0	.0	.0	6.1	2.0
E	3.5	.9	.0	.0	.0	.0	4.4	2.0
ESE	.9	.0	.0	.0	.0	.0	.9	1.9
SE	2.6	.0	.0	.0	.0	.0	2.6	.9
SSE	4.4	1.8	.0	.0	.0	.0	6.1	2.1
S	11.4	3.5	.0	.0	.0	.0	14.9	2.1
SSW	7.9	2.6	.0	.0	.0	.0	10.5	1.9
SW	7.0	3.5	.0	.0	.0	.0	10.5	2.1
WSW	2.6	.0	.0	.0	.0	.0	2.6	2.0
W	2.6	1.8	.0	.0	.0	.0	4.4	2.4
WNW	1.8	3.5	.0	.0	.0	.0	5.3	2.8
NW	.0	3.5	.0	.0	.0	.0	3.5	3.8
NNW	4.4	4.4	.0	.0	.0	.0	8.8	2.4
CALM							3.5	
TOTAL	63.2	33.3	.0	.0	.0	.0	100.0	2.2

TOTAL NUMBER OF CASES OF THIS STABILITY 114
TOTAL NUMBER OF OBSERVATIONS 2159
PERCENTAGE OF TOTAL OF THIS STABILITY 5.3%

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES January - March 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY C

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	5.0	3.6	.0	.0	.0	.0	8.6	2.4
NNE	7.9	.7	.0	.0	.0	.0	8.6	1.7
NE	5.0	5.0	.0	.0	.0	.0	10.0	3.1
ENE	4.3	.7	.0	.0	.0	.0	5.0	2.1
E	2.9	.0	.0	.0	.0	.0	2.9	1.8
ESE	1.4	.0	.0	.0	.0	.0	1.4	1.5
SE	.7	.0	.0	.0	.0	.0	.7	2.8
SSE	.7	1.4	.0	.0	.0	.0	2.1	2.6
S	6.4	6.4	.0	.0	.0	.0	12.9	2.8
SSW	7.1	11.4	.0	.0	.0	.0	18.6	3.3
SW	2.1	5.7	.0	.0	.0	.0	7.9	3.7
WSW	3.6	4.3	.0	.0	.0	.0	7.9	3.2
W	1.4	2.1	.0	.0	.0	.0	3.6	3.6
WNW	.7	.7	.0	.0	.0	.0	1.4	2.8
NW	.7	2.1	.0	.0	.0	.0	2.9	3.4
NNW	2.1	2.9	.0	.0	.0	.0	5.0	3.2
CALM							.7	
TOTAL	52.1	47.1	.0	.0	.0	.0	100.0	2.9

TOTAL NUMBER OF CASES OF THIS STABILITY 140
TOTAL NUMBER OF OBSERVATIONS 2159
PERCENTAGE OF TOTAL OF THIS STABILITY 6.5%

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES January - March 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY D

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	1.2	2.6	.1	.0	.0	.0	3.9	3.6
NNE	2.6	2.2	.7	.5	.0	.0	5.9	4.5
NE	5.0	4.6	1.8	.0	.0	.0	11.4	3.7
ENE	4.4	4.9	.2	.0	.0	.0	9.5	3.1
E	2.7	.4	.0	.0	.0	.0	3.1	2.4
ESE	.8	.0	.0	.0	.0	.0	.8	1.7
SE	1.0	.2	.0	.0	.0	.0	1.2	2.2
SSE	1.1	1.1	.0	.0	.0	.0	2.2	3.0
S	3.0	9.3	7.9	1.1	.0	.0	21.3	5.5
SSW	3.9	8.6	4.6	1.5	.0	.0	18.6	5.3
SW	1.1	.9	.6	.2	.0	.0	2.7	4.6
WSW	1.3	.5	.5	.1	.0	.0	2.4	3.6
W	.7	.9	.6	.5	.0	.0	2.6	5.8
WNW	1.0	.4	.6	.2	.0	.0	2.2	4.6
NW	.5	1.6	2.9	.9	.0	.0	5.9	7.0
NNW	.7	1.5	1.3	.2	.0	.0	3.6	5.5
CALM							2.6	
TOTAL	30.9	39.6	21.7	5.1	.0	.0	100.0	4.7

TOTAL NUMBER OF CASES OF THIS STABILITY 1019
TOTAL NUMBER OF OBSERVATIONS 2159
PERCENTAGE OF TOTAL OF THIS STABILITY 47.2%

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES January - March 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY E

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	3.8	.2	.0	.0	.0	.0	4.0	1.6
NNE	5.4	1.2	.0	.0	.0	.0	6.6	2.2
NE	6.4	2.8	.0	.0	.0	.0	9.2	2.6
ENE	11.8	16.5	.0	.0	.0	.0	28.3	3.0
E	5.9	2.6	.0	.0	.0	.0	8.5	2.4
ESE	2.6	.0	.0	.0	.0	.0	2.6	1.4
SE	2.6	.2	.0	.0	.0	.0	2.8	1.5
SSE	2.4	.7	.0	.0	.0	.0	3.1	2.1
S	2.8	9.4	.0	.0	.0	.0	12.3	3.5
SSW	3.1	6.4	.0	.0	.0	.0	9.4	3.5
SW	1.7	.9	.0	.0	.0	.0	2.6	2.6
WSW	.2	.0	.0	.0	.0	.0	.2	1.9
W	.5	.2	.0	.0	.0	.0	.7	1.9
WNW	.5	.2	.0	.0	.0	.0	.7	2.7
NW	.9	.2	.0	.0	.0	.0	1.2	2.1
NNW	1.9	.5	.0	.0	.0	.0	2.4	2.0
CALM							5.4	
TOTAL	52.4	42.2	.0	.0	.0	.0	100.0	2.7

TOTAL NUMBER OF CASES OF THIS STABILITY 424
TOTAL NUMBER OF OBSERVATIONS 2159
PERCENTAGE OF TOTAL OF THIS STABILITY 19.6%

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES January - March 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY F

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	5.1	.0	.0	.0	.0	.0	5.1	1.4
NNE	7.2	.0	.0	.0	.0	.0	7.2	1.4
NE	11.6	.0	.0	.0	.0	.0	11.6	1.5
ENE	10.6	.0	.0	.0	.0	.0	10.6	1.6
E	7.2	.0	.0	.0	.0	.0	7.2	1.4
ESE	5.5	.0	.0	.0	.0	.0	5.5	1.4
SE	5.1	.0	.0	.0	.0	.0	5.1	1.5
SSE	7.8	.0	.0	.0	.0	.0	7.8	1.5
S	9.6	.0	.0	.0	.0	.0	9.6	1.6
SSW	4.4	.0	.0	.0	.0	.0	4.4	1.6
SW	3.1	.0	.0	.0	.0	.0	3.1	1.6
WSW	2.4	.0	.0	.0	.0	.0	2.4	1.5
W	3.1	.0	.0	.0	.0	.0	3.1	.9
WNW	2.7	.0	.0	.0	.0	.0	2.7	1.4
NW	5.8	.0	.0	.0	.0	.0	5.8	1.4
NNW	4.8	.0	.0	.0	.0	.0	4.8	1.5
CALM							4.1	
TOTAL	95.9	.0	.0	.0	.0	.0	100.0	1.5

TOTAL NUMBER OF CASES OF THIS STABILITY 293
TOTAL NUMBER OF OBSERVATIONS 2159
PERCENTAGE OF TOTAL OF THIS STABILITY 13.6%

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES January - March 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	3.1	1.7	.0	.0	.0	.0	4.8	2.5
NNE	4.3	1.4	.3	.2	.0	.0	6.2	3.0
NE	6.1	3.1	.8	.0	.0	.0	10.1	3.0
ENE	6.8	5.7	.1	.0	.0	.0	12.6	2.8
E	4.0	.7	.0	.0	.0	.0	4.7	2.1
ESE	1.9	.0	.0	.0	.0	.0	1.9	1.4
SE	1.9	.1	.0	.0	.0	.0	2.0	1.7
SSE	2.5	.8	.0	.0	.0	.0	3.3	2.2
S	4.5	6.9	3.7	.5	.0	.0	15.6	4.5
SSW	4.4	6.2	2.2	.7	.0	.0	13.5	4.5
SW	2.8	1.2	.3	.1	.0	.0	4.3	3.0
WSW	1.9	.5	.2	.0	.0	.0	2.7	2.7
W	1.8	.7	.3	.2	.0	.0	3.0	3.4
WNW	1.6	.5	.3	.1	.0	.0	2.5	3.2
NW	2.0	1.1	1.4	.4	.0	.0	4.9	4.7
NNW	2.4	1.2	.6	.1	.0	.0	4.3	3.3
CALM							3.6	
TOTAL	52.0	31.8	10.2	2.4	.0	.0	100.0	3.4

TOTAL NUMBER OF OBSERVATIONS 2159
POSSIBLE NUMBER OF OBSERVATIONS 2160
DATA RECOVERY 100.0%

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES April - June 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY A

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	8.0	.0	.0	.0	.0	.0	8.0	1.9
NNE	4.8	.0	.0	.0	.0	.0	4.8	2.2
NE	4.5	.0	.0	.0	.0	.0	4.5	2.1
ENE	3.1	.0	.0	.0	.0	.0	3.1	1.6
E	1.7	.0	.0	.0	.0	.0	1.7	1.9
ESE	.9	.0	.0	.0	.0	.0	.9	1.9
SE	2.6	.0	.0	.0	.0	.0	2.6	1.8
SSE	2.6	.0	.0	.0	.0	.0	2.6	1.9
S	4.3	.0	.0	.0	.0	.0	4.3	2.1
SSW	8.2	.0	.0	.0	.0	.0	8.2	2.0
SW	8.2	.0	.0	.0	.0	.0	8.2	2.0
WSW	12.8	.0	.0	.0	.0	.0	12.8	2.0
W	10.8	.0	.0	.0	.0	.0	10.8	2.1
WNW	9.7	.0	.0	.0	.0	.0	9.7	1.9
NW	9.7	.0	.0	.0	.0	.0	9.7	2.0
NNW	7.7	.0	.0	.0	.0	.0	7.7	1.9
CALM							.6	
TOTAL	99.4	.0	.0	.0	.0	.0	100.0	2.0

TOTAL NUMBER OF CASES OF THIS STABILITY 352
TOTAL NUMBER OF OBSERVATIONS 2178
PERCENTAGE OF TOTAL OF THIS STABILITY 16.2%

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES April - June 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY B

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	1.1	6.5	.0	.0	.0	.0	7.6	3.4
NNE	1.6	6.5	.0	.0	.0	.0	8.1	3.0
NE	1.6	3.2	.0	.0	.0	.0	4.9	3.1
ENE	1.1	1.6	.0	.0	.0	.0	2.7	3.0
E	.5	1.1	.0	.0	.0	.0	1.6	2.7
ESE	.5	.5	.0	.0	.0	.0	1.1	2.5
SE	1.6	.0	.0	.0	.0	.0	1.6	1.6
SSE	2.2	.0	.0	.0	.0	.0	2.2	2.0
S	2.7	4.3	.0	.0	.0	.0	7.0	2.8
SSW	3.2	10.3	.0	.0	.0	.0	13.5	3.1
SW	3.2	6.5	.0	.0	.0	.0	9.7	2.9
WSW	2.2	4.9	.0	.0	.0	.0	7.0	3.2
W	2.7	6.5	.0	.0	.0	.0	9.2	2.9
WNW	.0	7.0	.0	.0	.0	.0	7.0	3.3
NW	.5	9.2	.0	.0	.0	.0	9.7	3.5
NNW	.0	5.4	.0	.0	.0	.0	5.4	3.4
CALM							1.6	
TOTAL	24.9	73.5	.0	.0	.0	.0	100.0	3.1

TOTAL NUMBER OF CASES OF THIS STABILITY 185
TOTAL NUMBER OF OBSERVATIONS 2178
PERCENTAGE OF TOTAL OF THIS STABILITY 8.5%

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES April - June 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY C

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	1.8	6.3	.0	.0	.0	.0	8.1	4.2
NNE	.9	4.5	.0	.0	.0	.0	5.4	4.0
NE	4.1	7.2	.0	.0	.0	.0	11.3	3.4
ENE	3.6	1.4	.0	.0	.0	.0	5.0	2.3
E	.0	1.4	.0	.0	.0	.0	1.4	4.5
ESE	.9	.5	.0	.0	.0	.0	1.4	3.1
SE	.9	1.8	.0	.0	.0	.0	2.7	3.5
SSE	.9	1.4	.0	.0	.0	.0	2.3	3.1
S	3.6	5.4	.0	.0	.0	.0	9.0	3.2
SSW	5.4	19.8	.0	.0	.0	.0	25.2	4.1
SW	2.3	6.3	.0	.0	.0	.0	8.6	4.2
WSW	.5	1.8	.0	.0	.0	.0	2.3	4.2
W	.9	4.5	.0	.0	.0	.0	5.4	4.5
WNW	.5	4.1	.0	.0	.0	.0	4.5	4.5
NW	.0	3.2	.0	.0	.0	.0	3.2	4.6
NNW	.5	4.1	.0	.0	.0	.0	4.5	4.2
CALM							.0	
TOTAL	26.6	73.4	.0	.0	.0	.0	100.0	3.9

TOTAL NUMBER OF CASES OF THIS STABILITY 222
TOTAL NUMBER OF OBSERVATIONS 2178
PERCENTAGE OF TOTAL OF THIS STABILITY 10.2%

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES April - June 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY D

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	.8	1.8	1.7	.0	.0	.0	4.2	5.0
NNE	1.5	3.7	1.5	.1	.0	.0	6.7	4.5
NE	3.4	9.9	1.6	.0	.0	.0	14.9	4.3
ENE	4.1	8.5	.4	.0	.0	.0	13.1	3.7
E	3.0	3.7	.6	.0	.0	.0	7.3	3.3
ESE	1.1	1.0	.2	.0	.0	.0	2.3	3.5
SE	1.0	.7	.7	.0	.0	.0	2.3	4.3
SSE	1.2	1.7	1.1	.1	.0	.0	4.1	4.9
S	1.1	6.6	4.2	.9	.0	.0	12.8	5.8
SSW	1.6	3.9	2.9	.6	.0	.0	8.9	5.4
SW	.4	1.2	1.0	.1	.0	.0	2.8	5.5
WSW	.1	.8	1.0	.3	.0	.0	2.2	6.9
W	.2	.9	2.1	.0	.0	.0	3.2	6.1
WNW	.1	1.5	1.2	.2	.0	.0	3.0	6.0
NW	.0	1.7	3.2	.3	.0	.0	5.3	6.9
NNW	.2	2.6	2.5	.2	.0	.0	5.5	5.9
CALM							1.2	
TOTAL	19.9	50.1	25.9	2.9	.0	.0	100.0	4.9

TOTAL NUMBER OF CASES OF THIS STABILITY 895
TOTAL NUMBER OF OBSERVATIONS 2178
PERCENTAGE OF TOTAL OF THIS STABILITY 41.1%

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES April - June 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY E

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	1.8	.4	.0	.0	.0	.0	2.2	1.9
NNE	3.2	2.5	.0	.0	.0	.0	5.8	2.5
NE	8.3	4.7	.0	.0	.0	.0	12.9	2.6
ENE	9.7	17.6	.0	.0	.0	.0	27.3	3.3
E	4.3	9.0	.0	.0	.0	.0	13.3	3.0
ESE	2.9	2.5	.0	.0	.0	.0	5.4	2.9
SE	1.8	.4	.0	.0	.0	.0	2.2	2.4
SSE	3.6	.7	.0	.0	.0	.0	4.3	2.4
S	3.6	11.2	.0	.0	.0	.0	14.7	3.6
SSW	1.8	.0	.0	.0	.0	.0	1.8	1.5
SW	.4	.7	.0	.0	.0	.0	1.1	3.6
WSW	.7	.0	.0	.0	.0	.0	.7	2.2
W	1.8	.4	.0	.0	.0	.0	2.2	1.9
WNW	.0	.4	.0	.0	.0	.0	.4	4.9
NW	1.1	.4	.0	.0	.0	.0	1.4	2.6
NNW	1.8	.4	.0	.0	.0	.0	2.2	2.1
CALM							2.2	
TOTAL	46.8	51.1	.0	.0	.0	.0	100.0	3.0

TOTAL NUMBER OF CASES OF THIS STABILITY 278
TOTAL NUMBER OF OBSERVATIONS 2178
PERCENTAGE OF TOTAL OF THIS STABILITY 12.8%

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES April - June 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY F

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	5.7	.0	.0	.0	.0	.0	5.7	1.6
NNE	7.3	.0	.0	.0	.0	.0	7.3	1.7
NE	8.5	.0	.0	.0	.0	.0	8.5	1.6
ENE	8.5	.0	.0	.0	.0	.0	8.5	1.9
E	7.7	.0	.0	.0	.0	.0	7.7	1.8
ESE	6.9	.0	.0	.0	.0	.0	6.9	1.7
SE	4.9	.0	.0	.0	.0	.0	4.9	1.5
SSE	8.9	.0	.0	.0	.0	.0	8.9	1.6
S	6.1	.0	.0	.0	.0	.0	6.1	1.8
SSW	6.5	.0	.0	.0	.0	.0	6.5	1.5
SW	6.5	.0	.0	.0	.0	.0	6.5	1.7
WSW	2.4	.0	.0	.0	.0	.0	2.4	1.3
W	4.5	.0	.0	.0	.0	.0	4.5	1.7
WNW	3.3	.0	.0	.0	.0	.0	3.3	1.6
NW	2.4	.0	.0	.0	.0	.0	2.4	2.2
NNW	5.7	.0	.0	.0	.0	.0	5.7	1.6
CALM							4.1	
TOTAL	95.9	.0	.0	.0	.0	.0	100.0	1.7

TOTAL NUMBER OF CASES OF THIS STABILITY 246
TOTAL NUMBER OF OBSERVATIONS 2178
PERCENTAGE OF TOTAL OF THIS STABILITY 11.3%

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES April - June 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	2.8	2.0	.7	.0	.0	.0	5.4	3.4
NNE	2.8	2.8	.6	.0	.0	.0	6.3	3.4
NE	4.7	5.7	.6	.0	.0	.0	11.0	3.5
ENE	4.9	6.0	.2	.0	.0	.0	11.1	3.2
E	3.0	2.9	.2	.0	.0	.0	6.1	3.0
ESE	1.9	.8	.1	.0	.0	.0	2.8	2.7
SE	1.8	.5	.3	.0	.0	.0	2.6	2.9
SSE	2.7	.9	.5	.0	.0	.0	4.1	3.2
S	2.9	5.1	1.7	.4	.0	.0	10.1	4.4
SSW	3.8	4.5	1.2	.2	.0	.0	9.7	3.9
SW	2.8	1.8	.4	.0	.0	.0	5.1	3.3
WSW	2.7	.9	.4	.1	.0	.0	4.2	3.3
W	2.9	1.4	.9	.0	.0	.0	5.2	3.4
WNW	2.0	1.7	.5	.1	.0	.0	4.3	3.6
NW	2.0	1.8	1.3	.1	.0	.0	5.3	4.4
NNW	2.2	2.0	1.0	.1	.0	.0	5.3	3.9
CALM							1.5	
TOTAL	45.9	40.8	10.7	1.2	.0	.0	100.0	3.6

TOTAL NUMBER OF OBSERVATIONS 2178
POSSIBLE NUMBER OF OBSERVATIONS 2184
DATA RECOVERY 99.7%

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES July - September 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY A

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	4.0	.0	.0	.0	.0	.0	4.0	1.7
NNE	5.4	.0	.0	.0	.0	.0	5.4	2.0
NE	3.3	.0	.0	.0	.0	.0	3.3	1.5
ENE	1.9	.0	.0	.0	.0	.0	1.9	1.5
E	3.8	.0	.0	.0	.0	.0	3.8	1.3
ESE	1.6	.0	.0	.0	.0	.0	1.6	1.3
SE	1.9	.0	.0	.0	.0	.0	1.9	1.5
SSE	2.1	.0	.0	.0	.0	.0	2.1	1.4
S	4.5	.0	.0	.0	.0	.0	4.5	1.7
SSW	7.8	.0	.0	.0	.0	.0	7.8	2.0
SW	10.8	.0	.0	.0	.0	.0	10.8	1.9
WSW	12.0	.0	.0	.0	.0	.0	12.0	1.9
W	11.1	.0	.0	.0	.0	.0	11.1	2.1
WNW	14.6	.0	.0	.0	.0	.0	14.6	2.1
NW	8.5	.0	.0	.0	.0	.0	8.5	2.1
NNW	5.9	.0	.0	.0	.0	.0	5.9	1.9
CALM							.9	
TOTAL	99.1	.0	.0	.0	.0	.0	100.0	1.9

TOTAL NUMBER OF CASES OF THIS STABILITY 425
TOTAL NUMBER OF OBSERVATIONS 2208
PERCENTAGE OF TOTAL OF THIS STABILITY 19.2%

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES July - September 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY B

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	2.0	5.4	.0	.0	.0	.0	7.4	3.0
NNE	1.0	3.0	.0	.0	.0	.0	3.9	3.3
NE	2.0	.5	.0	.0	.0	.0	2.5	1.9
ENE	1.5	.5	.0	.0	.0	.0	2.0	2.0
E	1.0	.0	.0	.0	.0	.0	1.0	1.6
ESE	2.0	.0	.0	.0	.0	.0	2.0	1.8
SE	1.0	.5	.0	.0	.0	.0	1.5	2.1
SSE	2.5	.0	.0	.0	.0	.0	2.5	1.3
S	1.0	3.0	.0	.0	.0	.0	3.9	3.2
SSW	4.9	8.4	.0	.0	.0	.0	13.3	2.8
SW	4.9	10.8	.0	.0	.0	.0	15.8	2.9
WSW	2.0	5.4	.0	.0	.0	.0	7.4	2.9
W	1.0	7.4	.0	.0	.0	.0	8.4	3.2
WNW	1.0	8.9	.0	.0	.0	.0	9.9	3.2
NW	.0	13.8	.0	.0	.0	.0	13.8	3.4
NNW	.0	4.9	.0	.0	.0	.0	4.9	3.6
CALM							.0	
TOTAL	27.6	72.4	.0	.0	.0	.0	100.0	2.9

TOTAL NUMBER OF CASES OF THIS STABILITY 203
TOTAL NUMBER OF OBSERVATIONS 2208
PERCENTAGE OF TOTAL OF THIS STABILITY 9.2%

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES July - September 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY C

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	.9	5.8	.0	.0	.0	.0	6.7	4.6
NNE	.9	.9	.0	.0	.0	.0	1.8	3.0
NE	.9	.9	.0	.0	.0	.0	1.8	3.6
ENE	1.8	.4	.0	.0	.0	.0	2.2	2.6
E	.9	.4	.0	.0	.0	.0	1.3	3.3
ESE	.9	.0	.0	.0	.0	.0	.9	1.3
SE	1.3	.0	.0	.0	.0	.0	1.3	2.0
SSE	1.3	.0	.0	.0	.0	.0	1.3	1.6
S	2.2	8.9	.0	.0	.0	.0	11.2	4.4
SSW	7.1	14.3	.0	.0	.0	.0	21.4	3.8
SW	3.1	8.9	.0	.0	.0	.0	12.1	4.0
WSW	1.3	2.7	.0	.0	.0	.0	4.0	4.0
W	.0	4.9	.0	.0	.0	.0	4.9	4.7
WNW	.0	6.7	.0	.0	.0	.0	6.7	4.3
NW	.0	14.7	.0	.0	.0	.0	14.7	4.7
NNW	.0	7.6	.0	.0	.0	.0	7.6	4.7
CALM							.0	
TOTAL	22.8	77.2	.0	.0	.0	.0	100.0	4.1

TOTAL NUMBER OF CASES OF THIS STABILITY 224
TOTAL NUMBER OF OBSERVATIONS 2208
PERCENTAGE OF TOTAL OF THIS STABILITY 10.1%

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES July - September 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY D

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	.6	2.2	1.4	.0	.0	.0	4.2	4.9
NNE	1.0	4.6	1.9	.0	.0	.0	7.6	4.8
NE	3.0	7.9	.6	.0	.0	.0	11.5	3.9
ENE	5.8	11.3	.5	.0	.0	.0	17.6	3.4
E	1.9	4.6	.1	.0	.0	.0	6.7	3.4
ESE	1.4	1.4	.4	.0	.0	.0	3.2	3.4
SE	.5	1.2	.1	.0	.0	.0	1.8	3.4
SSE	1.2	1.3	.9	.0	.0	.0	3.3	4.7
S	2.7	9.1	3.7	1.0	.0	.0	16.6	5.3
SSW	1.8	6.8	3.2	1.4	.1	.0	13.4	5.9
SW	.4	1.0	.9	.0	.0	.0	2.3	5.1
WSW	.0	1.4	.5	.3	.0	.0	2.2	5.9
W	.0	.4	.5	.0	.0	.0	.9	6.0
WNW	.1	.5	.5	.0	.0	.0	1.2	5.7
NW	.3	1.2	1.5	.3	.1	.0	3.3	7.0
NNW	.0	2.2	1.8	.1	.0	.0	4.1	6.1
CALM							.0	
TOTAL	20.7	57.1	18.8	3.1	.3	.0	100.0	4.7

TOTAL NUMBER OF CASES OF THIS STABILITY 777
TOTAL NUMBER OF OBSERVATIONS 2208
PERCENTAGE OF TOTAL OF THIS STABILITY 35.2%

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES July - September 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY E

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	1.4	.7	.0	.0	.0	.0	2.1	3.2
NNE	2.1	1.7	.0	.0	.0	.0	3.8	2.6
NE	7.9	8.2	.0	.0	.0	.0	16.1	3.1
ENE	5.5	25.3	.0	.0	.0	.0	30.8	3.6
E	4.8	10.3	.0	.0	.0	.0	15.1	3.4
ESE	3.4	2.4	.0	.0	.0	.0	5.8	2.7
SE	2.1	.0	.0	.0	.0	.0	2.1	1.7
SSE	2.7	1.4	.0	.0	.0	.0	4.1	2.4
S	3.8	9.2	.0	.0	.0	.0	13.0	3.6
SSW	.7	1.0	.0	.0	.0	.0	1.7	3.0
SW	1.7	.3	.0	.0	.0	.0	2.1	2.7
WSW	.7	.0	.0	.0	.0	.0	.7	2.2
W	.3	.0	.0	.0	.0	.0	.3	2.9
WNW	.0	.0	.0	.0	.0	.0	.0	.0
NW	.3	.0	.0	.0	.0	.0	.3	2.9
NNW	.7	1.4	.0	.0	.0	.0	2.1	3.2
CALM							.0	
TOTAL	38.0	62.0	.0	.0	.0	.0	100.0	3.3

TOTAL NUMBER OF CASES OF THIS STABILITY 292
TOTAL NUMBER OF OBSERVATIONS 2208
PERCENTAGE OF TOTAL OF THIS STABILITY 13.2%

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES July - September 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY F

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	5.6	.0	.0	.0	.0	.0	5.6	1.7
NNE	7.3	.0	.0	.0	.0	.0	7.3	1.6
NE	11.5	.0	.0	.0	.0	.0	11.5	1.8
ENE	13.2	.0	.0	.0	.0	.0	13.2	1.7
E	6.6	.0	.0	.0	.0	.0	6.6	1.4
ESE	5.6	.0	.0	.0	.0	.0	5.6	1.7
SE	7.7	.0	.0	.0	.0	.0	7.7	1.6
SSE	6.6	.0	.0	.0	.0	.0	6.6	1.5
S	9.4	.0	.0	.0	.0	.0	9.4	1.8
SSW	5.2	.0	.0	.0	.0	.0	5.2	1.5
SW	3.5	.0	.0	.0	.0	.0	3.5	1.7
WSW	1.4	.0	.0	.0	.0	.0	1.4	1.4
W	4.2	.0	.0	.0	.0	.0	4.2	1.6
WNW	1.7	.0	.0	.0	.0	.0	1.7	2.1
NW	4.5	.0	.0	.0	.0	.0	4.5	2.0
NNW	5.6	.0	.0	.0	.0	.0	5.6	1.9
CALM							.3	
TOTAL	99.7	.0	.0	.0	.0	.0	100.0	1.7

TOTAL NUMBER OF CASES OF THIS STABILITY 287
TOTAL NUMBER OF OBSERVATIONS 2208
PERCENTAGE OF TOTAL OF THIS STABILITY 13.0%

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES July - September 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	2.2	1.9	.5	.0	.0	.0	4.6	3.4
NNE	2.8	2.2	.7	.0	.0	.0	5.7	3.4
NE	4.5	4.0	.2	.0	.0	.0	8.7	3.1
ENE	5.2	7.4	.2	.0	.0	.0	12.8	3.2
E	3.1	3.0	.0	.0	.0	.0	6.2	2.9
ESE	2.3	.8	.1	.0	.0	.0	3.2	2.5
SE	2.0	.5	.0	.0	.0	.0	2.5	2.1
SSE	2.4	.6	.3	.0	.0	.0	3.4	2.8
S	3.8	5.6	1.3	.4	.0	.0	11.1	4.2
SSW	4.1	4.8	1.1	.5	.0	.0	10.5	4.2
SW	3.7	2.3	.3	.0	.0	.0	6.3	3.0
WSW	2.9	1.3	.2	.1	.0	.0	4.4	2.9
W	2.8	1.3	.2	.0	.0	.0	4.3	2.8
WNW	3.2	1.7	.2	.0	.0	.0	5.0	2.9
NW	2.4	3.2	.5	.1	.0	.0	6.2	3.9
NNW	1.9	2.2	.6	.0	.0	.0	4.8	3.8
CALM							.2	
TOTAL	49.2	42.8	6.6	1.1	.1	.0	100.0	3.4

TOTAL NUMBER OF OBSERVATIONS 2208
POSSIBLE NUMBER OF OBSERVATIONS 2208
DATA RECOVERY 100.0%

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES October - December 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY A

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	8.1	.0	.0	.0	.0	.0	8.1	1.3
NNE	7.0	.0	.0	.0	.0	.0	7.0	1.4
NE	4.6	.0	.0	.0	.0	.0	4.6	1.1
ENE	2.8	.0	.0	.0	.0	.0	2.8	1.1
E	3.2	.0	.0	.0	.0	.0	3.2	1.6
ESE	1.4	.0	.0	.0	.0	.0	1.4	.9
SE	2.1	.0	.0	.0	.0	.0	2.1	1.3
SSE	2.1	.0	.0	.0	.0	.0	2.1	1.2
S	4.9	.0	.0	.0	.0	.0	4.9	1.4
SSW	7.0	.0	.0	.0	.0	.0	7.0	1.3
SW	10.9	.0	.0	.0	.0	.0	10.9	1.2
WSW	11.2	.0	.0	.0	.0	.0	11.2	1.2
W	8.4	.0	.0	.0	.0	.0	8.4	1.7
WNW	10.5	.0	.0	.0	.0	.0	10.5	1.6
NW	7.0	.0	.0	.0	.0	.0	7.0	1.8
NNW	6.0	.0	.0	.0	.0	.0	6.0	1.6
CALM							2.8	
TOTAL	97.2	.0	.0	.0	.0	.0	100.0	1.4

TOTAL NUMBER OF CASES OF THIS STABILITY 285
TOTAL NUMBER OF OBSERVATIONS 2203
PERCENTAGE OF TOTAL OF THIS STABILITY 12.9%

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES October - December 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY B

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	3.0	2.0	.0	.0	.0	.0	5.0	2.4
NNE	5.0	2.0	.0	.0	.0	.0	6.9	1.8
NE	6.9	.0	.0	.0	.0	.0	6.9	1.5
ENE	2.0	.0	.0	.0	.0	.0	2.0	.8
E	4.0	.0	.0	.0	.0	.0	4.0	1.7
ESE	1.0	.0	.0	.0	.0	.0	1.0	.8
SE	2.0	.0	.0	.0	.0	.0	2.0	.9
SSE	2.0	.0	.0	.0	.0	.0	2.0	1.1
S	5.0	1.0	.0	.0	.0	.0	5.9	1.8
SSW	8.9	1.0	.0	.0	.0	.0	9.9	2.2
SW	10.9	.0	.0	.0	.0	.0	10.9	1.6
WSW	5.9	1.0	.0	.0	.0	.0	6.9	2.0
W	3.0	3.0	.0	.0	.0	.0	5.9	2.6
WNW	5.9	2.0	.0	.0	.0	.0	7.9	2.2
NW	7.9	1.0	.0	.0	.0	.0	8.9	2.5
NNW	6.9	5.0	.0	.0	.0	.0	11.9	2.5
CALM							2.0	
TOTAL	80.2	17.8	.0	.0	.0	.0	100.0	2.0

TOTAL NUMBER OF CASES OF THIS STABILITY 101
TOTAL NUMBER OF OBSERVATIONS 2203
PERCENTAGE OF TOTAL OF THIS STABILITY 4.6%

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES October - December 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY C

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	3.3	3.9	.0	.0	.0	.0	7.2	2.7
NNE	6.5	2.0	.0	.0	.0	.0	8.5	2.5
NE	3.9	2.0	.0	.0	.0	.0	5.9	2.4
ENE	5.2	.0	.0	.0	.0	.0	5.2	1.6
E	1.3	.0	.0	.0	.0	.0	1.3	1.4
ESE	2.6	.0	.0	.0	.0	.0	2.6	1.2
SE	.7	.0	.0	.0	.0	.0	.7	1.6
SSE	1.3	.0	.0	.0	.0	.0	1.3	1.2
S	7.2	2.0	.0	.0	.0	.0	9.2	2.0
SSW	16.3	5.9	.0	.0	.0	.0	22.2	2.7
SW	2.0	3.3	.0	.0	.0	.0	5.2	3.6
WSW	3.3	1.3	.0	.0	.0	.0	4.6	2.2
W	4.6	.0	.0	.0	.0	.0	4.6	1.5
WNW	5.9	2.0	.0	.0	.0	.0	7.8	2.6
NW	.0	3.9	.0	.0	.0	.0	3.9	4.0
NNW	2.6	5.9	.0	.0	.0	.0	8.5	3.6
CALM							1.3	
TOTAL	66.7	32.0	.0	.0	.0	.0	100.0	2.5

TOTAL NUMBER OF CASES OF THIS STABILITY 153
TOTAL NUMBER OF OBSERVATIONS 2203
PERCENTAGE OF TOTAL OF THIS STABILITY 6.9%

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES October - December 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY D

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	2.0	3.4	2.7	1.2	.0	.0	9.3	5.9
NNE	4.6	4.0	1.1	.0	.0	.0	9.7	3.6
NE	7.7	4.3	.3	.0	.0	.0	12.2	2.9
ENE	8.1	6.3	.1	.0	.0	.0	14.5	2.8
E	2.6	.5	.0	.0	.0	.0	3.1	2.2
ESE	1.1	.3	.0	.0	.0	.0	1.3	2.3
SE	1.2	.1	.0	.0	.0	.0	1.3	1.9
SSE	.7	.3	.1	.0	.0	.0	1.1	2.6
S	3.5	5.9	3.0	1.1	.0	.0	13.4	5.2
SSW	3.5	5.9	2.3	.5	.0	.0	12.2	4.5
SW	.7	.4	.3	.0	.0	.0	1.3	3.7
WSW	.7	.4	.1	.0	.0	.0	1.2	3.5
W	.5	.5	.1	.0	.0	.0	1.2	3.5
WNW	1.5	.5	.1	.0	.0	.0	2.1	3.0
NW	1.1	1.5	2.0	.4	.0	.0	5.0	5.9
NNW	1.7	3.1	2.7	.4	.0	.0	7.9	5.3
CALM							3.1	
TOTAL	40.9	37.4	14.9	3.6	.0	.0	100.0	4.1

TOTAL NUMBER OF CASES OF THIS STABILITY 745
TOTAL NUMBER OF OBSERVATIONS 2203
PERCENTAGE OF TOTAL OF THIS STABILITY 33.8%

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES October - December 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY E

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	4.2	.5	.0	.0	.0	.0	4.7	2.2
NNE	7.7	.8	.0	.0	.0	.0	8.4	1.9
NE	8.4	4.7	.0	.0	.0	.0	13.2	2.6
ENE	8.4	16.6	.0	.0	.0	.0	25.1	3.1
E	5.8	5.5	.0	.0	.0	.0	11.3	2.5
ESE	4.5	.3	.0	.0	.0	.0	4.7	1.5
SE	1.8	.0	.0	.0	.0	.0	1.8	1.7
SSE	2.9	.0	.0	.0	.0	.0	2.9	1.6
S	5.3	5.5	.0	.0	.0	.0	10.8	2.9
SSW	2.6	2.4	.0	.0	.0	.0	5.0	2.6
SW	.8	.3	.0	.0	.0	.0	1.1	1.9
WSW	1.1	.0	.0	.0	.0	.0	1.1	1.8
W	.0	.0	.0	.0	.0	.0	.0	.0
WNW	1.6	.3	.0	.0	.0	.0	1.8	2.0
NW	2.6	.3	.0	.0	.0	.0	2.9	2.2
NNW	2.1	1.3	.0	.0	.0	.0	3.4	2.5
CALM							1.6	
TOTAL	59.9	38.5	.0	.0	.0	.0	100.0	2.5

TOTAL NUMBER OF CASES OF THIS STABILITY 379
TOTAL NUMBER OF OBSERVATIONS 2203
PERCENTAGE OF TOTAL OF THIS STABILITY 17.2%

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES October - December 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY F

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	6.3	.0	.0	.0	.0	.0	6.3	1.4
NNE	10.6	.0	.0	.0	.0	.0	10.6	1.4
NE	8.3	.0	.0	.0	.0	.0	8.3	1.5
ENE	9.6	.0	.0	.0	.0	.0	9.6	1.5
E	7.4	.0	.0	.0	.0	.0	7.4	1.3
ESE	5.9	.0	.0	.0	.0	.0	5.9	1.3
SE	5.0	.0	.0	.0	.0	.0	5.0	1.2
SSE	5.7	.0	.0	.0	.0	.0	5.7	1.4
S	7.4	.0	.0	.0	.0	.0	7.4	1.3
SSW	4.6	.0	.0	.0	.0	.0	4.6	1.3
SW	4.1	.0	.0	.0	.0	.0	4.1	1.3
WSW	3.1	.0	.0	.0	.0	.0	3.1	1.2
W	3.0	.0	.0	.0	.0	.0	3.0	1.3
WNW	3.9	.0	.0	.0	.0	.0	3.9	1.4
NW	5.0	.0	.0	.0	.0	.0	5.0	1.3
NNW	4.1	.0	.0	.0	.0	.0	4.1	1.4
CALM							5.9	
TOTAL	94.1	.0	.0	.0	.0	.0	100.0	1.4

TOTAL NUMBER OF CASES OF THIS STABILITY 540
TOTAL NUMBER OF OBSERVATIONS 2203
PERCENTAGE OF TOTAL OF THIS STABILITY 24.5%

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES October - December 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	4.4	1.6	.9	.4	.0	.0	7.3	3.5
NNE	7.0	1.7	.4	.0	.0	.0	9.1	2.3
NE	7.3	2.4	.1	.0	.0	.0	9.8	2.4
ENE	7.4	5.0	.0	.0	.0	.0	12.4	2.5
E	4.4	1.1	.0	.0	.0	.0	5.5	1.9
ESE	3.0	.1	.0	.0	.0	.0	3.1	1.5
SE	2.4	.0	.0	.0	.0	.0	2.4	1.4
SSE	2.6	.1	.0	.0	.0	.0	2.7	1.6
S	5.3	3.1	1.0	.4	.0	.0	9.8	3.5
SSW	5.2	2.9	.8	.2	.0	.0	9.0	3.2
SW	3.4	.4	.1	.0	.0	.0	3.9	1.8
WSW	3.1	.3	.0	.0	.0	.0	3.4	1.7
W	2.5	.3	.0	.0	.0	.0	2.8	1.9
WNW	3.8	.5	.0	.0	.0	.0	4.3	2.0
NW	3.3	.9	.7	.1	.0	.0	5.0	3.3
NNW	3.2	1.9	.9	.1	.0	.0	6.2	3.5
CALM							3.3	
TOTAL	68.1	22.3	5.0	1.2	.0	.0	100.0	2.6

TOTAL NUMBER OF OBSERVATIONS 2203
POSSIBLE NUMBER OF OBSERVATIONS 2208
DATA RECOVERY 99.8%

Appendix A.4
Quarterly Joint Frequency of Occurrence Distributions of Wind Speeds and Direction - Delta-T

EnergySolutions - Clive, Utah

DELTA T STABILITIES January - March 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY A

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	18.8	.0	.0	.0	.0	.0	18.8	1.8
NNE	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	.0	.0	.0	.0	.0	.0
SSW	6.2	.0	.0	.0	.0	.0	6.2	1.9
SW	6.2	.0	.0	.0	.0	.0	6.2	1.3
WSW	18.8	.0	.0	.0	.0	.0	18.8	1.4
W	18.8	.0	.0	.0	.0	.0	18.8	1.1
WNW	12.5	.0	.0	.0	.0	.0	12.5	1.5
NW	12.5	.0	.0	.0	.0	.0	12.5	1.2
NNW	6.2	.0	.0	.0	.0	.0	6.2	1.0
CALM							.0	
TOTAL	100.0	.0	.0	.0	.0	.0	100.0	1.4

TOTAL NUMBER OF CASES OF THIS STABILITY 16
TOTAL NUMBER OF OBSERVATIONS 2159
PERCENTAGE OF TOTAL OF THIS STABILITY .7%

EnergySolutions - Clive, Utah

DELTA T STABILITIES January - March 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY B

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	5.9	.8	.0	.0	.0	.0	6.7	1.3
NNE	4.6	.0	.0	.0	.0	.0	4.6	1.6
NE	3.8	.8	.0	.0	.0	.0	4.6	1.9
ENE	5.4	.0	.0	.0	.0	.0	5.4	1.4
E	1.7	.0	.0	.0	.0	.0	1.7	.9
ESE	2.5	.0	.0	.0	.0	.0	2.5	1.4
SE	.4	.0	.0	.0	.0	.0	.4	.5
SSE	2.5	.0	.0	.0	.0	.0	2.5	1.2
S	7.1	1.7	.0	.0	.0	.0	8.8	1.9
SSW	10.9	1.3	.0	.0	.0	.0	12.1	1.7
SW	9.6	1.3	.0	.0	.0	.0	10.9	1.7
WSW	6.7	.0	.0	.0	.0	.0	6.7	1.2
W	6.3	.8	.0	.0	.0	.0	7.1	1.5
WNW	2.5	1.3	.0	.0	.0	.0	3.8	2.2
NW	5.0	.8	.0	.0	.0	.0	5.9	1.6
NNW	5.9	.8	.0	.0	.0	.0	6.7	1.3
CALM							9.6	
TOTAL	80.8	9.6	.0	.0	.0	.0	100.0	1.6

TOTAL NUMBER OF CASES OF THIS STABILITY 239
TOTAL NUMBER OF OBSERVATIONS 2159
PERCENTAGE OF TOTAL OF THIS STABILITY 11.1%

EnergySolutions - Clive, Utah

DELTA T STABILITIES January - March 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY C

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	2.0	2.5	.0	.0	.0	.0	4.5	3.2
NNE	2.5	2.0	.0	.0	.0	.0	4.5	2.9
NE	2.5	4.5	.0	.0	.0	.0	7.0	3.6
ENE	4.5	3.5	.0	.0	.0	.0	8.0	3.0
E	.5	.5	.0	.0	.0	.0	1.0	2.6
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.5	.0	.0	.0	.0	.0	.5	2.8
SSE	1.0	1.5	.0	.0	.0	.0	2.5	3.1
S	7.0	12.4	.0	.0	.0	.0	19.4	3.3
SSW	8.5	17.9	.0	.0	.0	.0	26.4	3.5
SW	4.5	4.0	.0	.0	.0	.0	8.5	3.2
WSW	1.0	1.0	.0	.0	.0	.0	2.0	3.1
W	1.5	1.0	.0	.0	.0	.0	2.5	3.0
WNW	2.5	1.0	.0	.0	.0	.0	3.5	3.2
NW	1.0	3.0	.0	.0	.0	.0	4.0	3.3
NNW	3.0	3.0	.0	.0	.0	.0	6.0	3.1
CALM							.0	
TOTAL	42.3	57.7	.0	.0	.0	.0	100.0	3.3

TOTAL NUMBER OF CASES OF THIS STABILITY 201
TOTAL NUMBER OF OBSERVATIONS 2159
PERCENTAGE OF TOTAL OF THIS STABILITY 9.3%

EnergySolutions - Clive, Utah

DELTA T STABILITIES January - March 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY D

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	1.1	2.8	.1	.0	.0	.0	4.1	3.6
NNE	2.5	2.5	.7	.5	.0	.0	6.1	4.5
NE	2.7	5.4	1.7	.0	.0	.0	9.8	4.2
ENE	3.8	10.9	.2	.0	.0	.0	14.9	3.5
E	2.5	1.4	.0	.0	.0	.0	3.9	2.9
ESE	.4	.0	.0	.0	.0	.0	.4	1.9
SE	.7	.3	.0	.0	.0	.0	.9	2.5
SSE	.8	1.4	.0	.0	.0	.0	2.2	3.3
S	1.0	11.3	7.6	1.0	.0	.0	20.9	5.7
SSW	2.1	9.0	4.4	1.4	.0	.0	16.9	5.7
SW	.9	1.3	.6	.2	.0	.0	2.9	4.8
WSW	.7	.9	.5	.1	.0	.0	2.1	4.6
W	.4	1.0	.6	.5	.0	.0	2.5	6.3
WNW	.8	.5	.6	.2	.0	.0	2.0	4.8
NW	.5	1.5	2.8	.9	.0	.0	5.7	7.0
NNW	.7	1.7	1.2	.2	.0	.0	3.8	5.4
CALM							1.0	
TOTAL	21.3	51.8	20.9	4.9	.0	.0	100.0	4.9

TOTAL NUMBER OF CASES OF THIS STABILITY 1057
TOTAL NUMBER OF OBSERVATIONS 2159
PERCENTAGE OF TOTAL OF THIS STABILITY 49.0%

EnergySolutions - Clive, Utah

DELTA T STABILITIES January - March 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY E

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	4.0	.0	.0	.0	.0	.0	4.0	1.9
NNE	6.8	.0	.0	.0	.0	.0	6.8	2.0
NE	21.0	.0	.0	.0	.0	.0	21.0	2.1
ENE	16.5	.0	.0	.0	.0	.0	16.5	2.2
E	8.0	.0	.0	.0	.0	.0	8.0	2.2
ESE	1.7	.0	.0	.0	.0	.0	1.7	1.9
SE	3.4	.0	.0	.0	.0	.0	3.4	2.0
SSE	5.1	.0	.0	.0	.0	.0	5.1	2.0
S	8.5	.0	.0	.0	.0	.0	8.5	2.3
SSW	6.8	.0	.0	.0	.0	.0	6.8	2.2
SW	1.7	.0	.0	.0	.0	.0	1.7	2.4
WSW	4.0	.0	.0	.0	.0	.0	4.0	1.9
W	1.7	.0	.0	.0	.0	.0	1.7	1.0
WNW	4.0	.0	.0	.0	.0	.0	4.0	1.9
NW	3.4	.0	.0	.0	.0	.0	3.4	1.7
NNW	2.8	.0	.0	.0	.0	.0	2.8	2.2
CALM							.6	
TOTAL	99.4	.0	.0	.0	.0	.0	100.0	2.1

TOTAL NUMBER OF CASES OF THIS STABILITY 176
TOTAL NUMBER OF OBSERVATIONS 2159
PERCENTAGE OF TOTAL OF THIS STABILITY 8.2%

EnergySolutions - Clive, Utah

DELTA T STABILITIES January - March 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY F

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	5.5	.0	.0	.0	.0	.0	5.5	1.2
NNE	8.1	.0	.0	.0	.0	.0	8.1	1.3
NE	10.9	.0	.0	.0	.0	.0	10.9	1.3
ENE	11.9	.0	.0	.0	.0	.0	11.9	1.4
E	8.7	.0	.0	.0	.0	.0	8.7	1.4
ESE	6.2	.0	.0	.0	.0	.0	6.2	1.3
SE	5.5	.0	.0	.0	.0	.0	5.5	1.3
SSE	6.2	.0	.0	.0	.0	.0	6.2	1.4
S	8.5	.0	.0	.0	.0	.0	8.5	1.4
SSW	3.8	.0	.0	.0	.0	.0	3.8	1.3
SW	3.2	.0	.0	.0	.0	.0	3.2	1.4
WSW	1.5	.0	.0	.0	.0	.0	1.5	1.2
W	2.3	.0	.0	.0	.0	.0	2.3	1.1
WNW	1.5	.0	.0	.0	.0	.0	1.5	1.3
NW	3.4	.0	.0	.0	.0	.0	3.4	1.2
NNW	3.8	.0	.0	.0	.0	.0	3.8	1.3
CALM							8.9	
TOTAL	91.1	.0	.0	.0	.0	.0	100.0	1.3

TOTAL NUMBER OF CASES OF THIS STABILITY 470
TOTAL NUMBER OF OBSERVATIONS 2159
PERCENTAGE OF TOTAL OF THIS STABILITY 21.8%

EnergySolutions - Clive, Utah

DELTA T STABILITIES January - March 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	3.1	1.7	.0	.0	.0	.0	4.8	2.5
NNE	4.3	1.4	.3	.2	.0	.0	6.2	3.0
NE	6.1	3.1	.8	.0	.0	.0	10.1	3.0
ENE	6.8	5.7	.1	.0	.0	.0	12.6	2.8
E	4.0	.7	.0	.0	.0	.0	4.7	2.1
ESE	1.9	.0	.0	.0	.0	.0	1.9	1.4
SE	1.9	.1	.0	.0	.0	.0	2.0	1.7
SSE	2.5	.8	.0	.0	.0	.0	3.3	2.2
S	4.5	6.9	3.7	.5	.0	.0	15.6	4.5
SSW	4.4	6.2	2.2	.7	.0	.0	13.5	4.5
SW	2.8	1.2	.3	.1	.0	.0	4.3	3.0
WSW	1.9	.5	.2	.0	.0	.0	2.7	2.7
W	1.8	.7	.3	.2	.0	.0	3.0	3.4
WNW	1.6	.5	.3	.1	.0	.0	2.5	3.2
NW	2.0	1.1	1.4	.4	.0	.0	4.9	4.7
NNW	2.4	1.2	.6	.1	.0	.0	4.3	3.3
CALM							3.6	
TOTAL	52.0	31.8	10.2	2.4	.0	.0	100.0	3.4

TOTAL NUMBER OF OBSERVATIONS 2159
POSSIBLE NUMBER OF OBSERVATIONS 2160
DATA RECOVERY 100.0%

EnergySolutions - Clive, Utah

DELTA T STABILITIES April - June 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY A

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	4.8	.0	.0	.0	.0	.0	4.8	2.0
NNE	3.4	.0	.0	.0	.0	.0	3.4	2.3
NE	2.1	.0	.0	.0	.0	.0	2.1	2.1
ENE	2.1	.0	.0	.0	.0	.0	2.1	1.6
E	1.4	.0	.0	.0	.0	.0	1.4	1.6
ESE	.7	.0	.0	.0	.0	.0	.7	1.5
SE	1.4	.0	.0	.0	.0	.0	1.4	2.2
SSE	1.4	.0	.0	.0	.0	.0	1.4	2.1
S	3.4	.0	.0	.0	.0	.0	3.4	2.1
SSW	9.0	.0	.0	.0	.0	.0	9.0	1.9
SW	13.1	.0	.0	.0	.0	.0	13.1	2.0
WSW	15.9	.0	.0	.0	.0	.0	15.9	1.8
W	13.8	.0	.0	.0	.0	.0	13.8	1.8
WNW	13.1	.0	.0	.0	.0	.0	13.1	1.9
NW	9.7	.0	.0	.0	.0	.0	9.7	1.8
NNW	4.1	.0	.0	.0	.0	.0	4.1	1.8
CALM							.7	
TOTAL	99.3	.0	.0	.0	.0	.0	100.0	1.9

TOTAL NUMBER OF CASES OF THIS STABILITY 145
TOTAL NUMBER OF OBSERVATIONS 2178
PERCENTAGE OF TOTAL OF THIS STABILITY 6.7%

EnergySolutions - Clive, Utah

DELTA T STABILITIES April - June 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY B

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	4.0	2.3	.0	.0	.0	.0	6.3	2.6
NNE	2.6	3.5	.0	.0	.0	.0	6.1	3.0
NE	3.5	2.6	.0	.0	.0	.0	6.1	2.8
ENE	3.5	.3	.0	.0	.0	.0	3.7	1.6
E	.6	.6	.0	.0	.0	.0	1.2	2.2
ESE	1.4	.3	.0	.0	.0	.0	1.7	2.5
SE	.6	.3	.0	.0	.0	.0	.9	2.5
SSE	2.6	.0	.0	.0	.0	.0	2.6	1.8
S	4.9	2.9	.0	.0	.0	.0	7.8	2.5
SSW	5.2	10.1	.0	.0	.0	.0	15.3	3.4
SW	3.7	4.6	.0	.0	.0	.0	8.4	2.8
WSW	5.5	2.0	.0	.0	.0	.0	7.5	2.4
W	4.3	3.7	.0	.0	.0	.0	8.1	2.8
WNW	3.7	3.5	.0	.0	.0	.0	7.2	2.6
NW	4.0	4.9	.0	.0	.0	.0	8.9	3.0
NNW	4.3	3.2	.0	.0	.0	.0	7.5	2.5
CALM							.9	
TOTAL	54.5	44.7	.0	.0	.0	.0	100.0	2.7

TOTAL NUMBER OF CASES OF THIS STABILITY 347
TOTAL NUMBER OF OBSERVATIONS 2178
PERCENTAGE OF TOTAL OF THIS STABILITY 15.9%

EnergySolutions - Clive, Utah

DELTA T STABILITIES April - June 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY C

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	2.4	4.8	.0	.0	.0	.0	7.3	3.7
NNE	.8	4.0	.0	.0	.0	.0	4.8	3.8
NE	2.4	6.9	.0	.0	.0	.0	9.3	3.8
ENE	2.4	1.2	.0	.0	.0	.0	3.6	2.8
E	1.2	.8	.0	.0	.0	.0	2.0	3.3
ESE	.0	.8	.0	.0	.0	.0	.8	4.0
SE	1.6	1.2	.0	.0	.0	.0	2.8	3.1
SSE	1.2	1.6	.0	.0	.0	.0	2.8	3.2
S	2.0	8.5	.4	.4	.0	.0	11.3	4.2
SSW	4.8	16.5	1.6	.0	.0	.0	23.0	4.2
SW	2.8	4.0	.4	.0	.0	.0	7.3	4.1
WSW	3.2	2.4	.4	.0	.0	.0	6.0	3.6
W	1.6	2.0	.8	.0	.0	.0	4.4	4.2
WNW	1.2	3.2	.0	.0	.0	.0	4.4	3.7
NW	2.0	2.8	.0	.0	.0	.0	4.8	3.4
NNW	2.4	2.8	.0	.0	.0	.0	5.2	3.4
CALM							.0	
TOTAL	32.3	63.7	3.6	.4	.0	.0	100.0	3.8

TOTAL NUMBER OF CASES OF THIS STABILITY 248
TOTAL NUMBER OF OBSERVATIONS 2178
PERCENTAGE OF TOTAL OF THIS STABILITY 11.4%

EnergySolutions - Clive, Utah

DELTA T STABILITIES April - June 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY D

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	1.4	2.2	1.4	.0	.0	.0	5.0	4.5
NNE	1.2	3.8	1.2	.1	.0	.0	6.3	4.4
NE	3.1	9.2	1.3	.0	.0	.0	13.7	4.2
ENE	4.0	12.0	.4	.0	.0	.0	16.4	3.7
E	2.4	5.6	.5	.0	.0	.0	8.4	3.5
ESE	.8	1.4	.2	.0	.0	.0	2.4	3.8
SE	1.2	.7	.6	.0	.0	.0	2.4	4.0
SSE	1.6	1.5	.9	.1	.0	.0	4.1	4.5
S	1.1	7.4	3.5	.7	.0	.0	12.7	5.4
SSW	1.7	2.1	2.1	.5	.0	.0	6.3	5.3
SW	.5	1.2	.8	.1	.0	.0	2.5	5.3
WSW	.1	.7	.8	.3	.0	.0	1.8	6.8
W	1.0	1.2	1.6	.0	.0	.0	3.9	5.1
WNW	.2	1.5	1.0	.2	.0	.0	2.9	5.8
NW	.8	1.5	2.7	.3	.0	.0	5.3	6.2
NNW	.5	2.4	2.1	.2	.0	.0	5.1	5.6
CALM							.8	
TOTAL	21.7	54.2	21.0	2.4	.0	.0	100.0	4.7

TOTAL NUMBER OF CASES OF THIS STABILITY 1062
TOTAL NUMBER OF OBSERVATIONS 2178
PERCENTAGE OF TOTAL OF THIS STABILITY 48.8%

EnergySolutions - Clive, Utah

DELTA T STABILITIES April - June 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY E

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	4.1	.0	.0	.0	.0	.0	4.1	2.0
NNE	10.7	.0	.0	.0	.0	.0	10.7	2.2
NE	11.5	.0	.0	.0	.0	.0	11.5	2.2
ENE	16.4	.0	.0	.0	.0	.0	16.4	2.2
E	7.4	.0	.0	.0	.0	.0	7.4	2.3
ESE	5.7	.0	.0	.0	.0	.0	5.7	2.1
SE	3.3	.0	.0	.0	.0	.0	3.3	2.1
SSE	9.0	.0	.0	.0	.0	.0	9.0	2.2
S	8.2	.0	.0	.0	.0	.0	8.2	2.2
SSW	6.6	.0	.0	.0	.0	.0	6.6	1.9
SW	3.3	.0	.0	.0	.0	.0	3.3	1.9
WSW	1.6	.0	.0	.0	.0	.0	1.6	1.6
W	4.1	.0	.0	.0	.0	.0	4.1	1.7
WNW	1.6	.0	.0	.0	.0	.0	1.6	1.8
NW	1.6	.0	.0	.0	.0	.0	1.6	2.1
NNW	2.5	.0	.0	.0	.0	.0	2.5	2.0
CALM							2.5	
TOTAL	97.5	.0	.0	.0	.0	.0	100.0	2.1

TOTAL NUMBER OF CASES OF THIS STABILITY 122
TOTAL NUMBER OF OBSERVATIONS 2178
PERCENTAGE OF TOTAL OF THIS STABILITY 5.6%

EnergySolutions - Clive, Utah

DELTA T STABILITIES April - June 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY F

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	5.1	.0	.0	.0	.0	.0	5.1	1.2
NNE	7.9	.0	.0	.0	.0	.0	7.9	1.4
NE	13.4	.0	.0	.0	.0	.0	13.4	1.4
ENE	8.7	.0	.0	.0	.0	.0	8.7	1.5
E	9.4	.0	.0	.0	.0	.0	9.4	1.4
ESE	7.5	.0	.0	.0	.0	.0	7.5	1.4
SE	5.9	.0	.0	.0	.0	.0	5.9	1.4
SSE	6.3	.0	.0	.0	.0	.0	6.3	1.2
S	5.5	.0	.0	.0	.0	.0	5.5	1.5
SSW	5.1	.0	.0	.0	.0	.0	5.1	1.1
SW	5.1	.0	.0	.0	.0	.0	5.1	1.4
WSW	2.4	.0	.0	.0	.0	.0	2.4	1.4
W	3.1	.0	.0	.0	.0	.0	3.1	1.3
WNW	2.0	.0	.0	.0	.0	.0	2.0	1.4
NW	.4	.0	.0	.0	.0	.0	.4	1.6
NNW	5.5	.0	.0	.0	.0	.0	5.5	1.4
CALM							6.7	
TOTAL	93.3	.0	.0	.0	.0	.0	100.0	1.4

TOTAL NUMBER OF CASES OF THIS STABILITY 254
TOTAL NUMBER OF OBSERVATIONS 2178
PERCENTAGE OF TOTAL OF THIS STABILITY 11.7%

EnergySolutions - Clive, Utah

DELTA T STABILITIES April - June 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	2.8	2.0	.7	.0	.0	.0	5.4	3.4
NNE	2.8	2.8	.6	.0	.0	.0	6.3	3.4
NE	4.7	5.7	.6	.0	.0	.0	11.0	3.5
ENE	4.9	6.0	.2	.0	.0	.0	11.1	3.2
E	3.0	2.9	.2	.0	.0	.0	6.1	3.0
ESE	1.9	.8	.1	.0	.0	.0	2.8	2.7
SE	1.8	.5	.3	.0	.0	.0	2.6	2.9
SSE	2.7	.9	.5	.0	.0	.0	4.1	3.2
S	2.9	5.1	1.7	.4	.0	.0	10.1	4.4
SSW	3.8	4.5	1.2	.2	.0	.0	9.7	3.9
SW	2.8	1.8	.4	.0	.0	.0	5.1	3.3
WSW	2.7	.9	.4	.1	.0	.0	4.2	3.3
W	2.9	1.4	.9	.0	.0	.0	5.2	3.4
WNW	2.0	1.7	.5	.1	.0	.0	4.3	3.6
NW	2.0	1.8	1.3	.1	.0	.0	5.3	4.4
NNW	2.2	2.0	1.0	.1	.0	.0	5.3	3.9
CALM							1.5	
TOTAL	45.9	40.8	10.7	1.2	.0	.0	100.0	3.6

TOTAL NUMBER OF OBSERVATIONS 2178
POSSIBLE NUMBER OF OBSERVATIONS 2184
DATA RECOVERY 99.7%

EnergySolutions - Clive, Utah

DELTA T STABILITIES July - September 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY A

	WIND SPEED (MPS)							
WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	3.5	.0	.0	.0	.0	.0	3.5	2.2
NNE	2.1	.0	.0	.0	.0	.0	2.1	1.7
NE	.7	.0	.0	.0	.0	.0	.7	1.6
ENE	.7	.0	.0	.0	.0	.0	.7	2.0
E	.7	.0	.0	.0	.0	.0	.7	1.6
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.7	.0	.0	.0	.0	.0	.7	2.1
S	2.1	.0	.0	.0	.0	.0	2.1	1.8
SSW	12.0	.0	.0	.0	.0	.0	12.0	2.1
SW	18.3	.0	.0	.0	.0	.0	18.3	1.8
WSW	19.0	.0	.0	.0	.0	.0	19.0	1.9
W	14.1	.0	.0	.0	.0	.0	14.1	1.9
WNW	13.4	.0	.0	.0	.0	.0	13.4	2.0
NW	7.7	.0	.0	.0	.0	.0	7.7	2.0
NNW	4.9	.0	.0	.0	.0	.0	4.9	1.7
CALM							.0	
TOTAL	100.0	.0	.0	.0	.0	.0	100.0	1.9

TOTAL NUMBER OF CASES OF THIS STABILITY 142
TOTAL NUMBER OF OBSERVATIONS 2208
PERCENTAGE OF TOTAL OF THIS STABILITY 6.4%

EnergySolutions - Clive, Utah

DELTA T STABILITIES July - September 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY B

	WIND SPEED (MPS)							
WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	2.0	2.7	.0	.0	.0	.0	4.6	2.9
NNE	2.2	1.2	.0	.0	.0	.0	3.4	2.5
NE	1.7	.2	.0	.0	.0	.0	2.0	1.8
ENE	1.0	.0	.0	.0	.0	.0	1.0	1.3
E	1.5	.0	.0	.0	.0	.0	1.5	1.4
ESE	.5	.0	.0	.0	.0	.0	.5	1.5
SE	1.5	.0	.0	.0	.0	.0	1.5	1.2
SSE	2.0	.0	.0	.0	.0	.0	2.0	1.2
S	2.7	1.7	.0	.0	.0	.0	4.4	2.6
SSW	5.6	7.6	.0	.0	.0	.0	13.2	3.0
SW	6.8	7.8	.0	.0	.0	.0	14.6	2.9
WSW	5.6	2.7	.0	.0	.0	.0	8.3	2.4
W	5.6	4.6	.0	.0	.0	.0	10.2	2.9
WNW	8.5	5.1	.0	.0	.0	.0	13.7	2.6
NW	3.9	9.0	.0	.0	.0	.0	12.9	3.4
NNW	2.0	3.9	.0	.0	.0	.0	5.9	3.3
CALM							.5	
TOTAL	52.9	46.6	.0	.0	.0	.0	100.0	2.8

TOTAL NUMBER OF CASES OF THIS STABILITY 410
TOTAL NUMBER OF OBSERVATIONS 2208
PERCENTAGE OF TOTAL OF THIS STABILITY 18.6%

EnergySolutions - Clive, Utah

DELTA T STABILITIES July - September 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY C

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	.4	4.5	.0	.0	.0	.0	4.9	4.3
NNE	3.3	1.2	.0	.0	.0	.0	4.5	3.0
NE	1.6	1.6	.0	.0	.0	.0	3.3	3.0
ENE	.8	2.8	.0	.0	.0	.0	3.7	3.3
E	.8	.0	.0	.0	.0	.0	.8	2.6
ESE	.8	.0	.0	.0	.0	.0	.8	2.5
SE	1.2	.4	.0	.0	.0	.0	1.6	2.7
SSE	.4	.0	.0	.0	.0	.0	.4	2.3
S	4.9	7.7	.0	.4	.0	.0	13.0	4.0
SSW	9.3	15.9	.8	.8	.0	.0	26.8	4.0
SW	3.3	3.3	.4	.0	.0	.0	6.9	3.6
WSW	1.6	2.0	.0	.0	.0	.0	3.7	3.4
W	1.6	2.0	.0	.0	.0	.0	3.7	3.3
WNW	3.7	4.9	.0	.0	.0	.0	8.5	3.5
NW	2.4	7.7	.0	.0	.0	.0	10.2	3.8
NNW	2.4	4.9	.0	.0	.0	.0	7.3	3.9
CALM							.0	
TOTAL	38.6	58.9	1.2	1.2	.0	.0	100.0	3.7

TOTAL NUMBER OF CASES OF THIS STABILITY 246
TOTAL NUMBER OF OBSERVATIONS 2208
PERCENTAGE OF TOTAL OF THIS STABILITY 11.1%

EnergySolutions - Clive, Utah

DELTA T STABILITIES July - September 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY D

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	1.9	2.0	1.0	.0	.0	.0	4.9	4.1
NNE	1.5	3.9	1.4	.0	.0	.0	6.8	4.3
NE	3.5	7.9	.5	.0	.0	.0	11.8	3.7
ENE	5.8	14.9	.4	.0	.0	.0	21.0	3.5
E	2.7	6.3	.1	.0	.0	.0	9.1	3.4
ESE	1.4	1.7	.3	.0	.0	.0	3.4	3.2
SE	.8	.9	.1	.0	.0	.0	1.7	3.1
SSE	1.6	1.3	.7	.0	.0	.0	3.6	3.9
S	2.2	9.3	2.7	.7	.0	.0	14.9	5.0
SSW	.9	3.3	2.2	.9	.1	.0	7.4	6.3
SW	.9	1.0	.6	.0	.0	.0	2.5	4.4
WSW	.5	1.1	.4	.2	.0	.0	2.2	5.0
W	.6	.5	.4	.0	.0	.0	1.4	4.5
WNW	.3	.4	.4	.0	.0	.0	1.0	5.0
NW	.9	1.3	1.1	.2	.1	.0	3.7	5.7
NNW	1.0	1.9	1.3	.1	.0	.0	4.4	4.9
CALM							.2	
TOTAL	26.4	57.7	13.5	2.0	.2	.0	100.0	4.3

TOTAL NUMBER OF CASES OF THIS STABILITY 1056
TOTAL NUMBER OF OBSERVATIONS 2208
PERCENTAGE OF TOTAL OF THIS STABILITY 47.8%

EnergySolutions - Clive, Utah

DELTA T STABILITIES July - September 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY E

	WIND SPEED (MPS)							
WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	4.7	.0	.0	.0	.0	.0	4.7	2.2
NNE	5.5	.0	.0	.0	.0	.0	5.5	2.1
NE	17.3	.0	.0	.0	.0	.0	17.3	2.3
ENE	13.4	.0	.0	.0	.0	.0	13.4	2.2
E	5.5	.0	.0	.0	.0	.0	5.5	2.3
ESE	11.8	.0	.0	.0	.0	.0	11.8	2.2
SE	4.7	.0	.0	.0	.0	.0	4.7	2.2
SSE	7.1	.0	.0	.0	.0	.0	7.1	2.2
S	10.2	.0	.0	.0	.0	.0	10.2	2.2
SSW	2.4	.0	.0	.0	.0	.0	2.4	1.9
SW	3.1	.0	.0	.0	.0	.0	3.1	2.2
WSW	1.6	.0	.0	.0	.0	.0	1.6	2.2
W	1.6	.0	.0	.0	.0	.0	1.6	1.6
WNW	2.4	.0	.0	.0	.0	.0	2.4	2.0
NW	4.7	.0	.0	.0	.0	.0	4.7	1.8
NNW	3.9	.0	.0	.0	.0	.0	3.9	1.9
CALM							.0	
TOTAL	100.0	.0	.0	.0	.0	.0	100.0	2.2

TOTAL NUMBER OF CASES OF THIS STABILITY 127
TOTAL NUMBER OF OBSERVATIONS 2208
PERCENTAGE OF TOTAL OF THIS STABILITY 5.8%

EnergySolutions - Clive, Utah

DELTA T STABILITIES July - September 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY F

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	3.5	.0	.0	.0	.0	.0	3.5	1.1
NNE	8.4	.0	.0	.0	.0	.0	8.4	1.4
NE	12.3	.0	.0	.0	.0	.0	12.3	1.5
ENE	12.8	.0	.0	.0	.0	.0	12.8	1.4
E	10.6	.0	.0	.0	.0	.0	10.6	1.3
ESE	7.0	.0	.0	.0	.0	.0	7.0	1.4
SE	9.7	.0	.0	.0	.0	.0	9.7	1.5
SSE	7.5	.0	.0	.0	.0	.0	7.5	1.2
S	10.1	.0	.0	.0	.0	.0	10.1	1.5
SSW	6.2	.0	.0	.0	.0	.0	6.2	1.4
SW	2.6	.0	.0	.0	.0	.0	2.6	1.3
WSW	1.3	.0	.0	.0	.0	.0	1.3	1.2
W	3.1	.0	.0	.0	.0	.0	3.1	1.2
WNW	.4	.0	.0	.0	.0	.0	.4	1.7
NW	1.3	.0	.0	.0	.0	.0	1.3	1.5
NNW	2.6	.0	.0	.0	.0	.0	2.6	1.4
CALM							.4	
TOTAL	99.6	.0	.0	.0	.0	.0	100.0	1.4

TOTAL NUMBER OF CASES OF THIS STABILITY 227
TOTAL NUMBER OF OBSERVATIONS 2208
PERCENTAGE OF TOTAL OF THIS STABILITY 10.3%

EnergySolutions - Clive, Utah

DELTA T STABILITIES July - September 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	2.2	1.9	.5	.0	.0	.0	4.6	3.4
NNE	2.8	2.2	.7	.0	.0	.0	5.7	3.4
NE	4.5	4.0	.2	.0	.0	.0	8.7	3.1
ENE	5.2	7.4	.2	.0	.0	.0	12.8	3.2
E	3.1	3.0	.0	.0	.0	.0	6.2	2.9
ESE	2.3	.8	.1	.0	.0	.0	3.2	2.5
SE	2.0	.5	.0	.0	.0	.0	2.5	2.1
SSE	2.4	.6	.3	.0	.0	.0	3.4	2.8
S	3.8	5.6	1.3	.4	.0	.0	11.1	4.2
SSW	4.1	4.8	1.1	.5	.0	.0	10.5	4.2
SW	3.7	2.3	.3	.0	.0	.0	6.3	3.0
WSW	2.9	1.3	.2	.1	.0	.0	4.4	2.9
W	2.8	1.3	.2	.0	.0	.0	4.3	2.8
WNW	3.2	1.7	.2	.0	.0	.0	5.0	2.9
NW	2.4	3.2	.5	.1	.0	.0	6.2	3.9
NNW	1.9	2.2	.6	.0	.0	.0	4.8	3.8
CALM							.2	
TOTAL	49.2	42.8	6.6	1.1	.1	.0	100.0	3.4

TOTAL NUMBER OF OBSERVATIONS 2208
POSSIBLE NUMBER OF OBSERVATIONS 2208
DATA RECOVERY 100.0%

EnergySolutions - Clive, Utah

DELTA T STABILITIES October - December 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY A

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	.0	.0	.0	.0	.0	.0	.0	.0
NNE	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0
ENE	9.1	.0	.0	.0	.0	.0	9.1	1.6
E	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	.0	.0	.0	.0	.0	.0
SSW	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	.0	.0	.0	.0	.0	.0	.0
WSW	18.2	.0	.0	.0	.0	.0	18.2	1.7
W	27.3	.0	.0	.0	.0	.0	27.3	1.6
WNW	18.2	.0	.0	.0	.0	.0	18.2	1.6
NW	27.3	.0	.0	.0	.0	.0	27.3	1.7
NNW	.0	.0	.0	.0	.0	.0	.0	.0
CALM							.0	
TOTAL	100.0	.0	.0	.0	.0	.0	100.0	1.6

TOTAL NUMBER OF CASES OF THIS STABILITY 11
TOTAL NUMBER OF OBSERVATIONS 2203
PERCENTAGE OF TOTAL OF THIS STABILITY .5%

EnergySolutions - Clive, Utah

DELTA T STABILITIES October - December 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY B

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	6.6	.4	.0	.0	.0	.0	7.0	1.3
NNE	5.9	.0	.0	.0	.0	.0	5.9	1.2
NE	3.7	.0	.0	.0	.0	.0	3.7	1.2
ENE	2.2	.0	.0	.0	.0	.0	2.2	.9
E	3.3	.0	.0	.0	.0	.0	3.3	1.5
ESE	1.1	.0	.0	.0	.0	.0	1.1	1.1
SE	1.5	.0	.0	.0	.0	.0	1.5	1.0
SSE	2.2	.0	.0	.0	.0	.0	2.2	1.2
S	7.0	.0	.0	.0	.0	.0	7.0	1.2
SSW	10.3	.0	.0	.0	.0	.0	10.3	1.4
SW	12.8	.0	.0	.0	.0	.0	12.8	1.2
WSW	12.1	.4	.0	.0	.0	.0	12.5	1.3
W	5.9	.4	.0	.0	.0	.0	6.2	1.7
WNW	8.4	.7	.0	.0	.0	.0	9.2	1.6
NW	5.9	.0	.0	.0	.0	.0	5.9	1.6
NNW	4.8	.4	.0	.0	.0	.0	5.1	1.5
CALM							4.4	
TOTAL	93.4	2.2	.0	.0	.0	.0	100.0	1.4

TOTAL NUMBER OF CASES OF THIS STABILITY 273
TOTAL NUMBER OF OBSERVATIONS 2203
PERCENTAGE OF TOTAL OF THIS STABILITY 12.4%

EnergySolutions - Clive, Utah

DELTA T STABILITIES October - December 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY C

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	2.6	3.7	.0	.0	.0	.0	6.3	3.1
NNE	2.6	2.6	.0	.0	.0	.0	5.3	3.3
NE	1.6	2.6	.0	.0	.0	.0	4.2	3.3
ENE	.5	1.6	.0	.0	.0	.0	2.1	3.9
E	1.1	.0	.0	.0	.0	.0	1.1	2.8
ESE	.5	.0	.0	.0	.0	.0	.5	2.3
SE	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.5	.0	.0	.0	.0	.5	4.0
S	5.3	7.9	.0	.0	.0	.0	13.2	3.2
SSW	15.3	12.7	.0	.0	.0	.0	28.0	3.2
SW	3.7	1.6	.0	.0	.0	.0	5.3	2.7
WSW	1.6	1.6	.0	.0	.0	.0	3.2	3.5
W	4.2	2.1	.0	.0	.0	.0	6.3	2.7
WNW	5.8	.5	.0	.0	.0	.0	6.3	2.6
NW	4.8	3.2	.0	.0	.0	.0	7.9	3.1
NNW	4.2	5.3	.0	.0	.0	.0	9.5	3.2
CALM							.0	
TOTAL	54.0	46.0	.0	.0	.0	.0	100.0	3.1

TOTAL NUMBER OF CASES OF THIS STABILITY 189
TOTAL NUMBER OF OBSERVATIONS 2203
PERCENTAGE OF TOTAL OF THIS STABILITY 8.6%

EnergySolutions - Clive, Utah

DELTA T STABILITIES October - December 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY D

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	2.8	3.2	2.4	1.1	.0	.0	9.5	5.4
NNE	4.6	3.9	.9	.0	.0	.0	9.5	3.4
NE	5.9	5.7	.2	.0	.0	.0	11.8	3.1
ENE	4.9	12.7	.1	.0	.0	.0	17.7	3.3
E	1.5	3.0	.0	.0	.0	.0	4.5	3.0
ESE	.8	.4	.0	.0	.0	.0	1.2	2.0
SE	.8	.1	.0	.0	.0	.0	.9	1.9
SSE	.8	.1	.1	.0	.0	.0	1.1	2.2
S	2.1	6.4	2.6	.9	.0	.0	12.1	5.3
SSW	1.7	4.6	2.0	.5	.0	.0	8.8	4.9
SW	.7	.7	.2	.0	.0	.0	1.7	3.7
WSW	1.1	.2	.1	.0	.0	.0	1.4	2.5
W	1.2	.2	.1	.0	.0	.0	1.5	2.5
WNW	2.1	.8	.1	.0	.0	.0	3.1	2.7
NW	1.4	1.5	1.8	.4	.0	.0	5.1	5.5
NNW	1.7	3.7	2.4	.4	.0	.0	8.1	5.2
CALM							2.1	
TOTAL	34.2	47.3	13.2	3.2	.0	.0	100.0	4.1

TOTAL NUMBER OF CASES OF THIS STABILITY 844
TOTAL NUMBER OF OBSERVATIONS 2203
PERCENTAGE OF TOTAL OF THIS STABILITY 38.3%

EnergySolutions - Clive, Utah

DELTA T STABILITIES October - December 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY E

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	5.2	.0	.0	.0	.0	.0	5.2	1.6
NNE	10.1	.0	.0	.0	.0	.0	10.1	1.9
NE	14.2	.0	.0	.0	.0	.0	14.2	2.1
ENE	12.7	.0	.0	.0	.0	.0	12.7	2.0
E	8.6	.0	.0	.0	.0	.0	8.6	1.8
ESE	3.4	.0	.0	.0	.0	.0	3.4	2.0
SE	2.6	.0	.0	.0	.0	.0	2.6	2.0
SSE	5.6	.0	.0	.0	.0	.0	5.6	1.7
S	6.7	.0	.0	.0	.0	.0	6.7	1.8
SSW	4.9	.0	.0	.0	.0	.0	4.9	1.9
SW	1.5	.0	.0	.0	.0	.0	1.5	1.5
WSW	3.0	.0	.0	.0	.0	.0	3.0	1.5
W	2.6	.0	.0	.0	.0	.0	2.6	1.6
WNW	4.1	.0	.0	.0	.0	.0	4.1	1.7
NW	4.5	.0	.0	.0	.0	.0	4.5	1.7
NNW	4.5	.0	.0	.0	.0	.0	4.5	1.6
CALM							6.0	
TOTAL	94.0	.0	.0	.0	.0	.0	100.0	1.8

TOTAL NUMBER OF CASES OF THIS STABILITY 268
TOTAL NUMBER OF OBSERVATIONS 2203
PERCENTAGE OF TOTAL OF THIS STABILITY 12.2%

EnergySolutions - Clive, Utah

DELTA T STABILITIES October - December 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY F

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	5.7	.0	.0	.0	.0	.0	5.7	1.3
NNE	11.0	.0	.0	.0	.0	.0	11.0	1.3
NE	9.5	.0	.0	.0	.0	.0	9.5	1.4
ENE	12.8	.0	.0	.0	.0	.0	12.8	1.4
E	7.9	.0	.0	.0	.0	.0	7.9	1.2
ESE	7.4	.0	.0	.0	.0	.0	7.4	1.2
SE	5.5	.0	.0	.0	.0	.0	5.5	1.2
SSE	4.7	.0	.0	.0	.0	.0	4.7	1.3
S	8.3	.0	.0	.0	.0	.0	8.3	1.3
SSW	5.0	.0	.0	.0	.0	.0	5.0	1.2
SW	3.7	.0	.0	.0	.0	.0	3.7	1.3
WSW	2.3	.0	.0	.0	.0	.0	2.3	1.2
W	1.6	.0	.0	.0	.0	.0	1.6	1.1
WNW	2.9	.0	.0	.0	.0	.0	2.9	1.3
NW	3.4	.0	.0	.0	.0	.0	3.4	1.2
NNW	3.9	.0	.0	.0	.0	.0	3.9	1.2
CALM							4.4	
TOTAL	95.6	.0	.0	.0	.0	.0	100.0	1.3

TOTAL NUMBER OF CASES OF THIS STABILITY 618
TOTAL NUMBER OF OBSERVATIONS 2203
PERCENTAGE OF TOTAL OF THIS STABILITY 28.1%

EnergySolutions - Clive, Utah

DELTA T STABILITIES October - December 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	4.4	1.6	.9	.4	.0	.0	7.3	3.5
NNE	7.0	1.7	.4	.0	.0	.0	9.1	2.3
NE	7.3	2.4	.1	.0	.0	.0	9.8	2.4
ENE	7.4	5.0	.0	.0	.0	.0	12.4	2.5
E	4.4	1.1	.0	.0	.0	.0	5.5	1.9
ESE	3.0	.1	.0	.0	.0	.0	3.1	1.5
SE	2.4	.0	.0	.0	.0	.0	2.4	1.4
SSE	2.6	.1	.0	.0	.0	.0	2.7	1.6
S	5.3	3.1	1.0	.4	.0	.0	9.8	3.5
SSW	5.2	2.9	.8	.2	.0	.0	9.0	3.2
SW	3.4	.4	.1	.0	.0	.0	3.9	1.8
WSW	3.1	.3	.0	.0	.0	.0	3.4	1.7
W	2.5	.3	.0	.0	.0	.0	2.8	1.9
WNW	3.8	.5	.0	.0	.0	.0	4.3	2.0
NW	3.3	.9	.7	.1	.0	.0	5.0	3.3
NNW	3.2	1.9	.9	.1	.0	.0	6.2	3.5
CALM							3.3	
TOTAL	68.1	22.3	5.0	1.2	.0	.0	100.0	2.6

TOTAL NUMBER OF OBSERVATIONS 2203
POSSIBLE NUMBER OF OBSERVATIONS 2208
DATA RECOVERY 99.8%

Appendix A.5
Annual 2009 Joint Frequency of Occurrence Distributions of Wind Speeds and Direction - Sigma Theta

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES January - December 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY A

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	6.4	.0	.0	.0	.0	.0	6.4	1.6
NNE	5.7	.0	.0	.0	.0	.0	5.7	1.8
NE	4.1	.0	.0	.0	.0	.0	4.1	1.6
ENE	2.9	.0	.0	.0	.0	.0	2.9	1.5
E	2.8	.0	.0	.0	.0	.0	2.8	1.5
ESE	1.5	.0	.0	.0	.0	.0	1.5	1.3
SE	1.9	.0	.0	.0	.0	.0	1.9	1.5
SSE	2.3	.0	.0	.0	.0	.0	2.3	1.5
S	4.2	.0	.0	.0	.0	.0	4.2	1.7
SSW	7.6	.0	.0	.0	.0	.0	7.6	1.8
SW	10.4	.0	.0	.0	.0	.0	10.4	1.7
WSW	11.5	.0	.0	.0	.0	.0	11.5	1.7
W	10.2	.0	.0	.0	.0	.0	10.2	1.9
WNW	11.2	.0	.0	.0	.0	.0	11.2	1.9
NW	8.6	.0	.0	.0	.0	.0	8.6	1.9
NNW	6.7	.0	.0	.0	.0	.0	6.7	1.7
CALM							1.9	
TOTAL	98.1	.0	.0	.0	.0	.0	100.0	1.7

TOTAL NUMBER OF CASES OF THIS STABILITY 1231
TOTAL NUMBER OF OBSERVATIONS 8748
PERCENTAGE OF TOTAL OF THIS STABILITY 14.1%

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES January - December 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY B

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	2.3	4.8	.0	.0	.0	.0	7.1	2.9
NNE	1.8	3.6	.0	.0	.0	.0	5.5	2.8
NE	3.0	1.5	.0	.0	.0	.0	4.5	2.3
ENE	2.2	.8	.0	.0	.0	.0	3.0	2.2
E	1.8	.5	.0	.0	.0	.0	2.3	2.0
ESE	1.2	.2	.0	.0	.0	.0	1.3	1.9
SE	1.7	.2	.0	.0	.0	.0	1.8	1.4
SSE	2.7	.3	.0	.0	.0	.0	3.0	1.7
S	4.1	3.2	.0	.0	.0	.0	7.3	2.5
SSW	5.6	6.6	.0	.0	.0	.0	12.3	2.7
SW	5.8	6.3	.0	.0	.0	.0	12.1	2.6
WSW	2.8	3.5	.0	.0	.0	.0	6.3	2.8
W	2.2	5.3	.0	.0	.0	.0	7.5	2.9
WNW	1.7	6.1	.0	.0	.0	.0	7.8	3.0
NW	1.5	8.3	.0	.0	.0	.0	9.8	3.3
NNW	2.0	5.0	.0	.0	.0	.0	7.0	3.0
CALM							1.5	
TOTAL	42.3	56.2	.0	.0	.0	.0	100.0	2.7

TOTAL NUMBER OF CASES OF THIS STABILITY 603
TOTAL NUMBER OF OBSERVATIONS 8748
PERCENTAGE OF TOTAL OF THIS STABILITY 6.9%

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES January - December 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY C

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	2.4	5.1	.0	.0	.0	.0	7.6	3.6
NNE	3.4	2.2	.0	.0	.0	.0	5.5	2.7
NE	3.2	3.8	.0	.0	.0	.0	7.0	3.1
ENE	3.5	.7	.0	.0	.0	.0	4.2	2.1
E	1.1	.5	.0	.0	.0	.0	1.6	2.8
ESE	1.4	.1	.0	.0	.0	.0	1.5	1.8
SE	.9	.5	.0	.0	.0	.0	1.5	2.9
SSE	1.1	.7	.0	.0	.0	.0	1.8	2.4
S	4.5	6.0	.0	.0	.0	.0	10.4	3.3
SSW	8.5	13.7	.0	.0	.0	.0	22.2	3.6
SW	2.4	6.4	.0	.0	.0	.0	8.8	3.9
WSW	1.9	2.4	.0	.0	.0	.0	4.3	3.4
W	1.5	3.2	.0	.0	.0	.0	4.7	3.8
WNW	1.5	3.8	.0	.0	.0	.0	5.3	3.7
NW	.1	6.6	.0	.0	.0	.0	6.8	4.5
NNW	1.1	5.3	.0	.0	.0	.0	6.4	4.1
CALM							.4	
TOTAL	38.6	61.0	.0	.0	.0	.0	100.0	3.5

TOTAL NUMBER OF CASES OF THIS STABILITY 739
TOTAL NUMBER OF OBSERVATIONS 8748
PERCENTAGE OF TOTAL OF THIS STABILITY 8.4%

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES January - December 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY D

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	1.1	2.5	1.4	.3	.0	.0	5.2	5.0
NNE	2.4	3.5	1.3	.2	.0	.0	7.3	4.3
NE	4.7	6.7	1.1	.0	.0	.0	12.5	3.8
ENE	5.4	7.6	.3	.0	.0	.0	13.4	3.3
E	2.6	2.2	.2	.0	.0	.0	5.0	3.0
ESE	1.1	.6	.1	.0	.0	.0	1.9	3.1
SE	.9	.5	.2	.0	.0	.0	1.7	3.2
SSE	1.0	1.1	.5	.0	.0	.0	2.7	4.2
S	2.6	7.8	4.9	1.0	.0	.0	16.3	5.5
SSW	2.7	6.4	3.3	1.0	.0	.0	13.5	5.3
SW	.7	.9	.7	.1	.0	.0	2.4	4.9
WSW	.6	.8	.6	.2	.0	.0	2.0	5.1
W	.4	.7	.9	.1	.0	.0	2.1	5.7
WNW	.7	.7	.6	.1	.0	.0	2.2	4.9
NW	.4	1.5	2.5	.5	.0	.0	4.9	6.7
NNW	.6	2.3	2.0	.2	.0	.0	5.2	5.7
CALM							1.8	
TOTAL	27.9	45.8	20.7	3.8	.1	.0	100.0	4.6

TOTAL NUMBER OF CASES OF THIS STABILITY 3436
TOTAL NUMBER OF OBSERVATIONS 8748
PERCENTAGE OF TOTAL OF THIS STABILITY 39.3%

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES January - December 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY E

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	3.0	.4	.0	.0	.0	.0	3.4	2.1
NNE	4.9	1.5	.0	.0	.0	.0	6.3	2.2
NE	7.6	4.9	.0	.0	.0	.0	12.5	2.7
ENE	9.1	18.6	.0	.0	.0	.0	27.7	3.2
E	5.3	6.3	.0	.0	.0	.0	11.7	2.8
ESE	3.4	1.1	.0	.0	.0	.0	4.4	2.1
SE	2.1	.1	.0	.0	.0	.0	2.3	1.8
SSE	2.8	.7	.0	.0	.0	.0	3.5	2.1
S	3.9	8.7	.0	.0	.0	.0	12.5	3.4
SSW	2.2	2.8	.0	.0	.0	.0	5.0	3.1
SW	1.2	.6	.0	.0	.0	.0	1.7	2.6
WSW	.7	.0	.0	.0	.0	.0	.7	2.0
W	.6	.1	.0	.0	.0	.0	.7	2.0
WNW	.6	.2	.0	.0	.0	.0	.8	2.5
NW	1.3	.2	.0	.0	.0	.0	1.5	2.3
NNW	1.7	.9	.0	.0	.0	.0	2.5	2.4
CALM							2.5	
TOTAL	50.3	47.2	.0	.0	.0	.0	100.0	2.8

TOTAL NUMBER OF CASES OF THIS STABILITY 1373
TOTAL NUMBER OF OBSERVATIONS 8748
PERCENTAGE OF TOTAL OF THIS STABILITY 15.7%

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES January - December 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY F

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	5.8	.0	.0	.0	.0	.0	5.8	1.5
NNE	8.6	.0	.0	.0	.0	.0	8.6	1.5
NE	9.7	.0	.0	.0	.0	.0	9.7	1.6
ENE	10.4	.0	.0	.0	.0	.0	10.4	1.6
E	7.2	.0	.0	.0	.0	.0	7.2	1.4
ESE	5.9	.0	.0	.0	.0	.0	5.9	1.5
SE	5.6	.0	.0	.0	.0	.0	5.6	1.4
SSE	7.0	.0	.0	.0	.0	.0	7.0	1.5
S	8.1	.0	.0	.0	.0	.0	8.1	1.5
SSW	5.1	.0	.0	.0	.0	.0	5.1	1.5
SW	4.2	.0	.0	.0	.0	.0	4.2	1.5
WSW	2.5	.0	.0	.0	.0	.0	2.5	1.3
W	3.5	.0	.0	.0	.0	.0	3.5	1.4
WNW	3.1	.0	.0	.0	.0	.0	3.1	1.5
NW	4.6	.0	.0	.0	.0	.0	4.6	1.5
NNW	4.8	.0	.0	.0	.0	.0	4.8	1.6
CALM							4.0	
TOTAL	96.0	.0	.0	.0	.0	.0	100.0	1.5

TOTAL NUMBER OF CASES OF THIS STABILITY 1366
TOTAL NUMBER OF OBSERVATIONS 8748
PERCENTAGE OF TOTAL OF THIS STABILITY 15.6%

EnergySolutions - Clive, Utah

SIGMA THETA STABILITIES January - December 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	3.1	1.8	.5	.1	.0	.0	5.5	3.2
NNE	4.2	2.0	.5	.1	.0	.0	6.8	3.0
NE	5.6	3.8	.4	.0	.0	.0	9.9	3.0
ENE	6.0	6.0	.1	.0	.0	.0	12.2	2.9
E	3.6	2.0	.1	.0	.0	.0	5.6	2.5
ESE	2.3	.4	.1	.0	.0	.0	2.8	2.1
SE	2.0	.3	.1	.0	.0	.0	2.4	2.1
SSE	2.5	.6	.2	.0	.0	.0	3.4	2.5
S	4.1	5.2	1.9	.4	.0	.0	11.6	4.2
SSW	4.4	4.6	1.3	.4	.0	.0	10.7	4.0
SW	3.2	1.4	.3	.0	.0	.0	4.9	2.8
WSW	2.7	.7	.2	.1	.0	.0	3.7	2.7
W	2.5	.9	.3	.1	.0	.0	3.8	3.0
WNW	2.7	1.1	.3	.0	.0	.0	4.0	2.9
NW	2.4	1.7	1.0	.2	.0	.0	5.4	4.1
NNW	2.4	1.8	.8	.1	.0	.0	5.1	3.7
CALM							2.1	
TOTAL	53.8	34.4	8.1	1.5	.0	.0	100.0	3.2

TOTAL NUMBER OF OBSERVATIONS 8748
POSSIBLE NUMBER OF OBSERVATIONS 8760
DATA RECOVERY 99.9%

Appendix A.6
Annual 2009 Joint Frequency of Occurrence Distributions of Wind Speeds and Direction - Delta-T

EnergySolutions - Clive, Utah

DELTA T STABILITIES January - December 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY A

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	4.8	.0	.0	.0	.0	.0	4.8	2.0
NNE	2.5	.0	.0	.0	.0	.0	2.5	2.1
NE	1.3	.0	.0	.0	.0	.0	1.3	1.9
ENE	1.6	.0	.0	.0	.0	.0	1.6	1.7
E	1.0	.0	.0	.0	.0	.0	1.0	1.6
ESE	.3	.0	.0	.0	.0	.0	.3	1.5
SE	.6	.0	.0	.0	.0	.0	.6	2.2
SSE	1.0	.0	.0	.0	.0	.0	1.0	2.1
S	2.5	.0	.0	.0	.0	.0	2.5	1.9
SSW	9.9	.0	.0	.0	.0	.0	9.9	2.0
SW	14.6	.0	.0	.0	.0	.0	14.6	1.9
WSW	17.5	.0	.0	.0	.0	.0	17.5	1.8
W	14.6	.0	.0	.0	.0	.0	14.6	1.8
WNW	13.4	.0	.0	.0	.0	.0	13.4	1.9
NW	9.6	.0	.0	.0	.0	.0	9.6	1.8
NNW	4.5	.0	.0	.0	.0	.0	4.5	1.7
CALM							.3	
TOTAL	99.7	.0	.0	.0	.0	.0	100.0	1.9

TOTAL NUMBER OF CASES OF THIS STABILITY 314
TOTAL NUMBER OF OBSERVATIONS 8748
PERCENTAGE OF TOTAL OF THIS STABILITY 3.6%

EnergySolutions - Clive, Utah

DELTA T STABILITIES January - December 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY B

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	4.3	1.7	.0	.0	.0	.0	6.0	2.1
NNE	3.5	1.3	.0	.0	.0	.0	4.9	2.1
NE	3.0	.9	.0	.0	.0	.0	3.9	2.1
ENE	2.8	.1	.0	.0	.0	.0	2.8	1.4
E	1.7	.2	.0	.0	.0	.0	1.8	1.5
ESE	1.3	.1	.0	.0	.0	.0	1.3	1.7
SE	1.0	.1	.0	.0	.0	.0	1.1	1.4
SSE	2.3	.0	.0	.0	.0	.0	2.3	1.4
S	5.0	1.7	.0	.0	.0	.0	6.7	2.1
SSW	7.5	5.4	.0	.0	.0	.0	12.9	2.6
SW	7.8	4.0	.0	.0	.0	.0	11.8	2.3
WSW	7.2	1.5	.0	.0	.0	.0	8.7	1.9
W	5.4	2.8	.0	.0	.0	.0	8.2	2.4
WNW	6.1	3.0	.0	.0	.0	.0	9.1	2.4
NW	4.6	4.4	.0	.0	.0	.0	9.0	2.8
NNW	3.9	2.4	.0	.0	.0	.0	6.3	2.3
CALM							3.2	
TOTAL	67.3	29.6	.0	.0	.0	.0	100.0	2.2

TOTAL NUMBER OF CASES OF THIS STABILITY 1269
TOTAL NUMBER OF OBSERVATIONS 8748
PERCENTAGE OF TOTAL OF THIS STABILITY 14.5%

EnergySolutions - Clive, Utah

DELTA T STABILITIES January - December 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY C

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	1.8	4.0	.0	.0	.0	.0	5.8	3.6
NNE	2.3	2.5	.0	.0	.0	.0	4.8	3.3
NE	2.0	4.0	.0	.0	.0	.0	6.0	3.6
ENE	2.0	2.3	.0	.0	.0	.0	4.3	3.1
E	.9	.3	.0	.0	.0	.0	1.2	3.0
ESE	.3	.2	.0	.0	.0	.0	.6	3.1
SE	.9	.5	.0	.0	.0	.0	1.4	2.9
SSE	.7	.9	.0	.0	.0	.0	1.6	3.1
S	4.6	9.0	.1	.2	.0	.0	14.0	3.7
SSW	9.2	15.8	.7	.2	.0	.0	25.9	3.8
SW	3.5	3.3	.2	.0	.0	.0	7.0	3.5
WSW	1.9	1.8	.1	.0	.0	.0	3.8	3.5
W	2.1	1.8	.2	.0	.0	.0	4.2	3.3
WNW	3.2	2.6	.0	.0	.0	.0	5.8	3.3
NW	2.5	4.3	.0	.0	.0	.0	6.8	3.5
NNW	2.9	4.0	.0	.0	.0	.0	6.9	3.4
CALM							.0	
TOTAL	41.0	57.2	1.4	.5	.0	.0	100.0	3.5

TOTAL NUMBER OF CASES OF THIS STABILITY 884
TOTAL NUMBER OF OBSERVATIONS 8748
PERCENTAGE OF TOTAL OF THIS STABILITY 10.1%

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DELTA T STABILITIES January - December 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY D

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	1.8	2.5	1.2	.2	.0	.0	5.7	4.6
NNE	2.3	3.5	1.1	.1	.0	.0	7.0	4.1
NE	3.7	7.1	1.0	.0	.0	.0	11.8	3.8
ENE	4.6	12.6	.3	.0	.0	.0	17.5	3.5
E	2.3	4.1	.1	.0	.0	.0	6.6	3.3
ESE	.9	.9	.1	.0	.0	.0	1.9	3.2
SE	.9	.5	.2	.0	.0	.0	1.5	3.2
SSE	1.2	1.1	.4	.0	.0	.0	2.8	3.9
S	1.6	8.7	4.2	.8	.0	.0	15.3	5.4
SSW	1.6	4.8	2.7	.8	.0	.0	9.9	5.6
SW	.7	1.1	.5	.1	.0	.0	2.4	4.7
WSW	.5	.7	.4	.1	.0	.0	1.9	4.9
W	.8	.8	.7	.1	.0	.0	2.4	5.0
WNW	.8	.8	.5	.1	.0	.0	2.2	4.6
NW	.9	1.5	2.1	.4	.0	.0	4.9	6.2
NNW	.9	2.3	1.7	.2	.0	.0	5.2	5.3
CALM							1.0	
TOTAL	25.5	53.0	17.4	3.1	.0	.0	100.0	4.5

TOTAL NUMBER OF CASES OF THIS STABILITY 4019
TOTAL NUMBER OF OBSERVATIONS 8748
PERCENTAGE OF TOTAL OF THIS STABILITY 45.9%

EnergySolutions - Clive, Utah

DELTA T STABILITIES January - December 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY E

	WIND SPEED (MPS)							
WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	4.6	.0	.0	.0	.0	.0	4.6	1.8
NNE	8.5	.0	.0	.0	.0	.0	8.5	2.0
NE	16.0	.0	.0	.0	.0	.0	16.0	2.1
ENE	14.4	.0	.0	.0	.0	.0	14.4	2.1
E	7.6	.0	.0	.0	.0	.0	7.6	2.0
ESE	4.9	.0	.0	.0	.0	.0	4.9	2.1
SE	3.3	.0	.0	.0	.0	.0	3.3	2.1
SSE	6.3	.0	.0	.0	.0	.0	6.3	2.0
S	8.1	.0	.0	.0	.0	.0	8.1	2.1
SSW	5.2	.0	.0	.0	.0	.0	5.2	2.0
SW	2.2	.0	.0	.0	.0	.0	2.2	2.0
WSW	2.7	.0	.0	.0	.0	.0	2.7	1.7
W	2.5	.0	.0	.0	.0	.0	2.5	1.5
WNW	3.3	.0	.0	.0	.0	.0	3.3	1.8
NW	3.8	.0	.0	.0	.0	.0	3.8	1.7
NNW	3.6	.0	.0	.0	.0	.0	3.6	1.8
CALM							2.9	
TOTAL	97.1	.0	.0	.0	.0	.0	100.0	2.0

TOTAL NUMBER OF CASES OF THIS STABILITY 693
TOTAL NUMBER OF OBSERVATIONS 8748
PERCENTAGE OF TOTAL OF THIS STABILITY 7.9%

EnergySolutions - Clive, Utah

DELTA T STABILITIES January - December 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY F

WIND SPEED (MPS)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	5.2	.0	.0	.0	.0	.0	5.2	1.3
NNE	9.2	.0	.0	.0	.0	.0	9.2	1.3
NE	11.0	.0	.0	.0	.0	.0	11.0	1.4
ENE	11.9	.0	.0	.0	.0	.0	11.9	1.4
E	8.8	.0	.0	.0	.0	.0	8.8	1.3
ESE	7.0	.0	.0	.0	.0	.0	7.0	1.3
SE	6.2	.0	.0	.0	.0	.0	6.2	1.3
SSE	5.8	.0	.0	.0	.0	.0	5.8	1.3
S	8.2	.0	.0	.0	.0	.0	8.2	1.4
SSW	4.8	.0	.0	.0	.0	.0	4.8	1.2
SW	3.6	.0	.0	.0	.0	.0	3.6	1.3
WSW	1.9	.0	.0	.0	.0	.0	1.9	1.2
W	2.3	.0	.0	.0	.0	.0	2.3	1.1
WNW	2.0	.0	.0	.0	.0	.0	2.0	1.4
NW	2.6	.0	.0	.0	.0	.0	2.6	1.2
NNW	4.0	.0	.0	.0	.0	.0	4.0	1.3
CALM							5.5	
TOTAL	94.5	.0	.0	.0	.0	.0	100.0	1.3

TOTAL NUMBER OF CASES OF THIS STABILITY 1569
TOTAL NUMBER OF OBSERVATIONS 8748
PERCENTAGE OF TOTAL OF THIS STABILITY 17.9%

EnergySolutions - Clive, Utah

DELTA T STABILITIES January - December 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

	WIND SPEED (MPS)							
WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	3.1	1.8	.5	.1	.0	.0	5.5	3.2
NNE	4.2	2.0	.5	.1	.0	.0	6.8	3.0
NE	5.6	3.8	.4	.0	.0	.0	9.9	3.0
ENE	6.0	6.0	.1	.0	.0	.0	12.2	2.9
E	3.6	2.0	.1	.0	.0	.0	5.6	2.5
ESE	2.3	.4	.1	.0	.0	.0	2.8	2.1
SE	2.0	.3	.1	.0	.0	.0	2.4	2.1
SSE	2.5	.6	.2	.0	.0	.0	3.4	2.5
S	4.1	5.2	1.9	.4	.0	.0	11.6	4.2
SSW	4.4	4.6	1.3	.4	.0	.0	10.7	4.0
SW	3.2	1.4	.3	.0	.0	.0	4.9	2.8
WSW	2.7	.7	.2	.1	.0	.0	3.7	2.7
W	2.5	.9	.3	.1	.0	.0	3.8	3.0
WNW	2.7	1.1	.3	.0	.0	.0	4.0	2.9
NW	2.4	1.7	1.0	.2	.0	.0	5.4	4.1
NNW	2.4	1.8	.8	.1	.0	.0	5.1	3.7
CALM							2.1	
TOTAL	53.8	34.4	8.1	1.5	.0	.0	100.0	3.2

TOTAL NUMBER OF OBSERVATIONS 8748
POSSIBLE NUMBER OF OBSERVATIONS 8760
DATA RECOVERY 99.9%

Appendix B
Hourly Sigma Theta, Delta-T and Stability Class
B.1 Sigma Theta
B.2 Delta-T

Appendix B.1
Sigma Theta

EnergySolutions - Clive, Utah

SIGMA THETA in DEG for JANUARY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	9	33	16	22	26	46	31	13	37	18	12	8	6	7	6	10	8	6	5	6	5	6	5	6	14	46	5
02	8	7	8	7	5	5	6	5	7	6	6	6	6	7	6	18	24	11	19	27	12	36	13	11	11	36	5
03	9	7	6	8	12	43	39	35	39	20	33	28	36	16	10	10	7	7	17	13	6	6	5	14	18	43	5
04	14	4	13	10	4	4	7	8	21	9	11	19	17	22	31	11	8	23	11	10	12	6	24	29	14	31	4
05	26	25	22	19	17	6	37	37	12	12	18	18	9	8	8	20	16	9	10	14	13	13	10	42	18	42	6
06	41	21	17	10	10	15	8	47	4	16	8	6	6	10	7	11	6	7	12	13	11	8	9	6	13	47	4
07	8	6	7	11	10	11	7	7	7	8	9	8	9	7	6	7	12	30	9	19	17	29	19	21	12	30	6
08	30	24	20	26	18	24	29	28	17	10	16	9	7	8	18	10	6	29	11	13	17	37	13	13	18	37	6
09	13	9	16	11	14	14	10	13	31	10	13	13	32	15	17	10	6	6	12	8	20	13	18	19	14	32	6
10	15	10	16	10	7	0	3	3	7	11	8	9	7	8	7	8	9	13	6	6	48	42	19	30	13	48	0
11	35	17	10	44	19	24	15	24	24	26	16	40	24	12	10	17	9	4	7	20	21	7	7	8	18	44	4
12	7	7	11	25	26	36	30	27	30	19	12	10	9	17	19	55	21	19	12	47	48	14	25	28	23	55	7
13	15	14	31	18	6	6	6	6	6	6	7	6	6	7	7	6	7	5	7	7	9	7	29	57	12	57	5
14	30	37	30	43	32	17	17	17	19	19	28	17	22	13	19	20	9	10	13	8	11	19	33	14	21	43	8
15	33	43	15	13	10	14	18	16	36	15	10	15	17	32	28	20	14	45	6	9	7	8	20	9	19	45	6
16	42	26	7	5	14	8	8	11	0	9	9	12	22	18	41	22	18	5	19	4	6	12	6	6	14	42	0
17	8	8	20	19	10	25	22	33	8	12	10	22	18	13	16	13	7	7	23	7	6	7	21	18	15	33	6
18	8	16	25	14	10	11	14	14	9	5	13	32	21	23	33	38	14	20	23	16	20	6	28	20	18	38	5
19	27	12	31	23	10	12	13	17	6	9	14	23	29	29	51	22	29	8	9	12	4	6	4	13	17	51	4
20	11	7	6	16	10	14	9	6	1	6	10	18	24	23	22	21	41	9	5	34	8	8	7	21	14	41	1
21	13	8	12	21	11	10	4	4	1	9	9	24	19	30	27	29	14	10	6	20	15	13	12	9	14	30	1
22	9	9	13	14	11	13	20	14	17	5	9	14	13	12	27	12	14	20	17	8	11	30	11	13	14	30	5
23	25	26	7	13	16	9	17	23	16	17	8	14	19	22	10	8	9	8	12	9	7	7	7	21	14	26	7
24	27	9	11	6	8	12	9	18	9	4	10	21	22	21	12	13	17	31	7	6	10	18	13	5	13	31	4
25	17	14	11	7	9	33	38	15	6	8	5	8	10	16	10	15	9	12	19	16	15	16	9	9	14	38	5
26	15	13	14	9	7	7	7	7	7	8	8	15	8	8	16	8	7	7	7	7	12	7	8	9	9	16	7
27	8	9	15	14	5	9	15	26	12	16	24	26	16	18	12	12	10	11	7	7	6	5	6	6	12	26	5
28	7	6	6	6	6	6	6	6	6	6	7	6	6	7	9	7	9	14	12	25	10	16	11	20	9	25	6
29	18	13	47	22	12	31	41	22	28	12	7	6	11	18	14	17	14	7	6	13	5	6	6	7	16	47	5
30	23	6	13	13	4	6	6	11	16	10	11	16	26	21	30	32	26	25	6	7	6	5	5	8	14	32	4
31	9	15	8	19	21	9	7	22	23	19	12	21	23	20	20	21	14	10	14	12	6	8	9	18	15	23	6
MEAN	18	15	16	16	12	15	16	17	15	12	12	16	16	16	18	17	13	14	11	14	13	14	13	16	15		
MAX	42	43	47	44	32	46	41	47	39	26	33	40	36	32	51	55	41	45	23	47	48	42	33	57		57	
MIN	7	4	6	5	4	0	3	3	0	4	5	6	6	7	6	6	6	4	5	4	4	5	4	5			0

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 14.8 DEG

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

Stability based on SIGMA THETA for JANUARY, 2009

HR END / DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01	D	F	E	F	F	F	F	E	F	B	D	D	D	D	D	D	D	D	D	D	D	D	D	D
02	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	C	D	D	D	F	D	F	E	D
03	D	D	D	D	D	F	F	F	F	B	A	A	A	C	D	D	E	E	D	D	E	E	E	D
04	E	E	E	D	E	E	E	D	F	D	D	B	C	B	A	D	D	F	D	D	D	E	F	F
05	F	F	E	F	E	E	F	F	D	D	B	B	D	D	D	B	E	D	D	E	E	E	D	F
06	F	F	E	D	D	E	D	F	E	C	D	D	D	D	D	D	E	D	D	D	D	D	D	D
07	D	D	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	F	D	F	E	F	F	F
08	F	F	F	F	F	F	F	F	E	D	C	D	D	D	B	D	D	D	D	D	E	F	D	D
09	D	D	D	D	D	D	D	D	F	D	C	C	A	C	C	D	E	E	D	D	F	E	F	F
10	E	D	E	D	E	F	F	F	E	D	D	D	D	D	D	D	D	D	E	E	F	F	F	F
11	F	E	D	F	F	F	E	F	F	A	C	A	A	D	D	C	D	E	E	F	F	E	E	D
12	E	E	D	F	F	F	D	D	F	B	D	D	D	C	B	C	D	F	D	F	F	E	F	F
13	D	E	F	D	D	D	D	E	D	D	D	D	D	D	D	D	E	E	E	E	D	E	E	F
14	F	F	F	F	F	E	E	E	F	B	A	C	B	C	B	B	D	D	E	D	D	E	F	E
15	F	F	E	E	D	D	F	E	A	C	D	C	C	A	A	B	E	F	E	D	E	D	F	D
16	F	F	E	E	E	D	D	D	D	D	D	D	B	B	A	B	F	E	F	E	E	D	E	E
17	D	D	E	F	D	F	F	F	D	D	D	B	B	C	C	C	E	E	F	E	E	E	F	F
18	D	E	F	E	D	D	E	E	D	D	C	A	B	A	A	A	E	F	F	E	F	E	F	F
19	F	D	F	F	D	D	E	E	D	D	C	A	A	A	A	B	F	D	D	D	E	E	E	E
20	D	E	E	E	D	E	D	E	D	D	D	B	A	A	B	B	F	D	E	F	D	D	E	F
21	E	D	D	F	D	D	E	E	D	D	D	A	B	A	A	A	E	D	E	F	E	E	D	D
22	D	D	E	E	D	E	F	E	C	D	D	C	C	D	A	D	D	F	E	D	D	F	D	E
23	D	F	E	E	E	D	E	F	C	C	D	C	B	B	D	D	D	D	D	D	E	E	E	D
24	F	D	D	E	D	D	D	E	D	D	D	B	B	B	D	C	E	F	E	E	D	F	E	E
25	D	E	D	E	D	E	F	E	D	D	D	D	D	C	D	C	D	D	D	D	D	E	D	D
26	E	E	D	D	E	E	D	D	D	D	D	C	D	D	C	D	D	D	D	D	D	D	D	D
27	D	D	E	E	E	D	E	F	D	C	A	A	C	B	D	D	D	D	E	E	D	D	D	D
28	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	D	F	D	E	D	E
29	E	D	F	F	D	F	F	F	A	D	D	D	D	B	C	C	D	E	E	D	E	E	E	E
30	F	E	E	E	E	E	E	D	C	D	D	C	A	B	A	A	F	F	E	E	E	E	E	D
31	D	E	D	F	F	D	E	F	A	B	D	B	A	B	B	B	E	D	E	D	E	D	D	F

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

STABILITY CATEGORY	NUMBER OF OCCURRENCES	PERCENT
A	36	4.8
B	39	5.2
C	40	5.4
D	329	44.3
E	170	22.8
F	130	17.5

MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

SIGMA THETA in DEG for FEBRUARY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	20	17	16	11	16	32	14	10	8	28	16	22	27	26	38	20	19	9	13	14	7	6	4	6	17	38	4
02	20	38	15	15	27	6	4	7	6	0	14	25	21	27	21	22	21	16	3	9	6	5	6	6	14	38	0
03	7	6	7	7	5	21	8	29	11	11	12	23	37	50	40	25	29	11	8	6	8	6	7	12	16	50	5
04	15	8	6	5	25	10	43	26	13	11	10	30	36	46	28	41	32	8	25	4	6	6	6	8	19	46	4
05	22	11	15	11	12	16	15	18	18	26	21	22	22	33	34	20	8	18	31	12	20	32	19	22	20	34	8
06	26	31	36	34	38	11	26	18	14	12	13	19	16	19	20	20	17	11	8	13	10	12	5	5	18	38	5
07	6	8	19	62	31	29	12	9	6	8	24	29	18	11	9	8	7	6	10	14	10	16	25	17	16	62	6
08	8	6	15	17	21	26	31	17	12	10	7	9	9	8	8	8	6	7	6	7	6	6	7	7	11	31	6
09	6	6	6	6	6	6	6	6	6	6	13	6	10	26	17	16	12	22	7	23	25	29	10	19	12	29	6
10	8	14	9	6	9	32	31	37	7	11	18	9	10	16	41	27	11	10	8	7	6	6	6	11	15	41	6
11	10	6	9	7	8	7	8	17	24	15	19	41	13	16	14	30	32	28	12	7	9	6	6	11	15	41	6
12	11	8	7	9	9	16	14	8	7	13	9	19	17	28	24	14	15	8	8	8	11	6	5	8	12	28	5
13	12	8	8	19	25	34	11	21	17	12	24	18	30	18	21	27	38	12	23	19	12	23	15	9	19	38	8
14	15	17	13	8	8	7	6	8	9	7	8	6	6	7	6	9	10	9	7	5	7	33	7	6	9	33	5
15	8	16	4	10	10	16	13	16	10	9	13	8	6	7	8	7	30	49	6	7	9	7	6	14	12	49	4
16	25	35	18	26	13	8	22	23	29	0	13	28	50	8	8	7	14	20	12	14	19	6	7	6	17	50	0
17	7	7	7	6	7	8	8	6	6	6	7	13	15	13	13	11	11	10	11	6	8	21	39	10	11	39	6
18	8	8	5	6	6	6	6	5	5	7	10	12	12	29	29	22	16	12	13	7	13	30	28	13	13	30	5
19	8	31	13	10	11	16	13	11	16	8	10	12	15	17	17	19	17	12	18	8	5	5	8	5	13	31	5
20	15	25	13	10	23	7	13	9	14	28	16	24	28	23	30	54	17	11	42	29	15	10	6	6	20	54	6
21	8	24	4	5	10	15	10	14	13	16	26	37	43	32	45	58	40	25	16	8	7	6	5	15	20	58	4
22	15	19	10	9	9	25	10	6	7	10	18	19	38	30	34	29	20	12	14	19	10	8	30	14	17	38	6
23	9	26	31	34	8	32	20	10	13	14	15	19	39	38	8	8	9	16	39	14	30	20	32	7	20	39	7
24	7	6	5	5	6	5	6	6	7	5	7	8	10	19	22	29	21	12	17	5	5	9	6	16	10	29	5
25	15	13	24	10	32	11	23	20	28	16	20	10	13	20	21	10	10	10	9	19	10	10	6	6	15	32	6
26	19	6	23	18	6	19	15	31	6	9	6	8	9	12	11	11	11	10	13	18	10	7	8	8	12	31	6
27	6	8	9	7	8	7	11	10	14	10	20	38	34	46	44	21	13	8	6	7	8	6	6	7	15	46	6
28	12	26	17	7	21	16	8	18	28	43	30	37	42	44	33	15	17	8	14	11	11	6	7	13	20	44	6
MEAN	12	16	13	14	15	16	15	15	13	13	15	20	22	24	23	21	18	14	14	11	11	12	12	10	15		
MAX	26	38	36	62	38	34	43	37	29	43	30	41	50	50	45	58	40	49	42	29	30	33	39	22		62	
MIN	6	6	4	5	5	5	4	5	5	0	6	6	6	7	6	7	6	6	3	4	5	5	4	5			0

POSSIBLE NUMBER OF OBSERVATIONS = 672 ACTUAL NUMBER OF OBSERVATIONS = 672 DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 15.3 DEG

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

Stability based on SIGMA THETA for FEBRUARY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01	F	E	E	D	D	F	E	D	D	A	C	B	A	A	A	B	F	D	E	E	E	E	E	E
02	F	F	E	E	F	E	E	E	D	D	C	A	B	A	B	B	F	E	F	D	E	E	E	E
03	E	E	E	E	E	F	D	F	D	D	D	A	A	A	A	A	F	D	D	E	D	E	E	D
04	E	D	E	E	F	D	F	F	C	D	D	A	A	A	A	A	F	D	F	E	E	E	E	D
05	F	D	E	D	D	E	E	F	B	A	B	B	B	A	A	B	D	E	F	D	F	F	E	F
06	F	F	F	F	F	D	E	F	C	D	C	B	C	B	B	B	E	D	D	D	D	D	E	E
07	E	D	F	F	F	F	D	D	D	D	B	A	B	D	D	D	D	D	D	D	D	E	F	D
08	D	E	E	E	F	F	F	E	D	D	D	D	D	D	D	D	E	D	D	D	D	D	D	D
09	D	D	D	D	D	E	D	D	D	D	C	D	D	A	C	C	D	D	D	F	F	F	D	F
10	D	D	D	D	D	F	F	F	D	D	B	D	D	C	A	A	D	D	D	E	E	E	E	D
11	D	E	D	E	D	E	D	D	A	C	B	A	C	C	C	A	F	F	D	E	D	E	E	D
12	D	D	E	D	D	E	E	D	D	C	D	B	C	A	A	C	D	D	D	D	D	E	E	D
13	D	D	D	F	F	F	D	F	C	D	A	B	A	B	B	A	F	D	F	D	D	F	E	D
14	E	D	E	D	D	E	E	D	D	D	D	D	D	D	D	D	D	D	E	E	E	F	E	E
15	D	E	E	D	D	E	E	E	D	D	C	D	D	D	D	D	B	D	E	D	D	E	E	E
16	F	F	F	F	E	D	F	F	A	D	C	A	A	D	D	D	C	F	D	E	F	E	D	D
17	D	D	E	D	D	D	D	E	D	D	D	C	C	C	C	D	D	D	D	E	D	F	F	D
18	D	D	E	E	E	E	E	E	D	D	D	D	D	A	A	B	C	D	E	E	E	F	F	E
19	D	F	E	D	D	E	E	D	C	D	D	D	C	C	C	B	C	D	F	D	E	E	D	E
20	E	F	E	D	F	E	E	D	C	A	C	A	A	A	A	A	C	D	F	F	E	D	E	E
21	D	F	E	E	D	E	D	D	C	C	A	A	A	A	A	A	A	F	D	D	E	E	E	E
22	E	F	D	D	D	F	D	E	D	D	B	B	A	A	A	A	B	D	E	F	D	D	F	E
23	D	F	F	F	D	F	F	D	C	C	C	B	A	A	D	D	D	E	F	D	F	F	F	E
24	E	D	D	D	D	D	D	E	D	D	D	D	D	B	B	A	B	D	D	E	E	D	E	D
25	E	E	F	D	F	D	F	F	A	C	C	D	C	B	B	D	D	D	D	F	D	D	E	E
26	F	E	F	F	E	F	D	F	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
27	D	D	D	E	D	E	D	D	C	D	B	A	A	A	A	B	C	D	E	E	D	E	E	E
28	D	F	E	E	F	E	D	F	A	A	A	A	A	A	A	C	C	D	D	D	D	E	E	E

POSSIBLE NUMBER OF OBSERVATIONS = 672 ACTUAL NUMBER OF OBSERVATIONS = 672 DATA RECOVERY RATE = 100 %

STABILITY CATEGORY	NUMBER OF OCCURRENCES	PERCENT
A	68	10.1
B	36	5.4
C	46	6.8
D	272	40.5
E	151	22.5
F	99	14.7

MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

SIGMA THETA in DEG for MARCH, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	16	5	11	22	20	31	27	47	32	21	27	29	36	30	33	27	8	9	10	10	6	9	37	28	22	47	5
02	25	18	11	32	20	25	28	15	15	15	30	14	26	20	17	11	21	47	9	18	6	6	7	6	18	47	6
03	7	7	6	6	6	7	9	6	6	7	8	8	9	9	9	9	8	6	7	8	6	6	6	6	7	9	6
04	5	6	7	5	7	6	7	5	14	7	8	8	11	9	11	9	9	19	26	35	26	36	8	9	12	36	5
05	9	9	6	6	7	6	7	6	7	7	9	16	17	15	13	11	12	8	5	4	10	5	13	10	9	17	4
06	7	7	5	5	19	7	6	5	18	12	12	20	16	16	14	9	24	7	19	8	9	12	10	10	12	24	5
07	12	10	10	17	24	26	20	8	13	22	13	16	27	30	46	37	35	15	7	8	10	20	22	20	20	46	7
08	14	7	7	9	7	6	10	6	7	6	7	8	8	10	10	12	14	11	13	19	20	6	8	14	10	20	6
09	25	15	7	7	8	7	6	6	7	7	15	6	22	18	18	21	16	28	32	33	10	7	15	11	14	33	6
10	12	22	28	6	6	7	6	7	6	7	9	16	20	29	18	30	18	12	9	32	17	22	19	5	15	32	5
11	6	20	27	15	7	5	10	8	20	33	30	53	61	51	48	22	15	6	8	9	8	9	5	6	20	61	5
12	13	8	8	6	7	7	7	8	8	8	9	10	15	23	15	16	10	7	7	7	9	11	7	7	10	23	6
13	12	16	15	8	15	32	37	36	12	25		32	54	54	38	31	31	16	9	5	6	5	7	8	22	54	5
14	12	15	29	13	18	14	13	7	13	12	28	29	30	24	23	10	10	8	20	16	20	8	24	49	19	49	7
15	13	23	40	17	9	25	20	30	8	14	15	26	21	13	15	14	20	13	14	9	11	5	11	9	16	40	5
16	8	5	5	6	7	8	10	8	6	6	6	6	7	8	9	10	10	10	12	11	22	13	13	14	9	22	5
17	9	10	7	6	7	12	15	19	56	48	11	16	26	38	38	47	63	27	25	7	10	13	13	10	22	63	6
18	6	6	7	8	12	7	7	15	28	18	39	37	38	40	41	27	25	19	18	13	8	13	7	9	19	41	6
19	17	15	6	7	20	20	9	23	14	27	17	15	12	17	15	16	13	13	12	9	6	8	25	18	15	27	6
20	15	20	23	14	18	17	11	26	22	12	10	19	24	27	26	42	28	37	30	7	6	6	10	15	19	42	6
21	24	12	17	12	6	31	28	16	35	8	7	7	10	13	11	12	8	7	7	6	5	6	13	13	13	35	5
22	14	16	14	19	25	22	35	8	6	6	8	19	6	7	13	7	28	11	7	6	7	7	9	8	13	35	6
23	9	7	7	7	7	7	7	9	6	7	8	7	10	16	13	12	10	9	7	6	7	6	6	13	8	16	6
24	18	16	12	8	11	25	18	9	13	9	28	22	23	35	39	22	30	17	13	8	14	10	13	7	18	39	7
25	9	13	11	54	13	7	6	8	14	8	16	34	30	55	45	18	18	10	10	9	9	18	13	7	18	55	6
26	8	7	7	9	8	13	7	7	13	12	7	11	14	9	9	7	8	8	7	7	7	10	12	15	9	15	7
27	24	8	8	9	37	7	32	12	13	18	17	36	41	39	23	61	74	38	31	10	8	16	25	21	25	74	7
28	8	45	26	43	25	23	24	28	14	5	6	8	10	17	18	25	15	15	9	7	6	5	6	6	16	45	5
29	6	6	6	7	6	6	8	16	11	8	42	9	13	11	11	11	12	12	14	15	19	16	17	33	13	42	6
30	6	7	7	6	7	6	6	7	8	9	10	13	28	39	26	19	22	51	27	9	9	12	6	7	14	51	6
31	7	8	9	5	6	5	8	7	5	6	6	8	10	18	18	17	14	18	11	7	10	7	22	12	10	22	5
MEAN	12	13	13	13	13	14	14	13	15	13	15	18	22	24	22	20	20	17	14	12	11	11	13	13	15		
MAX	25	45	40	54	37	32	37	47	56	48	42	53	61	55	48	61	74	51	32	35	26	36	37	49		74	
MIN	5	5	5	5	6	5	6	5	5	5	6	6	6	7	9	7	8	6	5	4	5	5	5	5			4

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 743 DATA RECOVERY RATE = 99.9 %

MONTHLY MEAN = 15.1 DEG

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

Stability based on SIGMA THETA for MARCH, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01	E	E	D	F	F	F	F	F	A	B	A	A	A	A	A	A	D	D	D	D	E	D	F	F
02	F	F	D	F	F	F	F	E	C	C	A	C	A	B	C	D	B	F	D	D	D	D	D	D
03	D	D	D	D	D	D	D	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
04	D	D	D	D	E	E	D	D	C	D	D	D	D	D	D	D	D	D	D	D	E	E	D	D
05	D	D	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	D	E	E	D
06	E	E	E	E	F	E	E	E	B	D	D	B	C	C	C	D	D	D	D	D	D	D	D	D
07	D	D	D	D	E	F	F	D	C	B	C	C	A	B	A	A	A	D	E	D	D	E	F	F
08	D	E	E	D	E	E	D	E	D	D	D	D	D	D	D	D	C	D	E	D	D	D	D	D
09	D	D	D	D	D	D	D	D	D	D	C	D	B	B	B	B	C	F	F	D	D	E	E	D
10	D	F	F	E	E	E	D	D	D	D	D	C	B	B	B	B	B	D	D	F	E	F	E	E
11	E	F	F	E	E	E	D	D	B	A	A	A	A	A	A	B	C	E	D	D	D	D	E	E
12	D	D	D	E	D	E	E	D	D	D	D	D	C	B	C	C	D	D	D	E	D	D	E	E
13	D	D	D	D	D	F	F	A	D	A		A	A	A	A	B	B	D	D	E	E	E	E	D
14	D	E	F	E	F	E	E	D	C	D	A	A	A	A	A	D	D	D	D	D	D	D	E	F
15	E	F	F	E	D	E	D	A	D	C	C	B	C	D	D	D	C	D	D	D	D	E	D	D
16	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	F	D	D	D
17	D	D	E	D	E	D	E	B	A	A	D	C	B	B	A	A	A	F	F	E	D	D	D	D
18	D	D	D	D	D	E	E	C	A	B	A	A	A	A	A	B	B	E	E	D	D	D	E	D
19	D	D	E	E	F	F	D	A	C	A	C	C	D	C	C	C	C	D	D	D	E	D	E	D
20	D	E	F	D	F	E	D	A	B	D	D	B	A	A	A	A	A	F	F	E	E	E	D	D
21	F	D	E	D	D	D	F	C	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
22	D	D	D	D	F	F	F	D	D	D	D	D	D	D	C	D	C	D	D	E	E	E	D	D
23	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
24	E	E	D	D	D	F	F	D	C	D	A	C	B	A	A	B	B	D	D	D	D	D	D	E
25	D	D	D	E	D	E	E	D	C	D	C	A	A	A	A	C	D	D	D	D	D	D	D	D
26	D	D	D	D	D	D	D	D	C	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
27	F	D	D	D	F	E	F	D	C	B	C	A	A	A	B	A	A	F	F	D	D	E	F	F
28	D	F	F	F	F	F	F	A	C	D	D	D	D	C	C	B	C	D	D	D	E	E	D	D
29	D	D	D	D	D	D	D	D	D	D	A	D	D	D	D	D	D	D	D	D	D	D	D	D
30	D	D	D	D	D	D	D	D	D	D	D	D	B	B	B	C	C	F	E	D	D	D	E	E
31	E	D	D	D	D	E	D	D	D	D	D	D	D	C	C	C	C	D	D	D	D	E	D	D

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 743 DATA RECOVERY RATE = 99.9 %

STABILITY CATEGORY	NUMBER OF OCCURRENCES	PERCENT
A	65	8.7
B	39	5.2
C	54	7.3
D	418	56.3
E	103	13.9
F	64	8.6

MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

SIGMA THETA in DEG for APRIL, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	11	8	8	7	7	7	7	9	7	8	14	24	52	24	43	24	17	23	20	13	16	5	6	6	15	52	5
02	6	6	6	6	6	6	6	6	6	6	7	7	7	8	9	10	16	13	11	7	21	34	9	16	10	34	6
03	31	26	12	10	7	10	9	8	7	8	8	9	12	13	16	19	20	9	15	8	13	6	6	6	12	31	6
04	24	21	13	7	16	15	9	11	16	11	9	12	15	14	13	11	11	13	15	7	15	13	4	10	13	24	4
05	7	15	30	15	12	9	5	16	15	17	26	27	25	41	42	38	58	43	23	8	6	6	11	5	21	58	5
06	6	5	12	15	19	18	8	15	23	33	50	35	37	54	61	34	33	24	14	8	21	4	5	6	23	61	4
07	10	21	20	30	19	25	17	14	19	14	15	16	25	19	22	18	16	10	7	7	8	6	15	17	16	30	6
08	5	6	5	6	6	7	10	7	6	8	8	13	10	12	11	8	10	9	20	13	41	48	26	12	13	48	5
09	6	11	8	6	7	6	6	6	7	14	34	22	35	43	28	49	27	43	12	8	8	18	16	6	18	49	6
10	6	6	6	11	35	34	7	7	8	16	13	14	28	47	31	25	34	13	13	37	17	19	11	6	19	47	6
11	21	9	19	11	33	25	9	16	15	17	14	22	27	11	18	10	9	15	12	10	10	10	13	13	15	33	9
12	25	28	30	35	16	38	16	9	10	40	55	33	52	50	43	42	32	18	20	25	5	4	15	12	27	55	4
13	17	12	5	11	26	35	23	18	24	10	9	10	10	17	27	22	26	30	13	8	6	9	20	15	17	35	5
14	9	10	12	10	14	15	13	13	24	16	10	15	16	13	11	8	8	10	22	11	7	12	20	40	14	40	7
15	19	23	21	8	10	10	9	7	8	7	8	10	12	11	14	19	13	36	13	10	29	30	4	11	14	36	4
16	22	6	7	0	0	0	0	0	9	10	17	13	18	8	8	7	6	8	13	13	6	16	11	5	8	22	0
17	14	15	19	15	7	5	11	12	20	11	17	27	26	22	14	14	12	11	10	6	12	5	9	42	15	42	5
18	32	5	24	22	2	21	28	13	16	31	25	39	17	17	21	41	35	26	19	11	7	18	8	35	21	41	2
19	37	15	24	7	18	8	9	11	7	8	11	15	22	27	45	27	33	31	17	6	7	6	7	7	17	45	6
20	8	6	31	18	9	14	14	32						35	32	48	28	23	26	7	21	6	5	8	20	48	5
21	2	21	20	35	8	12	9	25	9	10	15	18	26	27	31	36	29	40	31	5	7	13	28	7	19	40	2
22	12	2	29	42	7	14	18	10	20	19	9	11	13	16	25	23	40	13	18	13	5	6	6	5	16	42	2
23	7	6	6	23	10	5	6	7	7	10	8	12	12	17	15	24	12	16	13	19	9	10	21	13	12	24	5
24	18	43	9	7	9	7	8	7	7	10	10	18	22	15	16	16	13	16	27	13	10	8	9	12	14	43	7
25	13	24	15	6	8	24	12	13	14	9	10	10	12	20	11	25	40	21	9	7	38	14	6	6	15	40	6
26	7	6	7	35	18	13	9	26	11	10	26	43	44	21	14	13	14	12	14	9	18	19	18	25	18	44	6
27	46	19	15	20	30	8	31	18	14	11	10	13	14	12	12	14	11	11	9	10	22	29	33	23	18	46	8
28	7	6	6	6	6	12	12	49	16	23	41	55	32	29	32	17	35	12	16	10	10	12	12	17	20	55	6
29	10	23	38	20	4	20	22	26	12	24	27	30	53	52	51	46	39	41	41	14	14	17	5	10	27	53	4
30	11	8	6	8	8	13	21	12	22	24	23	40	28	44	48	26	24	39	30	17	13	9	8	7	20	48	6
MEAN	15	14	15	15	13	15	12	14	13	15	18	21	24	25	25	24	23	21	17	11	14	14	12	13	17		
MAX	46	43	38	42	35	38	31	49	24	40	55	55	53	54	61	49	58	43	41	37	41	48	33	42		61	
MIN	2	2	5	0	0	0	0	0	6	6	7	7	7	8	8	7	6	8	7	5	5	4	4	5			0

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 715 DATA RECOVERY RATE = 99.3 %

MONTHLY MEAN = 16.9 DEG

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

Stability based on SIGMA THETA for APRIL, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01	D	D	D	D	D	D	D	D	D	D	D	C	B	B	A	C	C	E	D	E	E	E	E	E
02	E	E	D	D	D	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	F	D	D
03	F	F	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
04	F	E	D	D	D	D	D	D	C	D	D	D	D	D	D	D	D	D	D	D	D	E	E	D
05	E	E	F	E	D	D	E	C	C	C	A	B	A	A	A	B	A	F	D	D	E	E	D	E
06	E	E	D	E	F	F	D	C	A	A	A	A	A	A	A	A	A	E	D	D	F	E	E	E
07	D	F	F	F	F	F	E	C	B	C	C	C	A	B	C	C	C	D	E	E	D	D	D	D
08	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	F	F	F	D
09	E	D	D	E	D	D	E	D	D	C	A	B	B	A	A	A	A	F	D	D	D	D	D	E
10	E	E	E	D	F	F	E	D	D	C	C	C	A	A	A	A	B	C	D	F	D	D	D	E
11	F	D	D	D	E	F	D	C	C	C	C	B	B	D	C	D	D	D	D	D	D	D	D	D
12	F	F	F	F	D	F	E	D	D	A	A	A	A	A	A	A	B	B	D	E	E	E	E	D
13	E	D	E	D	F	F	F	B	A	D	D	D	D	D	C	C	C	C	D	D	E	D	D	E
14	D	D	D	D	D	D	D	C	B	C	D	C	C	C	D	D	D	D	F	D	D	D	D	F
15	E	F	D	D	D	D	D	D	D	D	D	D	D	D	C	B	C	B	D	D	F	F	E	D
16	E	E	E	F	F	F	D	D	D	D	C	C	B	D	D	D	D	D	E	E	E	E	D	E
17	E	E	F	E	E	E	D	D	B	D	C	A	A	C	C	C	D	D	D	E	D	E	D	F
18	F	E	F	F	F	F	A	C	C	A	A	A	C	C	B	A	A	A	F	D	E	F	D	F
19	F	E	F	E	F	D	D	D	D	D	D	C	B	A	A	A	A	A	E	E	E	E	E	E
20	D	E	F	F	D	E	C	A						A	A	A	A	A	F	E	F	E	E	D
21	E	E	F	F	D	D	D	A	D	D	C	B	A	A	A	A	A	A	F	E	E	E	F	E
22	D	F	F	F	E	E	B	D	B	B	D	D	C	C	B	B	B	D	F	E	E	E	E	E
23	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	F	E
24	D	D	D	D	D	D	D	D	D	D	D	C	B	C	C	C	D	C	E	D	D	D	D	D
25	E	F	D	D	D	D	D	C	C	D	D	D	D	C	D	A	A	B	D	E	F	E	E	E
26	E	D	D	E	D	D	D	A	D	D	B	A	B	C	D	D	D	D	D	D	F	F	F	F
27	F	F	E	F	F	D	A	B	C	D	D	C	D	D	D	D	D	D	D	D	F	D	F	F
28	E	D	D	D	D	D	D	A	C	A	A	A	A	B	B	C	B	D	D	D	D	D	D	D
29	D	F	F	F	E	F	B	A	D	A	A	A	A	A	A	A	A	A	F	D	D	D	E	D
30	D	D	D	D	D	D	B	D	B	A	A	A	A	A	A	A	B	A	F	D	E	D	D	D

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 715 DATA RECOVERY RATE = 99.3 %

STABILITY CATEGORY	NUMBER OF OCCURRENCES	PERCENT
A	88	12.3
B	40	5.6
C	64	9.0
D	325	45.5
E	114	15.9
F	84	11.7

MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

SIGMA THETA in DEG for MAY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	8	8	9	12	11	7	7	8	14	13	24	44	37	54	29	30	11	10	11	35	24	15	6	17	19	54	6
02	8	8	20	7	11	16	11	12	11	14	17	30	55	41	15	22	18	16	38	9	16	40	12	15	19	55	7
03	6	12	11	6	7	13	34	20	10	10	24	22	21	12	23	17	15	11	9	28	14	11	24	12	16	34	6
04	14	7	12	10	6	4	7	14	14	24	39	57	42	24	25	35	43	25	23	13	14	19	15	12	21	57	4
05	21	37	16	16	18	10	27	22	7	13	18	18	19	17	16	12	15	12	13	11	7	8	9	10	16	37	7
06	51	35	49	30	11	33	20	0	29	15	14	11	20	17	13	14	14	13	19	15	9	12	23	8	20	51	0
07	7	6	8	7	13	10	10	7	9	14	28	39	33	23	24	26	24	27	19	21	8	6	6	8	16	39	6
08	12	8	9	11	9	17	12	15	14	18	25	39	39	53	24	36	37	26	27	10	8	7	12	14	20	53	7
09	5	5	7	8	8	11	10	7	34	26	52	36	43	63	48	36	24	16	10	8	7	11	8	10	21	63	5
10	12	9	8	14	16	10	12	8	9	11	17	35	49	42	30	27	35	46	26	9	8	6	6	11	19	49	6
11	6	12	9	5	15	20	5	9	20	19	35	23	26	28	34	29	44	20	14	2	7	1	6	13	17	44	1
12	12	7	10	23	24	36	5	14	15	14	15	14	19	17	18	16	16	14	12	9	9	11	16	19	15	36	5
13	11	14	10	15	8	9	15	7	12	24	31	31	31	36	43	31	17	16	21	32	6	5	6	8	18	43	5
14	9	6	8	17	31	36	9	13	8	13	23	24	24	21	33	28	26	21	14	17	10	9	10	7	17	36	6
15	9	10	9	6	11	13	18	16	25	13	25	24	33	32	26	20	25	28	43	20	8	8	19	10	19	43	6
16	41	13	46	7	23	15	8	10	11	36	34	39	47	43	29	47	35	33	29	14	8	9	11	14	25	47	7
17	14	4	4	18	6	23	12	10	17	19	18	31	32	46	52	41	30	38	45	22	7	4	15	10	22	52	4
18	5	4	9	10	18	23	11	11	12	17		0	34	20	28	37	53	49	37	21	15	27	49	8	22	53	0
19	12	32	35	46	33	30	10	9	6	9	17	11	20	20	20	65	54	11	10	24	46	16	7	10	23	65	6
20	43	14	7	8	6	8	14	11	40	21	28	23	26	26	25	30	37	26	33	10	6	7	7	10	19	43	6
21	12	8	9	9	6	6	6	7	33	37	43	53	57	39	42	35	39	26	16	8	7	8	12	7	22	57	6
22	19	6	25	7	7	9	13	52	23	42	46	45	55	37	70	47	21	13	15	14	14	34	26	27	28	70	6
23	25	13	6	7	6	22	24	22	17	30	51	53	49	35	48	37	36	31	47	10	9	9	10	35	26	53	6
24	25	26	13	19	9	9	9	8	7	7	7	8	17	42	46	36	42	16	10	14	9	7	7	25	17	46	7
25	13	10	14	11	12	36	14	17	46	47	44	61	52	54	45	39	23	18	9	8	8	8	7	10	25	61	7
26	34	9	16	8	47	17	35	19	22	45	58	51	59	28	36	37	23	12	10	9	7	8	16	16	26	59	7
27	12	28	17	19	14	25	36	37	28	28	52	42	48	51	29	37	40	28	32	12	7	4	7	8	27	52	4
28	11	5	13	21	68	26	42	25	28	31	55	40	55	67	42	35	62	29	14	9	9	16	7	14	30	68	5
29	33	37	18	20	10	17	15	20	17	14	28	40	52	46	61	47	31	14	16	9	9	7	8	9	24	61	7
30	12	24	35	50	45	21	24	37	46	14	13	17	34	41	47	11	17	38	41	12	6	12	11	9	26	50	6
31	41	42	29	18	10	18	16	7	7	21	43	61	55	38	48	49	31	20	17	9	24	20	11	8	27	61	7
MEAN	18	15	16	15	17	18	16	15	19	21	31	33	38	36	34	33	30	23	22	14	11	12	13	13	21		
MAX	51	42	49	50	68	36	42	52	46	47	58	61	59	67	70	65	62	49	47	35	46	40	49	35		70	
MIN	5	4	4	5	6	4	5	0	6	7	7	0	17	12	13	11	11	10	9	2	6	1	6	7			0

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 743 DATA RECOVERY RATE = 99.9 %

MONTHLY MEAN = 21.3 DEG

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

Stability based on SIGMA THETA for MAY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01	D	D	D	D	D	D	D	D	C	C	B	A	A	A	A	B	D	D	D	F	F	D	E	D
02	D	D	F	E	D	D	D	D	D	C	C	A	A	A	C	B	B	C	F	D	E	F	D	D
03	E	D	D	E	E	E	A	B	D	D	A	B	B	D	B	C	C	D	D	D	D	D	F	D
04	D	E	D	D	E	E	D	C	C	A	A	A	A	B	A	A	A	A	F	E	E	E	D	D
05	E	F	E	E	E	D	A	B	D	C	B	C	C	D	D	D	D	D	D	D	E	D	D	D
06	F	F	F	F	D	F	B	D	A	C	C	D	C	D	D	D	D	D	D	D	D	D	D	D
07	E	E	D	E	D	D	D	D	D	C	B	A	A	C	C	B	B	B	D	D	D	E	E	D
08	D	D	D	D	D	D	D	C	C	C	A	A	B	A	B	A	A	A	F	D	D	E	D	D
09	E	E	E	D	D	D	D	D	A	A	A	A	A	A	A	B	C	D	D	D	D	D	D	D
10	D	D	D	E	E	D	D	D	D	D	C	A	A	A	B	A	A	A	F	D	D	E	E	D
11	E	D	D	E	D	F	D	D	B	B	A	A	B	A	A	A	A	B	E	F	E	F	E	D
12	D	E	D	D	F	F	D	C	C	C	D	D	C	C	D	D	D	D	D	D	D	D	D	D
13	D	D	D	D	D	D	C	D	D	B	A	A	A	A	A	B	C	C	F	F	E	E	E	D
14	D	E	D	E	F	F	D	C	D	C	A	A	A	B	A	B	A	C	D	D	D	D	D	D
15	D	D	D	E	D	D	B	C	A	C	C	B	B	C	B	B	B	A	F	F	D	D	D	D
16	F	D	F	E	F	E	D	D	D	A	A	A	A	A	B	A	A	A	F	D	D	D	D	D
17	D	E	E	D	E	F	D	D	C	B	B	A	A	A	A	A	A	A	F	F	E	E	D	D
18	E	E	D	D	F	F	D	D	D	C		D	A	B	B	A	A	A	F	E	D	F	F	D
19	D	F	F	F	F	F	D	D	D	D	C	D	D	B	C	A	C	D	D	F	F	D	D	D
20	F	D	D	D	E	D	C	D	B	B	B	C	C	C	C	B	B	B	E	D	D	D	D	D
21	D	D	D	D	E	E	D	D	A	A	A	A	A	B	B	B	C	C	D	D	E	D	D	E
22	E	E	F	E	E	D	C	A	A	A	A	A	A	A	A	A	C	C	D	D	D	F	F	F
23	F	D	D	D	D	D	A	B	C	A	A	A	A	A	A	B	B	A	D	D	D	D	D	F
24	F	F	D	F	D	D	D	D	D	D	D	D	C	A	A	B	A	D	D	D	D	D	E	F
25	D	D	E	D	D	F	C	C	A	A	A	A	A	A	A	B	C	D	D	D	D	D	E	D
26	F	D	E	D	F	E	A	B	B	A	A	A	A	B	B	B	C	D	D	D	E	D	E	E
27	D	F	E	F	D	F	A	A	A	A	A	A	A	B	B	B	A	B	E	D	E	E	E	D
28	D	E	D	E	F	F	A	A	A	A	A	B	B	A	A	B	B	B	D	D	D	E	E	D
29	F	F	F	F	D	E	C	B	C	C	A	A	A	A	A	B	C	D	D	D	D	E	D	D
30	D	F	F	F	F	F	A	A	A	C	C	C	B	B	B	D	C	A	F	D	E	D	D	D
31	D	F	F	F	D	F	C	D	D	B	A	A	A	A	A	B	C	C	D	D	D	D	D	D

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 743 DATA RECOVERY RATE = 99.9 %

STABILITY CATEGORY	NUMBER OF OCCURRENCES	PERCENT
A	144	19.4
B	75	10.1
C	71	9.6
D	292	39.2
E	83	11.2
F	78	10.5

MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

SIGMA THETA in DEG for JUNE, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	8	16	6	12	11	9	8	18	41	30	52	38	54	72	47	48	39	19	21	8	35	35	13	20	28	72	6
02	12	40	31	27	22	5	4	16	14	24	53	43	42	51	61	52	17	21	45	16	6	9	14	12	27	61	4
03	10	7	37	17	21	15	10	10	27	13	13	16	21	12	20	46	19	19	36	49	10	10	9	34	20	49	7
04	39	54	15	7	6	7	6	10	10	16	54	38	33	25	15	22	19	10	19	13	19	5	10	5	19	54	5
05	24	26	17	18	15	11	20	27	10	20	28	10	10	21	24	19	9	10	26	13	27	16	10	11	18	28	9
06	8	25	13	19	19	8	12	8	10	12	15	19	20	22	38	33	43	41	26	18	19	14	11	13	19	43	8
07	34	14	9	31	10	6	9	12	12	20	12	21	23	20	32	50	20	38	28	20	11	16	8	8	19	50	6
08	8	11	8	12	7	16	8	27	46	13	13	16	23	31	45	17	13	16	17	13	43	13	10	9	18	46	7
09	8	11	44	41	33	23	5	35	35	19	18	21	17	35	28	21	15	19	16	7	14	13	8	9	21	44	5
10	25	30	28	12	42	25	8	8	15	21	20	13	33	31	22	16	11	15	40	34	39	9	27	16	23	42	8
11	15	13	35	14	12	12	25	24	51	56	23	16	17	11	12	15	12	34	14	15	7	9	7	40	20	56	7
12	16	17	27	33	13	40	14	13	25	26	26	17	20	52	66	55	43	18	12	13	18	34	44	39	28	66	12
13	27	15	37	56	28	40	13	8	9	15	8	15	18	11	9	10	12	15	13	7	33	23	44	30	21	56	7
14	27	9	15	19	10	15	11	15	34	31	43	44	51	27	18	18	30	55	13	10	17	28	14	25	24	55	9
15	22	9	10	38	17	17	20	13	12	17	22	42	35	34	39	35	34	50	47	9	8	5	13	11	23	50	5
16	9	6	6	13	14	11	11	21	23	45	27	42	52	37	40	30	37	9	11	7	7	6	6	9	20	52	6
17	7	13	10	10	8	37	21	13	13	48	22	19	25	15	10	14	14	27	9	22	7	7	41	18	18	48	7
18	14	8	9	7	16	16	11	9	10	14	28	20	29	67	45	21	15	29	51	24	11	6	6	15	20	67	6
19	33	29	36	39	21	14	11	12	22	28	13	12	17	14	22	19	21	31	17	16	7	9	13	7	19	39	7
20	33	8	16	41	14	21	53	9	8	28	8	8	8	13	12	16	11	18	10	7	38	14	26	24	19	53	7
21	30	14	22	32	16	21	16	49	43	14	27	39	28	15	17	18	15	23	8	10	10	10	10	9	21	49	8
22	11	8	8	12	18	7	7	9	9	14	17	29	39	48	22	24	22	20	13	18	7	7	10	6	16	48	6
23	8	11	12	6	15	7	6	7	8	11	35	50	64	36	44	40	48	35	38	13	7	7	6	14	22	64	6
24	9	9	8	16	24	44	16	8	10	11	12	20	23	29	31	48	42	34	41	45	25	13	9	14	23	48	8
25	11	12	9	12	42	47	28	18	58	28	41	13	15	23	20	10	48	52	18	11	21	32	7	14	25	58	7
26	8	11	6	6	9	7	7	7	8	10	12	20	36	55	45	22	27	16	19	8	13	9	24	51	18	55	6
27	17	14	12	27	13	56	19	25	22	35	38	36	68	50	33	36	49	30	21	10	7	6	11	12	27	68	6
28	8	7	5	5	17	33	8	9	18	14	29	44	44	63	64	38	58	38	47	19	7	13	8	17	26	64	5
29	10	6	5	15	12	15	20	18	18	24	45	54	22	23	32	57	52	52	45	43	33	9	8	6	26	57	5
30	7	20	41	45	10	37	9	39	38	16	13	14	24	55	30	32	24	10	12	10	11	26	18	17	23	55	7
MEAN	17	16	18	21	17	21	14	17	22	22	26	26	30	33	31	29	27	27	24	17	17	14	15	17	22		
MAX	39	54	44	56	42	56	53	49	58	56	54	54	68	72	66	57	58	55	51	49	43	35	44	51		72	
MIN	7	6	5	5	6	5	4	7	8	10	8	8	8	11	9	10	9	9	8	7	6	5	6	5			4

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 720 DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 21.6 DEG

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

Stability based on SIGMA THETA for JUNE, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01	D	E	E	D	D	D	D	B	A	A	A	A	A	A	A	A	B	C	D	D	D	E	D	F
02	D	F	F	F	F	E	D	C	C	A	A	A	A	A	A	B	C	D	E	D	E	D	D	D
03	D	E	F	E	F	E	D	D	A	C	C	C	B	D	B	A	C	B	F	F	D	D	D	F
04	E	F	D	D	D	D	D	D	D	C	A	A	A	A	C	B	D	D	D	D	F	E	D	E
05	F	F	D	E	D	D	B	A	D	C	A	D	D	C	C	D	D	D	D	D	D	D	D	D
06	D	F	E	F	F	D	D	D	D	D	C	C	C	C	B	B	A	A	D	D	D	D	D	D
07	F	E	D	F	D	E	D	D	D	B	D	C	B	B	A	A	C	B	F	E	D	D	D	D
08	D	D	D	D	E	E	D	A	A	C	C	C	C	A	A	D	D	C	D	D	F	D	D	D
09	D	D	F	F	F	F	D	A	A	B	B	C	C	B	C	C	C	D	D	E	D	E	D	D
10	F	F	F	D	F	F	D	D	C	B	B	C	A	A	B	C	D	C	F	F	F	D	F	D
11	D	E	F	E	D	D	A	A	A	A	A	C	C	D	D	C	D	A	D	E	E	D	E	F
12	E	E	F	F	E	F	C	C	A	A	A	C	B	A	A	A	A	C	D	D	D	F	F	E
13	D	D	E	F	F	F	C	D	D	C	D	C	C	D	D	D	D	C	D	E	F	F	F	F
14	F	D	D	F	D	E	D	C	A	A	A	A	A	B	D	C	A	B	D	D	D	D	D	F
15	F	D	D	F	E	E	B	C	D	C	B	A	A	B	B	B	B	A	D	D	D	E	D	D
16	D	E	E	E	E	D	D	B	A	A	A	A	A	B	B	B	C	D	D	D	D	D	E	D
17	E	E	D	D	D	F	B	C	C	A	B	B	C	C	D	C	C	D	D	D	E	E	F	F
18	E	D	D	E	E	E	D	D	D	C	A	B	A	A	A	B	C	B	A	F	D	E	E	E
19	F	F	F	F	F	E	D	D	B	A	C	D	C	C	C	C	C	B	C	D	E	D	D	D
20	D	D	D	D	D	D	A	D	D	C	D	D	D	C	D	C	D	C	D	E	F	E	F	F
21	F	D	F	F	D	D	C	A	A	C	A	A	A	C	D	D	D	D	D	D	D	D	D	D
22	D	D	D	D	E	E	D	D	D	C	C	A	B	B	B	B	C	C	C	D	D	E	D	E
23	D	D	D	E	D	E	D	D	D	D	A	A	A	A	A	B	A	A	A	D	E	E	E	D
24	D	D	D	E	F	F	C	D	D	D	D	B	A	B	A	A	A	A	A	F	D	D	D	D
25	D	D	D	D	E	F	B	B	A	A	A	C	D	C	D	D	B	A	B	D	D	D	E	D
26	D	D	D	D	D	E	D	D	D	D	D	B	B	A	A	B	B	D	D	D	D	D	F	F
27	D	D	D	F	E	F	B	A	B	A	A	A	A	A	B	B	B	B	C	D	D	E	D	D
28	D	E	E	E	D	F	D	D	B	C	A	A	A	A	A	A	A	A	A	D	E	D	D	D
29	D	E	E	D	D	D	B	B	B	A	A	A	C	B	A	A	B	A	A	F	E	D	D	E
30	E	F	F	F	D	F	D	A	A	C	C	C	B	A	C	B	D	D	D	D	D	F	F	E

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 720 DATA RECOVERY RATE = 100 %

STABILITY CATEGORY	NUMBER OF OCCURRENCES	PERCENT
A	120	16.7
B	70	9.7
C	87	12.1
D	278	38.6
E	81	11.2
F	84	11.7

MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

SIGMA THETA in DEG for JULY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	30	19	10	6	7	14	26	25	40	37	30	28	55	56	23	49	20	26	16	7	9	28	9	8	24	56	6
02	8	11	9	19	16	25	10	28	17	9	27	38	20	12	10	7	18	39	8	15	11	9	7	8	16	39	7
03	8	17	13	9	38	69	18	15	8	11	22	25	42	41	49	62	60	56	33	17	13	20	15	15	28	69	8
04	10	16	8	6	15	34	24	43	56	28	42	10	20	25	39	55	56	22	14	11	21	16	16	9	25	56	6
05	31	18	18	13	11	7	6	9	9	10	19	24	23	38	29	30	34	32	17	15	15	6	19	8	18	38	6
06	11	21	17	19	16	7	8	7	12	14	11	13	18	30	25	38	33	27	18	15	7	5	14	9	16	38	5
07	7	17	9	8	8	6	11	14	41	19	41	31	23	14	21	26	27	21	13	10	7	12	8	15	17	41	6
08	22	6	26	23	19	23	27	50	24	16	21	36	26	27	44	45	34	35	20	16	16	7	6	10	24	50	6
09	10	10	8	10	5	6	6	9	19	16	13	14	20	18	27	40	76	43	21	14	8	9	17	9	18	76	5
10	17	5	8	7	5	23	40	9	8	26	20	30	28	20	21	20	21	20	18	11	7	7	7	10	16	40	5
11	10	19	10	16	43	30	32	33	24	30	29	10	12	13	28	38	36	45	17	11	16	14	9	18	23	45	9
12	31	33	27	25	10	9	32	20	30	17	16	14	12	20	22	22	16	10	15	8	8	6	9	6	17	33	6
13	12	9	35	39	17	8	11	36	19	15	15	25	31	49	41	29	20	20	23	19	6	10	7	8	21	49	6
14	13	14	11	5	12	15	20	20	23	36	51	50	63	57	44	37	47	60	31	14	8	6	9	15	28	63	5
15	11	8	6	4	11	6	6	14	25	54	64	40	42	56	53	45	51	56	24	18	7	9	10	8	26	64	4
16	4	7	31	27	9	11	7	6	19	12	22	31	42	62	57	46	43	53	57	14	7	5	18	13	25	62	4
17	4	17	23	31	6	4	6	33	28	21	36	28	39	34	22	34	24	26	24	16	8	7	12	7	20	39	4
18	6	13	15	6	12	16	34	12	8	21	51	24	26	38	37	17	35	26	9	9	13	10	11	10	19	51	6
19	17	10	9	9	24	43	22	8	8	10	13	19	27	33	62	54	27	40	31	20	17	13	14	12	23	62	8
20	16	39	27	38	37	14	49	25	40	36	31	44	47	58	24	36	32	23	21	8	6	10	6	16	28	58	6
21	9	7	33	18	19	37	20	18	46	17	17	24	40	47	48	40	53	48	59	10	6	11	12	10	27	59	6
22	44	14	19	43	19	30	52	46	11	10	13	18	21	23	27	33	34	44	28	22	20	14	16	36	27	52	10
23	22	48	20	23	13	26	20	19	27	12	16	17	19	21	27	54	57	28	31	40	9	9	22	10	25	57	9
24	12	12	13	10	57	10	8	9	16	10	17	20	35	38	42	42	30	32	32	15	10	12	9	17	21	57	8
25	13	40	26	11	19	20	6	7	9	27	30	52	55	49	42	56	63	45	24	19	13	13	13	14	28	63	6
26	32	20	23	35	24	16	43	24	24	20	35	64	47	41	58	52	28	32	41	39	47	29	18	16	34	64	16
27	38	18	46	33	36	13	38	45	14	11	17	27	36	25	26	22	19	24	18	14	7	7	9	6	23	46	6
28	9	19	28	8	11	12	8	14	11	18	38	62	43	41	31	46	34	25	27	38	7	14	13	11	24	62	7
29	8	4	5	6	13	41	13	10	9	42	30	22	23	21	19	19	25	31	19	10	8	11	9	10	17	42	4
30	13	7	33	4	7	6	4	28	35	27	46	53	26	39	34	35	41	25	12	9	13	9	8	7	22	53	4
31	7	22	15	36	9	7	6	37	10	10	16	33	28	25	28	29	22	18	20	21	7	5	4	7	18	37	4
MEAN	16	17	19	18	18	19	20	22	22	21	27	30	32	35	34	37	36	33	24	16	12	11	11	12	22		
MAX	44	48	46	43	57	69	52	50	56	54	64	64	63	62	62	62	76	60	59	40	47	29	22	36		76	
MIN	4	4	5	4	5	4	4	6	8	9	11	10	12	12	10	7	16	10	8	7	6	5	4	6			4

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 22.5 DEG

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

Stability based on SIGMA THETA for JULY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01	E	F	D	D	E	D	A	A	A	A	A	A	A	A	C	A	C	B	C	D	D	D	D	D
02	D	D	D	F	E	F	D	A	C	D	A	A	B	D	D	D	C	D	D	D	D	D	E	D
03	D	E	D	D	F	F	B	C	D	D	B	B	A	A	A	A	A	A	A	D	E	E	D	D
04	D	D	D	E	D	E	A	B	A	C	D	D	B	A	A	A	A	B	C	D	D	D	D	D
05	F	F	F	E	D	E	D	D	D	D	B	B	B	B	B	B	B	B	C	D	D	E	D	D
06	D	F	E	F	D	D	D	D	D	C	D	D	C	C	C	B	C	C	C	D	D	E	D	D
07	E	D	D	D	D	E	D	C	A	B	A	A	C	D	C	C	C	C	C	D	E	D	D	D
08	E	E	F	F	F	E	A	A	A	C	B	B	C	C	B	B	B	B	C	D	D	D	D	D
09	D	D	D	D	E	D	D	D	B	C	C	C	C	C	B	B	A	A	B	D	D	D	D	D
10	D	E	D	E	D	E	B	D	D	A	B	A	B	C	C	C	C	B	B	D	E	E	E	D
11	D	F	D	E	F	F	A	A	A	A	A	D	D	C	C	A	B	A	C	D	E	D	D	E
12	F	F	F	F	D	D	A	B	A	C	C	C	D	C	C	C	D	D	D	D	D	E	D	D
13	D	D	F	F	E	D	D	A	B	C	C	B	B	A	B	B	C	C	D	D	D	D	D	D
14	D	D	D	E	D	D	B	B	A	A	A	A	A	A	A	B	A	A	E	D	D	E	D	E
15	D	D	E	E	D	E	D	C	A	A	A	A	A	A	A	A	A	A	F	D	E	D	D	D
16	E	E	F	F	D	D	D	D	B	D	B	A	A	A	A	A	A	A	F	D	E	E	E	D
17	E	D	F	F	E	E	D	A	A	B	A	A	A	A	C	B	C	B	D	D	D	E	D	E
18	E	D	E	E	D	D	A	D	D	B	A	A	B	B	A	C	C	A	D	D	D	D	D	D
19	D	D	D	D	F	F	B	D	D	D	C	C	B	B	A	A	B	B	F	D	D	D	D	D
20	D	F	F	F	F	E	A	A	A	A	A	A	A	A	C	C	C	C	D	D	E	D	E	D
21	D	E	F	E	F	F	B	B	A	C	C	A	A	A	A	A	A	A	F	D	E	D	D	D
22	F	D	F	F	F	F	A	A	D	D	C	C	B	B	B	B	B	A	F	F	F	D	D	F
23	F	E	F	F	E	E	B	B	A	D	C	C	C	B	B	A	A	A	F	D	D	D	F	D
24	D	D	E	D	F	D	D	D	C	D	C	B	B	A	B	A	C	A	E	D	D	D	D	D
25	D	F	F	D	D	E	D	D	D	A	A	A	A	A	A	A	A	A	E	D	D	D	D	D
26	F	E	F	F	F	E	A	A	A	B	A	A	A	A	A	A	B	A	F	F	F	F	F	E
27	F	E	F	F	F	E	A	A	C	D	C	A	A	C	C	C	C	C	D	D	D	D	D	D
28	D	E	F	D	D	D	D	C	D	B	A	A	B	B	B	B	B	B	F	F	E	D	D	D
29	D	E	E	E	E	F	C	D	D	A	A	B	C	C	C	C	C	C	D	D	D	D	D	D
30	D	E	F	E	E	E	D	A	A	A	A	A	B	B	B	B	C	C	D	D	D	D	D	E
31	E	F	D	F	D	E	D	B	D	D	C	A	B	C	B	C	C	C	D	D	E	E	E	E

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

STABILITY CATEGORY	NUMBER OF OCCURRENCES	PERCENT
A	144	19.4
B	87	11.7
C	92	12.4
D	257	34.5
E	88	11.8
F	76	10.2

MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

SIGMA THETA in DEG for AUGUST, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	8	19	12	17	21	8	34	28	12	22	20	61	52	52	23	25	29	26	30	24	10	7	8	12	23	61	7
02	7	33	12	38	41	31	28	43	56	44	24	38	58	39	32	35	34	58	44	32	7	6	5	12	32	58	5
03	10	15	6	15	7	6	6	7	11	7	9	10	18	22	35	37	16	16	15	9	5	4	5	10	13	37	4
04	6	6	6	6	28	12	8	6	13	12	12	17	17	21	17	23	29	58	38	10	9	5	7	4	15	58	4
05	5	24	40	16	12	22	62	19	16	24	13	18	16	16	20	16	13	15	13	8	9	7	7	7	17	62	5
06	7	7	6	7	19	9	23	29	42	28	9	11	10	10	9	10	10	9	8	22	7	14	12	8	14	42	6
07	5	6	9	7	8	6	20	13	13	25	19	32	26	36	39	49	18	17	16	12	9	9	10	9	17	49	5
08	10	7	10	10	9	9	11	7	12	10	13	36	54	66	52	35	24	23	28	24	6	9	6	11	20	66	6
09	5	6	6	4	6	22	37	12	22	48	51	61	35	50	46	61	42	33	27	13	6	9	28	14	27	61	4
10	10	5	2	7	7	15	26	32	27	25	41	65	55	51	31	43	54	30	29	11	9	10	13	9	25	65	2
11	6	9	11	13	4	9	19	15	18	14	23	24	23	32	29	41	34	38	26	27	24	13	6	9	19	41	4
12	10	16	38	43	30	20	29	26	40	17	10	12	17	24	25	47	39	49	31	22	16	13	30	20	26	49	10
13	34	17	15	46	38	8	17	59	12	7	13	44	31	20	24	24	30	40	11	10	34	17	21	43	26	59	7
14	24	41	12	38	27	19	7	8	9	9	13	15	17	21	49	30	21	19	15	12	9	7	7	7	18	49	7
15	7	11	9	13	14	11	13	9	19	9	10	19	18	22	24	28	44	41	20	22	9	6	16	8	17	44	6
16	6	13	5	7	5	8	4	17	23	41	41	56	55	35	28	35	26	35	26	16	16	14	15	9	22	56	4
17	11	4	7	6	12	15	35	27	9	25	28	65	54	44	54	36	34	56	18	19	7	5	16	7	25	65	4
18	14	17	9	9	14	29	42	27	13	23	39	38	47	44	26	25	20	25	35	25	9	7	31	6	24	47	6
19	25	24	37	18	48	47	42	34	29	16	25	40	28	30	30	35	38	24	37	43	6	5	8	12	28	48	5
20	5	14	12	17	12	15	12	28	23	15	22	35	45	48	60	40	43	29	23	18	8	6	5	6	23	60	5
21	5	4	8	21	43	12	46	36	21	31	16	20	26	35	44	30	54	36	32	8	10	10	11	8	24	54	4
22	12	24	61	13	29	9	4	28	52	14	19	10	11	14	15	21	24	30	34	12	12	10	9	8	20	61	4
23	12	10	8	10	7	14	11	28	11	10	10	12	12	12	10	11	11	9	16	28	15	11	17	8	13	28	7
24	6	6	11	11	18	10	16	42	23	24	15	48	68	70	42	51	20	28	37	25	12	31	24	37	28	70	6
25	10	25	34	36	22	41	11	33	16	22	60	36	46	49	30	42	25	34	30	11	9	7	6	7	27	60	6
26	7	6	12	22	24	53	11	10	14	13	19	33	40	49	56	52	43	24	28	12	7	5	15	6	23	56	5
27	6	8	7	11	39	14	25	6	7	21	14	42	37	48	52	47	44	30	19	10	20	16	6	5	22	52	5
28	5	9	46	13	29	25	25	37	13	8	17	28	68	45	69	41	54	46	29	14	15	7	5	4	27	69	4
29	5	6	8	25	30	12	21	14	11	21	19	43	42	57	53	38	36	27	21	8	10	11	5	5	22	57	5
30	11	40	40	58	25	30	25	35	39	38	40	20	20	19	13	21	21	16	11	6	11	27	13	7	24	58	6
31	7	7	20	8	9	34	10	4	18	12	29	55	63	63	43	25	47	51	37	14	21	12	7	12	25	63	4
MEAN	10	14	17	18	21	19	22	23	21	20	22	34	36	37	35	34	32	31	25	17	12	10	12	11	22		
MAX	34	41	61	58	48	53	62	59	56	48	60	65	68	70	69	61	54	58	44	43	34	31	31	43		70	
MIN	5	4	2	4	4	6	4	4	7	7	9	10	10	10	9	10	10	9	8	6	5	4	5	4			2

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 22.1 DEG

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

Stability based on SIGMA THETA for AUGUST, 2009

HR END / DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01	D	D	D	D	E	D	A	A	D	B	B	A	A	A	B	C	B	A	F	D	D	E	D	D
02	E	F	D	F	F	F	A	A	A	A	B	A	A	A	A	C	B	A	F	F	E	E	E	D
03	D	D	D	D	D	D	D	D	D	D	D	D	C	B	B	C	C	C	D	D	E	E	E	D
04	E	D	E	D	E	D	D	D	C	D	D	C	C	C	C	B	B	A	F	D	D	E	E	E
05	E	F	F	D	D	E	A	B	C	A	C	C	C	D	D	D	D	D	D	D	D	D	D	D
06	D	D	D	E	E	D	A	A	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
07	E	E	D	E	D	E	B	C	C	A	B	B	B	B	A	B	C	C	D	D	D	D	D	D
08	D	E	D	D	D	D	D	D	D	D	C	A	A	A	A	C	B	B	F	F	E	D	E	D
09	E	E	E	E	E	E	A	D	B	A	A	A	A	A	B	B	B	B	E	D	E	D	F	D
10	D	E	E	E	E	E	A	A	A	A	A	A	A	A	B	A	A	A	F	D	D	D	D	D
11	E	D	D	D	E	D	B	C	B	C	A	A	A	A	B	A	A	A	F	F	F	D	E	D
12	D	D	F	F	F	E	A	A	A	C	D	D	C	C	B	A	A	A	E	F	E	D	F	E
13	F	D	D	F	F	D	C	A	D	D	C	A	B	C	C	C	C	C	D	D	F	D	D	D
14	D	F	D	F	F	E	D	D	D	D	C	C	C	C	B	B	C	C	D	D	D	D	D	D
15	D	D	D	D	D	D	C	D	C	D	D	C	C	C	C	C	B	A	E	E	D	E	D	D
16	E	D	E	E	E	D	D	C	A	A	A	A	A	B	B	B	B	A	E	D	D	D	D	D
17	D	E	E	E	D	E	A	A	D	A	A	A	A	A	A	C	B	A	D	D	D	E	D	E
18	D	E	D	D	D	F	A	A	C	A	A	A	A	B	C	C	C	B	F	F	D	E	F	E
19	F	F	F	F	F	F	A	A	A	C	A	A	A	A	A	A	A	B	F	F	E	E	D	D
20	D	D	D	D	D	E	D	A	A	C	B	A	A	A	A	A	A	B	E	D	D	E	E	E
21	E	E	D	F	F	D	A	A	B	A	C	B	A	A	A	A	A	A	F	D	D	D	D	D
22	D	F	F	E	F	D	D	A	A	C	B	D	D	C	C	B	A	A	F	D	D	D	D	D
23	D	D	D	D	D	E	D	A	D	D	D	D	D	D	D	D	D	D	E	F	D	D	E	D
24	E	E	D	D	F	D	C	A	A	A	C	A	A	A	A	B	C	A	F	D	D	F	F	F
25	D	F	F	F	F	F	D	A	C	B	A	A	A	A	B	A	B	B	F	D	D	E	E	E
26	E	E	D	F	F	F	D	D	C	C	B	A	A	A	A	A	B	B	F	D	E	E	D	E
27	E	D	E	D	F	E	A	D	D	B	C	A	A	A	A	B	B	B	D	D	F	D	E	E
28	E	D	F	E	F	F	A	A	C	D	C	A	A	A	A	A	A	A	F	D	D	E	E	E
29	E	E	D	F	F	D	B	C	D	B	B	A	A	A	A	A	A	A	D	D	D	D	E	E
30	D	F	F	F	F	F	F	A	A	A	A	B	B	C	D	D	D	D	D	E	D	D	D	D
31	D	D	D	D	D	F	D	D	B	D	A	A	A	A	B	A	A	A	F	E	F	D	E	D

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

STABILITY CATEGORY	NUMBER OF OCCURRENCES	PERCENT
A	164	22.0
B	66	8.9
C	69	9.3
D	260	34.9
E	104	14.0
F	81	10.9

MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

SIGMA THETA in DEG for SEPTEMBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	10	20	12	11	32	45	44	45	11	30	10	11	18	22	47	55	46	47	46	20	9	6	8	13	26	55	6
02	11	10	5	10	7	36	10	18	8	20	16	36	45	30	46	34	33	30	21	11	5	12	6	6	19	46	5
03	14	39	17	15	30	27	14	30	34	30	43	21	18	46	51	51	39	59	36	6	9	25	32	24	30	59	6
04	37	29	9	14	19	29	51	40	23	22	16	15	38	50	45	31	26	25	59	47	13	16	12	10	28	59	9
05	20	8	15	36	33	11	9	15	12	9	9	14	8	11	15	15	15	13	7	6	7	8	27	38	15	38	6
06	5	11	8	6	9	8	33	11	6	6	9	9	11	14	23	21	16	13	11	6	5	6	8	18	11	33	5
07	27	41	35	20	18	7	13	7	16	26	29	45	36	61	52	38	16	14	19	8	10	14	8	12	24	61	7
08	9	7	6	9	8	5	12	7	19	22	11	21	31	27	31	48	35	38	12	6	6	7	6	8	16	48	5
09	6	7	19	35	9	16	17	17	8	9	13	12	24	21	22	27	41	48	24	12	7	15	21	17	19	48	6
10	5	16	46	16	19	17	32	20	36	50	38	26	27	49	17	41	15	27	19	7	6	11	7	6	23	50	5
11	19	9	4	26	6	16	34	28	11	10	20	38	53	29	51	24	27	33	15	13	9	11	19	44	23	53	4
12	8	19	12	9	5	54	43	15	10	22	49	34	32	45	70	44	40	34	11	8	14	16	17	13	26	70	5
13	25	12	15	16	49	47	9	21	28	21	8	10	32	13	14	44	17	22	9	10	15	6	6	7	19	49	6
14	9	7	6	7	6	6	8	15	9	8	8	10	21	24	51	9	13	24	10	7	22	34	36	12	15	51	6
15	36	34	21	23	10	41	17	21	26	37	33	47	34	56	22	19	16	26	9	20	7	23	14	20	26	56	7
16	11	52	31	16	36	12	24	23	40	22	39	58	56	37	39	27	25	32	27	13	10	22	10	13	28	58	10
17	5	13	25	27	32	20	34	21	12	8	16	43	58	32	37	45	70	37	40	25	6	15	10	4	26	70	4
18	10	19	17	17	31	33	24	34	25	11	11	22	43	62	50	40	25	32	32	10	6	8	11	4	24	62	4
19	43	22	24	25	20	19	37	12	15	33	16	11	12	25	30	25	22	32	13	17	39	16	30	12	23	43	11
20	10	6	7	6	28	13	19	20	10	11	15	18	19	22	21	25	15	15	7	13	12	20	12	29	16	29	6
21	15	17	15	10	12	16	12	12	15	11	18	17	17	22	19	20	19	17	10	6	35	46	6	9	17	46	6
22	6	13	11	3	19	23	36	38	18	11	17	53	50	39	21	16	26	20	27	11	28	9	26	14	22	53	3
23	4	7	17	44	12	33	18	9	10	13	41	38	26	27	22	22	14	17	10	11	10	17	33	25	20	44	4
24	31	4	36	11	40	29	21	24	34	28	13	21	23	35	35	33	52	46	21	9	10	8	4	25	25	52	4
25	31	48	18	18	15	26	40	37	21	33	13	30	43	52	45	56	59	25	31	6	37	25	43	23	32	59	6
26	12	32	33	29	46	38	22	31	33	20	15	15	17	25	27	24	59	16	9	5	5	5	11	53	24	59	5
27	13	10	27	55	14	27	20	16	16	30	32	46	32	22	23	27	24	46	18	8	10	12	9	4	23	55	4
28	11	17	25	14	9	33	22	7	20	19	10	10	33	27	22	18	14	9	8	7	9	13	6	7	15	33	6
29	6	7	13	10	9	22	9	10	9	7	7	11	13	12	8	8	8	7	7	6	6	14	9	8	9	22	6
30	8	9	7	7	7	8	15	13	8	8	8	8	10	12	13	15	12	8	8	7	8	6	6	8	9	15	6
MEAN	15	18	18	18	20	24	23	21	18	20	19	25	29	32	32	30	28	27	19	11	12	15	15	16	21		
MAX	43	52	46	55	49	54	51	45	40	50	49	58	58	62	70	56	70	59	59	47	39	46	43	53		70	
MIN	4	4	4	3	5	5	8	7	6	6	7	8	8	11	8	8	8	7	7	5	5	5	4	4			3

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 720 DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 21.1 DEG

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

Stability based on SIGMA THETA for SEPTEMBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01	D	E	D	D	F	F	F	A	D	A	D	D	C	B	A	A	A	A	F	E	D	E	D	D
02	D	D	E	D	E	F	D	B	D	B	C	A	A	A	A	B	A	B	D	D	E	D	E	E
03	D	F	E	E	F	F	D	A	A	A	A	B	B	A	A	A	A	F	D	E	D	F	F	F
04	F	F	D	E	F	F	F	A	A	B	C	C	A	A	A	B	C	D	E	F	D	D	D	D
05	D	D	E	F	F	D	D	C	D	D	D	C	D	D	C	C	C	D	D	E	E	D	E	F
06	E	D	D	E	D	D	F	D	D	D	D	D	D	C	C	C	C	D	D	E	E	D	D	D
07	F	F	F	E	E	E	D	D	C	A	A	A	A	A	A	B	C	D	F	D	D	D	D	D
08	D	E	E	D	D	E	D	D	B	B	D	C	B	B	B	A	A	F	D	D	E	E	E	D
09	E	E	E	F	D	E	E	C	D	D	C	D	B	B	B	A	A	F	F	D	E	D	D	D
10	E	D	F	E	F	E	F	B	A	A	A	A	A	A	C	A	C	F	E	E	E	D	E	E
11	D	D	E	E	E	E	F	A	D	D	B	A	A	A	A	C	C	E	D	D	D	D	F	F
12	D	F	D	D	E	F	F	C	D	B	A	A	A	A	A	A	A	F	D	D	D	E	E	E
13	F	D	D	E	F	F	D	B	A	B	D	D	C	D	D	B	C	D	D	D	D	D	D	D
14	D	D	D	D	E	E	D	C	D	D	D	D	D	B	A	D	C	F	D	D	D	F	F	D
15	F	F	F	F	D	F	E	B	A	A	A	A	A	A	B	B	C	F	D	F	E	F	D	F
16	D	F	F	E	F	D	F	A	A	B	A	A	A	A	B	B	C	E	E	D	D	F	D	D
17	E	D	F	F	F	F	F	B	D	D	C	A	A	A	A	A	A	F	F	F	E	D	D	E
18	D	E	E	E	F	F	F	A	A	D	D	B	A	A	A	A	A	F	F	D	E	D	D	E
19	F	F	F	F	F	F	F	D	C	A	C	D	D	C	A	B	B	F	D	D	D	D	F	D
20	D	E	E	E	E	D	F	C	D	D	C	C	C	C	C	C	D	D	D	D	D	D	D	D
21	D	D	D	D	D	D	D	D	C	D	C	D	C	C	C	C	C	D	D	E	F	F	E	D
22	E	E	D	E	F	F	F	A	B	D	C	A	A	A	C	C	B	E	F	D	F	D	F	E
23	E	E	E	F	D	F	F	D	D	C	A	A	A	B	C	B	C	D	D	D	D	E	F	F
24	F	E	F	D	F	F	F	A	A	A	C	B	A	A	A	A	A	F	D	D	D	D	E	F
25	F	F	F	F	E	F	F	A	B	A	C	A	A	A	A	A	A	F	F	E	F	F	F	F
26	D	F	F	F	F	F	F	A	A	B	C	C	C	B	A	B	A	D	D	E	E	E	D	F
27	D	D	F	F	E	F	F	C	C	A	A	A	A	B	B	A	A	F	E	D	D	D	D	E
28	D	E	E	E	D	F	F	D	B	B	D	D	A	A	B	B	C	D	D	E	D	D	D	D
29	D	E	D	D	D	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
30	D	D	D	D	D	D	D	C	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 720 DATA RECOVERY RATE = 100 %

STABILITY CATEGORY	NUMBER OF OCCURRENCES	PERCENT
A	117	16.2
B	50	6.9
C	63	8.8
D	260	36.1
E	100	13.9
F	130	18.1

MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

SIGMA THETA in DEG for OCTOBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	7	8	16	27	30	31	29	46	18	27	18	30	38	45	75	49	75	27	62	11	6	26	15	18	31	75	6
02	18	10	11	29	43	24	26	18	8	21	33	38	63	41	39	38	30	18	14	11	13	6	9	8	24	63	6
03	17	8	24	13	40	53	39	23	10	12	12	13	14	20	15	30	22	13	12	13	16	39	26	14	21	53	8
04	10	31	64	62	15	35	27	7	24	17	12	9	11	11	19	14	20	14	12	11	11	13	17	23	20	64	7
05	14	9	16	25	36	50	6	26	49	12	12	21	27	30	24	28	28	17	8	5	10	10	4	11	20	50	4
06	10	7	9	5	6	8	8	13						42	31	47	29	21	8	5	6	4	3	4	14	47	3
07	4	29	18	29	4	17	11	12	12	10	28	28	32	51	47	41	31	25	20	22	6	17	7	23	22	51	4
08	37	26	39	17	11	11	23	34	33	10	16	32	26	11	14	13	13	11	10	5	16	8	20	25	19	39	5
09	49	33	22	38	39	16	51	50	10	7	7	8	13	22	23	25	19	26	10	14	9	14	10	25	23	51	7
10	11	12	24	9	21	36	37	6	21	35	31	19	25	37	31	47	48	32	9	13	18	11	13	8	23	48	6
11	5	6	6	11	12	10	10	14	48	33	36	15	14	13	16	19	31	21	7	10	9	7	7	8	15	48	5
12	57	25	22	41	16	15	33	18	14	15	18	13	17	13	12	13	10	10	9	7	9	7	11	8	17	57	7
13	7	7	6	6	6	7	5	6	6	7	8	9	9	9	8	8	8	9	9	10	8	7	10	8	8	10	5
14	9	9	8	21	27	41	16	7	29	46	8	7	7	7	12	9	14	26	9	16	17	20	30	14	17	46	7
15	4	8	16	27	10	19	22	8	16	9	17	29	27	37	23	34	33	24	10	12	8	23	14	5	18	37	4
16	9	17	22	28	15	10	29	32	28	34	17	18	23	21	32	28	19	12	13	13	9	10	6	7	19	34	6
17	11	4	30	20	23	40	25	9	31	21	11	17	23	25	30	43	31	19	21	24	5	6	8	13	20	43	4
18	15	26	30	18	43	44	26	18	17	26	34	10	21	12	11	11	8	7	5	29	10	15	15	28	20	44	5
19	7	6	7	16	28	19	26	42	13	10	14	47	37	59	43	8	11	11	12	15	12	9	17	29	21	59	6
20	11	9	9	14	37	15	13	19	18	14	16	13	13	13	14	11	9	10	7	8	10	13	19	14	14	37	7
21	23	33	9	17	15	13	11	16	22	12	15	18	22	34	17	16	12	11	11	11	17	50	11	8	18	50	8
22	28	32	17	31	19	16	12	13	27	35	22	12	16	32	40	27	28	21	6	13	22	18	13	7	21	40	6
23	5	18	27	33	22	11	16	9	30	41	12	10	9	12	16	29	43	16	8	10	5	44	29	10	19	44	5
24	29	28	27	26	44	10	7	21	40	29	6	6	7	12	18	21	28	11	13	16	14	18	14	10	19	44	6
25	9	22	19	6	10	10	5	15	11	11	23	24	33	45	43	38	21	18	6	8	8	34	21	38	20	45	5
26	24	27	17	41	15	22	19	30	41	34	14	16	8	8	8	8	7	9	8	12	14	6	5	5	17	41	5
27	5	27	13	7	7	24	48	13	12	8	7	10	10	8	12	9	9	8	7	7	10	14	11	11	12	48	5
28	12	7	6	11	7	11	10	7	11	8	9	12	14	12	10	10	13	12	13	15	11	6	5	31	11	31	5
29	20	29	16	11	65	32	25	36	14	30	18	19	17	22	17	17	18	18	12	25	27	12	16	37	23	65	11
30	25	9	8	7	8	7	10	9	7	9	7	6	7	9	7	10	26	18	9	22	9	17	11	12	11	26	6
31	28	48	33	20	22	40	32	13	23	26	20	13	12	16	16	11	13	15	7	40	8	43	10	8	22	48	7
MEAN	17	18	19	21	22	22	21	19	21	20	17	17	20	24	23	23	23	16	12	14	11	17	13	15	19		
MAX	57	48	64	62	65	53	51	50	49	46	36	47	63	59	75	49	75	32	62	40	27	50	30	38		75	
MIN	4	4	6	5	4	7	5	6	6	7	6	6	7	7	7	8	7	7	5	5	5	4	3	4			3

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 739 DATA RECOVERY RATE = 99.3 %

MONTHLY MEAN = 18.7 DEG

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

Stability based on SIGMA THETA for OCTOBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01	D	D	D	F	F	F	F	A	B	A	B	A	A	A	A	A	A	F	F	D	E	F	E	F
02	E	D	D	F	F	F	F	B	D	B	A	A	A	A	A	A	A	F	D	D	E	E	D	D
03	D	D	E	E	F	F	F	A	D	D	D	C	C	B	C	A	B	D	D	D	D	E	D	D
04	D	F	F	F	D	D	D	D	C	C	D	D	D	D	C	C	B	D	D	D	D	D	E	F
05	E	D	E	F	F	F	E	A	A	D	D	B	A	A	A	A	A	D	D	E	D	D	E	D
06	D	E	D	E	E	D	D	C						A	A	A	A	D	D	E	E	E	E	E
07	E	F	F	F	E	D	D	D	D	D	A	A	A	A	A	A	A	F	F	F	E	E	E	F
08	F	F	F	E	D	D	F	A	A	D	C	A	B	D	D	D	D	D	D	E	E	D	E	F
09	F	F	F	F	F	E	F	A	D	D	D	D	C	B	B	B	D	F	D	D	D	D	D	E
10	D	D	F	D	F	F	F	D	B	A	A	B	B	A	B	A	F	F	D	E	F	D	D	D
11	E	E	E	D	D	D	D	C	A	A	A	C	C	C	C	B	F	D	E	D	D	E	E	D
12	F	F	F	F	E	E	F	B	C	C	B	C	C	C	D	C	D	D	D	E	D	D	D	D
13	D	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
14	D	D	D	F	F	F	E	D	A	A	D	D	D	D	D	D	D	F	D	E	E	F	F	E
15	E	D	E	F	D	F	F	D	C	D	C	A	A	B	B	A	F	F	D	D	D	F	D	E
16	D	D	F	F	E	D	F	A	A	A	C	B	A	B	A	A	D	D	D	D	D	D	E	E
17	D	E	F	F	F	F	F	D	A	B	D	C	A	A	A	A	F	F	F	E	E	E	D	D
18	E	F	F	F	F	F	F	B	C	A	A	D	B	D	D	D	D	E	E	F	D	D	E	F
19	E	E	E	D	F	D	F	A	C	D	C	A	A	A	A	D	D	D	D	D	D	D	D	D
20	D	D	D	D	F	E	E	B	B	C	C	C	C	D	D	D	D	D	E	D	D	D	F	D
21	F	F	D	E	E	E	D	C	B	D	C	B	B	A	C	C	D	D	D	D	D	F	D	D
22	F	F	E	F	F	E	D	C	A	A	B	D	C	A	A	A	F	F	E	E	F	F	E	E
23	E	F	F	F	F	D	E	D	A	A	D	D	D	D	C	A	F	E	D	D	E	F	F	D
24	E	D	F	F	F	D	E	B	A	A	D	D	D	D	B	B	D	D	D	D	D	D	D	D
25	D	D	F	E	D	D	E	C	D	D	A	A	A	A	A	A	D	D	E	D	D	F	F	F
26	F	F	E	F	E	F	F	A	A	A	C	C	D	D	D	D	D	D	D	D	D	D	D	D
27	D	D	D	D	D	D	F	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
28	D	D	D	D	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	F
29	F	F	D	D	F	F	F	F	C	A	B	B	C	B	C	C	D	F	D	F	F	D	E	F
30	F	D	D	E	D	E	D	D	D	D	D	D	D	D	D	D	F	F	D	F	D	E	D	D
31	F	F	F	F	F	F	F	E	A	A	B	C	D	C	C	D	D	D	E	F	D	F	D	D

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 739 DATA RECOVERY RATE = 99.3 %

STABILITY CATEGORY	NUMBER OF OCCURRENCES	PERCENT
A	92	12.4
B	39	5.3
C	49	6.6
D	314	42.6
E	100	13.5
F	145	19.6

MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

SIGMA THETA in DEG for NOVEMBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	10	16	31	31	24	46	26	18	40	35	23	12	16	17	21	35	36	35	37	31	23	14	10	10	25	46	10
02	17	18	16	4	7	6	6	23	11	9	7	10	12	19	33	37	22	5	43	11	6	8	15	44	16	44	4
03	34	24	30	23	36	26	14	34	22	19	42	34	24	30	25	18	10	13	9	4	3	16	12	13	21	42	3
04	44	18	21	36	30	39	46	13	15	16	38	29	49	35	34	25	7	8	12	6	27	15	13	27	25	49	6
05	48	37	13	10	17	18	13	36	42	26	28	10	12	10	9	6	19	8	23	23	21	11	6	6	19	48	6
06	8	6	6	7	8	6	5	8	10	6	7	10	14	12	17	18	37	13	15	28	11	3	5	4	11	37	3
07	4	16	22	13	20	14	38	9	35	18	35	39	48	20	42	20	12	6	12	11	8	6	9	13	20	48	4
08	6	5	4	5	5	12	4	5	10	16	25	42	17	17	15	16	6	10	9	4	5	5	8	14	11	42	4
09	5	12	15	13	27	15	26	22	19	10	13	13	18	22	41	56	16	16	4	12	5	36	27	24	19	56	4
10	12	29	21	18	39	40	17	9	27	35	19	31	52	40	38	19	9	5	6	8	17	13	14	7	22	52	5
11	24	15	36	52	59	32	34	20	40	26	31	45	36	33	26	31	21	28	9	11	22	11	19	41	29	59	9
12	24	11	8	10	14	27	13	6	39	24	24	10	10	14	9	11	10	7	7	7	8	8	11	15	14	39	6
13	19	24	12	13	16	9	7	10	9	45	24	21	24	42	32	19	17	8	5	20	15	11	8	26	18	45	5
14	16	16	40	14	23	37	24	22	15	6	10	19	49	9	8	7	6	5	11	34	24	21	15	23	19	49	5
15	21	16	25	43	19	15	25	17	19	16	24	39	41	51	34	27	13	4	12	20	29	7	13	6	22	51	4
16	24	7	10	12	6	10	20	11	18	15	17	37	46	42	39	53	24	7	10	6	6	5	7	17	19	53	5
17	23	23	21	32	24	33	21	20	27	14	16	29	44	52	71	34	8	17	16	9	4	10	33	22	25	71	4
18	31	8	24	49	37	33	24	20	14	59	14	29	13	58	46	7	7	25	7	5	27	50	16	28	26	59	5
19	5	16	4	17	21	11	28	16	16	10	11	14	23	26	35	36	20	10	7	6	14	16	13	18	16	36	4
20	10	39	49	15	36	18	38	18	10	26	21	44	28	15	47	8	7	7	12	12	12	10	6	6	21	49	6
21	21	38	11	36	16	13	13	22	26	9	22	10	13	13	13	13	7	10	9	9	10	10	7	6	15	38	6
22	4	23	30	10	32	7	26	28	31	51	54	8	8	17	13	14	8	12	45	41	8	26	42	47	24	54	4
23	45	19	52	47	42	19	6	54	52	63	30	37	19	38	30	21	14	15	23	31	37	29	8	11	31	63	6
24	41	27	19	35	20	17	32	30	34	14	14	28	42	33	27	19	8	24	8	6	3	12	9	6	21	42	3
25	17	22	12	20	38	30	13	8	15	14	15	50	53	44	31	16	8	14	13	17	33	20	56	37	25	56	8
26	11	12	44	12	8	17	25	21	15	11	26	22	36	27	37	36	14	17	9	5	16	48	13	31	21	48	5
27	39	47	42	25	13	48	24	16	47	31	22	36	23	15	22	14	19	23	5	38	30	23	23	12	27	48	5
28	16	16	11	48	39	18	8	8	6	8	7	9	9	9	10	12	8	10	29	17	24	51	47	7	18	51	6
29	29	21	13	55	29	12	31	42	38	14	10	11	19	13	10	9	9	11	19	13	6	8	36	36	21	55	6
30	21	6	4	16	8	16	14	16	24	30	8	17	16	13	15	14	19	21	13	11	9	13	18	10	15	30	4
MEAN	21	20	22	24	24	21	21	19	24	23	21	25	27	26	28	22	14	13	15	15	15	17	17	19	21		
MAX	48	47	52	55	59	48	46	54	52	63	54	50	53	58	71	56	37	35	45	41	37	51	56	47		71	
MIN	4	5	4	4	5	6	4	5	6	6	7	8	8	9	8	6	6	4	4	4	3	3	5	4			3

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 720 DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 20.5 DEG

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

Stability based on SIGMA THETA for NOVEMBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01	D	E	F	F	F	F	F	F	A	A	A	D	C	C	B	A	F	F	F	F	F	E	D	D
02	D	E	E	E	E	E	E	F	D	D	D	D	D	B	A	A	F	E	F	D	E	D	E	F
03	F	F	F	F	F	F	E	F	B	B	A	A	A	A	A	B	D	E	D	E	E	D	D	E
04	F	F	F	F	F	F	F	E	C	C	A	A	A	A	A	A	E	D	D	E	F	E	E	F
05	F	F	E	D	E	F	E	F	A	A	A	D	D	D	D	D	D	D	F	F	F	D	D	D
06	D	E	E	E	D	E	D	D	D	D	D	D	C	D	C	B	F	E	E	F	D	E	E	E
07	E	D	F	E	F	E	F	D	A	B	A	A	A	B	A	B	D	E	D	D	D	E	D	D
08	E	E	E	E	E	D	E	E	D	C	A	A	C	C	C	C	E	D	D	E	E	E	D	E
09	E	D	E	E	F	E	F	F	B	D	C	C	B	B	A	A	E	E	E	D	E	F	F	F
10	D	F	F	F	F	F	E	D	A	A	B	A	A	A	A	B	D	E	E	D	E	E	E	E
11	F	E	F	F	F	F	F	F	A	A	A	A	A	A	A	A	F	F	D	D	F	D	F	F
12	F	D	D	D	D	E	D	E	A	A	A	D	D	D	D	D	D	E	E	E	D	D	D	E
13	F	F	D	E	E	D	E	D	D	A	A	B	A	A	A	B	E	D	E	F	E	D	D	F
14	E	E	F	E	F	F	F	F	D	D	D	B	B	D	D	D	D	E	D	F	F	F	E	F
15	F	E	F	F	F	E	F	E	B	C	A	A	A	A	A	A	E	E	D	F	F	E	E	E
16	F	E	D	D	E	D	F	D	B	C	C	A	A	A	A	A	F	E	D	E	E	E	E	E
17	F	F	F	F	F	F	F	F	A	C	C	A	A	A	A	A	D	E	E	D	E	D	F	F
18	F	D	F	F	F	F	F	E	C	A	C	A	C	A	A	D	E	F	E	E	F	F	D	F
19	E	D	E	D	F	D	F	E	C	D	D	C	A	A	A	A	F	D	E	E	D	E	D	F
20	D	F	F	E	F	F	F	F	D	A	B	A	A	C	A	D	D	D	D	D	D	D	D	D
21	D	E	D	F	E	E	E	F	A	D	B	D	C	C	C	C	E	D	D	D	D	D	E	E
22	E	F	F	D	F	E	F	F	A	A	A	D	D	D	D	C	D	D	F	D	D	F	F	F
23	F	D	F	F	F	E	E	E	A	A	A	A	B	A	A	B	E	E	F	F	F	F	D	D
24	F	F	F	F	F	E	F	F	A	C	C	A	A	A	A	B	D	F	D	E	E	D	D	E
25	E	F	D	F	F	F	E	D	C	C	C	A	A	A	A	C	D	E	E	E	F	F	F	F
26	D	D	F	D	D	E	F	F	C	D	A	B	A	A	A	A	E	E	D	E	D	F	D	F
27	F	F	F	F	E	F	F	E	A	A	B	A	A	C	B	C	F	F	E	F	F	F	F	D
28	E	E	D	F	F	F	D	D	D	D	D	D	D	D	D	D	D	D	E	D	F	D	D	D
29	E	D	D	F	F	D	F	F	A	C	D	D	C	C	D	D	D	D	D	D	E	D	E	F
30	D	E	E	D	D	D	D	E	A	A	D	C	C	C	C	C	F	F	E	D	D	E	F	D

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 720 DATA RECOVERY RATE = 100 %

STABILITY CATEGORY	NUMBER OF OCCURRENCES	PERCENT
A	111	15.4
B	28	3.9
C	46	6.4
D	197	27.3
E	154	21.4
F	184	25.6

MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

SIGMA THETA in DEG for DECEMBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	10	24	28	18	27	19	36	10	26	20	21	33	21	31	15	13	10	11	47	23	11	5	9	12	20	47	5
02	10	7	10	16	11	50	49	11	18	15	8	8	19	35	18	12	19	9	3	5	9	9	7	4	15	50	3
03	52	46	37	42	11	6	6	6	13	8	9	17	48	25	17	11	12	13	4	14	6	18	37	16	20	52	4
04	24	39	47	24	14	12	12	37	16	18	52	41	9	8	7	7	28	17	41	10	24	7	27	8	22	52	7
05	6	4	12	10	24	20	26	11	13	14	29	12	8	9	11	7	6	16	11	8	18	13	8	13	13	29	4
06	15	8	10	31	21	44	5	16	16	17	27	36	19	44	58	13	7	7	11	7	7	9	9	17	19	58	5
07	8	6	39	21	16	35	13	22	29	17	23	19	33	34	17	14	24	21	9	13	12	10	10	20	19	39	6
08	16	10	12	14	9	7	6	47	46	47	13	10	12	42	21	20	16	12	11	25	9	8	39	12	19	47	6
09	16	44	21	14	25	27	15	41	18	14	12	9	10	12	10	8	9	16	9	44	32	34	21	39	21	44	8
10	48	8	11	30	27	35	15	31	27	24	13	17	40	38	17	23	13	5	23	32	11	15	10	17	22	48	5
11	16	32	23	21	12	12	20	16	42	29	22	46	43	46	16	16	9	17	11	7	11	7	8	13	21	46	7
12	7	13	13	18	13	33	32	31	40	24	12	24	14	14	23	29	14	15	10	16	15	25	39	12	20	40	7
13	13	39	19	31	26	6	13	39	31	41	30	40	20	10	7	6	11	8	6	7	13	17	7	8	19	41	6
14	9	9	7	7	28	15	36	43	42	32	57	15	9	11	7	12	24	7	24	28	9	16	24	23	21	57	7
15	51	33	14	9	9	14	9	8	12	20	40	23	21	41	10	33	21	16	12	15	12	29	46	24	22	51	8
16	26	39	27	23	21	16	23	41	13	14	26	31	36	34	44	15	8	13	34	12	13	22	32	38	25	44	8
17	30	37	39	41	32	25	21	34	32	15	22	21	16	14	13	8	11	57	11	11	18	18	10	8	23	57	8
18	10	14	12	25	45	34	38	16	43	18	11	17	22	31	45	9	19	6	16	18	11	17	27	19	22	45	6
19	14	24	16	21	18	24	11	11	30	29	13	10	23	25	15	19	18	11	11	17	19	21	19	13	18	30	10
20	14	16	10	22	7	9	10	0	21	15	16	10	9	15	0	12	18	9	11	9	25	10	9	0	12	25	0
21	17	26	12	0	4	14	16	8	7	13	9	0	0	15	16	20	12	20	12	4	3	4	0	0	10	26	0
22	0	25	13	14	15	0	0	0	0	0	0	0	0	7	17	8	8	11	8	10	6	11	10	39	8	39	0
23	9	14	54	21	24	49	37	17	20	36	31	22	42	12	27	21	10	32	10	14	5	5	5	9	22	54	5
24	9	64	22	23	37	17	11	27	8	23	11	12	15	8	11	14	22	16	8	17	12	8	8	6	17	64	6
25	12	30	26	29	14	28	19	46	16	34	26	19	19	17	30	46	37	16	11	20	23	46	36	18	26	46	11
26	17	10	9	8	12	0	0	0	0	0	1	38	26	52	24	14	10	11	13	44	16	7	10	26	15	52	0
27	24	13	22	22	7	6	8	9	8	14	15	0	14	25	38	27	21	61	10	35	46	21	22	26	21	61	0
28	50	30	22	36	18	50	16	7	8	12	17	19	14	14	11	10	9	13	22	8	9	9	23	13	18	50	7
29	16	12	7	9	24	35	35	12	12	10	13	17	14	13	30	37	16	20	26	34	21	22	25	19	20	37	7
30	31	10	21	10	14	37	19	13	13	41	23	39	33	29	20	59	43	45	44	15	38	27	33	53	30	59	10
31	34	16	22	30	23	21	45	14	11	21	4	20	17	11	22	36	23	37	25	9	11	10	7	12	20	45	4
MEAN	20	23	21	21	19	23	19	20	20	20	20	20	20	23	20	19	16	18	16	17	15	15	19	17	19		
MAX	52	64	54	42	45	50	49	47	46	47	57	46	48	52	58	59	43	61	47	44	46	46	46	53		64	
MIN	0	4	7	0	4	0	0	0	0	0	0	0	0	7	0	6	6	5	3	4	3	4	0	0			0

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 19.3 DEG

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

Stability based on SIGMA THETA for DECEMBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01	D	F	F	F	F	F	F	D	A	B	B	A	B	A	C	C	D	D	F	F	D	E	D	D
02	D	E	D	E	D	F	F	D	B	C	D	D	B	A	B	D	D	D	E	E	D	D	E	E
03	F	F	F	F	D	E	E	E	C	D	D	C	A	B	C	D	D	D	E	D	E	F	F	E
04	F	F	F	F	E	D	D	F	C	B	A	C	D	D	D	D	D	E	F	D	F	E	E	D
05	E	E	D	D	F	D	D	D	C	C	A	D	D	D	D	D	D	D	D	D	E	D	D	D
06	D	D	D	F	F	F	E	D	C	C	A	A	B	A	A	C	E	E	D	E	E	D	D	D
07	D	E	F	F	E	F	E	F	A	C	A	B	A	A	C	C	F	F	D	D	D	D	D	E
08	D	D	D	D	D	D	D	F	A	A	C	D	D	A	B	B	E	D	D	F	D	D	F	D
09	E	F	F	E	F	F	E	F	B	C	D	D	D	D	D	D	D	E	D	F	F	F	F	F
10	F	D	D	F	F	F	E	F	A	A	C	C	A	A	C	A	E	E	F	F	D	E	D	E
11	E	F	F	F	D	D	F	E	A	A	B	A	A	A	C	C	D	E	D	E	D	E	D	E
12	E	E	E	F	E	F	F	F	A	A	D	A	C	C	A	A	E	E	D	E	E	F	F	D
13	D	F	E	F	F	D	D	F	A	A	A	A	B	D	D	D	D	D	E	E	D	D	E	D
14	D	D	E	E	F	E	F	F	A	A	A	C	D	D	D	D	F	E	F	F	D	E	F	F
15	F	F	E	D	D	E	D	D	D	B	A	A	B	A	D	A	F	E	D	D	D	E	F	F
16	F	F	F	F	F	E	F	F	C	C	A	A	A	A	A	C	D	E	F	D	E	F	F	F
17	F	F	F	F	F	F	F	F	A	C	B	B	C	C	C	D	D	F	D	D	F	F	D	D
18	D	E	D	F	F	F	F	E	A	B	D	C	B	A	A	D	F	E	E	F	D	E	F	F
19	E	F	E	F	F	F	D	D	A	A	C	D	A	A	C	B	F	D	D	E	F	F	F	E
20	E	E	D	F	E	D	D	F	B	C	C	D	D	C	D	D	F	D	D	D	F	D	D	F
21	E	F	D	F	F	E	E	D	D	C	D	D	D	C	C	B	D	F	D	E	F	E	F	F
22	F	F	E	E	E	F	F	F	D	D	D	D	D	D	C	D	D	D	D	D	E	D	D	F
23	D	D	F	E	E	F	F	E	B	A	A	B	A	D	A	B	D	F	D	D	E	E	E	D
24	D	F	F	F	F	E	D	F	D	A	D	D	C	D	D	C	F	E	D	E	D	D	D	E
25	D	F	F	F	E	F	F	F	E	A	A	B	B	C	A	A	F	E	D	E	F	F	F	F
26	E	D	D	D	D	F	F	F	F	D	D	A	A	A	A	C	D	D	E	F	E	E	D	F
27	F	E	F	F	E	E	D	D	D	C	C	D	C	A	A	A	F	F	D	F	F	F	F	F
28	F	F	F	F	F	F	E	E	D	D	C	B	C	C	D	D	D	E	F	D	D	D	F	E
29	E	D	E	D	F	F	F	D	D	D	C	C	C	C	A	A	E	F	F	F	F	F	F	F
30	F	D	F	D	E	F	F	E	E	A	A	A	A	A	B	A	F	F	F	E	F	F	F	F
31	F	E	F	F	F	F	F	E	D	B	D	B	C	D	B	A	F	F	F	D	D	D	E	D

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

STABILITY CATEGORY	NUMBER OF OCCURRENCES	PERCENT
A	82	11.0
B	34	4.6
C	58	7.8
D	234	31.4
E	125	16.8
F	211	28.4

MISSING DATA DENOTED BY BLANKS

Appendix B.2
Delta-T

EnergySolutions - Clive, Utah

DELTA T (T10 - T2) in DEG C/METER for JANUARY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX	MIN
01	0.3	0.3	0.3	0.5	0.4	0.2	0.1	0.1	0.0	-0.0	-0.0	-0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	-0.0
02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	-0.0
03	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.2	-0.0
04	0.2	0.2	0.3	0.3	0.2	0.2	0.1	0.2	0.2	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.1	0.4	0.3	0.4	0.1	0.2	0.3	0.1	0.4	-0.0
05	0.2	0.2	0.1	0.1	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.1	0.0	0.0	-0.0	0.0	0.0	0.0	0.2	-0.0
06	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	-0.0
07	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	-0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.2	0.1	0.2	0.1	0.1	0.1	0.3	-0.0
08	0.1	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.0	0.0	0.0	0.0	0.0	-0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.3	-0.0
09	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.1	0.0	0.2	-0.0
10	0.1	0.2	0.1	0.2	0.3	0.3	0.3	0.3	0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.1	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.3	-0.0
11	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.0	0.0	0.2	0.4	0.1	0.2	0.1	0.1	0.1	0.1	0.4	-0.1
12	0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.1	0.1	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.3	-0.0
13	0.1	0.2	0.2	0.1	0.0	0.1	0.1	0.0	0.1	0.0	-0.0	-0.0	-0.1	-0.1	-0.0	-0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.2	-0.1
14	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.1	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.4	0.4	0.3	0.2	0.2	0.2	0.1	0.4	-0.1
15	0.1	0.2	0.3	0.2	0.1	0.1	0.1	0.2	0.1	-0.0	-0.0	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	-0.1
16	0.1	0.1	0.1	0.2	0.3	0.2	0.2	0.3	0.3	-0.0	-0.0	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	0.0	0.2	0.3	0.3	0.2	0.1	0.1	0.1	0.3	-0.1
17	0.1	0.1	0.1	0.2	0.1	0.0	0.1	0.1	0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	-0.0
18	0.1	0.1	0.2	0.2	0.1	0.3	0.2	0.2	0.0	-0.0	-0.1	-0.0	-0.1	-0.1	-0.0	-0.0	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.2	0.1	0.3	-0.1
19	0.1	0.1	0.2	0.3	0.1	0.2	0.2	0.1	0.0	-0.0	-0.1	-0.1	-0.0	-0.1	-0.0	-0.0	-0.0	0.0	0.1	0.1	0.3	0.2	0.1	0.1	0.1	0.3	-0.1
20	0.2	0.1	0.1	0.3	0.2	0.1	0.2	0.1	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.1	-0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.3	-0.1
21	0.2	0.4	0.3	0.2	0.3	0.1	0.1	0.2	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4	-0.0
22	0.1	0.1	0.1	0.1	0.0	0.0	-0.0	0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.1	0.0	-0.0	-0.0	-0.0	0.0	-0.0	0.0	0.0	-0.0	0.0	0.0	0.1	-0.0
23	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	-0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	-0.1
25	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	-0.0	-0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	-0.0
26	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.1	-0.1
27	-0.0	-0.0	0.0	0.0	0.1	0.1	0.0	0.2	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.2	-0.1
28	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	-0.0
29	0.1	0.1	0.1	0.2	0.4	0.3	0.2	0.3	0.1	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.1	0.1	0.4	-0.1
30	0.1	0.3	0.2	0.3	0.2	0.1	0.1	0.2	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.3	-0.0
31	0.1	0.2	0.3	0.2	0.2	0.1	0.1	0.2	0.1	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.3	-0.1
MEAN	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
MAX	0.3	0.4	0.3	0.5	0.4	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.2	0.4	0.4	0.4	0.2	0.2	0.3		0.5	
MIN	-0.0	-0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0			-0.1

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 0.1 DEG

MONTHLY MAXIMUM = 0.5 DEG C/METER ON 1/ 1 AT 400
MONTHLY MINIMUM = -0.1 DEG C/METER ON 1/20 AT 1600

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

Stability based on DELTA T (T10 - T2) and Solar Radiation for JANUARY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01	D	F	F	F	F	F	E	E	E	C	C	D	D	D	D	D	D	D	D	D	D	D	D	D
02	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	F	F	E	D
03	D	D	D	D	D	F	E	D	E	C	C	B	C	C	C	D	D	D	D	D	D	D	D	D
04	F	D	E	F	D	D	D	D	E	C	B	B	B	B	B	B	E	F	F	F	E	D	F	F
05	F	E	D	F	F	F	E	E	E	D	D	D	B	C	C	D	E	F	F	F	F	E	F	F
06	F	F	F	F	F	F	F	F	F	D	D	C	D	D	C	D	D	D	D	D	D	D	D	D
07	D	D	D	D	D	D	D	D	D	D	D	C	C	D	D	C	D	F	F	F	F	F	F	E
08	F	F	F	F	F	F	F	F	F	D	D	D	C	C	B	D	D	D	D	D	F	F	D	D
09	D	D	D	D	D	D	D	D	E	B	C	C	B	B	B	C	D	D	E	E	E	F	F	F
10	F	E	F	F	F	F	F	F	E	C	C	C	C	C	C	C	D	E	D	E	F	F	F	F
11	F	F	D	F	F	F	F	F	F	D	D	B	B	C	C	B	F	F	F	E	F	D	D	D
12	D	D	D	F	F	E	D	D	E	D	C	C	D	C	D	D	D	F	F	F	F	F	D	E
13	E	F	F	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	F
14	F	F	F	F	F	F	E	F	F	B	B	B	B	C	B	B	E	F	F	E	D	D	F	F
15	F	E	F	E	D	E	F	F	D	B	B	B	B	B	B	B	E	F	D	E	D	E	F	F
16	F	F	F	F	F	F	F	F	D	B	C	B	B	B	B	B	E	F	F	E	E	E	D	D
17	D	D	D	F	E	F	F	F	D	D	B	B	B	B	B	D	F	E	F	E	D	E	F	F
18	D	F	F	F	F	E	E	F	D	B	B	B	B	B	B	B	F	F	F	F	F	F	F	F
19	F	F	F	F	D	E	F	F	D	B	B	B	B	B	B	B	E	E	F	F	F	D	D	F
20	E	D	D	F	F	F	F	F	D	B	C	B	B	B	B	B	E	F	F	F	F	D	D	F
21	F	F	F	F	F	F	F	F	D	D	B	B	B	B	B	B	F	F	F	F	F	E	F	D
22	F	F	F	F	F	F	E	F	D	D	D	B	B	C	B	D	D	D	F	D	D	F	E	F
23	D	E	F	F	F	F	F	F	D	D	C	B	B	B	B	B	D	D	F	D	D	D	D	D
24	F	D	F	F	F	E	D	D	D	D	D	D	C	B	B	B	F	E	D	D	D	F	F	E
25	D	F	F	F	D	D	F	E	D	D	D	D	D	D	B	D	D	D	D	D	D	F	D	F
26	F	E	E	D	D	D	D	D	D	D	C	C	D	D	D	D	D	D	D	D	D	D	D	D
27	D	D	F	F	E	F	F	F	D	B	B	B	C	C	C	C	D	D	D	D	D	D	D	D
28	D	D	D	D	D	D	D	D	D	D	D	D	C	C	C	C	E	E	F	F	D	E	D	D
29	D	D	F	F	F	F	F	F	D	C	C	C	C	C	C	C	D	F	F	D	D	D	D	D
30	F	F	F	F	D	D	E	F	D	B	B	B	B	B	B	B	E	F	E	E	D	D	D	E
31	F	F	F	F	F	F	F	F	D	B	B	B	B	C	B	B	E	F	F	E	E	E	D	F

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

STABILITY CATEGORY	NUMBER OF OCCURRENCES	PERCENT
A	0	0.0
B	94	12.6
C	56	7.5
D	283	38.1
E	77	10.3
F	234	31.5

MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

DELTA T (T10 - T2) in DEG C/METER for FEBRUARY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX	MIN
01	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.2	-0.0
02	0.2	0.1	0.2	0.2	0.1	0.2	0.3	0.3	0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.4	0.1	0.1	0.0	0.0	0.0	0.1	0.4	-0.1
03	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-0.0	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.1	-0.1
04	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.0	-0.0	-0.0	-0.1	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.2	-0.1
05	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.1	0.2	0.3	0.1	0.2	0.3	0.1	0.3	-0.0
06	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	-0.0	-0.0	-0.1	-0.1	-0.0	-0.0	-0.0	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.3	-0.1
07	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	-0.1
08	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.1	-0.0	-0.0	-0.0	-0.0	0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	-0.1
09	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	0.0	-0.0	-0.0	-0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.1	0.2	-0.0
10	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	-0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	0.0	-0.1
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	-0.1
13	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	-0.1
14	0.0	0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.4	0.4	0.4	0.3	0.1	0.4	-0.0
15	0.2	0.4	0.8	0.4	0.2	0.1	0.2	0.2	0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.8	-0.1
16	0.3	0.3	0.3	0.4	0.1	0.1	0.1	0.1	0.2	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.1	0.1	0.2	0.0	0.0	0.0	0.1	0.4	-0.0
17	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.1	-0.0
18	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0	0.2	0.3	0.2	0.1	0.1	0.2	0.1	0.3	-0.1
19	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.1	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.2	0.1	0.0	0.1	0.2	0.1	0.1	0.2	-0.1
20	0.1	0.2	0.1	0.1	0.3	0.1	0.2	0.2	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	0.1	0.6	0.4	0.1	0.1	0.1	0.1	0.6	-0.1
21	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.0	-0.0	-0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.2	-0.1
22	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.2	-0.0
23	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.0	-0.0	-0.0	-0.0	-0.1	-0.0	-0.0	-0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.1	0.1	0.3	-0.1
24	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.2	-0.1
25	0.3	0.3	0.1	0.2	0.2	0.2	0.2	0.1	0.1	-0.0	-0.0	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.3	-0.1
26	0.3	0.3	0.3	0.1	0.3	0.2	0.1	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	-0.1
27	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.0	0.0	0.1	0.1	0.0	-0.0	0.1	-0.1
28	0.1	0.2	0.3	0.2	0.3	0.3	0.4	0.2	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.4	-0.1
MEAN	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.0	-0.0	-0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
MAX	0.3	0.4	0.8	0.4	0.3	0.3	0.4	0.3	0.2	0.0	0.0	0.0	-0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.6	0.4	0.4	0.4	0.3		0.8	
MIN	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0			-0.1

POSSIBLE NUMBER OF OBSERVATIONS = 672 ACTUAL NUMBER OF OBSERVATIONS = 672 DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 0.1 DEG

MONTHLY MAXIMUM = 0.8 DEG C/METER ON 2/15 AT 300
MONTHLY MINIMUM = -0.1 DEG C/METER ON 2/26 AT 1400

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

Stability based on DELTA T (T10 - T2) and Solar Radiation for FEBRUARY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01	F	F	F	F	E	F	F	F	D	B	B	B	B	B	B	C	E	F	F	E	D	E	D	D
02	F	F	F	F	F	F	F	F	D	B	B	B	C	B	B	B	E	F	F	D	D	D	D	D
03	D	D	E	D	D	F	F	F	D	B	B	B	B	B	B	B	E	D	D	D	D	D	D	D
04	E	D	D	D	E	D	F	F	D	B	B	B	B	B	B	B	E	E	F	D	D	D	D	D
05	F	F	E	E	F	F	F	F	D	D	D	B	B	B	B	C	D	D	F	F	F	F	D	F
06	F	F	F	F	E	D	D	E	D	D	C	B	C	B	B	B	E	F	D	D	D	E	D	D
07	D	D	E	F	D	F	E	D	D	C	C	C	C	D	D	D	D	D	D	D	D	F	F	D
08	D	D	F	E	F	F	F	F	D	D	C	C	D	D	D	D	D	D	D	D	D	D	D	D
09	D	D	D	D	D	D	D	D	D	D	D	D	B	D	D	C	D	D	D	D	F	F	F	F
10	E	D	D	D	D	F	E	E	D	D	C	D	B	C	C	C	D	D	D	D	E	F	F	F
11	D	D	D	D	D	D	D	E	D	D	B	B	C	C	C	C	E	E	D	D	D	D	D	D
12	E	D	D	D	E	F	F	D	D	C	C	C	C	C	D	C	D	D	E	F	F	D	D	D
13	E	D	D	F	F	F	F	F	D	B	B	C	C	C	C	C	E	D	F	D	D	D	F	D
14	F	D	D	F	F	F	F	E	D	D	C	C	B	D	C	D	D	D	D	D	E	F	F	F
15	F	F	F	E	E	F	E	E	B	C	C	C	C	C	C	C	C	D	D	D	D	D	D	E
16	F	F	F	F	E	F	F	F	D	B	B	B	B	C	C	D	D	E	F	F	F	D	D	D
17	D	D	D	D	D	D	D	D	D	D	D	D	D	C	C	C	C	E	D	D	D	F	F	F
18	E	D	D	D	D	D	D	D	C	C	C	C	C	C	C	C	C	E	F	F	F	F	F	F
19	F	F	F	F	F	F	F	F	B	C	C	C	C	C	C	C	C	E	F	D	D	D	F	E
20	F	F	F	F	F	F	F	F	D	B	B	B	B	C	C	B	B	E	F	F	F	D	D	D
21	D	E	D	D	D	E	E	D	B	B	B	B	B	B	B	B	B	F	D	D	D	D	D	F
22	F	F	F	F	F	F	E	D	D	D	C	B	B	B	B	B	D	E	E	F	E	F	F	F
23	F	F	F	E	D	F	F	E	D	D	B	B	B	C	C	C	C	E	E	D	E	F	F	D
24	D	D	D	D	D	D	D	D	C	D	D	D	D	C	C	C	C	F	D	D	D	D	D	D
25	F	E	F	E	F	D	E	F	D	C	C	D	C	C	C	D	D	D	D	E	D	D	D	D
26	E	E	F	F	F	F	D	D	D	C	D	D	D	D	D	D	D	D	D	D	D	D	D	D
27	D	D	D	D	D	D	D	D	C	D	C	A	B	B	C	C	C	D	D	D	D	D	D	D
28	E	F	F	F	F	F	F	F	B	B	B	A	A	B	B	C	C	D	E	D	D	D	E	F

POSSIBLE NUMBER OF OBSERVATIONS = 672 ACTUAL NUMBER OF OBSERVATIONS = 672 DATA RECOVERY RATE = 100 %

STABILITY CATEGORY	NUMBER OF OCCURRENCES	PERCENT
A	3	0.4
B	77	11.5
C	90	13.4
D	277	41.2
E	68	10.1
F	157	23.4

MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

DELTA T (T10 - T2) in DEG C/METER for MARCH, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX	MIN
01	0.1	0.2	0.2	0.1	0.1	0.1	0.0	0.1	0.0	-0.0	-0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.0	0.2	-0.1
02	0.2	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.3	-0.0
03	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	-0.1
04	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	-0.0	-0.0	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.2	-0.1
05	-0.0	0.0	-0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.1	0.1	0.1	0.1	0.2	0.3	-0.0	0.3	-0.1
06	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.2	-0.1
07	0.1	0.0	0.1	0.1	0.0	0.1	0.2	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.3	0.6	0.2	0.2	0.3	0.1	0.6	-0.1
08	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.2	-0.1
09	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.0	0.1	0.4	0.8	0.0	0.8	-0.0
10	0.6	0.3	0.2	0.0	0.1	0.0	0.1	0.0	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.2	0.3	0.2	0.1	0.1	0.6	-0.1
11	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.2	-0.1
12	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.1	-0.1
13	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.1	0.3	0.3	0.3	0.3	0.1	0.3	-0.1
14	0.3	0.4	0.2	0.5	0.4	0.2	0.4	0.2	0.1	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.2	0.1	0.1	0.2	0.1	0.5	-0.1
15	0.2	0.1	0.2	0.2	0.3	0.2	0.0	0.3	0.3	0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.1	0.3	0.3	0.5	0.2	0.1	0.5	-0.1
16	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	0.0	0.1	0.1	0.1	0.2	0.0	0.2	-0.1
17	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.4	0.3	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.4	-0.1
18	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.1	-0.0	0.0	0.1	0.2	0.2	0.2	0.0	0.2	-0.1
19	0.1	0.1	0.3	0.4	0.5	0.4	0.4	0.4	0.1	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.5	-0.1
20	0.1	0.2	0.2	0.2	0.1	0.4	0.3	0.3	0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.1	0.1	0.2	0.3	0.3	0.1	0.4	-0.1
21	0.3	0.4	0.2	0.1	0.1	0.1	0.4	0.4	0.3	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.0	0.0	0.0	0.0	-0.0	0.1	0.4	-0.1
22	0.0	0.0	0.0	0.1	0.1	0.3	0.2	0.1	0.0	0.0	-0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	-0.1
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.0	0.0	0.1	-0.0	0.1	-0.1
24	0.1	0.4	0.4	0.5	0.4	0.2	0.2	0.2	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.1	0.5	-0.1
25	0.0	0.0	0.0	-0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	-0.1
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.0	0.0	0.1	-0.0	0.1	-0.1
27	0.1	0.2	0.3	0.3	0.2	0.3	0.3	0.3	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.1	0.0	0.4	0.3	0.3	0.2	0.1	0.4	-0.1
28	0.3	0.5	0.5	0.4	0.4	0.5	0.6	0.4	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.6	-0.1
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	-0.0	0.0	-0.1
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.1	0.2	0.0	0.1	-0.0	0.2	-0.1
31	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0	-0.0	0.1	-0.1
MEAN	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0		
MAX	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.4	0.3	0.1	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.0	0.2	0.3	0.6	0.3	0.5	0.8		0.8	
MIN	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0	-0.0			-0.1

POSSIBLE NUMBER OF OBSERVATIONS = 744 **ACTUAL NUMBER OF OBSERVATIONS = 743** **DATA RECOVERY RATE = 99.9 %**

MONTHLY MEAN = 0 DEG

MONTHLY MAXIMUM = 0.8 DEG C/METER ON 3/ 9 AT 2400
MONTHLY MINIMUM = -0.1 DEG C/METER ON 3/15 AT 1400

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

Stability based on DELTA T (T10 - T2) and Solar Radiation for MARCH, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01	F	F	F	F	F	F	E	F	D	B	B	B	B	B	B	B	D	D	D	E	D	D	F	F
02	F	F	F	F	F	F	F	F	D	D	D	B	B	C	C	D	D	E	D	D	D	D	D	D
03	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
04	D	D	D	D	D	D	D	D	C	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
05	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	F
06	D	D	D	D	E	D	D	D	D	D	C	C	C	D	C	D	D	D	D	D	D	D	D	D
07	D	D	D	E	D	F	F	E	B	B	C	B	B	B	C	C	C	D	D	F	F	D	F	F
08	D	D	D	E	D	D	D	D	C	D	D	D	D	D	D	D	D	D	F	D	D	D	D	D
09	D	D	D	D	D	D	D	D	D	D	D	D	D	C	C	C	B	E	F	D	D	D	F	E
10	F	F	F	D	D	D	D	D	D	D	D	B	C	C	C	C	C	D	E	F	F	F	D	D
11	D	F	F	F	D	D	E	D	B	B	B	B	A	A	A	C	C	D	D	D	D	D	D	D
12	D	D	D	D	D	D	D	D	D	D	D	C	B	B	C	D	D	D	D	D	D	D	D	D
13	D	D	D	D	D	F	D	D	C	C		A	A	A	B	B	C	D	D	D	D	D	D	D
14	F	F	F	F	F	E	F	D	D	B	B	B	B	B	B	D	D	D	D	D	D	D	D	D
15	E	F	F	F	F	D	D	D	D	C	C	C	B	D	D	D	D	D	D	D	D	D	E	D
16	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	F	D	D	D
17	D	D	D	D	D	D	F	D	D	B	C	B	B	B	B	B	B	E	D	D	D	D	D	D
18	D	D	D	D	D	D	D	D	D	B	B	A	A	A	A	B	C	D	D	D	D	D	D	D
19	D	D	D	D	F	F	F	D	D	B	B	C	B	B	C	C	C	D	F	D	D	D	D	D
20	D	D	E	D	F	F	F	D	D	B	C	B	A	A	B	A	B	E	E	F	D	D	D	D
21	E	D	F	D	D	D	F	D	D	C	D	D	D	D	D	D	D	D	D	D	D	D	D	D
22	D	E	D	D	F	F	F	D	D	D	D	D	D	D	D	D	C	D	D	D	D	D	E	D
23	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
24	D	F	D	D	E	F	E	D	D	C	B	C	C	C	C	C	C	D	D	D	D	D	D	E
25	D	D	D	D	D	D	D	D	D	D	C	C	C	B	B	C	D	D	D	D	D	D	D	D
26	D	D	D	D	D	D	D	D	D	C	D	D	D	D	D	D	D	D	D	D	D	D	D	D
27	E	D	D	D	F	F	F	D	B	B	B	B	B	B	B	B	B	E	E	F	F	F	F	F
28	E	F	F	F	F	F	F	D	C	D	D	D	D	C	B	B	C	D	D	D	D	D	D	D
29	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
30	D	D	D	D	D	D	D	D	D	D	D	D	B	B	B	B	C	D	D	D	F	E	D	D
31	D	D	D	D	D	D	D	D	D	D	D	D	D	B	D	D	D	D	D	D	D	D	D	D

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 743 DATA RECOVERY RATE = 99.9 %

STABILITY CATEGORY	NUMBER OF OCCURRENCES	PERCENT
A	13	1.7
B	68	9.2
C	55	7.4
D	497	66.9
E	31	4.2
F	79	10.6

MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

DELTA T (T10 - T2) in DEG C/METER for APRIL, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX	MIN
01	0.0	0.0	0.0	-0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.3	0.1	0.1	0.1	-0.0	0.3	-0.1
02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.2	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0	0.0	-0.1	0.0	-0.0	0.0	-0.2
03	0.1	0.1	0.1	-0.0	-0.1	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.0	0.0	0.0	0.0	-0.0	0.1	-0.1
04	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.2	0.3	0.4	0.6	0.0	0.6	-0.1
05	0.6	0.3	0.2	0.3	0.2	0.2	0.4	0.1	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.2	0.3	0.3	0.4	0.1	0.6	-0.1
06	0.3	0.2	0.2	0.6	0.6	0.4	0.8	0.4	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.3	0.2	0.1	0.1	0.1	0.8	-0.1
07	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.2	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.1	0.2	0.1	0.1	0.1	0.1	0.5	-0.1
08	0.2	0.3	0.3	0.2	0.1	0.1	0.1	0.1	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	0.0	-0.0	0.0	0.0	0.3	-0.1
09	0.0	0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.1	0.1	-0.0	0.1	-0.1
10	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.0	0.1	0.1	0.3	0.0	0.3	-0.1
11	0.3	0.1	0.1	0.1	0.0	0.0	0.0	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	-0.1	-0.0	-0.0	0.0	0.0	0.1	0.1	0.0	0.3	-0.1
12	0.2	0.4	0.4	0.3	0.3	0.3	0.5	0.5	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.1	0.2	0.2	0.1	0.5	-0.1
13	0.5	0.6	0.6	0.7	0.2	0.4	0.5	0.4	-0.0	-0.1	-0.1	-0.1	-0.2	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.2	0.1	0.0	0.1	0.1	0.7	-0.2
14	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	0.1	0.0	-0.0	-0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.1	0.0	0.2	-0.1
15	0.1	0.1	0.1	0.0	0.0	-0.0	0.0	0.0	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	-0.0	-0.0	0.0	0.0	-0.0	0.1	-0.1
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.0	-0.0	-0.0	-0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.0	0.1	-0.0
17	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0	0.0	0.2	0.3	0.3	0.2	0.1	0.3	-0.1
18	0.3	0.5	0.2	0.3	0.4	0.3	0.4	0.2	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.3	0.3	0.3	0.2	0.1	0.5	-0.1
19	0.3	0.5	0.3	0.3	0.3	0.3	0.5	0.2	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0	-0.0	0.3	0.6	0.5	0.2	0.2	0.6	-0.1
20	0.3	0.4	0.2	0.4	0.5	0.7	0.2	0.1						-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.3	0.5	0.3	0.3	0.2	0.7	-0.0
21	0.4	0.5	0.2	0.4	0.6	0.4	0.3	0.3	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.3	0.4	0.3	0.6	0.2	0.6	-0.1
22	0.3	0.6	0.2	0.5	0.6	0.4	0.3	0.6	0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.3	0.2	0.1	0.2	0.1	0.6	-0.1
23	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.2	-0.1
24	0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0	-0.0	0.1	-0.1
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.1	-0.0	-0.0	-0.0	-0.1	-0.1	-0.0	0.0	0.2	0.1	0.1	0.0	0.2	-0.1
26	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.1	0.2	0.3	0.2	0.0	0.3	-0.1
27	0.3	0.4	0.3	0.2	0.3	0.5	0.1	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.5	-0.1
28	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.1	0.1	-0.0	0.1	-0.1
29	0.1	0.1	0.2	0.2	0.4	0.2	0.4	0.1	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.2	0.1	0.1	0.1	0.1	0.4	-0.1
30	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.1	0.0	0.0	-0.0	-0.0	0.1	-0.1
MEAN	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.1	0.1	0.1	0.2	0.1		
MAX	0.6	0.6	0.6	0.7	0.6	0.7	0.8	0.6	0.1	0.0	0.1	0.1	0.1	0.0	0.0	-0.0	0.0	0.0	0.0	0.1	0.3	0.6	0.5	0.6		0.8	
MIN	0.0	0.0	-0.0	-0.0	-0.1	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.2	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	-0.1	-0.0			-0.2

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 715 DATA RECOVERY RATE = 99.3 %

MONTHLY MEAN = 0.1 DEG MONTHLY MAXIMUM = 0.8 DEG C/METER ON 4/ 6 AT 700
MONTHLY MINIMUM = -0.2 DEG C/METER ON 4/13 AT 1300

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

Stability based on DELTA T (T10 - T2) and Solar Radiation for APRIL, 2009

HR END / DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01	D	D	D	D	D	D	D	D	D	D	D	B	B	B	B	B	C	D	D	E	F	D	E	D
02	D	D	D	D	D	D	D	D	D	D	D	D	D	C	D	D	D	D	D	D	D	E	D	D
03	D	F	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
04	F	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	D	F
05	F	F	F	F	F	E	D	D	B	C	C	B	B	A	C	B	B	D	D	D	D	D	D	D
06	D	D	D	F	F	F	F	D	B	B	B	A	A	A	A	A	B	D	D	D	E	D	D	D
07	D	E	F	F	F	F	F	D	B	B	C	B	B	B	B	C	C	D	D	D	D	D	D	D
08	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	F	D	D
09	D	D	D	D	D	D	D	D	D	C	C	B	B	B	B	B	B	E	D	D	D	D	D	D
10	D	D	D	D	E	F	D	D	D	B	C	B	B	A	B	C	C	C	D	E	D	D	D	E
11	F	D	D	D	D	D	D	D	D	C	C	C	C	D	D	D	D	D	D	E	D	D	D	D
12	F	E	F	F	D	F	F	D	B	B	A	B	A	A	B	B	C	C	D	D	D	D	F	F
13	F	F	F	F	F	F	F	D	B	C	D	D	C	C	B	B	C	C	D	D	D	D	D	F
14	D	D	D	D	D	D	D	D	D	D	D	D	D	C	C	D	D	D	F	D	D	D	D	F
15	D	E	D	D	D	D	D	D	D	D	D	D	D	D	B	C	C	D	D	D	D	E	F	F
16	D	F	D	F	F	F	D	D	D	D	C	B	B	C	B	B	C	C	F	F	E	F	F	D
17	E	F	F	F	F	F	D	D	D	B	B	A	A	C	D	D	C	D	D	D	D	D	E	F
18	F	D	D	F	F	F	D	D	C	B	A	B	B	B	B	B	C	C	D	F	F	F	F	F
19	F	F	F	E	F	F	D	D	C	C	B	B	A	A	A	A	A	B	E	E	F	D	F	F
20	D	D	F	F	F	F	D	D						A	A	A	A	B	E	F	E	D	D	D
21	D	D	E	F	F	F	D	D	B	B	B	B	A	A	A	A	A	B	E	F	D	F	F	F
22	F	F	F	F	F	F	D	D	B	C	B	B	B	B	B	B	C	D	E	E	D	D	D	D
23	D	D	D	D	D	D	D	D	C	C	D	D	C	D	D	D	D	D	D	D	D	D	F	F
24	D	D	D	D	D	D	D	D	D	D	D	C	C	C	C	D	D	D	D	D	D	D	D	E
25	E	E	D	D	D	D	D	D	D	D	D	D	D	C	D	C	B	C	D	D	E	F	D	D
26	D	D	D	D	D	D	D	D	C	C	B	B	C	C	D	D	D	D	D	D	E	F	E	F
27	F	F	F	F	F	F	D	D	B	C	C	C	C	D	C	D	D	D	D	D	E	D	F	D
28	D	D	D	D	D	D	D	D	C	B	B	A	A	B	B	C	C	D	D	D	D	D	D	D
29	D	F	F	E	D	F	D	D	B	B	B	B	A	A	A	A	B	C	E	D	D	D	D	D
30	D	D	D	D	D	D	D	D	B	C	B	A	A	A	A	B	B	C	D	D	E	D	D	D

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 715 DATA RECOVERY RATE = 99.3 %

STABILITY CATEGORY	NUMBER OF OCCURRENCES	PERCENT
A	37	5.2
B	84	11.7
C	67	9.4
D	384	53.7
E	39	5.5
F	104	14.5

MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

DELTA T (T10 - T2) in DEG C/METER for MAY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX	MIN
01	0.0	-0.0	-0.0	-0.0	0.0	0.0	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.0	0.0	0.0	0.1	-0.0	0.1	-0.1
02	0.1	0.1	0.1	0.1	0.0	0.0	0.0	-0.0	-0.0	-0.0	0.0	0.0	-0.0	-0.0	-0.1	-0.1	-0.0	-0.0	-0.0	0.0	0.0	0.1	0.2	0.1	0.0	0.2	-0.1
03	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0	-0.1	0.0	0.1	0.1	0.0	0.1	-0.1
04	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.0	0.0	0.1	0.0	0.2	-0.1
05	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	-0.1
06	0.2	0.2	0.2	0.3	0.5	0.4	0.3	0.2	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.1	0.1	0.0	0.1	0.5	-0.1
07	0.1	0.1	0.2	0.5	0.3	0.1	0.1	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.0	0.0	0.0	0.5	-0.1
08	0.0	0.0	0.0	0.0	0.1	0.1	0.1	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.1	0.1	-0.0	0.1	-0.1
09	0.2	0.1	0.1	0.1	0.1	0.1	0.1	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.1	0.2	0.0	0.2	-0.1
10	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.1	0.2	0.1	0.0	0.3	-0.1
11	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.3	0.4	0.5	0.2	0.1	0.5	-0.1
12	0.2	0.2	0.2	0.1	0.1	0.5	0.2	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	-0.1
13	0.0	0.0	0.0	0.1	0.1	0.0	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.1	0.1	0.1	0.1	-0.0	0.1	-0.1
14	0.1	0.1	0.1	0.3	0.3	0.1	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.0	0.0	0.0	0.0	0.3	-0.1
15	0.1	0.1	0.2	0.4	0.4	0.5	0.4	0.1	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.1	0.2	0.1	0.5	-0.1
16	0.2	0.2	0.2	0.1	0.1	0.1	0.2	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.1	0.2	0.2	0.3	0.0	0.3	-0.1
17	0.4	0.5	0.6	0.4	0.3	0.4	0.6	0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.1	0.2	0.3	0.3	0.1	0.6	-0.1
18	0.2	0.2	0.2	0.4	0.5	0.6	0.5	0.0	-0.0	-0.1		0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.1	0.2	0.3	0.2	0.1	0.6	-0.1
19	0.1	0.1	0.4	0.4	0.5	0.4	0.1	0.0	-0.0	-0.1	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.1	-0.1	-0.0	0.0	0.1	0.0	0.0	0.1	0.5	-0.1
20	0.2	0.1	0.0	0.1	0.1	0.1	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.0	0.0	0.0	-0.0	0.2	-0.1
21	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.2	0.3	0.2	0.0	0.3	-0.1
22	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.1	0.2	0.1	0.1	0.1	0.3	-0.1
23	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	0.0	0.0	0.0	0.0	0.2	-0.1
24	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.1	0.1	0.1	-0.0	0.1	-0.1
25	0.0	0.0	0.1	0.3	0.3	0.3	0.1	0.0	-0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.2	0.2	0.0	0.3	-0.1
26	0.1	0.1	0.2	0.5	0.3	0.1	0.2	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.2	0.2	0.1	0.5	-0.1
27	0.4	0.3	0.5	0.5	0.6	0.3	0.3	0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.1	0.2	0.3	0.5	0.1	0.6	-0.1
28	0.4	0.7	0.5	0.4	0.4	0.4	0.1	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.1	0.3	0.3	0.4	0.1	0.7	-0.1
29	0.4	0.6	0.6	0.4	0.2	0.3	0.3	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.1	0.1	0.1	0.1	0.6	-0.1
30	0.0	0.1	0.2	0.3	0.4	0.5	0.3	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.1	0.0	0.1	0.0	0.5	-0.1
31	0.1	0.1	0.1	0.3	0.4	0.3	0.1	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.0	0.0	0.0	0.4	-0.1
MEAN	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.1	0.1	0.0		
MAX	0.4	0.7	0.6	0.5	0.6	0.6	0.6	0.2	0.0	-0.0	0.0	0.0	-0.0	-0.0	-0.1	-0.1	-0.0	-0.0	-0.0	0.0	0.3	0.4	0.5	0.5		0.7	
MIN	0.0	-0.0	-0.0	-0.0	0.0	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0			-0.1

POSSIBLE NUMBER OF OBSERVATIONS = 744 **ACTUAL NUMBER OF OBSERVATIONS = 743** **DATA RECOVERY RATE = 99.9 %**

MONTHLY MEAN = 0 DEG

MONTHLY MAXIMUM = 0.7 DEG C/METER ON 5/28 AT 200
MONTHLY MINIMUM = -0.1 DEG C/METER ON 5/30 AT 1600

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

Stability based on DELTA T (T10 - T2) and Solar Radiation for MAY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01	D	D	D	D	D	D	D	D	D	C	B	B	B	A	B	C	D	D	D	F	F	D	D	D
02	D	E	F	D	E	D	D	D	D	D	B	B	A	A	D	B	C	C	D	F	F	F	F	D
03	D	E	D	E	F	F	D	D	D	C	B	B	B	B	B	C	D	D	D	D	D	D	E	D
04	D	D	D	D	D	D	D	D	B	B	A	A	A	B	B	C	B	C	D	E	F	D	D	D
05	D	D	F	E	E	D	D	D	C	C	B	B	C	C	D	D	D	D	D	D	D	D	D	D
06	D	F	D	F	D	F	D	D	B	B	B	D	C	D	D	D	D	D	D	D	D	D	D	D
07	D	D	D	D	D	D	D	D	C	C	B	B	A	B	B	B	B	C	D	D	D	D	D	D
08	D	D	D	D	D	D	D	C	C	C	B	B	B	A	B	B	B	C	D	D	D	D	D	D
09	D	D	D	D	D	D	D	C	B	C	A	A	A	A	B	B	D	D	D	D	D	D	D	D
10	D	D	D	E	F	E	D	C	C	C	B	B	A	B	B	B	C	B	E	E	D	D	D	D
11	D	D	D	D	D	F	D	D	C	C	A	A	B	B	B	A	A	C	D	F	F	F	F	D
12	D	D	D	D	F	F	D	D	C	D	D	C	C	B	C	D	D	D	D	D	D	D	D	D
13	D	D	D	D	D	D	D	D	C	C	B	A	A	B	B	B	C	C	E	E	D	D	D	D
14	D	D	D	F	F	E	D	D	C	C	B	A	A	A	A	B	C	D	D	D	D	D	D	D
15	D	D	D	D	D	D	D	C	C	C	B	B	B	B	B	B	B	C	E	E	D	D	D	D
16	E	D	E	D	E	F	D	C	C	B	A	A	A	A	B	B	B	C	D	D	D	D	D	E
17	D	D	D	D	F	F	D	B	B	B	A	A	A	A	A	B	A	C	D	D	D	D	D	D
18	D	D	D	F	F	F	D	B	B	B		A	A	B	B	B	A	C	D	D	D	F	E	D
19	D	E	D	F	F	E	D	D	C	C	C	D	D	C	C	B	C	D	D	D	F	D	D	D
20	F	D	D	D	D	D	D	D	C	C	B	B	B	B	B	B	B	C	D	D	D	D	D	D
21	D	D	D	D	D	D	D	C	C	C	A	A	A	B	B	B	B	C	D	D	D	D	D	D
22	D	D	E	D	D	D	D	B	D	B	B	A	A	A	B	C	C	D	D	D	D	E	F	F
23	D	D	D	D	D	D	D	D	B	C	C	B	C	B	B	B	C	C	D	D	D	D	D	E
24	F	F	D	F	E	D	D	D	D	D	D	D	C	A	B	B	C	D	D	D	D	D	D	E
25	D	D	E	E	F	F	D	B	B	B	A	A	A	A	A	B	C	D	D	D	D	D	D	F
26	F	E	E	F	F	F	D	B	B	B	A	A	B	B	B	B	B	D	D	D	D	D	E	E
27	E	F	F	E	D	F	D	B	B	B	A	A	A	B	B	B	B	C	D	D	D	D	D	E
28	E	D	D	D	E	F	D	B	B	B	A	B	B	A	A	B	B	C	D	D	D	F	D	D
29	F	F	E	E	D	F	D	B	B	C	A	A	A	A	A	B	B	D	D	D	D	D	D	D
30	D	E	F	F	F	F	D	B	B	C	C	B	B	B	B	D	C	B	D	D	D	D	D	D
31	D	D	F	F	F	F	D	C	C	C	A	A	A	A	B	B	B	B	D	D	D	D	D	D

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 743 DATA RECOVERY RATE = 99.9 %

STABILITY CATEGORY	NUMBER OF OCCURRENCES	PERCENT
A	65	8.7
B	138	18.6
C	81	10.9
D	353	47.5
E	43	5.8
F	63	8.5

MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

DELTA T (T10 - T2) in DEG C/METER for JUNE, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX	MIN
01	0.1	0.1	0.2	0.2	0.2	0.0	0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.2	-0.1
02	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.2	-0.1
03	0.1	0.1	0.1	0.2	0.1	0.2	0.3	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.1	0.1	0.1	0.1	0.0	0.3	-0.1
04	0.1	0.2	0.1	0.1	0.1	0.1	0.0	-0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	0.0	0.0	0.1	0.4	0.3	0.2	0.0	0.4	-0.1
05	0.2	0.2	0.1	0.1	0.2	0.0	0.0	0.0	0.0	-0.1	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	-0.1
06	0.0	0.0	0.1	0.4	0.3	0.1	0.1	-0.0	-0.0	-0.1	-0.1	-0.1	-0.2	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	0.0	0.0	-0.0	0.4	-0.2
07	0.0	0.2	0.3	0.2	-0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.0	0.0	0.3	-0.1
08	0.1	0.0	0.0	0.1	0.0	0.0	0.1	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	-0.1	-0.1	-0.0	-0.0	-0.0	0.0	0.0	-0.0	0.1	-0.2
09	0.0	0.1	0.2	0.1	0.2	0.1	0.2	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	-0.1	-0.1	-0.1	-0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.2	-0.2
10	0.0	0.0	0.1	0.1	0.1	0.1	0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.1	-0.0	-0.0	0.0	0.0	0.0	-0.0	-0.0	0.1	-0.1
11	0.0	0.0	0.1	0.0	0.2	0.2	0.0	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	0.1	0.1	0.2	0.3	0.0	0.3	-0.1
12	0.5	0.2	0.3	0.3	0.3	0.2	0.3	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.0	0.0	0.0	0.1	0.5	-0.1
13	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.1	-0.1
14	0.3	0.5	0.3	0.3	0.4	0.3	0.2	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.1	0.2	0.1	0.5	-0.1
15	0.1	0.2	0.3	0.3	0.2	0.3	0.4	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.1	0.1	0.0	0.4	-0.1
16	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.3	-0.2
17	0.0	0.1	0.1	0.0	0.1	0.1	0.0	0.0	-0.0	-0.0	-0.0	-0.1	0.0	-0.0	-0.1	-0.0	-0.1	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.0	0.0	0.1	-0.1
18	0.0	0.0	0.0	0.1	0.1	0.1	0.0	-0.0	-0.0	-0.1	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.1	0.2	0.2	0.3	0.0	0.3	-0.1
19	0.3	0.5	0.5	0.4	0.4	0.4	0.1	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.1	0.1	0.1	0.1	0.1	0.5	-0.1
20	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.0	-0.0	0.0	0.0	0.1	0.2	0.2	0.0	0.2	-0.1
21	0.3	0.1	0.1	0.1	0.2	0.1	0.2	0.1	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.1	0.0	0.1	0.0	0.3	-0.1
22	0.1	0.1	0.1	0.1	0.1	0.1	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.1	0.1	0.1	-0.0	0.1	-0.1
23	0.1	0.1	0.1	0.1	0.0	0.1	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.1	0.1	0.1	-0.0	0.1	-0.1
24	0.2	0.3	0.3	0.4	0.3	0.4	0.4	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.2	0.2	0.1	0.4	-0.1
25	0.2	0.3	0.3	0.3	0.2	0.4	0.1	0.1	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.0	-0.1	-0.0	-0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.4	-0.1
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.1	-0.0	0.0	0.2	0.1	-0.0	0.2	-0.1
27	0.2	0.3	0.4	0.3	0.3	0.5	0.5	-0.0	-0.1	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.1	0.1	0.3	0.1	0.5	-0.1
28	0.3	0.5	0.4	0.3	0.3	0.5	0.2	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.1	0.2	0.3	0.1	0.5	-0.1
29	0.4	0.7	0.3	0.3	0.2	0.4	0.3	0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.1	0.7	-0.1
30	0.1	0.4	0.6	0.5	0.7	0.9	0.4	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	0.0	0.3	0.4	0.3	0.2	0.9	-0.1
MEAN	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.1	0.1	0.1	0.0		
MAX	0.5	0.7	0.6	0.5	0.7	0.9	0.5	0.1	0.0	-0.0	0.0	-0.0	0.0	-0.0	-0.0	-0.0	-0.0	0.1	0.1	0.1	0.1	0.4	0.4	0.3		0.9	
MIN	0.0	0.0	0.0	0.0	-0.0	0.0	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.1	-0.2	-0.2	-0.1	-0.1	-0.0	-0.0	0.0	-0.0			-0.2

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 720 DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 0 DEG

MONTHLY MAXIMUM = 0.9 DEG C/METER ON 6/30 AT 600

MONTHLY MINIMUM = -0.2 DEG C/METER ON 6/16 AT 1800

MEANS REQUIRE 75% VALID DATA

MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

Stability based on DELTA T (T10 - T2) and Solar Radiation for JUNE, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01	D	F	D	D	D	D	D	C	B	B	A	A	B	B	B	A	C	C	D	D	D	D	D	F
02	D	F	F	F	F	D	D	D	B	B	A	A	A	A	A	B	D	D	D	D	D	D	D	D
03	D	D	E	F	F	F	D	C	B	C	B	B	B	B	B	B	B	C	E	E	D	D	D	E
04	D	F	D	D	D	D	D	C	C	C	B	A	B	B	C	C	D	D	D	D	E	D	D	D
05	D	D	D	D	D	D	D	D	D	C	D	D	D	B	C	D	D	D	D	D	D	D	D	D
06	D	D	F	F	E	D	D	C	C	D	C	C	C	B	B	B	B	C	D	D	D	D	D	D
07	F	F	F	F	D	D	D	D	D	D	C	B	C	B	B	B	C	C	D	D	D	D	D	D
08	D	D	D	E	D	E	D	D	B	C	C	B	B	C	C	D	D	D	D	D	D	D	D	D
09	D	D	F	F	F	F	D	D	B	C	C	B	B	B	B	C	D	D	D	D	D	F	D	D
10	F	F	F	F	F	F	D	D	D	B	C	C	B	B	B	C	D	C	E	E	D	D	E	D
11	D	F	F	F	F	F	D	D	B	B	C	B	C	D	C	C	D	B	D	D	E	E	D	F
12	F	F	F	F	E	F	D	D	B	B	B	C	B	A	A	B	C	C	D	D	D	E	E	D
13	D	D	D	F	E	E	D	D	D	C	C	C	B	D	D	D	D	C	D	D	F	F	F	F
14	F	D	E	F	F	F	D	D	B	B	A	A	A	B	D	C	C	D	D	D	D	D	D	F
15	F	D	E	E	F	F	D	B	C	C	B	A	B	B	B	B	B	C	D	D	D	D	D	D
16	E	D	D	E	E	D	D	D	B	B	A	B	B	B	B	B	D	C	D	D	D	D	D	D
17	D	F	E	D	F	E	D	D	D	B	B	B	C	B	D	D	B	D	D	D	D	D	F	F
18	F	E	F	F	F	F	D	D	C	C	C	B	A	A	B	B	C	C	C	D	D	D	D	F
19	F	F	F	F	F	F	D	B	B	B	C	C	C	C	B	C	B	C	C	D	D	D	D	D
20	D	D	D	D	D	D	D	D	D	C	D	D	D	C	D	D	D	C	C	D	E	F	F	F
21	F	E	E	F	D	D	D	D	B	C	A	A	A	C	C	C	D	D	D	D	D	D	D	D
22	E	D	D	E	E	D	D	C	D	C	B	B	B	B	B	B	B	C	D	D	D	D	D	D
23	D	D	D	D	D	D	D	D	D	C	B	A	A	A	A	B	B	C	B	D	D	D	D	D
24	D	D	D	E	E	F	D	C	C	C	B	A	A	B	A	A	B	C	C	E	D	D	D	D
25	D	D	D	D	D	F	D	D	B	C	C	B	C	B	D	D	B	C	D	F	D	D	D	D
26	D	D	D	D	D	D	D	C	D	D	C	B	B	A	B	C	B	D	D	D	D	D	E	F
27	D	D	E	F	F	F	D	B	B	B	B	A	A	A	B	B	B	C	C	D	D	D	D	D
28	D	D	D	D	D	F	D	C	C	C	B	A	A	A	A	A	B	C	C	D	D	D	D	E
29	D	D	D	D	D	D	D	B	B	B	A	A	B	B	A	A	B	B	B	F	D	D	D	D
30	D	F	F	F	F	D	D	B	C	C	B	C	B	A	B	B	D	D	D	D	D	F	E	F

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 720 DATA RECOVERY RATE = 100 %

STABILITY CATEGORY	NUMBER OF OCCURRENCES	PERCENT
A	43	6.0
B	125	17.4
C	100	13.9
D	325	45.0
E	40	5.6
F	87	12.1

MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

DELTA T (T10 - T2) in DEG C/METER for JULY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX	MIN
01	0.2	0.3	0.2	0.1	0.1	0.0	0.1	0.1	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.0	0.0	0.0	0.3	-0.1
02	0.0	0.1	0.1	0.2	0.2	0.4	0.4	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.1	0.0	-0.0	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.4	-0.1
03	0.0	0.1	0.1	0.2	0.1	0.1	0.2	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.1	0.2	0.1	0.0	0.0	0.2	-0.1
04	0.0	0.0	0.0	0.1	0.1	0.1	0.0	-0.0	0.0	0.0	0.1	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.0	-0.0	0.1	-0.1
05	0.2	0.3	0.2	0.3	0.2	0.1	0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.1	0.1	0.0	0.3	-0.1
06	0.1	0.2	0.4	0.5	0.6	0.1	0.1	0.0	-0.1	-0.1	-0.1	-0.2	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.3	0.3	0.1	0.6	-0.2
07	0.1	0.1	0.1	0.1	0.1	0.2	0.1	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.1	-0.1	-0.1	-0.0	0.1	0.4	0.3	0.3	0.0	0.4	-0.2
08	0.4	0.5	0.5	0.3	0.4	0.2	0.5	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.0	0.0	0.0	0.1	0.5	-0.1
09	0.1	0.1	0.2	0.2	0.1	0.1	0.1	-0.0	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.2	0.2	0.4	0.0	0.4	-0.2
10	0.4	0.1	0.1	0.1	0.1	0.1	0.1	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.1	-0.1	-0.0	-0.0	0.0	0.2	0.1	0.1	0.0	0.4	-0.2
11	0.2	0.4	0.7	0.8	0.5	0.4	0.4	0.3	0.0	-0.0	-0.0	-0.1	-0.1	-0.0	-0.0	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.2	0.3	0.5	0.2	0.8	-0.1
12	0.2	0.4	0.6	0.6	0.6	0.5	0.3	0.1	-0.1	-0.0	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.1	-0.1	-0.0	0.0	0.1	0.2	0.2	0.1	0.1	0.6	-0.2
13	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.0	0.0	0.0	0.0	0.3	-0.1
14	0.0	0.1	0.1	0.1	0.3	0.3	0.5	0.1	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.1	0.2	0.3	0.0	0.5	-0.1
15	0.3	0.4	0.4	0.4	0.3	0.4	0.3	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.3	0.2	0.1	0.4	-0.1
16	0.2	0.2	0.3	0.3	0.5	0.4	0.3	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.1	0.2	0.3	0.4	0.1	0.5	-0.1
17	0.2	0.2	0.4	0.5	0.4	0.4	0.2	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.1	0.3	0.3	0.4	0.1	0.5	-0.1
18	0.5	0.3	0.2	0.3	0.2	0.2	0.4	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	0.0	0.0	0.0	0.0	0.1	0.5	-0.1
19	0.1	0.1	0.1	0.2	0.3	0.4	0.3	0.0	-0.0	-0.1	-0.1	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.1	0.1	0.1	0.1	0.2	0.0	0.4	-0.2
20	0.3	0.2	0.4	0.3	0.5	0.4	0.2	-0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.2	0.3	0.4	0.1	0.5	-0.1
21	0.5	0.4	0.4	0.4	0.5	0.5	0.6	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.1	0.2	0.3	0.2	0.1	0.6	-0.1
22	0.3	0.2	0.4	0.4	0.4	0.5	0.4	0.1	-0.0	-0.1	-0.1	-0.2	-0.2	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.1	0.2	0.3	0.5	0.1	0.5	-0.2
23	0.5	0.3	0.5	0.3	0.7	0.3	0.5	0.2	-0.0	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.0	0.1	0.2	0.1	0.7	-0.2
24	0.1	0.1	0.2	0.3	0.2	0.0	0.1	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.0	0.0	0.0	0.3	-0.1
25	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.0	0.1	-0.0	0.1	-0.1
26	0.1	0.0	0.2	0.2	0.3	0.5	0.5	0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.1	0.2	0.3	0.6	0.1	0.6	-0.1
27	0.1	0.4	0.5	0.3	0.7	0.7	0.3	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.0	0.1	0.1	0.1	0.7	-0.1
28	0.1	0.3	0.2	0.4	0.5	0.2	0.2	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.2	0.3	0.1	0.5	-0.1
29	0.2	0.2	0.3	0.4	0.3	0.3	0.4	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.1	0.3	0.1	0.4	-0.1
30	0.3	0.2	0.1	0.3	0.3	0.2	0.2	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	0.0	0.0	0.1	0.0	0.3	-0.1
31	0.1	0.4	0.2	0.2	0.1	0.1	0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.2	0.3	0.0	0.4	-0.1
MEAN	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.2	0.2	0.1		
MAX	0.5	0.5	0.7	0.8	0.7	0.7	0.6	0.3	0.0	0.0	0.1	-0.0	-0.1	-0.0	-0.0	-0.1	0.0	-0.0	-0.0	0.1	0.1	0.4	0.3	0.6		0.8	
MIN	0.0	0.0	0.0	0.1	0.1	0.0	0.0	-0.0	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.0	0.0			-0.2

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 0.1 DEG

MONTHLY MAXIMUM = 0.8 DEG C/METER ON 7/11 AT 400
MONTHLY MINIMUM = -0.2 DEG C/METER ON 7/10 AT 1500

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

Stability based on DELTA T (T10 - T2) and Solar Radiation for JULY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01	D	F	D	D	D	D	D	D	B	B	B	B	A	A	C	B	C	C	D	D	D	D	D	D
02	D	D	D	F	F	F	D	B	C	C	C	A	C	D	D	D	D	D	D	D	D	D	D	D
03	D	F	D	D	F	F	D	C	C	C	B	B	A	A	A	B	C	C	C	D	F	E	D	D
04	D	D	D	D	D	D	D	D	D	D	D	C	B	C	B	A	A	C	D	D	D	D	D	D
05	F	F	F	E	D	D	D	C	C	C	B	B	B	B	B	B	B	C	C	D	D	D	D	D
06	D	E	E	F	D	D	D	C	C	C	D	C	C	B	B	B	B	C	D	D	D	D	D	D
07	D	D	D	D	D	D	D	C	C	B	A	A	B	C	C	B	C	C	D	D	D	D	D	D
08	D	D	E	D	F	D	D	B	B	C	B	B	B	B	B	B	B	C	C	D	D	D	D	D
09	D	D	D	D	D	D	D	C	C	C	B	B	B	B	B	B	A	C	C	D	D	D	D	D
10	D	D	D	D	D	D	D	C	C	C	B	B	B	B	C	C	B	C	B	D	D	D	D	D
11	D	E	F	F	E	F	D	D	D	B	B	D	D	D	C	B	C	B	D	D	E	D	D	D
12	E	F	F	E	D	D	D	D	B	C	C	C	C	C	B	C	D	D	D	D	D	D	D	D
13	D	D	D	F	E	D	D	B	C	D	B	B	B	A	B	B	B	C	D	D	D	D	D	D
14	D	D	D	D	D	D	D	B	B	B	B	B	A	A	A	B	B	B	D	D	D	D	D	E
15	E	D	D	D	D	D	D	C	B	B	A	A	A	A	A	A	A	B	D	D	D	D	D	D
16	D	D	E	F	D	D	D	C	C	C	A	A	A	A	A	B	B	C	D	D	D	D	D	D
17	D	D	E	F	D	D	D	B	B	B	A	B	A	A	B	B	B	C	D	D	D	D	D	D
18	D	D	E	D	D	D	D	C	C	C	A	B	B	B	C	C	C	C	D	D	D	D	D	D
19	D	D	D	D	F	F	D	C	C	D	C	B	B	B	A	B	B	C	D	D	D	D	D	D
20	D	F	F	F	F	F	D	D	B	B	A	B	A	A	C	B	B	C	D	D	D	D	D	D
21	D	D	E	D	F	F	D	D	B	C	B	B	A	A	A	B	B	C	D	D	D	D	D	D
22	F	D	F	F	F	F	D	B	C	C	C	B	B	B	B	B	B	C	D	E	E	D	D	F
23	F	D	E	E	E	D	D	D	B	C	B	B	B	B	B	B	B	C	D	D	D	D	E	D
24	D	E	F	E	F	D	D	D	C	C	C	B	B	A	B	A	B	C	D	D	D	D	D	D
25	D	F	F	D	D	D	D	D	C	B	B	A	A	A	A	B	C	B	D	D	D	D	D	D
26	E	D	F	F	F	F	D	D	B	B	A	A	A	A	A	B	B	C	E	E	E	F	F	E
27	E	E	F	F	F	F	D	B	C	C	B	B	A	B	B	B	C	C	D	D	D	D	D	D
28	D	D	F	D	D	E	D	D	C	C	A	B	B	B	B	B	B	C	D	D	D	D	D	D
29	D	D	D	D	F	F	D	D	C	C	B	B	B	B	B	C	B	C	D	D	D	D	D	D
30	D	D	D	D	D	D	D	D	B	B	A	B	B	B	B	B	B	C	D	D	D	D	D	D
31	D	F	D	D	D	D	D	D	C	C	B	B	B	B	B	B	B	C	D	D	D	D	D	D

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

STABILITY CATEGORY	NUMBER OF OCCURRENCES	PERCENT
A	52	7.0
B	157	21.1
C	106	14.2
D	341	45.9
E	33	4.4
F	55	7.4

MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

DELTA T (T10 - T2) in DEG C/METER for AUGUST, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX	MIN
01	0.3	0.3	0.3	0.4	0.3	0.3	0.4	0.1	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.1	0.2	0.2	0.2	0.1	0.4	-0.1
02	0.2	0.2	0.4	0.6	0.7	0.4	0.6	0.2	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.1	0.2	0.2	0.3	0.1	0.7	-0.1
03	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	-0.0	-0.1	-0.1	-0.1	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.1	0.2	0.1	0.1	0.0	0.2	-0.2
04	0.2	0.2	0.2	0.1	0.2	0.5	0.1	0.1	-0.0	-0.0	-0.1	-0.2	-0.2	-0.2	-0.2	-0.1	-0.1	-0.1	-0.0	0.1	0.3	0.5	0.2	0.2	0.1	0.5	-0.2
05	0.2	0.2	0.5	0.5	0.2	0.2	0.3	0.3	-0.0	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.5	-0.2
06	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	-0.0	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	0.0	0.1	0.1	-0.0	0.2	-0.2
07	0.1	0.3	0.3	0.4	0.6	0.6	0.5	0.2	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.0	0.0	0.0	0.1	0.6	-0.1
08	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.2	0.2	0.2	-0.0	0.2	-0.1
09	0.2	0.3	0.2	0.4	0.4	0.3	0.3	0.1	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.1	0.3	0.1	0.4	-0.1
10	0.3	0.4	0.5	0.7	0.4	0.3	0.5	0.2	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.1	0.2	0.2	0.3	0.1	0.7	-0.1
11	0.4	0.4	0.5	0.6	0.3	0.2	0.3	0.3	-0.0	-0.1	-0.1	-0.1	-0.1	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.2	0.3	0.2	0.3	0.1	0.6	-0.2
12	0.3	0.4	0.4	0.6	0.6	0.4	0.4	0.3	-0.0	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.1	-0.1	-0.1	-0.1	0.0	0.5	0.6	0.3	0.3	0.2	0.6	-0.2
13	0.2	0.4	0.6	0.4	0.5	0.2	0.1	0.1	0.0	-0.0	-0.1	-0.1	-0.2	-0.2	-0.2	-0.1	-0.1	-0.0	-0.1	0.0	0.2	0.2	0.1	0.0	0.1	0.6	-0.2
14	0.1	0.2	0.3	0.4	0.5	0.1	0.1	0.0	-0.0	-0.1	-0.1	-0.1	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.0	0.0	0.0	0.5	-0.2
15	0.0	0.1	0.2	0.2	0.1	0.0	0.0	0.0	-0.1	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.2	0.4	0.3	0.2	0.0	0.4	-0.1
16	0.3	0.3	0.2	0.2	0.3	0.3	0.5	0.2	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.1	0.3	0.3	0.3	0.1	0.5	-0.1
17	0.3	0.3	0.3	0.4	0.5	0.4	0.4	0.4	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.3	0.4	0.1	0.5	-0.1
18	0.3	0.2	0.4	0.3	0.2	0.2	0.2	0.1	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.2	-0.1	-0.1	-0.1	-0.0	0.0	0.3	0.5	0.6	0.4	0.1	0.6	-0.2
19	0.5	0.3	0.7	0.8	0.8	0.7	0.6	0.3	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.2	0.3	0.4	0.4	0.2	0.8	-0.1
20	0.2	0.2	0.3	0.3	0.2	0.6	0.7	0.2	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.1	0.2	0.3	0.6	0.1	0.7	-0.1
21	0.6	0.5	0.5	0.4	0.7	0.9	0.6	0.5	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.2	0.3	0.3	0.4	0.2	0.9	-0.1
22	0.4	0.7	0.6	0.7	0.4	0.7	0.4	0.2	-0.0	-0.1	-0.1	-0.1	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.7	-0.2
23	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.2	-0.1	0.0	-0.0	0.0	0.1	-0.0	0.1	-0.2
24	0.1	0.0	0.0	0.2	0.2	0.5	0.4	0.2	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.1	0.0	0.2	0.3	0.1	0.5	-0.1
25	0.5	0.3	0.2	0.2	0.3	0.3	0.2	0.1	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.1	0.1	0.1	0.2	0.1	0.5	-0.1
26	0.3	0.4	0.2	0.5	0.4	0.6	0.5	0.3	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.1	0.2	0.2	0.4	0.1	0.6	-0.1
27	0.4	0.5	0.5	0.4	0.3	0.5	0.7	0.3	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.2	0.5	0.3	0.5	0.2	0.7	-0.1
28	0.5	0.7	0.2	0.4	0.5	0.8	0.6	0.5	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.2	0.2	0.3	0.4	0.2	0.8	-0.1
29	0.3	0.3	0.5	0.6	0.6	0.6	0.3	0.2	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.2	0.3	0.2	0.3	0.2	0.6	-0.1
30	0.3	0.3	0.5	0.4	0.3	0.5	0.7	0.4	-0.0	-0.0	-0.1	-0.1	-0.1	-0.2	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.4	0.1	0.0	0.0	0.1	0.7	-0.2
31	0.0	0.0	0.1	0.2	0.1	0.3	0.2	0.3	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.3	0.2	0.3	0.3	0.1	0.3	-0.1
MEAN	0.2	0.3	0.3	0.4	0.3	0.4	0.4	0.2	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.1	0.2	0.2	0.2	0.1		
MAX	0.6	0.7	0.7	0.8	0.8	0.9	0.7	0.5	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.5	0.6	0.6	0.6		0.9	
MIN	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	-0.1	-0.0	-0.0	0.0	0.0			-0.2

POSSIBLE NUMBER OF OBSERVATIONS = 744 **ACTUAL NUMBER OF OBSERVATIONS = 744** **DATA RECOVERY RATE = 100 %**

MONTHLY MEAN = 0.1 DEG

MONTHLY MAXIMUM = 0.9 DEG C/METER ON 8/21 AT 600
MONTHLY MINIMUM = -0.2 DEG C/METER ON 8/ 4 AT 1300

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

Stability based on DELTA T (T10 - T2) and Solar Radiation for AUGUST, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01	D	D	D	D	D	D	D	D	B	B	B	A	A	A	B	B	B	C	D	D	D	D	D	D
02	D	E	F	F	F	F	D	D	B	B	C	B	A	A	A	B	B	C	D	E	D	D	D	D
03	D	D	D	D	D	D	D	D	C	D	D	C	B	B	B	B	C	D	D	D	D	D	D	D
04	D	D	D	D	D	E	D	D	C	C	C	C	C	C	C	B	C	B	E	E	D	D	D	D
05	D	D	F	D	D	E	D	D	B	C	C	B	C	C	D	D	D	D	D	D	D	D	D	D
06	D	D	D	D	E	D	D	D	B	D	D	D	C	C	C	D	D	D	D	D	D	D	D	D
07	D	D	D	D	E	D	D	D	C	C	B	B	B	B	A	B	C	D	D	D	D	D	D	D
08	D	D	D	D	D	D	D	D	D	C	C	C	B	B	B	B	C	C	D	D	D	D	D	D
09	D	D	D	D	D	D	D	D	B	B	A	A	A	A	B	B	B	C	D	D	D	D	E	E
10	D	D	D	D	E	F	D	D	B	B	A	A	A	A	B	B	B	C	D	D	D	D	D	D
11	D	D	D	D	D	D	D	D	B	C	B	B	A	A	B	B	B	C	D	E	F	D	D	D
12	D	D	D	F	E	D	D	D	B	B	C	B	B	B	B	B	B	C	D	F	F	D	E	D
13	D	D	D	F	D	D	D	D	D	D	B	A	B	B	B	B	D	C	D	D	F	D	D	D
14	D	F	D	F	F	D	D	D	C	D	C	B	B	B	B	B	C	C	D	D	D	D	D	D
15	D	D	D	D	D	D	D	D	D	C	C	C	C	C	B	B	B	C	D	D	F	D	D	D
16	D	D	D	D	D	D	D	D	B	B	A	A	A	B	B	B	B	C	D	D	D	D	D	D
17	E	D	D	D	E	E	D	D	C	C	A	A	A	A	A	B	B	C	D	D	D	D	D	D
18	D	F	E	D	D	F	D	D	B	B	B	A	B	B	B	B	B	C	E	F	F	F	F	E
19	F	F	F	F	F	F	D	D	B	C	B	A	A	A	A	B	B	C	D	E	D	D	D	D
20	D	D	D	D	F	F	D	D	B	B	A	A	A	A	A	B	A	C	D	D	D	D	D	D
21	D	D	E	F	F	F	D	D	B	B	B	B	A	A	A	B	B	C	D	D	D	D	D	D
22	D	F	F	F	F	D	D	D	B	C	B	C	D	C	B	B	C	C	E	E	D	D	D	D
23	D	D	D	D	D	E	D	D	D	D	D	D	D	D	D	D	D	D	D	E	D	D	E	D
24	D	D	D	E	F	F	D	D	D	D	B	A	A	A	C	B	B	C	D	D	D	D	F	F
25	D	F	F	F	F	F	D	D	D	B	A	A	A	B	B	B	C	C	D	D	D	D	D	D
26	D	D	D	F	F	F	D	D	C	C	B	A	B	A	B	B	B	C	E	D	D	D	D	D
27	D	D	D	D	E	F	D	D	C	C	C	A	A	A	B	B	C	C	D	D	F	E	D	D
28	D	D	D	E	F	F	D	D	B	C	B	A	A	A	B	B	B	C	D	D	D	D	D	D
29	D	D	D	F	F	F	D	D	D	B	B	B	B	A	B	B	C	C	D	D	D	D	D	D
30	D	F	F	F	D	F	F	D	B	B	B	B	B	B	D	D	D	D	D	D	D	D	D	D
31	D	D	D	D	D	F	D	D	B	C	B	A	A	B	B	B	C	B	E	E	E	D	D	D

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

STABILITY CATEGORY	NUMBER OF OCCURRENCES	PERCENT
A	57	7.7
B	136	18.3
C	78	10.5
D	376	50.5
E	35	4.7
F	62	8.3

MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

DELTA T (T10 - T2) in DEG C/METER for SEPTEMBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX	MIN
01	0.3	0.3	0.3	0.2	0.2	0.3	0.5	0.3	0.0	-0.0	-0.1	-0.1	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.2	0.2	0.3	0.2	0.1	0.5	-0.2
02	0.3	0.2	0.3	0.4	0.3	0.3	0.4	0.4	0.2	-0.0	-0.1	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.3	0.3	0.3	0.2	0.1	0.4	-0.1
03	0.3	0.6	0.3	0.4	0.5	0.2	0.2	0.4	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.2	0.3	0.5	0.7	0.2	0.7	-0.1
04	0.3	0.6	0.3	0.3	0.3	0.4	0.4	0.5	0.1	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.6	-0.1
05	0.1	0.1	0.2	0.3	0.4	0.4	0.1	0.1	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.4	-0.1
06	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.0	-0.0	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.1	-0.1	-0.0	0.0	0.2	0.1	0.1	0.0	0.0	0.2	-0.2
07	0.1	0.2	0.4	0.2	0.2	0.3	0.2	0.2	-0.0	-0.1	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.4	-0.1
08	0.1	0.2	0.1	0.2	0.3	0.2	0.2	0.2	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.1	0.1	0.1	0.2	0.0	0.3	-0.1
09	0.3	0.3	0.3	0.5	0.9	0.6	0.5	0.7	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	-0.1	-0.1	-0.0	-0.0	0.1	0.2	0.2	0.4	0.2	0.2	0.9	-0.2
10	0.2	0.2	0.3	0.5	0.6	0.8	0.4	0.4	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.1	0.4	0.2	0.6	0.4	0.2	0.8	-0.1
11	0.3	0.4	0.3	0.3	0.3	0.2	0.1	0.3	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.1	0.3	0.3	0.2	0.2	0.1	0.4	-0.1
12	0.4	0.3	0.2	0.3	0.3	0.2	0.4	0.4	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.1	0.2	0.4	0.4	0.5	0.1	0.5	-0.1
13	0.3	0.4	0.3	0.3	0.5	0.2	0.8	0.3	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.8	-0.1
14	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	-0.0	-0.1	-0.1	-0.0	-0.1	-0.0	-0.0	0.1	-0.0	-0.0	0.1	0.1	0.1	0.2	0.4	0.1	0.4	-0.1
15	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	0.0	0.1	0.3	0.3	0.2	0.1	0.3	-0.1
16	0.2	0.3	0.3	0.4	0.3	0.1	0.3	0.2	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.1	0.3	0.3	0.2	0.4	0.1	0.4	-0.1
17	0.4	0.6	0.4	0.2	0.4	0.6	0.4	0.5	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.1	0.1	0.2	0.2	0.4	0.1	0.6	-0.1
18	0.5	0.4	0.6	0.4	0.3	0.4	0.4	0.2	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.2	0.2	0.3	0.3	0.4	0.2	0.6	-0.1
19	0.3	0.6	0.6	0.4	0.7	0.7	0.4	0.6	0.0	-0.1	-0.1	-0.1	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.1	0.2	0.3	0.1	0.2	0.7	-0.2
20	0.2	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.2	-0.1
21	0.2	0.4	0.2	0.1	0.1	0.1	0.1	0.1	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.1	0.4	0.8	0.8	0.2	0.1	0.8	-0.1
22	0.5	0.3	0.4	0.6	0.3	0.5	0.7	0.8	0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.1	0.5	0.5	0.6	0.6	0.2	0.8	-0.1
23	0.7	0.7	0.3	0.4	0.7	0.5	0.5	0.4	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.2	0.4	0.7	0.6	0.4	0.2	0.7	-0.1
24	0.3	0.6	0.4	0.5	0.4	0.5	0.5	0.5	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.2	0.3	0.6	1.0	0.6	0.2	1.0	-0.1
25	0.4	0.4	0.7	0.8	0.7	0.3	0.5	0.6	0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.5	0.5	0.3	0.6	0.5	0.3	0.8	-0.1
26	0.7	0.6	0.8	0.6	0.6	0.5	0.6	0.6	0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.8	-0.1
27	0.5	0.7	0.6	0.6	0.9	0.6	0.7	0.6	0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.2	0.4	0.8	0.7	0.3	0.9	-0.1
28	0.3	0.3	0.4	0.4	0.5	0.2	0.5	0.6	0.1	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.2	0.2	0.1	0.1	0.1	0.1	0.6	-0.1
29	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	0.0	0.2	-0.1
30	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.1	-0.0	-0.0	-0.0	-0.0	-0.1	-0.0	-0.0	-0.1	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.1	-0.0	0.1	-0.1
MEAN	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.1	0.2	0.3	0.3	0.3	0.1		
MAX	0.7	0.7	0.8	0.8	0.9	0.8	0.8	0.8	0.2	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.1	0.1	0.1	0.1	0.5	0.5	0.8	1.0	0.7		1.0	
MIN	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.1	-0.0	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.1	-0.1	-0.1	0.0	0.0	0.0	-0.0	-0.0			-0.2

POSSIBLE NUMBER OF OBSERVATIONS = 720 **ACTUAL NUMBER OF OBSERVATIONS = 720** **DATA RECOVERY RATE = 100 %**

MONTHLY MEAN = 0.1 DEG

MONTHLY MAXIMUM = 1.0 DEG C/METER ON 9/24 AT 2300
MONTHLY MINIMUM = -0.2 DEG C/METER ON 9/ 6 AT 1500

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

Stability based on DELTA T (T10 - T2) and Solar Radiation for SEPTEMBER, 2009

HR END / DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01	D	D	D	D	F	F	F	D	B	B	C	C	B	B	B	B	C	B	E	E	D	D	D	D
02	D	D	D	D	D	F	E	D	D	B	C	B	A	B	B	B	C	C	D	D	D	D	D	D
03	E	F	E	F	E	D	E	D	B	B	B	C	B	B	A	B	B	D	D	D	D	E	F	E
04	F	F	F	F	E	F	F	D	B	B	C	B	A	A	B	B	D	D	D	D	D	D	D	D
05	D	D	F	F	F	D	D	D	D	D	D	C	D	D	D	D	D	D	D	D	D	D	D	E
06	D	D	D	D	D	D	F	D	D	D	D	D	D	C	B	C	D	D	D	D	D	D	D	D
07	D	F	E	D	D	E	E	D	B	C	B	A	B	B	B	B	C	D	D	D	D	D	D	D
08	D	D	D	D	D	D	D	D	C	C	D	B	B	B	B	B	C	D	D	D	D	D	D	D
09	D	D	D	F	F	F	F	D	C	C	C	B	B	B	B	B	C	E	D	D	D	D	D	D
10	D	D	F	F	F	F	F	D	B	B	B	A	A	A	B	C	C	D	D	D	D	D	D	D
11	D	D	D	D	D	E	E	D	C	C	B	A	A	B	B	B	C	D	D	D	D	D	F	E
12	D	E	E	D	D	E	F	D	C	B	B	A	A	A	A	B	C	D	D	D	D	E	E	E
13	F	D	D	E	E	E	F	D	D	C	D	D	C	D	D	D	D	D	D	D	D	D	D	D
14	D	D	D	D	D	D	D	D	C	D	D	D	D	C	B	D	D	D	D	D	D	E	F	E
15	F	F	F	F	F	F	F	D	D	B	B	B	A	A	B	C	C	D	D	F	E	F	D	F
16	F	F	F	F	F	F	F	D	B	B	B	A	A	B	B	B	C	D	D	D	D	E	D	D
17	D	D	F	F	F	F	F	D	C	C	C	A	A	B	B	A	B	E	E	E	D	D	D	D
18	D	E	F	F	F	F	F	D	B	C	C	B	A	A	B	B	C	E	E	E	D	D	D	D
19	F	F	F	F	E	E	F	D	B	B	C	D	D	B	B	B	C	D	D	D	D	D	F	D
20	D	D	D	D	D	D	F	D	D	C	D	B	B	C	B	B	D	D	D	D	D	D	D	D
21	D	D	D	D	D	D	D	D	C	D	D	D	C	C	C	B	D	D	D	E	F	F	E	F
22	D	E	D	D	E	F	F	D	B	C	B	A	B	B	B	C	C	D	D	F	F	D	E	F
23	D	D	F	F	F	F	F	D	B	C	B	A	B	B	B	B	C	D	D	D	F	F	E	E
24	E	D	F	E	F	F	F	D	B	C	C	A	B	A	B	B	B	E	D	D	F	E	D	E
25	F	F	F	F	F	E	F	D	B	B	B	A	A	A	A	B	B	E	F	D	F	E	F	F
26	F	F	F	E	F	F	F	D	B	B	C	B	B	B	B	C	C	D	D	D	D	D	D	D
27	D	D	F	F	F	F	F	D	C	B	B	A	B	B	B	B	C	D	E	D	D	D	D	D
28	D	E	D	F	E	F	F	D	D	B	C	B	A	B	B	C	D	D	D	D	D	D	D	D
29	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
30	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 720 DATA RECOVERY RATE = 100 %

STABILITY CATEGORY	NUMBER OF OCCURRENCES	PERCENT
A	33	4.6
B	117	16.2
C	62	8.6
D	339	47.1
E	59	8.2
F	110	15.3

MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

DELTA T (T10 - T2) in DEG C/METER for OCTOBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX	MIN
01	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.4	0.1	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.1	0.6	0.6	0.4	0.5	0.1	0.6	-0.1
02	0.5	0.4	0.2	0.3	0.5	0.5	0.5	0.6	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.1	0.2	0.1	0.0	0.1	0.6	-0.1
03	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.2	0.1	0.2	0.1	0.0	0.0	0.2	-0.1
04	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.3	0.3	0.3	0.0	0.3	-0.1
05	0.2	0.1	0.3	0.2	0.3	0.2	0.1	0.2	0.2	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.1	0.2	0.3	0.3	0.2	0.1	0.3	-0.1
06	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1						-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.1	0.4	0.2	0.5	0.8	0.2	0.8	-0.1
07	0.8	0.5	0.4	0.3	0.5	0.3	0.3	0.4	0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.3	0.8	0.2	0.2	0.4	0.2	0.8	-0.1
08	0.5	0.5	0.6	0.6	0.7	0.7	0.5	0.4	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.3	0.5	0.7	0.5	0.4	0.3	0.7	-0.1
09	0.5	0.6	0.5	0.6	0.5	0.6	0.5	0.5	0.2	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.3	0.2	0.1	0.3	0.2	0.6	-0.1
10	0.1	0.2	0.2	0.2	0.2	0.5	0.4	0.4	0.1	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.2	0.3	0.2	0.2	0.2	0.1	0.5	-0.1
11	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.1	-0.1
12	0.1	0.2	0.2	0.2	0.4	0.5	0.5	0.5	0.3	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.5	-0.1
13	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	-0.1
14	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.0	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.0	0.3	0.2	0.2	0.1	0.6	0.1	0.6	-0.1
15	0.5	0.5	0.2	0.1	0.2	0.3	0.3	0.2	0.4	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.1	0.3	0.3	0.4	0.3	0.5	0.2	0.5	-0.1
16	0.4	0.4	0.4	0.5	0.6	0.4	0.3	0.4	0.1	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.2	0.4	0.4	0.3	0.3	0.2	0.6	-0.1
17	0.4	0.4	0.5	0.8	0.5	0.4	0.7	0.4	0.2	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.2	0.4	0.2	0.2	0.3	0.2	0.8	-0.1
18	0.4	0.4	0.4	0.2	0.4	0.3	0.3	0.4	0.3	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.2	0.3	0.1	0.2	0.1	0.2	0.2	0.4	-0.1
19	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.3	0.2	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.0	0.0	0.0	0.0	-0.0	0.0	0.0	0.3	-0.1
20	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.0	0.2	-0.1
21	0.2	0.3	0.2	0.2	0.3	0.3	0.4	0.3	0.2	-0.0	-0.0	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	0.0	0.1	0.1	0.0	0.1	0.3	0.5	0.1	0.5	-0.1
22	0.4	0.3	0.2	0.3	0.4	0.5	0.1	0.1	0.1	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.1	0.5	0.3	0.3	0.3	0.4	0.2	0.5	-0.1
23	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	-0.1
24	0.0	0.0	0.1	0.2	0.4	0.2	0.1	0.1	0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4	-0.0
25	0.2	0.2	0.2	0.5	0.4	0.2	0.2	0.2	0.1	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	0.1	0.2	0.2	0.3	0.3	0.6	0.1	0.6	-0.1
26	0.4	0.4	0.6	0.5	0.5	0.4	0.5	0.3	0.1	-0.0	-0.1	-0.1	-0.1	-0.0	-0.1	-0.1	-0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.6	-0.1
27	0.1	0.0	0.0	0.0	-0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.0	-0.1	-0.0	0.0	0.0	0.0	0.0	-0.0	0.0	-0.0	0.1	-0.1
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	-0.1
29	0.2	0.2	0.1	0.1	0.2	0.5	0.4	0.4	0.4	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.5	-0.1
30	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.0	-0.1	-0.1	-0.0	0.0	0.1	0.0	0.1	0.0	0.2	0.0	0.2	-0.1
31	0.2	0.3	0.4	0.4	0.5	0.3	0.5	0.6	0.4	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.1	0.6	0.6	0.2	0.4	0.3	0.2	0.6	-0.1
MEAN	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.1	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.2	0.2	0.2	0.2	0.3	0.1		
MAX	0.8	0.6	0.6	0.8	0.7	0.7	0.7	0.6	0.4	0.0	0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.2	0.6	0.8	0.7	0.5	0.8		0.8	
MIN	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	-0.0	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.0	-0.0	0.0			-0.1

POSSIBLE NUMBER OF OBSERVATIONS = 744 **ACTUAL NUMBER OF OBSERVATIONS = 739** **DATA RECOVERY RATE = 99.3 %**

MONTHLY MEAN = 0.1 DEG

MONTHLY MAXIMUM = 0.8 DEG C/METER ON 10/ 6 AT 2400
MONTHLY MINIMUM = -0.1 DEG C/METER ON 10/12 AT 1500

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

Stability based on DELTA T (T10 - T2) and Solar Radiation for OCTOBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01	D	D	D	E	F	F	F	D	B	B	C	B	B	A	B	C	B	D	E	F	E	F	F	F
02	E	E	E	D	F	F	F	D	B	B	B	A	A	A	A	B	C	D	D	D	E	D	D	D
03	D	D	D	E	F	F	F	D	D	C	C	C	C	C	C	C	C	D	D	D	D	D	D	D
04	D	F	F	E	D	D	D	D	D	D	D	D	D	D	D	C	D	D	D	D	D	E	F	F
05	F	E	F	F	F	F	D	D	D	C	C	B	B	B	B	C	C	D	D	D	D	D	D	D
06	D	D	D	D	D	D	D	D						B	B	C	C	D	D	D	D	D	D	D
07	D	F	F	F	D	D	E	D	D	C	B	B	A	A	A	C	C	E	F	F	F	F	D	F
08	F	F	F	F	F	D	F	D	D	D	C	C	C	D	D	D	D	D	D	D	F	D	D	F
09	F	F	F	F	F	F	F	D	D	D	D	D	C	B	B	C	D	E	D	D	D	D	D	D
10	D	D	E	D	F	F	F	D	D	B	B	C	B	B	B	B	E	E	E	F	F	D	D	D
11	D	D	D	D	D	E	D	D	D	B	B	C	C	D	C	C	D	D	D	D	D	D	D	D
12	E	E	E	F	F	F	F	D	D	B	B	C	C	C	D	D	D	D	D	D	D	D	D	D
13	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
14	D	D	D	E	F	F	E	D	D	D	C	D	D	D	D	D	D	E	F	F	F	E	E	F
15	D	E	E	F	E	F	E	D	D	C	C	B	A	B	B	C	D	D	E	E	E	F	D	D
16	D	D	F	F	F	F	F	D	D	B	B	B	B	B	C	C	D	D	D	D	E	E	D	D
17	D	D	F	F	F	F	F	D	D	C	C	C	B	A	B	B	E	E	F	D	D	D	D	D
18	F	F	F	F	F	F	F	D	D	B	B	C	C	D	D	D	D	D	D	F	D	E	E	F
19	D	D	D	D	D	D	F	D	D	C	C	B	B	A	C	D	D	D	D	D	D	D	D	D
20	D	D	D	D	F	F	E	D	D	C	C	C	D	D	D	D	D	D	D	D	D	D	F	E
21	D	F	D	F	E	E	E	D	D	B	C	C	C	C	C	C	D	E	F	D	D	F	F	F
22	F	F	F	F	F	F	F	D	D	B	B	C	C	C	B	B	E	E	F	F	F	F	F	D
23	D	E	F	F	F	F	F	D	D	D	C	C	C	C	C	B	E	E	E	D	D	F	F	D
24	D	D	D	F	F	E	D	D	D	C	C	D	D	C	C	C	D	D	D	D	D	D	D	D
25	D	D	F	D	D	D	D	D	D	C	B	C	C	B	C	C	D	D	D	D	D	F	F	F
26	F	F	F	F	F	F	F	D	D	B	C	C	D	D	D	D	D	D	D	E	D	D	D	D
27	D	D	D	D	D	D	F	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
28	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	F
29	F	E	D	D	F	F	F	F	D	B	C	C	C	C	C	C	D	D	F	F	F	D	F	F
30	F	F	D	D	D	D	D	D	D	D	D	D	D	D	D	C	D	E	D	F	E	F	E	F
31	F	F	F	F	F	F	F	F	D	B	B	C	C	C	C	C	D	D	F	D	E	F	E	D

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 739 DATA RECOVERY RATE = 99.3 %

STABILITY CATEGORY	NUMBER OF OCCURRENCES	PERCENT
A	11	1.5
B	57	7.7
C	89	12.0
D	370	50.1
E	60	8.1
F	152	20.6

MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

DELTA T (T10 - T2) in DEG C/METER for NOVEMBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX	MIN
01	0.3	0.3	0.5	0.5	0.3	0.3	0.4	0.5	0.4	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.5	0.3	0.6	0.6	0.7	0.2	0.7	-0.1
02	0.2	0.3	0.4	0.2	0.2	0.1	0.1	0.1	0.1	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.1	0.7	0.4	0.7	0.6	0.6	0.4	0.2	0.7	-0.1
03	0.3	0.6	0.7	0.5	0.6	0.4	0.7	0.5	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.1	0.6	0.4	0.3	0.3	0.3	0.4	0.3	0.7	-0.1
04	0.5	0.3	0.3	0.6	0.4	0.6	0.5	0.3	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.6	0.4	0.3	0.4	0.5	0.6	0.3	0.6	-0.1
05	0.6	0.6	0.5	0.7	0.3	0.4	0.5	0.2	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.1	0.2	0.1	0.2	0.3	0.1	0.1	0.2	0.7	-0.1
06	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.4	0.8	0.3	0.3	0.5	0.5	0.5	0.2	0.8	-0.1
07	0.8	0.8	0.4	0.7	0.4	0.5	0.4	0.2	0.0	-0.0	-0.0	-0.0	-0.0	-0.1	-0.0	-0.0	0.0	0.1	0.2	0.3	0.1	0.1	0.1	0.1	0.2	0.8	-0.1
08	0.1	0.1	0.2	0.4	0.3	0.2	0.3	0.2	-0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.2	0.1	0.2	0.2	0.2	0.5	0.1	0.5	-0.1
09	0.4	0.6	0.6	0.3	0.4	0.4	0.4	0.4	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.2	0.3	0.1	0.2	0.2	0.1	0.2	0.2	0.6	-0.1
10	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.2	-0.0
11	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.3	0.4	0.1	0.4	-0.0
12	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.3	-0.0
13	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.2	0.7	0.4	0.5	0.5	0.1	0.3	0.1	0.7	-0.1
14	0.5	0.8	0.3	0.2	0.1	0.1	0.1	0.2	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.1	0.1	0.2	0.3	0.5	0.5	0.5	0.2	0.8	-0.0
15	0.5	0.6	0.6	0.3	0.5	0.6	0.3	0.5	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.2	0.4	0.5	0.6	0.8	0.2	0.3	0.3	0.8	-0.1
16	0.3	0.5	0.2	0.2	0.3	0.4	0.2	0.5	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.2	0.3	0.4	0.1	0.2	0.2	0.4	0.2	0.5	-0.1
17	0.4	0.6	0.6	0.6	0.4	0.4	0.4	0.6	0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.1	0.3	0.5	0.4	0.5	0.2	0.4	0.3	0.6	-0.1
18	0.4	0.7	0.4	0.5	0.4	0.3	0.4	0.3	0.0	-0.0	-0.0	-0.1	-0.0	-0.0	-0.0	-0.0	0.0	0.2	0.4	0.2	0.2	0.2	0.2	0.3	0.2	0.7	-0.1
19	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.4	0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.2	0.3	0.2	0.2	0.3	0.4	0.6	0.2	0.6	-0.1
20	0.4	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.2	0.5	-0.0
21	0.1	0.1	0.2	0.1	0.3	0.4	0.2	0.1	0.1	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.2	0.2	0.3	0.4	0.6	0.4	0.1	0.6	-0.1
22	0.3	0.1	0.1	0.1	0.1	0.1	0.3	0.5	0.1	-0.0	-0.0	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.0	0.1	0.3	0.5	0.3	0.1	0.5	-0.1
23	0.9	0.6	0.5	0.6	0.4	0.3	0.2	0.3	0.2	-0.0	-0.1	-0.0	-0.1	-0.0	-0.0	-0.0	0.0	0.1	0.3	0.4	0.6	0.3	0.4	0.3	0.3	0.9	-0.1
24	0.3	0.4	0.6	0.6	0.6	0.4	0.5	0.4	0.1	-0.0	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.1	0.6	0.6	0.4	0.3	0.3	0.7	0.3	0.7	-0.1
25	0.4	0.4	0.4	0.2	0.3	0.4	0.5	0.4	0.1	-0.0	-0.1	-0.1	-0.0	-0.1	-0.0	-0.0	0.0	0.1	0.5	0.4	0.5	0.6	0.5	0.5	0.2	0.6	-0.1
26	0.4	0.6	0.4	0.3	0.3	0.4	0.5	0.5	0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.2	0.3	0.2	0.3	0.2	0.4	0.4	0.2	0.6	-0.1
27	0.4	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.1	0.3	0.2	0.1	0.0	0.1	0.1	0.2	0.6	-0.0
28	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.1	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	-0.1
29	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	-0.1
30	0.2	0.2	0.3	0.3	0.3	0.2	0.1	0.3	0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.4	0.6	0.6	0.7	0.4	0.3	0.2	0.7	-0.1
MEAN	0.3	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.1	-0.0	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.2		
MAX	0.9	0.8	0.7	0.7	0.6	0.6	0.7	0.6	0.4	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.1	0.4	0.8	0.6	0.7	0.8	0.6	0.7		0.9	
MIN	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1			-0.1

POSSIBLE NUMBER OF OBSERVATIONS = 720 **ACTUAL NUMBER OF OBSERVATIONS = 720** **DATA RECOVERY RATE = 100 %**

MONTHLY MEAN = 0.2 DEG

MONTHLY MAXIMUM = 0.9 DEG C/METER ON 11/23 AT 100
MONTHLY MINIMUM = -0.1 DEG C/METER ON 11/ 2 AT 1300

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

Stability based on DELTA T (T10 - T2) and Solar Radiation for NOVEMBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01	D	F	F	F	F	F	F	F	D	B	B	C	C	C	C	B	E	F	F	F	E	F	F	E
02	D	D	E	D	D	D	D	E	D	C	C	C	C	C	B	B	E	E	F	D	D	E	F	F
03	F	F	F	F	F	F	F	F	B	B	B	B	B	B	B	B	E	F	D	D	D	D	F	F
04	F	E	F	F	F	F	F	F	B	B	B	B	B	B	B	C	D	F	D	D	E	F	F	F
05	F	F	F	D	F	F	E	F	B	B	B	C	C	C	D	D	D	D	E	F	E	D	D	D
06	D	D	D	D	D	D	D	D	C	D	D	D	D	C	C	C	F	E	F	E	D	D	D	D
07	D	D	F	F	F	F	F	D	C	B	B	B	B	C	C	C	D	D	D	D	D	D	D	D
08	D	D	D	D	D	D	D	D	B	B	C	C	C	C	C	C	D	D	D	D	D	D	E	F
09	D	E	F	F	F	F	F	F	B	C	C	C	C	B	B	B	F	E	D	D	D	F	F	F
10	F	F	F	F	F	F	F	E	D	D	B	B	B	B	B	B	E	D	D	D	E	E	F	F
11	F	F	F	F	F	F	F	F	D	B	B	B	B	B	D	D	E	F	D	F	E	E	F	F
12	F	E	D	D	D	D	D	D	D	D	D	D	C	D	D	D	D	D	D	D	D	D	D	F
13	F	E	D	E	F	E	D	D	C	B	C	C	C	B	C	C	D	F	D	F	F	F	D	F
14	F	F	F	F	E	F	F	F	D	D	D	B	C	D	D	D	D	D	D	F	F	E	F	F
15	F	F	F	F	F	F	F	F	B	B	B	B	B	B	B	B	D	F	F	F	F	F	F	F
16	F	F	F	F	D	F	F	F	B	B	B	B	B	B	B	B	F	D	D	D	D	D	E	E
17	F	F	F	F	F	F	F	F	B	B	B	B	B	B	B	B	E	E	F	D	D	E	F	F
18	F	F	F	F	F	F	E	D	B	B	B	B	C	B	B	D	D	F	D	D	F	E	D	F
19	D	D	D	D	F	F	F	F	B	C	C	C	B	B	B	B	F	E	D	D	E	F	D	F
20	F	F	F	E	F	F	F	F	D	B	B	B	B	C	C	D	D	D	D	D	D	D	D	D
21	D	D	D	D	F	E	E	F	D	D	C	D	D	D	D	D	D	D	D	D	D	D	D	D
22	D	F	F	E	F	D	F	F	D	B	C	D	D	D	D	D	D	D	F	D	D	E	D	F
23	F	D	F	F	F	D	D	D	D	B	B	B	C	B	B	C	F	F	F	F	F	F	F	F
24	F	F	F	F	F	F	F	F	D	B	C	B	B	B	B	B	D	F	F	D	D	E	D	D
25	F	F	F	F	F	F	F	F	D	B	C	B	B	B	B	C	D	F	F	F	F	F	F	F
26	F	F	F	E	F	F	F	F	D	B	B	B	B	B	B	B	E	E	D	D	D	F	E	E
27	F	F	F	F	F	F	F	F	D	B	B	B	B	B	B	D	E	F	E	E	F	D	F	E
28	F	F	F	F	F	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
29	D	D	D	F	E	D	E	E	D	C	C	C	C	C	D	D	D	D	D	D	D	D	D	D
30	D	D	D	D	D	D	D	F	D	B	C	C	C	C	C	C	F	F	F	F	F	F	F	F

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 720 DATA RECOVERY RATE = 100 %

STABILITY CATEGORY	NUMBER OF OCCURRENCES	PERCENT
A	0	0.0
B	117	16.2
C	63	8.8
D	240	33.4
E	60	8.3
F	240	33.3

MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

DELTA T (T10 - T2) in DEG C/METER for DECEMBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX	MIN
01	0.4	0.5	0.5	0.4	0.5	0.6	0.6	0.7	0.4	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.5	0.7	0.6	0.1	0.1	0.1	0.3	0.7	-0.1
02	0.1	0.1	0.2	0.2	0.4	0.4	0.4	0.4	0.2	-0.0	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.1	0.3	0.8	0.8	0.4	0.5	0.4	0.2	0.2	0.8	-0.1
03	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.3	0.1	-0.0	-0.1	-0.1	-0.0	-0.1	-0.1	-0.0	0.0	0.3	0.4	0.5	0.7	0.4	0.5	0.5	0.2	0.7	-0.1
04	0.7	0.7	0.7	0.5	0.3	0.4	0.4	0.3	0.1	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.2	0.6	0.6	0.7	0.5	0.4	0.7	0.3	0.7	-0.1
05	0.6	0.5	0.5	0.4	0.4	0.2	0.3	0.2	0.1	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.1	0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.6	-0.0
06	0.1	0.1	0.3	0.2	0.2	0.3	0.3	0.3	0.1	-0.0	-0.0	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.3	-0.1
07	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	-0.0	-0.0	0.0	0.0	0.0	0.1	-0.0
08	-0.0	-0.0	0.0	0.0	0.0	0.0	-0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.1	0.8	0.4	0.4	0.7	0.9	0.2	0.7	0.2	0.9	-0.0
09	0.4	0.3	0.6	0.8	0.4	0.5	0.5	0.4	0.4	-0.0	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.4	0.1	0.4	0.7	0.8	0.7	0.6	0.3	0.8	-0.1
10	0.6	0.7	0.6	0.4	0.4	0.8	0.7	0.4	0.3	-0.0	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0	0.0	0.6	0.3	0.7	0.7	0.5	0.3	0.4	0.3	0.8	-0.1
11	0.5	0.7	0.5	0.8	0.5	0.3	0.5	0.4	0.2	0.0	-0.0	-0.1	-0.0	-0.0	-0.0	-0.0	0.0	0.1	0.0	0.0	-0.0	-0.0	-0.0	-0.0	0.2	0.8	-0.1
12	-0.0	-0.0	0.0	0.1	0.3	0.2	0.2	0.1	0.0	-0.0	-0.0	-0.1	-0.0	-0.0	-0.0	-0.0	-0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.3	-0.1
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.0	0.2	-0.0
14	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.1	0.5	0.6	0.6	0.8	0.7	0.7	0.6	0.3	0.8	-0.0
15	0.4	0.3	0.7	0.5	0.7	0.6	0.6	0.3	0.7	0.1	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.7	-0.0
16	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.1	0.1	0.2	0.3	0.6	0.3	0.3	0.1	0.6	-0.0
17	0.3	0.3	0.2	0.1	0.2	0.3	0.4	0.3	0.1	0.0	-0.0	-0.0	-0.0	-0.1	-0.0	-0.0	0.0	0.2	0.5	0.5	0.3	0.4	0.4	0.4	0.2	0.5	-0.1
18	0.4	0.2	0.3	0.2	0.2	0.1	0.1	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.2	0.3	0.2	0.3	0.4	0.4	0.3	0.1	0.4	-0.0
19	0.4	0.1	0.3	0.2	0.1	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	0.0	0.0	0.0	0.4	-0.0
20	-0.0	-0.0	-0.0	-0.0	0.0	0.0	-0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	-0.0	0.1	0.1	-0.0	0.1	-0.0
21	0.0	-0.0	-0.0	-0.0	-0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	-0.0
22	-0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	0.0	-0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	-0.0	-0.0	0.0	0.0	0.2	0.4	0.4	0.4	0.7	0.6	0.6	0.7	0.2	0.7	-0.0
24	0.6	0.4	0.6	0.6	0.8	0.8	0.6	0.6	0.5	0.1	-0.0	-0.0	-0.1	-0.0	-0.0	-0.1	-0.0	0.5	1.1	0.8	1.0	0.9	0.4	0.4	0.4	1.1	-0.1
25	0.5	0.4	0.6	0.8	0.5	0.6	0.7	0.6	0.5	0.2	-0.0	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.3	0.5	0.6	0.2	0.6	0.5	0.4	0.3	0.8	-0.1
26	0.3	0.1	-0.0	-0.0	0.1	0.1	0.1	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.3	-0.0
27	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
28	-0.0	-0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	-0.0
29	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	0.0	-0.0
30	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.1	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.2	0.4	0.8	0.8	0.5	0.6	0.6	0.2	0.8	-0.0
31	0.4	0.3	0.0	0.3	0.4	0.4	0.3	0.2	0.4	0.1	0.0	0.0	0.0	0.0	-0.0	-0.1	-0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.1	0.4	-0.1
MEAN	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.1		
MAX	0.7	0.7	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.8	1.1	0.8	1.0	0.9	0.7	0.7		1.1	
MIN	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0			-0.1

POSSIBLE NUMBER OF OBSERVATIONS = 744 **ACTUAL NUMBER OF OBSERVATIONS = 744** **DATA RECOVERY RATE = 100 %**

MONTHLY MEAN = 0.1 DEG

MONTHLY MAXIMUM = 1.1 DEG C/METER ON 12/24 AT 1900
MONTHLY MINIMUM = -0.1 DEG C/METER ON 12/ 4 AT 1300

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

Stability based on DELTA T (T10 - T2) and Solar Radiation for DECEMBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01	F	F	F	F	F	F	F	F	D	B	B	B	B	B	C	C	D	F	E	F	D	D	D	D
02	D	D	D	F	F	F	F	F	D	C	D	D	C	C	C	C	D	D	D	D	D	D	D	D
03	E	F	F	F	E	D	D	D	D	C	C	C	B	C	C	C	D	E	D	E	D	F	F	F
04	F	F	F	F	F	F	F	F	D	B	B	C	D	D	D	D	D	F	F	D	D	D	D	D
05	D	D	D	D	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
06	D	D	D	F	F	F	D	D	D	B	B	C	C	B	B	C	D	D	D	D	D	D	D	E
07	D	D	F	F	F	F	E	F	D	D	D	D	D	D	D	D	E	E	D	D	E	D	D	D
08	D	D	D	D	D	D	D	D	D	C	C	C	C	B	B	B	F	E	F	F	E	F	F	F
09	E	F	E	F	E	F	E	F	D	B	C	C	C	C	C	C	E	F	D	F	F	F	F	F
10	F	E	D	F	F	F	F	F	D	B	B	B	B	B	B	B	F	F	F	F	F	F	F	F
11	F	F	F	F	F	F	F	F	D	B	B	B	B	B	B	D	F	F	F	F	E	E	E	E
12	E	E	F	F	F	F	F	F	D	D	D	B	B	C	B	D	E	F	F	F	E	F	F	F
13	D	E	D	F	F	D	D	E	D	D	D	B	C	C	D	C	D	D	D	D	D	D	D	D
14	D	D	D	D	E	F	F	F	D	D	B	B	C	C	C	B	F	D	F	F	F	F	F	F
15	F	F	F	E	D	E	E	E	D	B	B	B	B	B	D	D	F	E	D	D	E	D	F	F
16	F	F	F	F	F	F	F	F	D	D	B	C	B	B	B	D	D	F	E	F	F	F	F	F
17	F	F	F	F	F	F	F	F	D	B	B	B	B	B	C	B	F	F	F	F	F	F	D	E
18	F	E	E	F	F	F	F	F	D	D	D	B	B	B	B	D	F	F	E	E	D	F	F	F
19	F	F	F	E	F	F	E	E	D	D	D	B	B	B	D	D	E	F	F	F	E	E	F	F
20	E	E	E	E	F	F	E	F	D	D	D	B	B	D	D	D	E	E	E	F	F	E	F	F
21	F	E	E	E	E	F	E	E	D	D	B	B	B	B	D	D	E	E	E	E	E	E	E	E
22	E	F	F	E	E	E	E	E	D	D	D	D	D	D	D	D	D	F	D	D	D	D	D	E
23	D	D	F	D	D	E	F	E	D	D	D	B	B	B	B	B	F	D	D	D	D	D	D	D
24	D	E	F	F	F	F	F	F	D	D	B	B	B	C	B	B	E	F	F	F	E	D	D	D
25	E	F	F	F	F	F	F	F	F	B	B	B	B	B	B	B	F	F	D	D	E	F	F	F
26	F	F	E	E	F	F	F	F	F	D	B	B	B	B	B	D	D	D	E	E	E	E	E	E
27	E	E	E	E	E	D	E	E	E	D	D	B	B	B	B	D	E	E	E	E	E	E	E	E
28	E	E	F	E	E	E	E	E	E	D	D	B	B	B	B	D	E	E	E	E	E	E	E	E
29	E	D	D	E	E	E	F	E	E	D	D	D	D	D	D	D	E	E	E	F	F	E	E	E
30	E	D	E	E	D	E	E	F	F	D	D	D	D	D	D	D	F	F	F	E	E	F	F	F
31	F	F	F	F	F	F	F	F	F	D	D	B	B	B	B	B	E	F	E	D	E	D	D	E

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

STABILITY CATEGORY	NUMBER OF OCCURRENCES	PERCENT
A	0	0.0
B	99	13.3
C	37	5.0
D	234	31.4
E	148	19.9
F	226	30.4

MISSING DATA DENOTED BY BLANKS

Appendix C
Hourly Temperature Data

EnergySolutions - Clive, Utah

TEMPERATURE in DEG C for JANUARY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	-5.8	-7.7	-9.0	-9.8	-9.5	-7.2	-5.7	-6.0	-5.3	-4.6	-1.0	1.8	3.5	5.0	4.9	5.5	6.0	5.3	4.1	3.5	3.4	3.6	2.6	3.3	-.8	6.0	-9.8
02	4.3	3.3	3.2	2.1	3.6	4.2	4.7	5.4	5.1	5.6	6.4	7.9	8.4	9.2	10.1	9.3	6.7	4.8	1.9	.2	.2	.1	-.1	-1.2	4.4	10.1	-1.2
03	-1.3	-1.8	-3.0	-4.0	-4.9	-6.2	-6.9	-7.0	-7.5	-6.6	-4.9	-4.3	-3.5	-3.5	-3.4	-3.6	-4.4	-6.9	-7.6	-9.4	-10	-10	-10	-11	-5.9	-1.3	-11
04	-12	-13	-13	-13	-13	-14	-14	-14	-14	-12	-11	-9.4	-8.6	-8.0	-7.1	-6.8	-7.7	-9.9	-14	-14	-15	-11	-14	-16	-12	-6.8	-16
05	-15	-16	-14	-14	-12	-12	-11	-10	-10	-9.3	-9.1	-9.0	-7.9	-7.2	-6.0	-6.2	-6.4	-6.9	-7.5	-7.1	-6.7	-6.5	-6.4	-6.0	-9.3	-6.0	-16
06	-5.5	-5.5	-5.5	-5.5	-5.1	-5.4	-5.7	-5.0	-4.1	-3.6	-2.1	-.2	1.3	2.0	.1	.4	.4	.7	1.2	1.8	1.3	1.4	4.1	3.3	-1.5	4.1	-5.7
07	3.0	1.9	.7	-1.1	-1.1	-1.0	-.5	-.2	.8	.4	2.0	2.7	3.8	4.8	4.5	5.9	4.9	2.3	.1	-.7	-.9	-2.2	-1.6	-.5	1.2	5.9	-2.2
08	-.8	-2.6	-2.3	-3.2	-2.5	-5.0	-3.4	-4.1	-2.2	-.9	.1	1.2	3.0	4.4	6.0	7.1	5.8	4.3	3.8	3.4	2.5	2.0	2.4	2.3	.9	7.1	-5.0
09	1.9	1.9	.9	.4	.3	.4	-.6	-1.6	-1.8	-1.0	.8	1.9	2.5	2.9	3.2	3.4	2.5	.3	-.9	-2.0	-1.8	-2.1	-2.7	-3.8	.2	3.4	-3.8
10	-4.5	-4.9	-4.7	-6.3	-6.1	-7.2	-7.3	-7.8	-6.3	-3.3	-1.6	-.3	1.0	1.9	2.6	3.0	3.0	1.4	.9	.0	-.5	-.5	-1.0	-1.1	-2.1	3.0	-7.8
11	-.6	-.6	-.8	-.8	-1.3	-1.3	-1.7	-1.3	-.7	.0	1.0	2.8	4.3	5.1	6.3	7.0	6.3	3.2	.8	1.8	.1	1.6	1.9	1.6	1.4	7.0	-1.7
12	1.5	.7	-.1	-1.0	-.6	.1	2.5	1.2	-.8	-.1	2.3	4.1	3.7	4.6	7.3	6.9	6.8	4.5	4.3	4.5	4.3	3.4	4.6	3.7	2.8	7.3	-1.0
13	2.9	1.3	.5	-.3	.1	.8	.8	-.2	.4	1.6	3.2	4.3	5.8	7.3	7.9	8.0	7.5	5.7	4.2	3.5	1.8	1.9	1.7	1.0	3.0	8.0	-.3
14	.3	-1.0	-2.4	-2.4	-2.8	-4.0	-3.6	-4.1	-3.7	-1.1	1.1	3.8	5.5	6.6	7.5	7.9	7.5	5.5	.8	.0	-.1	-.5	-1.6	-2.1	.7	7.9	-4.1
15	-2.4	-2.4	-2.9	-3.7	-3.4	-3.4	-4.9	-5.0	-4.7	-3.1	-1.3	.6	2.2	3.5	4.6	5.6	5.7	3.7	.4	-.3	-.3	-.4	-1.2	-3.1	-.7	5.7	-5.0
16	-3.3	-3.6	-4.7	-4.1	-4.8	-5.2	-5.6	-6.2	-5.3	-2.8	-.7	.8	2.2	3.3	3.9	5.1	5.4	3.7	.2	-.7	-1.3	-2.1	-1.4	-2.1	-1.2	5.4	-6.2
17	-2.6	-2.7	-3.3	-5.3	-4.2	-4.5	-6.2	-6.6	-6.7	-5.3	-4.1	-2.2	-.5	.4	1.2	1.5	1.6	-.2	-.9	-1.7	-2.0	-2.9	-3.2	-4.7	-2.7	1.6	-6.7
18	-5.0	-5.8	-6.4	-7.5	-7.8	-7.7	-8.2	-8.0	-8.6	-6.0	-3.4	-2.0	-.1	1.3	1.9	2.4	1.8	.7	-1.2	-2.5	-2.9	-4.2	-3.4	-4.7	-3.6	2.4	-8.6
19	-5.1	-6.3	-6.6	-5.9	-7.2	-7.7	-7.6	-9.2	-8.6	-6.1	-3.0	-1.0	.3	1.6	2.4	3.0	2.9	1.0	-1.1	-2.1	-3.4	-3.8	-3.1	-3.9	-3.4	3.0	-9.2
20	-5.5	-5.2	-5.3	-6.6	-6.0	-7.6	-8.9	-8.9	-8.7	-7.7	-4.9	-4.3	-3.4	-2.9	-1.8	-.4	.4	-.3	-1.7	-2.7	-4.1	-4.1	-3.7	-5.4	-4.6	.4	-8.9
21	-6.1	-7.0	-7.3	-7.8	-8.5	-8.2	-8.3	-9.4	-8.8	-7.3	-6.1	-4.8	-3.8	-1.9	-.1	1.3	2.6	1.5	.2	-1.0	-1.3	-1.3	-2.1	-2.2	-4.1	2.6	-9.4
22	-2.8	-3.6	-4.5	-4.4	-3.8	-3.0	-2.7	-2.2	-1.3	-1.2	-.9	-.2	.9	2.0	3.6	3.8	2.6	1.9	1.3	.7	.7	.7	.5	.5	-.5	3.8	-4.5
23	1.1	.5	.7	.6	.3	.0	.0	-.1	.1	.9	2.3	4.8	6.1	7.1	8.7	9.5	8.9	5.4	2.8	2.8	2.5	2.1	2.1	2.4	3.0	9.5	-.1
24	2.3	2.1	2.4	2.4	2.1	2.2	2.6	2.8	2.4	3.1	3.5	3.7	5.3	5.9	7.0	8.1	7.9	6.7	5.7	5.7	5.4	4.7	3.8	4.1	4.2	8.1	2.1
25	4.5	4.5	4.2	4.0	3.7	3.5	3.2	3.0	3.0	2.6	1.9	2.1	.8	1.0	2.2	3.0	3.1	3.0	2.7	.7	-.5	-1.3	-1.1	-2.0	2.2	4.5	-2.0
26	-2.3	-3.5	-2.9	-3.3	-4.1	-5.1	-4.9	-5.3	-5.6	-5.4	-4.9	-4.2	-4.1	-4.3	-4.0	-4.3	-4.5	-4.7	-5.1	-5.4	-6.0	-6.4	-6.8	-7.6	-4.8	-2.3	-7.6
27	-8.7	-9.1	-9.9	-11	-11	-11	-11	-12	-12	-8.5	-6.9	-6.2	-5.4	-4.8	-4.2	-3.8	-3.8	-3.4	-3.2	-3.0	-3.1	-3.6	-3.6	-3.5	-6.8	-3.0	-12
28	-3.5	-3.4	-3.3	-3.7	-3.6	-4.1	-3.6	-3.2	-3.1	-2.9	-1.9	-.4	.7	1.9	2.7	3.7	3.3	2.3	2.3	.9	.2	-.7	-.7	-1.6	-.9	3.7	-4.1
29	-1.2	-.9	-2.1	-2.1	-4.0	-4.8	-4.3	-5.7	-3.9	-1.8	-.3	1.2	2.3	2.9	3.5	4.1	4.0	3.2	.5	-.9	-1.3	-.8	-1.1	-1.6	-.6	4.1	-5.7
30	-2.9	-3.1	-4.2	-4.3	-3.4	-3.9	-5.0	-5.3	-4.2	-2.6	-.5	1.2	1.6	2.8	3.9	4.6	5.0	3.2	.7	-.4	-.6	-1.1	-1.6	-2.0	-.9	5.0	-5.3
31	-2.8	-3.0	-4.0	-4.1	-4.7	-4.9	-5.5	-5.6	-4.4	-2.0	-.6	.6	1.7	2.8	3.6	4.4	4.7	4.4	1.5	-.1	.2	-.8	-.5	-.4	-.8	4.7	-5.6
MEAN	-2.5	-3.1	-3.5	-4.0	-4.1	-4.3	-4.3	-4.6	-4.2	-2.9	-1.4	-.1	1.0	1.9	2.7	3.2	2.9	1.5	-.1	-.8	-1.3	-1.5	-1.5	-2.1	-1.4		
MAX	4.5	4.5	4.2	4.0	3.7	4.2	4.7	5.4	5.1	5.6	6.4	7.9	8.4	9.2	10.1	9.5	8.9	6.7	5.7	5.7	5.4	4.7	4.6	4.1		10.1	
MIN	-15	-16	-14	-14	-13	-14	-14	-14	-14	-12	-11	-9.4	-8.6	-8.0	-7.1	-6.8	-7.7	-9.9	-14	-14	-15	-11	-14	-16			-16

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

MONTHLY MEAN = -1.4 DEG C

MAXIMUM TEMPERATURE WAS 10.1 DEG C ON 1/ 2 AT 1500 MAXIMUM DAILY MEAN WAS 4.4 DEG C ON 1/ 2

MINIMUM TEMPERATURE WAS -15.6 DEG C ON 1/ 4 AT 2400 MINIMUM DAILY MEAN WAS -11.9 DEG C ON 1/ 4

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

TEMPERATURE in DEG C for FEBRUARY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	-1.0	-1.5	-1.6	-1.7	-2.5	-2.7	-3.9	-4.6	-3.1	-1.7	.0	1.5	2.7	3.7	4.5	4.6	4.5	3.6	.2	-1.3	-1.5	-1.9	-2.5	-2.9	-.4	4.6	-4.6
02	-3.0	-3.3	-3.7	-3.3	-4.3	-5.0	-5.8	-5.3	-3.8	-.6	.8	1.6	2.9	4.1	5.2	5.9	6.1	5.5	1.3	.4	.0	-.1	-.2	-.5	-.2	6.1	-5.8
03	-.8	-1.8	-1.9	-1.5	-2.3	-3.1	-2.8	-4.4	-4.0	-2.1	.0	1.2	2.5	4.1	5.5	6.5	6.9	5.9	1.9	.8	.3	-.2	-.4	-.7	.4	6.9	-4.4
04	-1.3	-1.9	-2.6	-2.0	-2.8	-3.4	-3.7	-4.3	-3.6	-1.7	.5	2.0	3.2	4.8	6.1	7.1	7.4	6.0	2.6	.5	.4	.3	.0	.3	.6	7.4	-4.3
05	-.8	-1.1	-1.8	-1.9	-2.9	-3.4	-2.8	-2.7	-2.0	-.9	-.4	.3	2.3	4.5	5.5	6.0	6.0	5.1	3.6	2.4	1.1	-.1	-.4	-.5	.6	6.0	-3.4
06	-.8	.3	-.2	.0	.6	4.3	4.2	2.9	3.3	4.6	5.2	6.1	7.5	8.2	8.1	8.7	8.8	7.9	4.0	2.6	2.1	1.6	1.2	2.0	3.9	8.8	-.8
07	1.0	1.2	1.5	.8	2.3	2.2	1.8	2.0	2.4	4.0	5.4	6.1	7.1	7.6	7.6	7.5	6.9	6.1	4.0	2.4	1.9	1.5	2.3	1.8	3.6	7.6	.8
08	.6	.1	-.3	-.7	-.7	-.3	-1.1	-1.4	-1.0	-.3	.2	1.8	3.3	3.5	4.0	4.3	4.3	3.7	3.0	2.6	2.0	.9	1.0	1.5	1.3	4.3	-1.4
09	1.7	1.9	2.2	2.1	2.1	1.9	2.0	1.5	1.3	1.5	1.0	.4	1.1	1.3	1.2	1.6	1.7	.5	-.1	-.1	-.8	-1.8	-3.0	-2.5	.8	2.2	-3.0
10	-2.6	-1.5	-2.4	-3.3	-3.3	-2.9	-3.3	-3.6	-3.9	-4.0	-3.5	-3.1	-2.2	-1.3	-.3	-.1	-.3	-1.0	-1.1	-1.1	-1.4	-1.8	-1.2	-1.2	-2.1	-.1	-4.0
11	-1.2	-1.2	-1.8	-1.7	-1.0	-1.4	-1.7	-1.7	-1.5	-1.4	-.8	.6	2.1	2.6	3.4	3.3	3.1	2.7	-.1	-.8	-.9	-.9	-1.4	-1.6	-.1	3.4	-1.8
12	-1.1	-1.5	-1.2	-1.3	-1.3	-1.4	-1.7	-2.5	-1.7	-.5	-.1	.7	1.2	1.5	1.8	2.0	1.9	1.2	-.4	-1.4	-1.6	-2.0	-2.1	-2.2	-.6	2.0	-2.5
13	-2.0	-1.7	-1.7	-1.9	-2.6	-3.8	-3.4	-3.6	-2.6	-1.1	-.1	1.0	1.5	2.1	2.6	2.5	2.3	1.7	1.1	1.1	.2	.4	.6	.9	-.3	2.6	-3.8
14	.5	.0	-.3	-.9	-1.2	-1.4	-1.8	-2.2	-3.0	-3.2	-2.0	-1.3	-.1	.6	1.1	1.1	1.4	.6	-1.4	-1.7	-5.2	-7.3	-9.3	-9.6	-1.9	1.4	-9.6
15	-11	-11	-12	-10	-9.8	-9.1	-8.3	-8.9	-6.3	-3.0	-1.6	-.9	-.3	-.2	-.1	1.0	3.3	-.6	-3.1	-2.7	-3.4	-3.2	-3.0	-2.8	-4.5	3.3	-12
16	-4.4	-3.6	-3.3	-3.9	-3.8	-3.7	-3.3	-2.2	-1.4	.1	1.3	3.0	4.3	3.9	4.2	3.9	3.3	3.0	2.6	2.0	1.7	3.5	3.1	3.1	.6	4.3	-4.4
17	3.2	2.6	2.5	2.6	1.8	.5	.6	.8	1.6	2.0	3.0	4.2	4.5	5.8	6.7	6.4	6.2	5.0	2.1	.6	.8	1.0	-.1	-.6	2.7	6.7	-.6
18	-.8	-.2	-.2	-.7	-.8	-1.2	-1.3	-1.6	-.2	1.4	2.5	3.4	4.3	5.4	5.7	5.9	6.1	5.9	3.5	-.3	-.1	-.6	-.6	-1.7	1.4	6.1	-1.7
19	-1.1	-2.0	-2.5	-3.3	-3.5	-4.1	-4.2	-4.1	-2.1	-.6	.5	2.3	4.1	5.6	6.6	6.6	6.8	6.4	3.0	1.1	.9	.3	-.8	-1.0	.6	6.8	-4.2
20	-1.4	-2.4	-2.6	-3.1	-3.9	-3.3	-4.4	-3.7	-1.7	.0	2.3	3.7	5.8	7.3	8.1	8.6	8.9	8.8	6.4	1.1	-.2	.8	.7	.2	1.5	8.9	-4.4
21	.3	.1	-.6	-.6	-1.3	-2.1	-2.0	-2.5	-.6	1.2	2.5	4.1	5.6	7.1	8.3	9.0	9.3	8.2	5.3	3.0	1.9	1.4	1.2	.5	2.5	9.3	-2.5
22	-.1	.5	-.7	-.1	-.5	.0	-.4	.6	1.4	1.8	2.3	3.7	5.0	7.0	8.1	8.8	9.0	8.9	7.2	5.6	4.2	3.7	2.7	2.8	3.4	9.0	-.7
23	2.4	2.7	3.0	3.5	3.7	3.3	3.1	3.5	3.9	4.6	6.3	8.2	9.6	11.7	12.7	12.9	13.5	12.3	9.8	8.0	6.7	6.0	4.3	6.8	6.8	13.5	2.4
24	6.5	5.7	7.0	6.5	6.3	5.9	5.3	4.6	6.6	10.0	11.8	12.9	13.9	14.9	15.5	15.6	15.3	14.3	10.4	7.7	6.7	5.6	5.1	4.7	9.1	15.6	4.6
25	3.4	3.4	4.1	1.7	1.6	1.9	1.0	.9	1.8	5.7	9.0	11.4	12.2	13.3	13.6	12.4	12.7	12.2	8.9	6.1	4.3	3.4	3.2	3.2	6.3	13.6	.9
26	2.0	2.1	1.1	-.9	-.5	-.7	1.2	.9	1.5	5.1	8.5	10.7	12.6	13.5	13.9	13.6	13.1	11.7	7.6	4.0	2.3	1.6	.8	.2	5.2	13.9	-.9
27	-.3	-.8	-2.1	-1.9	-2.3	-3.5	-2.9	-3.0	-2.6	-1.6	-1.0	-.4	.7	1.2	1.8	2.3	2.3	1.4	-.9	-2.8	-3.4	-4.2	-4.2	-4.5	-1.4	2.3	-4.5
28	-5.1	-5.3	-6.3	-6.3	-7.0	-7.8	-7.8	-7.5	-4.0	-1.8	-.2	1.7	3.2	4.3	5.7	6.1	6.4	5.3	2.4	1.0	.9	.8	.1	.0	-.9	6.4	-7.8
MEAN	-.6	-.7	-1.0	-1.2	-1.4	-1.6	-1.7	-1.9	-.9	.6	1.9	3.1	4.3	5.3	6.0	6.2	6.3	5.4	3.0	1.5	.7	.3	-.1	-.2	1.4		
MAX	6.5	5.7	7.0	6.5	6.3	5.9	5.3	4.6	6.6	10.0	11.8	12.9	13.9	14.9	15.5	15.6	15.3	14.3	10.4	8.0	6.7	6.0	5.1	6.8		15.6	
MIN	-11	-11	-12	-10	-9.8	-9.1	-8.3	-8.9	-6.3	-4.0	-3.5	-3.1	-2.2	-1.3	-.3	-.1	-.3	-1.0	-3.1	-2.8	-5.2	-7.3	-9.3	-9.6			-12

POSSIBLE NUMBER OF OBSERVATIONS = 672 ACTUAL NUMBER OF OBSERVATIONS = 672 DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 1.4 DEG C

MAXIMUM TEMPERATURE WAS 15.6 DEG C ON 2/24 AT 1600 MAXIMUM DAILY MEAN WAS 9.1 DEG C ON 2/24

MINIMUM TEMPERATURE WAS -12.0 DEG C ON 2/15 AT 300 MINIMUM DAILY MEAN WAS -4.5 DEG C ON 2/15

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

TEMPERATURE in DEG C for MARCH, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	-.9	-1.3	-.7	-.5	-.5	-.8	-.7	.1	.7	2.0	4.0	5.5	7.0	7.8	8.7	9.1	8.6	8.0	5.9	4.5	3.0	3.5	2.1	1.0	3.2	9.1	-1.3
02	.0	-.7	.5	-1.2	-1.7	-.8	-.3	-.1	1.9	4.2	5.9	7.3	7.9	10.1	12.8	13.1	12.2	9.1	9.3	10.6	12.9	13.9	13.4	12.9	6.4	13.9	-1.7
03	12.6	12.7	11.6	11.0	10.5	9.7	8.3	7.7	10.1	13.3	15.1	16.5	17.7	18.4	18.7	18.4	18.0	16.8	15.5	12.3	12.5	12.0	11.2	10.8	13.4	18.7	7.7
04	9.7	8.4	7.7	6.6	6.1	6.7	6.9	6.9	8.1	11.4	13.2	14.1	13.9	13.6	12.0	9.9	9.7	8.6	6.3	5.0	4.5	2.4	1.2	1.0	8.1	14.1	1.0
05	1.0	1.4	.7	.8	.2	-.8	-1.6	-1.5	-.2	1.7	3.3	4.6	4.8	5.9	6.5	6.2	6.4	5.7	3.7	2.6	1.9	1.1	-1.0	-2.1	2.1	6.5	-2.1
06	-1.9	-1.3	-1.1	-1.8	-2.2	-1.4	-.7	.0	-.1	.8	2.6	3.5	4.6	4.9	4.9	4.7	3.0	1.1	-.1	-.9	-.9	-2.0	-3.2	-2.3	.4	4.9	-3.2
07	-3.6	-3.9	-3.5	-4.9	-4.7	-6.2	-8.8	-8.0	-5.1	-2.9	-1.4	.1	1.3	2.5	3.2	3.7	4.0	3.6	2.5	-1.6	-3.7	-1.2	-2.4	-4.3	-1.9	4.0	-8.8
08	-2.7	-.8	-1.1	-2.2	-1.9	-2.2	-2.7	-1.6	1.5	4.3	6.4	8.2	9.5	10.6	11.4	11.8	12.4	11.7	9.8	10.4	5.6	2.6	1.8	1.6	4.3	12.4	-2.7
09	2.5	1.8	.3	-1.2	-1.2	-1.5	-1.8	-1.9	-1.5	-.7	-.4	-2.0	-2.4	-2.7	-2.2	-1.6	-1.6	-1.6	-1.9	-1.9	-2.5	-4.8	-8.6	-11	-2.1	2.5	-11
10	-11	-9.4	-8.5	-6.4	-6.1	-5.1	-5.6	-5.5	-3.5	-1.8	-.7	.4	1.1	1.6	2.5	2.9	3.6	3.6	2.8	-.6	-1.1	-2.2	-3.3	-3.3	-2.3	3.6	-11
11	-3.9	-3.5	-4.2	-4.4	-4.7	-5.0	-5.8	-4.7	-2.3	-.9	1.0	2.1	3.5	4.7	5.8	6.5	6.2	4.7	2.5	.5	-.3	-.8	-1.7	-1.6	-.3	6.5	-5.8
12	-2.2	-1.4	-1.1	-1.7	-1.8	-2.2	-2.9	-1.5	.8	1.9	3.5	4.8	5.9	7.2	7.7	7.6	7.2	6.0	3.7	1.7	.1	.2	-.3	-1.1	1.8	7.7	-2.9
13	-1.4	-2.5	-2.7	-2.6	-2.7	-3.1	-3.8	-3.0	.1	1.8		3.2	5.0	6.5	7.3	8.3	9.0	9.5	8.5	5.3	.7	-.2	-2.3	-3.1	1.6	9.5	-3.8
14	-3.6	-5.3	-3.0	-6.0	-7.4	-6.6	-8.3	-7.7	-6.8	-1.8	2.1	5.2	8.4	9.5	11.5	13.5	14.0	13.9	12.9	8.6	5.2	3.3	2.8	1.5	2.3	14.0	-8.3
15	2.8	2.3	.3	-.3	-.2	1.6	2.4	-.3	.2	4.6	8.3	10.4	11.6	13.2	14.2	15.0	15.6	15.5	15.1	13.0	8.2	7.6	4.4	6.3	7.2	15.6	-.3
16	6.0	5.6	4.4	4.7	4.5	4.3	4.9	5.9	6.4	8.6	12.0	14.1	16.2	17.1	18.5	19.7	19.8	20.0	19.6	17.5	15.4	15.5	13.5	13.1	12.0	20.0	4.3
17	12.1	11.0	10.1	8.5	8.6	7.9	6.4	5.1	6.7	8.7	12.5	15.1	16.4	16.7	17.4	17.9	18.2	18.4	17.4	13.9	10.4	8.8	7.7	6.8	11.8	18.4	5.1
18	6.2	5.5	4.7	4.5	3.8	2.9	2.7	3.6	4.2	7.3	9.6	11.6	13.6	15.1	16.1	16.9	17.2	17.2	16.8	13.8	10.3	8.6	7.1	5.6	9.4	17.2	2.7
19	5.4	5.9	6.9	5.1	2.4	.6	.0	-.3	3.7	8.9	10.7	12.3	14.0	16.0	17.2	17.9	18.4	18.2	17.0	14.5	11.8	11.2	10.7	11.3	10.0	18.4	-.3
20	10.2	7.3	6.6	5.4	4.1	3.1	2.7	1.1	2.8	7.0	11.1	13.1	15.3	17.3	19.0	19.9	20.1	20.4	20.2	18.0	13.4	12.1	12.1	11.4	11.4	20.4	1.1
21	8.4	6.3	7.8	7.2	10.4	9.1	5.6	3.9	5.4	14.1	18.8	19.8	20.8	21.2	22.0	22.4	22.0	21.4	20.5	19.3	17.7	16.7	15.5	12.7	14.5	22.4	3.9
22	11.1	9.9	9.4	9.5	8.9	6.1	6.5	7.1	7.7	9.1	12.3	7.7	3.7	1.1	1.0	1.7	3.4	6.1	6.0	5.7	5.2	3.6	3.0	2.0	6.2	12.3	1.0
23	1.9	2.5	2.7	2.3	1.6	1.4	1.1	.7	.6	1.1	1.9	2.6	4.6	5.2	5.8	6.4	6.8	7.2	6.9	5.8	4.6	3.7	3.1	2.2	3.4	7.2	.6
24	1.0	-1.7	-2.0	-3.5	-3.2	-3.4	-3.2	-3.5	-2.3	.9	3.3	4.7	4.5	5.5	6.3	7.2	7.8	8.1	7.4	6.8	5.0	3.4	3.5	4.1	2.4	8.1	-3.5
25	3.8	4.4	4.4	3.5	3.3	3.6	3.2	2.8	3.6	4.7	6.2	6.7	7.0	7.6	8.9	10.3	10.3	10.5	10.2	9.4	8.9	6.6	3.4	1.8	6.0	10.5	1.8
26	3.0	2.2	1.9	1.5	.3	-.3	-.4	-2.3	-2.6	-1.5	-.7	1.0	2.1	2.8	3.3	3.5	3.7	3.4	2.4	1.3	.3	-1.3	-1.9	-2.5	.8	3.7	-2.6
27	-3.5	-4.9	-6.2	-6.3	-5.5	-7.4	-7.1	-9.0	-4.9	-.6	1.6	3.0	3.8	4.8	5.6	5.8	6.5	6.6	7.1	6.0	2.2	.9	-.2	-.3	-.1	7.1	-9.0
28	-.8	-3.6	-2.9	-4.3	-5.1	-6.0	-5.3	-4.4	.8	4.9	8.3	10.3	12.0	13.3	14.3	14.8	15.4	16.0	15.6	13.6	10.9	9.7	11.1	11.2	6.2	16.0	-6.0
29	11.5	11.8	11.7	10.6	9.6	8.1	7.5	4.4	-.3	-1.5	-1.4	.0	2.0	3.1	3.4	3.3	3.1	2.8	1.6	.0	-.2	-.8	-1.7	-.9	3.7	11.8	-1.7
30	-.2	-.2	-.4	-.5	-1.2	-1.8	-2.1	-1.9	-1.3	.4	1.5	2.8	3.2	4.1	4.8	5.7	5.8	6.0	5.9	5.2	3.2	1.4	3.0	1.9	1.9	6.0	-2.1
31	.6	.6	-.3	.0	-.2	-1.2	-1.4	-1.5	.4	2.2	4.8	6.0	7.3	8.9	9.4	9.7	9.9	9.5	9.1	8.3	7.7	6.2	5.9	6.5	4.5	9.9	-1.5
MEAN	2.4	1.9	1.7	1.1	.8	.3	-.1	-.3	1.1	3.6	5.8	6.9	7.9	8.8	9.6	10.1	10.2	9.9	9.0	7.4	5.6	4.6	3.5	3.0	4.8		
MAX	12.6	12.7	11.7	11.0	10.5	9.7	8.3	7.7	10.1	14.1	18.8	19.8	20.8	21.2	22.0	22.4	22.0	21.4	20.5	19.3	17.7	16.7	15.5	13.1		22.4	
MIN	-11	-9.4	-8.5	-6.4	-7.4	-7.4	-8.8	-9.0	-6.8	-2.9	-1.4	-2.0	-2.4	-2.7	-2.2	-1.6	-1.6	-1.6	-1.9	-1.9	-3.7	-4.8	-8.6	-11			-11

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 743 DATA RECOVERY RATE = 99.9 %

MONTHLY MEAN = 4.8 DEG C

MAXIMUM TEMPERATURE WAS 22.4 DEG C ON 3/21 AT 1600 MAXIMUM DAILY MEAN WAS 14.5 DEG C ON 3/21

MINIMUM TEMPERATURE WAS -11.3 DEG C ON 3/ 9 AT 2400 MINIMUM DAILY MEAN WAS -2.3 DEG C ON 3/10

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

TEMPERATURE in DEG C for APRIL, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	5.0	2.1	.6	.0	-.1	-.8	-1.1	-1.7	-1.4	-.3	1.5	2.8	3.9	4.7	5.4	6.2	6.5	6.6	6.4	6.1	3.3	3.1	2.6	2.7	2.7	6.6	-1.7
02	4.0	3.4	2.7	2.9	2.9	3.1	4.2	4.9	6.4	8.2	10.1	10.9	11.9	14.7	15.9	15.6	15.7	14.1	12.2	9.6	8.2	7.8	5.6	4.4	8.3	15.9	2.7
03	3.0	2.9	3.0	3.1	1.8	2.2	1.6	1.5	1.5	1.9	2.9	3.9	4.9	5.8	5.9	6.1	6.1	4.4	3.7	3.7	3.1	1.7	.8	.4	3.2	6.1	.4
04	-.6	.0	-.3	-.2	-.2	-.1	.0	-.1	.7	2.1	4.0	5.1	6.4	7.3	6.9	7.4	8.4	8.2	7.8	6.5	3.4	.2	-.3	-1.9	2.9	8.4	-1.9
05	-1.3	-.9	-1.5	-1.9	-2.1	-2.6	-3.5	-2.5	-.2	4.4	6.9	8.7	9.5	10.1	10.6	11.3	11.2	11.3	11.1	9.3	4.9	2.5	1.3	.0	4.0	11.3	-3.5
06	-.9	-.3	-1.2	-3.3	-1.7	-2.7	-5.7	-3.9	.6	5.9	8.4	9.8	10.9	12.1	13.2	14.4	15.2	15.3	14.9	13.1	8.6	5.9	5.1	3.9	5.7	15.3	-5.7
07	2.8	-.7	.4	-.8	-1.7	-2.0	-3.0	-2.2	2.0	6.6	9.7	12.3	15.8	18.2	20.5	21.6	21.9	21.5	21.1	19.1	15.4	17.7	16.4	14.3	10.3	21.9	-3.0
08	12.5	10.7	9.5	10.6	12.7	13.3	11.9	10.2	12.5	13.0	12.1	12.3	10.0	9.2	9.5	10.3	10.4	9.7	8.9	6.4	5.7	5.5	4.8	4.5	9.8	13.3	4.5
09	4.2	5.0	4.7	4.2	4.3	4.9	4.8	5.2	5.7	7.2	9.3	10.4	11.7	11.9	12.7	13.1	13.6	14.1	13.2	11.7	9.0	7.9	7.0	7.4	8.5	14.1	4.2
10	7.6	7.6	7.5	7.3	7.9	7.2	5.7	5.2	7.4	9.6	12.1	14.1	14.6	15.2	16.3	16.4	16.2	16.0	15.8	15.4	13.4	13.5	12.9	10.8	11.5	16.4	5.2
11	9.3	7.8	7.4	6.4	7.0	7.5	7.8	7.7	9.7	11.1	12.0	13.0	14.4	14.2	13.1	13.4	13.0	12.5	11.6	11.9	11.1	9.8	7.7	6.5	10.2	14.4	6.4
12	5.7	2.9	1.8	1.9	3.5	2.6	1.0	1.0	6.0	8.1	9.9	11.2	12.1	13.4	14.2	15.0	15.9	16.0	16.0	14.9	11.2	9.8	8.4	6.0	8.7	16.0	1.0
13	1.9	.8	1.2	.1	.8	-.9	.8	.4	5.4	11.0	14.7	16.4	17.7	18.5	19.2	19.6	20.1	20.3	20.0	18.9	15.6	16.1	17.2	15.3	11.3	20.3	-.9
14	14.7	13.8	13.9	15.5	15.2	14.7	13.8	13.0	12.8	9.5	7.8	6.4	5.4	6.2	7.2	7.9	6.4	6.1	5.9	5.3	4.1	4.0	5.7	6.4	9.2	15.5	4.0
15	6.4	5.6	5.5	3.4	2.7	3.7	3.2	2.3	3.4	4.2	5.1	6.0	6.7	6.8	7.3	6.9	6.9	4.5	2.3	.3	.2	1.0	1.6	2.1	4.1	7.3	.2
16	1.0	.1	.0	-.1	-.1	-.1	.0	.0	.0	-.3	.3	.9	1.2	1.1	1.9	2.5	2.4	2.1	1.9	2.0	1.1	1.3	1.0	1.2	.9	2.5	-.3
17	1.2	.9	1.0	1.4	1.4	1.5	1.3	1.2	2.0	2.9	4.3	6.6	9.0	11.0	11.5	11.9	12.3	12.4	12.6	11.7	9.2	6.7	5.4	5.0	6.0	12.6	.9
18	3.5	3.4	3.6	2.2	.7	.3	1.0	2.7	5.6	8.9	10.7	12.7	13.9	14.7	15.4	15.8	16.0	16.2	16.1	15.3	12.1	9.4	7.6	7.4	9.0	16.2	.3
19	4.9	4.6	3.7	3.5	3.0	1.5	1.4	3.1	7.1	9.5	11.6	13.6	15.1	16.3	17.3	17.7	18.4	18.6	18.7	18.1	14.3	9.8	8.6	6.7	10.3	18.7	1.4
20	6.7	6.4	5.1	3.3	2.1	2.3	2.0	2.4						19.3	20.4	21.1	21.6	21.8	21.7	20.8	16.9	13.0	12.7	11.8	12.2	21.8	2.0
21	10.2	9.1	9.5	6.6	4.6	4.7	3.8	5.5	10.8	14.2	16.7	18.4	20.4	22.0	23.1	23.7	23.9	23.9	23.7	22.7	16.6	16.3	15.5	11.6	14.9	23.9	3.8
22	9.2	8.6	8.7	7.2	6.8	6.4	5.4	6.2	12.7	16.5	19.4	21.9	23.8	25.0	26.0	26.4	26.2	24.5	25.1	23.9	19.6	18.5	17.1	17.1	16.8	26.4	5.4
23	16.7	15.3	15.7	12.5	11.8	14.1	14.0	14.5	16.4	19.6	20.4	21.8	23.1	23.8	24.7	24.2	23.6	23.1	22.9	22.4	20.3	19.0	17.4	16.2	18.9	24.7	11.8
24	15.0	14.2	11.2	10.2	9.0	7.9	7.6	7.7	8.5	10.3	12.0	12.5	12.6	13.0	14.0	14.7	13.8	13.3	12.1	10.9	10.1	8.9	8.8	8.7	11.1	15.0	7.6
25	8.8	8.5	7.4	6.0	5.4	5.2	3.8	3.5	3.2	3.6	5.1	5.3	4.9	8.5	9.0	9.7	10.8	11.4	11.1	10.2	9.2	6.7	7.0	6.2	7.1	11.4	3.2
26	5.7	5.0	5.8	6.1	6.4	5.9	5.5	5.3	5.6	6.1	6.6	7.5	7.9	8.8	9.5	9.8	10.1	9.5	9.5	8.5	6.8	4.7	2.3	2.9	6.7	10.1	2.3
27	2.0	.2	-1.5	-.6	-1.9	-2.4	-1.5	.8	3.9	7.4	9.6	10.8	12.0	12.9	14.0	15.8	16.8	17.8	17.8	16.4	15.5	16.0	13.9	11.9	8.7	17.8	-2.4
28	11.3	11.7	12.2	12.5	12.1	10.7	8.4	8.8	10.6	12.0	13.0	14.2	15.5	16.0	16.8	16.3	16.2	13.5	11.0	10.2	9.5	8.0	7.1	5.6	11.8	16.8	5.6
29	5.1	5.7	4.5	3.4	1.9	1.9	-.4	1.7	6.9	9.5	11.1	12.5	13.3	14.4	15.5	16.3	17.0	17.4	17.3	16.6	13.1	10.4	8.5	7.6	9.6	17.4	-.4
30	8.0	7.1	6.3	5.6	4.3	3.4	3.2	4.9	7.3	9.6	11.9	13.8	15.7	16.4	17.4	18.3	18.6	18.8	18.8	17.9	16.2	13.6	11.5	10.7	11.6	18.8	3.2
MEAN	6.1	5.4	4.9	4.3	4.0	3.8	3.2	3.6	6.0	8.0	9.6	10.9	11.9	13.1	13.8	14.3	14.5	14.2	13.7	12.7	10.3	9.0	8.0	7.1	8.8		
MAX	16.7	15.3	15.7	15.5	15.2	14.7	14.0	14.5	16.4	19.6	20.4	21.9	23.8	25.0	26.0	26.4	26.2	24.5	25.1	23.9	20.3	19.0	17.4	17.1		26.4	
MIN	-1.3	-.9	-1.5	-3.3	-2.1	-2.7	-5.7	-3.9	-1.4	-.3	.3	.9	1.2	1.1	1.9	2.5	2.4	2.1	1.9	.3	.2	.2	-.3	-1.9			-5.7

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 715 DATA RECOVERY RATE = 99.3 %

MONTHLY MEAN = 8.8 DEG C

MAXIMUM TEMPERATURE WAS 26.4 DEG C ON 4/22 AT 1600 MAXIMUM DAILY MEAN WAS 18.9 DEG C ON 4/23

MINIMUM TEMPERATURE WAS -5.7 DEG C ON 4/ 6 AT 700 MINIMUM DAILY MEAN WAS .9 DEG C ON 4/16

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

TEMPERATURE in DEG C for MAY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	10.2	9.9	9.6	9.5	9.5	9.2	8.8	9.0	9.9	11.5	12.5	13.0	14.0	15.6	16.9	17.8	17.3	15.9	14.0	13.0	12.0	11.3	11.2	11.5	12.2	17.8	8.8
02	10.9	10.0	9.2	9.7	10.2	10.2	9.7	9.9	8.5	8.6	8.6	10.0	12.3	14.4	15.6	16.3	16.3	16.5	16.4	15.7	15.1	12.8	12.3	10.6	12.1	16.5	8.5
03	9.7	8.7	9.2	9.6	9.8	9.2	9.0	9.2	11.2	12.1	14.0	15.6	16.9	17.7	18.2	18.9	16.3	17.3	16.7	12.8	10.4	10.7	10.7	10.5	12.7	18.9	8.7
04	9.8	8.8	7.1	6.5	5.1	4.4	4.0	5.6	8.8	10.6	12.5	13.8	14.6	15.7	16.4	16.7	17.0	17.6	17.5	17.1	16.6	15.8	13.7	14.4	12.1	17.6	4.0
05	13.5	12.5	11.9	12.3	11.7	11.2	11.5	12.7	16.2	17.3	18.7	20.1	21.3	22.3	22.8	23.6	24.0	23.9	23.6	22.6	20.4	18.4	17.4	15.6	17.7	24.0	11.2
06	14.6	14.0	14.6	10.4	8.1	7.9	7.6	8.9	13.3	16.4	19.1	20.9	22.4	23.5	24.4	24.7	24.9	25.0	24.5	23.8	21.9	19.5	16.7	13.9	17.5	25.0	7.6
07	13.2	13.1	10.9	10.0	9.4	9.0	8.6	10.5	14.1	15.7	16.8	17.7	18.6	19.8	20.4	20.4	20.8	20.4	20.1	18.8	16.0	13.8	12.5	10.7	15.1	20.8	8.6
08	9.2	8.5	7.4	6.2	5.2	4.5	2.9	5.6	8.7	9.8	10.7	11.6	12.7	13.4	13.9	14.2	14.7	15.0	15.1	14.5	11.7	8.7	8.0	6.3	9.9	15.1	2.9
09	5.0	4.8	4.9	5.1	4.8	4.3	3.8	6.0	9.2	12.2	13.5	14.7	15.8	16.9	17.7	18.1	18.5	18.6	17.7	16.4	14.5	11.3	9.5	9.5	11.4	18.6	3.8
10	8.3	6.8	5.8	5.4	5.5	4.6	5.4	9.3	12.9	15.2	16.8	17.7	18.5	19.1	19.4	20.0	19.8	20.0	19.9	19.4	16.2	14.5	14.1	12.9	13.6	20.0	4.6
11	11.0	10.5	9.6	8.6	8.1	5.3	4.1	8.6	13.7	16.0	17.4	19.6	22.0	23.0	23.1	23.8	24.9	24.9	23.9	22.9	20.1	16.1	13.4	16.3	16.1	24.9	4.1
12	14.0	13.4	13.8	14.1	11.4	6.8	9.4	12.7	16.3	18.6	19.7	20.7	21.2	21.2	22.7	22.8	22.6	22.3	21.5	20.3	18.4	15.6	12.9	11.3	16.8	22.8	6.8
13	9.9	8.5	7.4	6.0	4.2	3.3	2.6	4.8	6.7	8.2	9.3	10.5	11.6	12.4	13.2	14.1	14.0	14.0	13.6	13.4	11.3	8.2	7.1	6.1	9.2	14.1	2.6
14	6.2	6.8	5.3	2.9	2.9	6.4	7.1	8.1	9.6	13.1	15.3	17.0	18.2	19.1	20.5	21.2	21.9	22.7	22.5	20.7	17.3	16.0	14.8	12.9	13.7	22.7	2.9
15	11.8	10.1	8.4	7.8	7.0	6.4	6.7	10.6	12.8	15.5	16.9	17.9	18.6	19.3	19.3	19.2	20.0	19.8	20.0	19.7	16.8	13.2	11.4	10.3	14.1	20.0	6.4
16	9.2	7.8	7.2	8.6	8.3	7.8	7.0	11.3	15.0	17.5	18.9	20.4	21.4	22.2	22.9	23.4	23.8	23.9	24.1	23.3	19.2	15.4	13.4	12.6	16.0	24.1	7.0
17	11.5	10.2	10.0	9.7	9.3	7.0	5.4	11.5	16.7	19.2	21.6	24.1	25.4	26.6	27.7	28.0	28.6	28.8	28.7	28.0	23.9	20.6	18.7	17.1	19.1	28.8	5.4
18	16.3	14.4	12.7	13.5	10.2	8.6	9.0	12.5	17.9	22.1				30.6	31.7	32.2	32.5	32.9	32.9	31.1	26.0	23.5	22.6	22.0	21.7	32.9	8.6
19	21.6	19.8	17.7	17.1	14.9	15.4	17.6	20.1	22.7	24.8	25.9	27.1	27.7	26.8	27.5	28.1	28.0	26.3	25.7	25.4	24.3	21.6	21.2	20.8	22.8	28.1	14.9
20	19.7	19.8	20.9	20.0	18.7	18.7	18.1	18.4	19.1	20.7	21.7	22.9	23.5	24.5	24.8	25.0	25.5	25.2	24.4	23.6	21.3	18.9	17.3	15.5	21.2	25.5	15.5
21	15.3	13.8	13.1	11.2	10.8	10.6	11.1	13.2	15.9	17.6	19.6	21.3	22.9	24.3	25.6	26.3	26.8	26.7	26.2	25.0	22.3	17.8	15.8	15.6	18.7	26.8	10.6
22	15.7	14.4	14.3	13.0	13.0	13.4	12.6	15.7	17.6	18.5	22.0	24.1	25.4	26.6	27.8	28.3	27.7	26.7	26.0	25.5	23.4	21.4	20.9	20.2	20.6	28.3	12.6
23	17.3	16.3	18.7	18.2	17.1	16.3	16.4	17.2	19.4	21.2	22.3	23.3	23.9	24.8	25.7	26.5	26.6	26.4	25.5	22.7	19.7	17.9	18.6	17.7	20.8	26.6	16.3
24	17.2	16.4	15.8	15.3	15.2	15.2	14.8	15.4	15.8	16.6	15.1	16.2	18.1	20.3	21.9	23.1	23.2	20.8	19.9	14.6	11.2	11.3	12.3	13.2	16.6	23.2	11.2
25	12.3	12.1	10.3	9.5	8.8	8.5	7.9	11.2	14.1	15.4	16.5	17.5	18.7	19.7	20.7	21.6	22.4	22.6	20.4	19.3	17.9	15.2	13.2	13.0	15.4	22.6	7.9
26	13.3	12.7	12.4	9.2	9.2	8.4	9.1	11.9	14.9	16.9	18.4	19.8	20.8	21.7	22.4	23.0	23.8	23.3	22.9	22.5	20.3	16.8	14.7	14.3	16.8	23.8	8.4
27	13.9	12.5	10.1	9.3	8.0	9.1	7.7	12.4	16.3	19.1	21.2	22.9	24.0	24.6	25.3	26.0	26.2	26.5	26.1	25.4	23.0	19.2	16.7	15.7	18.4	26.5	7.7
28	12.9	12.8	12.7	11.9	10.8	10.4	10.8	14.0	19.2	22.0	24.3	25.6	26.5	27.1	27.9	28.5	28.8	29.0	28.8	27.8	24.6	19.6	16.9	16.4	20.4	29.0	10.4
29	15.0	13.6	11.9	12.2	13.9	11.7	11.5	16.2	18.1	21.6	24.4	26.5	27.7	29.0	29.4	30.2	30.5	29.5	28.4	27.3	26.2	23.3	21.8	20.5	21.7	30.5	11.5
30	19.9	17.2	17.2	15.1	12.7	12.0	12.4	16.6	19.5	22.3	24.3	25.6	26.6	27.2	27.7	27.4	26.8	27.5	27.8	26.8	25.0	23.2	22.2	19.9	21.8	27.8	12.0
31	21.0	20.4	19.3	15.3	14.3	13.5	14.5	17.2	19.4	21.6	22.9	24.1	25.1	26.2	26.5	27.4	28.0	28.1	22.8	20.4	19.9	19.1	18.2	16.7	20.9	28.1	13.5
MEAN	13.2	12.3	11.6	10.7	9.9	9.3	9.3	11.8	14.6	16.7	18.0	19.4	20.6	21.8	22.6	23.1	23.3	23.2	22.5	21.3	18.9	16.5	15.2	14.3	16.7		
MAX	21.6	20.4	20.9	20.0	18.7	18.7	18.1	20.1	22.7	24.8	25.9	27.1	27.7	30.6	31.7	32.2	32.5	32.9	32.9	31.1	26.2	23.5	22.6	22.0		32.9	
MIN	5.0	4.8	4.9	2.9	2.9	3.3	2.6	4.8	6.7	8.2	8.6	10.0	11.6	12.4	13.2	14.1	14.0	14.0	13.6	12.8	10.4	8.2	7.1	6.1			2.6

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 741 DATA RECOVERY RATE = 99.6 %

MONTHLY MEAN = 16.7 DEG C

MAXIMUM TEMPERATURE WAS 32.9 DEG C ON 5/18 AT 1800 MAXIMUM DAILY MEAN WAS 22.8 DEG C ON 5/19

MINIMUM TEMPERATURE WAS 2.6 DEG C ON 5/13 AT 700 MINIMUM DAILY MEAN WAS 9.2 DEG C ON 5/13

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

TEMPERATURE in DEG C for JUNE, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	15.6	14.6	13.7	14.0	15.2	15.4	16.2	18.6	20.3	20.9	22.1	23.2	24.2	24.8	25.5	26.0	26.7	26.9	21.9	18.7	17.3	15.2	14.9	15.4	19.5	26.9	13.7
02	15.6	15.9	16.1	14.6	13.3	12.8	12.9	15.1	16.6	18.2	20.0	21.8	22.6	24.0	25.1	26.4	26.4	16.3	16.2	17.6	17.9	17.4	16.6	16.0	18.1	26.4	12.8
03	15.3	14.2	13.5	12.4	12.5	10.4	10.6	14.6	17.1	18.0	19.0	20.5	22.8	24.1	24.7	25.3	27.0	27.4	27.4	27.0	24.2	21.6	22.0	21.4	19.7	27.4	10.4
04	19.9	19.7	17.2	16.8	15.8	15.8	16.2	18.2	21.4	23.2	24.3	25.3	26.5	27.8	28.8	28.7	28.9	28.5	27.9	27.1	25.0	21.6	21.6	21.7	22.8	28.9	15.8
05	21.3	21.4	24.7	23.1	20.9	19.3	18.0	17.8	15.9	17.7	16.2	16.2	18.3	21.8	23.2	23.3	26.0	25.4	19.3	17.0	17.2	16.1	15.5	15.2	19.6	26.0	15.2
06	15.2	13.9	11.6	8.3	8.5	11.6	11.4	12.9	15.3	16.9	17.8	19.0	20.0	20.6	21.3	21.7	22.2	21.9	21.2	19.9	18.6	16.6	15.9	14.8	16.5	22.2	8.3
07	13.4	10.9	10.1	9.6	11.6	11.7	12.4	13.5	13.2	12.1	13.0	15.6	17.2	18.5	19.1	19.8	19.5	18.5	18.8	18.7	16.5	15.2	13.4	12.1	14.8	19.8	9.6
08	11.5	11.6	12.3	11.9	12.2	12.1	10.8	13.1	15.9	17.4	19.1	20.4	21.5	21.7	22.4	23.0	23.4	23.4	23.3	22.6	20.3	17.3	15.4	15.3	17.4	23.4	10.8
09	14.6	13.9	13.7	12.5	11.0	11.5	11.8	13.8	16.2	18.1	19.1	20.4	21.1	22.3	23.6	23.1	22.3	19.2	17.1	16.4	15.0	14.3	14.1	14.6	16.7	23.6	11.0
10	14.9	14.5	13.4	12.6	12.4	12.7	12.9	14.0	14.3	15.3	16.5	16.7	17.5	19.3	19.8	19.9	17.0	15.2	16.6	17.1	16.2	15.4	14.4	14.6	15.6	19.9	12.4
11	12.8	12.0	11.4	11.1	9.1	8.8	9.7	10.9	13.0	14.0	14.6	15.6	16.7	16.3	15.8	16.8	15.0	13.6	14.8	15.4	14.8	13.0	11.2	9.5	13.2	16.8	8.8
12	7.0	6.7	6.6	5.3	6.3	5.4	5.3	10.3	13.6	15.3	17.3	17.2	17.3	20.3	21.3	22.4	22.7	22.1	21.2	19.1	17.5	16.1	16.0	15.3	14.5	22.7	5.3
13	15.0	15.0	14.7	15.1	14.6	13.6	12.5	14.0	14.9	16.1	15.9	15.0	17.5	18.9	17.9	18.6	18.4	18.9	16.7	14.4	14.5	11.9	12.5	12.1	15.4	18.9	11.9
14	9.9	9.1	8.7	6.5	5.9	6.5	6.9	9.4	13.6	16.3	18.0	19.5	20.9	21.8	21.9	21.4	21.1	21.0	18.6	18.2	17.5	14.9	14.0	11.8	14.7	21.9	5.9
15	11.6	10.4	10.0	9.9	7.2	5.4	6.2	11.7	15.0	16.9	18.2	19.0	20.3	21.3	22.3	23.1	23.6	23.3	23.3	21.5	19.6	17.4	14.7	13.6	16.1	23.6	5.4
16	12.9	12.7	11.0	10.1	9.4	9.0	9.9	12.1	14.3	16.4	18.9	21.2	22.4	23.4	24.3	25.0	24.0	20.4	19.8	17.4	16.7	16.3	15.8	15.5	16.6	25.0	9.0
17	15.4	14.9	14.8	14.8	14.4	13.8	14.4	13.5	13.8	15.2	17.0	18.9	17.7	18.1	19.3	18.3	20.5	19.9	15.5	13.7	12.9	12.7	13.1	13.3	15.7	20.5	12.7
18	13.6	13.2	12.5	12.3	11.2	11.6	11.8	13.2	14.7	16.4	17.6	18.5	19.3	20.1	21.1	21.8	21.1	22.0	22.3	22.1	20.4	16.9	16.4	14.4	16.9	22.3	11.2
19	12.5	11.0	10.3	9.9	9.4	8.2	8.6	13.3	17.7	19.6	22.9	24.2	25.3	26.2	26.8	27.7	28.3	28.5	28.6	28.4	26.5	24.7	24.6	25.4	20.4	28.6	8.2
20	22.8	18.6	17.8	17.6	16.4	16.0	15.3	15.9	16.9	17.1	16.6	14.2	12.7	12.6	11.8	12.2	13.4	14.8	15.7	15.1	13.9	12.2	10.6	10.1	15.0	22.8	10.1
21	8.8	8.5	8.7	9.5	9.1	11.4	12.2	13.1	13.2	15.0	16.6	18.1	20.1	22.2	23.6	25.0	26.2	21.6	18.7	17.8	17.0	15.4	15.4	14.9	15.9	26.2	8.5
22	12.7	11.7	11.0	9.9	8.8	8.4	8.9	11.0	13.2	15.4	16.7	17.6	18.6	19.6	20.7	21.2	21.8	22.3	22.1	21.5	19.8	17.1	14.9	15.1	15.8	22.3	8.4
23	15.0	14.8	14.7	12.9	12.2	10.9	10.9	13.2	16.3	18.3	19.8	21.3	22.5	24.3	25.7	26.6	27.1	27.3	27.5	27.1	24.8	20.9	19.0	17.4	19.6	27.5	10.9
24	17.2	15.8	15.3	14.1	14.3	11.9	12.9	16.7	19.2	21.5	23.8	26.0	28.0	29.7	31.0	31.9	32.6	33.1	33.1	32.7	29.5	25.4	24.5	24.6	23.5	33.1	11.9
25	21.7	19.7	19.3	17.5	17.8	16.1	18.1	21.4	24.2	26.1	28.2	31.5	32.7	32.9	30.4	26.6	28.1	28.4	28.0	27.1	25.6	24.4	23.1	23.1	24.7	32.9	16.1
26	22.6	21.8	20.2	19.1	18.4	18.0	17.7	19.7	20.8	23.2	24.5	25.8	26.9	27.6	28.4	28.2	28.7	27.9	24.9	24.3	23.2	21.2	19.6	18.7	23.0	28.7	17.7
27	16.1	15.4	13.2	13.2	10.9	11.1	10.6	15.2	18.7	21.0	23.3	24.3	25.2	26.6	27.6	27.9	28.4	28.6	28.4	27.1	25.0	20.8	17.8	16.1	20.5	28.6	10.6
28	15.2	14.4	13.8	13.7	13.1	10.9	13.2	17.9	20.1	22.1	24.1	26.3	27.7	29.4	30.2	31.0	31.2	31.6	31.4	31.1	28.5	23.9	21.7	20.5	22.6	31.6	10.9
29	19.0	17.6	19.9	18.5	17.0	15.4	14.8	20.3	24.2	26.3	28.7	30.8	32.4	33.2	34.1	34.4	34.8	34.5	33.7	33.6	31.3	26.9	24.7	22.7	26.2	34.8	14.8
30	22.9	18.6	17.8	16.8	14.0	15.3	14.6	19.3	24.9	29.2	31.5	33.0	34.0	35.2	36.1	35.7	34.7	32.8	31.3	30.3	29.3	25.8	24.4	24.6	26.3	36.1	14.0
MEAN	15.4	14.4	13.9	13.1	12.4	12.0	12.3	14.8	16.9	18.6	20.1	21.2	22.3	23.5	24.1	24.4	24.7	23.8	22.8	22.0	20.6	18.3	17.3	16.7	18.6		
MAX	22.9	21.8	24.7	23.1	20.9	19.3	18.1	21.4	24.9	29.2	31.5	33.0	34.0	35.2	36.1	35.7	34.8	34.5	33.7	33.6	31.3	26.9	24.7	25.4		36.1	
MIN	7.0	6.7	6.6	5.3	5.9	5.4	5.3	9.4	13.0	12.1	13.0	14.2	12.7	12.6	11.8	12.2	13.4	13.6	14.8	13.7	12.9	11.9	10.6	9.5			5.3

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 720 DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 18.6 DEG C

MAXIMUM TEMPERATURE WAS 36.1 DEG C ON 6/30 AT 1500 MAXIMUM DAILY MEAN WAS 26.3 DEG C ON 6/30

MINIMUM TEMPERATURE WAS 5.3 DEG C ON 6/12 AT 700 MINIMUM DAILY MEAN WAS 13.2 DEG C ON 6/11

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

TEMPERATURE in DEG C for JULY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	23.4	22.0	21.8	23.7	23.4	22.2	21.5	21.3	25.1	27.2	28.6	29.2	29.9	31.0	31.3	31.6	32.5	32.5	31.4	26.4	24.9	24.3	23.3	21.9	26.3	32.5	21.3
02	20.1	19.2	18.6	17.1	16.1	14.7	14.9	18.8	22.0	23.4	24.3	25.8	27.1	26.1	24.1	19.6	20.1	20.5	20.8	21.0	20.2	18.5	17.6	18.3	20.4	27.1	14.7
03	18.4	17.6	17.1	15.9	16.3	16.3	15.0	17.5	19.4	21.8	23.6	24.8	25.8	26.9	28.0	28.7	29.3	29.9	29.6	28.9	27.6	23.3	22.4	21.2	22.7	29.9	15.0
04	19.8	20.3	19.2	18.0	20.1	20.7	18.6	19.0	18.9	20.0	20.9	23.4	27.3	27.1	27.9	28.9	29.6	29.6	29.3	27.6	24.9	22.9	21.6	20.8	23.2	29.6	18.0
05	18.1	15.4	14.4	14.1	17.3	17.7	18.0	20.1	22.5	24.7	26.6	27.9	29.2	30.3	31.4	32.1	32.8	33.3	33.5	33.1	30.9	27.4	26.1	24.5	25.1	33.5	14.1
06	23.3	22.4	19.9	16.2	16.0	21.5	21.0	21.8	24.6	27.4	30.5	31.5	32.2	32.1	32.7	33.0	33.4	33.3	32.9	32.0	29.5	25.3	20.8	19.3	26.4	33.4	16.0
07	20.1	19.6	19.0	18.3	17.7	16.2	15.7	17.8	21.5	24.1	25.7	27.3	29.1	30.4	31.4	32.4	33.2	33.4	33.0	32.0	29.9	23.9	21.5	18.3	24.6	33.4	15.7
08	17.6	16.2	15.7	15.0	14.6	15.1	12.5	16.1	20.3	22.8	24.1	24.8	25.9	26.6	27.4	28.3	28.8	28.8	28.8	28.0	26.2	23.1	21.2	19.3	22.0	28.8	12.5
09	18.6	17.8	16.4	16.0	15.4	15.0	14.7	16.3	19.4	21.1	23.0	24.7	26.5	28.0	28.5	28.7	29.3	29.6	29.9	29.2	27.5	22.1	18.9	17.2	22.2	29.9	14.7
10	16.0	18.0	17.9	17.3	17.1	16.5	15.0	17.8	21.2	23.4	24.6	26.3	28.4	30.4	31.7	32.6	33.2	32.7	32.4	31.6	28.5	25.0	24.8	23.7	24.4	33.2	15.0
11	22.4	21.7	17.3	15.8	17.0	15.2	15.3	17.1	20.8	24.7	28.1	30.4	31.8	30.8	30.6	31.7	32.7	32.4	31.8	30.2	28.7	25.0	22.2	19.7	24.7	32.7	15.2
12	19.2	17.0	15.9	14.6	15.2	16.6	15.7	19.9	24.6	25.3	26.1	28.9	31.8	33.7	34.8	35.5	35.4	34.8	33.1	32.2	31.2	27.7	28.5	29.1	26.1	35.5	14.6
13	27.1	26.7	23.7	22.0	19.9	18.1	17.9	20.4	24.4	26.1	26.9	27.5	28.5	28.7	29.4	30.6	30.8	30.5	30.1	29.6	27.6	24.3	21.5	20.0	25.5	30.8	17.9
14	18.7	17.0	15.7	13.1	11.4	10.3	10.5	15.1	18.5	20.4	21.5	22.5	23.4	24.7	25.5	26.4	27.1	27.4	27.8	26.9	25.1	20.9	18.0	17.2	20.2	27.8	10.3
15	16.5	13.9	13.0	12.9	14.2	14.8	14.5	18.0	21.1	23.7	25.9	27.5	28.9	30.1	31.4	32.1	32.3	33.1	33.4	32.5	29.7	25.5	22.9	22.4	23.8	33.4	12.9
16	22.5	21.1	19.6	17.5	14.7	15.5	16.3	20.8	22.8	25.7	28.6	31.1	32.9	34.0	35.2	35.7	36.1	36.4	36.3	35.2	32.3	28.5	26.6	24.6	27.1	36.4	14.7
17	25.6	23.0	20.1	17.1	16.6	17.4	20.1	21.3	25.0	28.3	30.0	32.3	34.3	35.8	36.7	37.2	37.6	37.5	37.1	36.4	33.5	28.0	25.7	22.4	28.3	37.6	16.6
18	21.6	22.8	23.2	21.9	21.1	22.4	20.5	23.7	27.8	30.6	32.7	34.4	36.0	36.3	36.2	36.8	37.3	36.8	35.9	34.1	32.6	32.7	31.2	29.7	29.9	37.3	20.5
19	28.7	28.1	27.2	25.5	23.5	19.5	19.9	24.9	27.7	31.4	33.0	34.0	34.6	35.1	35.5	35.7	36.1	36.6	36.2	27.9	25.5	24.3	24.1	23.7	29.1	36.6	19.5
20	21.8	20.2	19.0	18.3	16.3	15.4	16.7	18.7	22.3	25.5	28.7	30.8	32.1	32.9	34.2	34.1	34.5	34.5	34.0	32.5	30.3	25.1	21.8	21.0	25.9	34.5	15.4
21	21.9	21.5	20.8	20.5	18.5	15.6	15.4	17.4	22.2	26.3	29.1	30.9	32.4	33.3	33.9	34.5	35.3	35.2	35.1	34.3	31.2	27.4	25.3	24.7	26.8	35.3	15.4
22	25.1	25.7	22.3	20.2	17.3	16.6	16.3	21.0	25.7	29.2	31.4	33.1	34.0	35.0	35.8	36.1	36.4	36.6	36.3	35.9	33.7	29.6	27.2	23.5	28.5	36.6	16.3
23	21.4	23.3	20.8	18.6	15.9	20.3	19.9	20.6	25.9	30.0	32.7	34.7	36.3	37.5	37.9	38.0	38.4	37.6	37.2	35.9	34.1	30.7	28.3	27.0	29.3	38.4	15.9
24	27.1	26.1	24.6	24.5	24.6	25.1	24.7	25.8	28.1	28.4	30.0	31.5	32.6	33.6	34.3	34.6	35.2	34.0	34.2	33.2	31.5	28.9	27.5	26.8	29.5	35.2	24.5
25	25.6	23.9	22.9	21.8	22.9	21.8	22.7	23.5	25.3	27.0	28.3	29.6	31.1	32.2	32.7	33.3	33.9	33.4	33.3	32.1	31.0	29.0	26.6	24.9	27.9	33.9	21.8
26	25.3	25.8	23.2	21.0	19.1	18.3	16.7	18.6	24.1	27.5	28.6	29.9	31.5	32.9	33.8	34.7	35.2	34.9	34.9	34.7	32.7	30.3	26.4	23.5	27.6	35.2	16.7
27	25.7	23.1	21.9	21.4	17.2	16.1	17.0	20.1	24.8	27.1	28.5	30.1	31.7	33.0	33.6	34.2	34.5	34.6	34.5	33.1	30.5	28.0	25.9	24.4	27.1	34.6	16.1
28	22.6	21.3	18.8	16.5	15.8	16.0	16.1	19.0	22.9	25.5	26.7	28.2	29.0	29.8	30.3	30.6	30.8	31.4	31.6	31.2	28.9	25.4	23.2	21.8	24.7	31.6	15.8
29	20.4	19.6	18.9	18.7	17.8	16.2	15.1	20.9	23.6	25.2	26.7	28.0	29.1	30.1	30.5	31.3	31.9	31.8	31.4	30.1	28.3	26.3	24.2	20.8	24.9	31.9	15.1
30	19.8	19.2	19.3	17.0	15.7	16.1	15.5	18.2	21.3	24.1	26.0	27.8	29.0	30.0	30.7	31.3	31.9	31.3	30.2	29.8	28.4	26.5	24.6	23.6	24.5	31.9	15.5
31	22.0	18.4	19.5	18.9	18.8	17.8	18.3	19.9	22.6	25.3	27.2	28.6	30.0	30.9	31.8	32.3	32.9	32.9	32.8	32.0	29.4	26.2	22.9	21.2	25.5	32.9	17.8
MEAN	21.8	20.9	19.6	18.4	17.7	17.5	17.2	19.7	23.1	25.6	27.4	29.0	30.4	31.3	31.9	32.3	32.9	32.8	32.6	31.3	29.2	26.0	24.0	22.5	25.6		
MAX	28.7	28.1	27.2	25.5	24.6	25.1	24.7	25.8	28.1	31.4	33.0	34.7	36.3	37.5	37.9	38.0	38.4	37.6	37.2	36.4	34.1	32.7	31.2	29.7		38.4	
MIN	16.0	13.9	13.0	12.9	11.4	10.3	10.5	15.1	18.5	20.0	20.9	22.5	23.4	24.7	24.1	19.6	20.1	20.5	20.8	21.0	20.2	18.5	17.6	17.2			10.3

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 25.6 DEG C

MAXIMUM TEMPERATURE WAS 38.4 DEG C ON 7/23 AT 1700 MAXIMUM DAILY MEAN WAS 29.9 DEG C ON 7/18

MINIMUM TEMPERATURE WAS 10.3 DEG C ON 7/14 AT 600 MINIMUM DAILY MEAN WAS 20.2 DEG C ON 7/14

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

TEMPERATURE in DEG C for AUGUST, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	21.8	19.6	19.3	19.8	16.4	17.4	16.8	16.9	20.5	25.5	28.0	29.7	31.5	32.5	33.4	33.9	33.9	34.0	34.0	33.2	30.1	25.9	24.5	25.2	26.0	34.0	16.4
02	23.6	21.8	19.8	16.3	15.0	14.3	14.7	16.7	21.5	25.6	28.9	29.4	31.5	33.7	35.5	36.1	36.5	36.0	36.0	35.5	32.0	29.1	29.0	27.1	26.9	36.5	14.3
03	24.9	24.4	25.3	24.1	23.4	23.7	23.0	22.3	25.8	30.0	31.3	32.6	34.0	34.7	34.9	35.5	36.0	35.8	35.2	34.7	32.3	28.8	29.2	27.8	29.6	36.0	22.3
04	26.2	26.0	24.5	22.8	20.5	15.6	19.3	19.8	21.8	25.8	29.2	31.5	32.8	33.7	33.6	34.1	34.5	34.3	34.1	32.4	29.0	24.4	24.6	25.0	27.3	34.5	15.6
05	24.9	24.8	20.9	19.0	23.0	21.4	17.1	17.4	23.8	29.3	32.2	33.0	34.3	35.4	36.2	36.3	36.3	36.4	35.4	32.5	30.8	30.5	30.3	30.6	28.8	36.4	17.1
06	29.9	28.9	27.5	24.3	24.2	25.1	23.1	20.8	24.3	30.1	31.9	32.9	33.4	34.0	34.5	34.6	34.5	34.2	32.3	23.9	19.5	18.0	16.4	14.8	27.2	34.6	14.8
07	13.2	12.2	10.6	9.7	9.9	9.4	9.4	11.0	15.7	17.6	19.3	20.1	20.9	22.1	22.8	23.6	23.7	23.5	23.0	21.8	20.8	19.1	17.9	17.0	17.3	23.7	9.4
08	16.5	16.1	15.1	13.6	13.1	12.9	12.4	12.7	13.8	14.7	15.3	15.9	17.5	18.5	19.8	20.5	20.6	19.8	19.8	19.8	18.5	15.4	13.5	12.4	16.2	20.6	12.4
09	12.3	10.7	10.1	9.5	9.2	8.6	6.9	8.9	15.0	17.8	19.7	21.0	21.9	22.5	23.2	23.8	24.3	24.2	24.1	23.4	21.4	17.5	15.7	14.3	16.9	24.3	6.9
10	13.6	11.6	11.6	10.8	9.8	8.4	8.1	12.8	16.9	19.7	22.9	25.3	26.6	27.3	28.2	28.9	29.1	29.6	29.1	28.0	24.8	21.2	20.1	18.8	20.1	29.6	8.1
11	17.1	15.6	16.3	15.4	16.4	15.1	12.1	12.9	17.9	22.3	25.1	27.5	29.4	31.1	32.0	33.0	33.5	33.5	33.2	32.6	29.1	23.6	23.0	23.6	23.8	33.5	12.1
12	23.6	21.4	18.0	16.1	15.8	15.1	13.9	14.9	20.5	24.8	29.8	31.7	33.1	34.1	34.6	34.5	34.8	35.0	34.6	33.9	29.1	25.1	24.8	23.1	25.9	35.0	13.9
13	25.0	20.8	18.8	17.2	18.6	20.8	19.5	18.5	21.9	25.9	28.2	29.9	32.2	33.5	34.7	35.0	34.3	33.2	34.1	32.5	29.6	27.4	28.4	28.6	27.0	35.0	17.2
14	26.1	22.9	22.4	20.4	18.7	19.2	18.5	19.9	21.9	25.3	27.7	28.9	30.1	31.0	31.4	32.0	32.0	31.8	31.5	30.4	25.4	23.0	21.3	19.9	25.5	32.0	18.5
15	18.8	17.6	15.4	14.3	14.3	16.0	14.0	12.2	12.3	14.1	16.9	18.5	19.6	20.4	21.2	22.1	22.5	22.8	23.0	22.5	19.7	16.0	15.1	13.2	17.6	23.0	12.2
16	11.6	11.2	11.4	10.7	10.4	9.2	7.5	10.5	15.1	17.7	19.4	21.3	22.6	23.1	23.8	24.1	24.3	24.5	24.8	24.3	21.3	17.5	15.9	14.7	17.4	24.8	7.5
17	13.6	12.4	12.0	11.7	10.0	10.8	7.9	10.5	16.8	19.9	22.2	23.8	25.3	25.9	26.7	26.9	27.0	27.0	26.8	25.8	23.0	18.5	14.9	14.5	18.9	27.0	7.9
18	14.5	14.6	13.1	12.6	11.6	11.2	11.8	11.9	17.6	19.8	21.3	23.4	25.1	26.2	26.9	26.8	26.5	26.6	26.3	25.9	23.2	18.9	16.7	13.5	19.4	26.9	11.2
19	13.8	12.7	9.9	9.0	8.9	8.7	8.3	11.3	17.0	21.6	23.9	25.5	26.6	27.7	28.4	29.2	30.1	30.8	31.0	30.2	26.0	23.6	21.5	18.9	20.6	31.0	8.3
20	20.3	19.1	18.3	16.2	16.6	12.3	11.5	16.4	20.9	23.7	26.4	28.4	30.1	31.5	32.5	33.1	33.6	33.9	33.5	32.5	28.0	23.7	22.4	20.0	24.4	33.9	11.5
21	20.6	20.4	17.3	15.2	11.8	12.0	12.2	13.3	20.6	23.6	27.3	29.8	32.3	34.2	35.3	36.1	36.5	36.7	36.6	35.2	30.0	27.2	26.9	25.2	25.7	36.7	11.8
22	21.5	19.2	17.9	16.3	15.9	15.0	18.4	18.8	21.7	25.3	29.2	32.2	33.7	35.0	35.8	36.5	36.3	36.5	36.3	34.2	30.6	31.2	30.4	28.9	27.4	36.5	15.0
23	27.8	26.7	25.8	25.1	21.0	20.8	21.0	20.8	22.2	25.1	25.5	25.8	27.9	27.8	27.5	28.0	26.2	20.9	18.8	19.8	19.5	19.0	18.1	16.7	23.2	28.0	16.7
24	16.4	15.6	15.2	13.4	12.3	11.8	12.3	14.0	16.2	18.1	19.8	21.8	23.4	24.5	25.3	26.2	26.7	26.7	26.2	24.6	23.0	21.3	18.7	15.8	19.6	26.7	11.8
25	14.8	13.8	13.0	13.5	13.0	14.1	15.4	16.1	17.3	19.2	22.7	24.7	26.3	27.4	28.5	28.5	29.4	29.4	29.0	28.0	25.0	21.9	20.1	18.8	21.2	29.4	13.0
26	17.9	18.0	18.3	14.9	13.0	12.0	11.0	14.4	20.2	22.3	24.8	27.1	29.0	30.5	31.2	31.6	32.3	32.2	31.6	30.3	26.5	25.1	22.3	20.3	23.2	32.3	11.0
27	19.5	17.9	18.4	17.8	15.0	12.5	13.6	16.6	21.7	24.8	26.1	28.0	30.1	31.4	32.5	33.3	33.5	33.1	32.7	31.2	26.5	20.8	21.3	19.6	24.1	33.5	12.5
28	19.6	18.6	17.0	16.4	12.6	11.1	10.6	10.9	18.6	23.3	26.9	29.5	31.2	32.7	33.4	34.2	34.3	34.4	33.9	31.9	28.1	25.6	25.3	24.6	24.4	34.4	10.6
29	23.8	23.2	21.1	18.9	15.7	15.0	16.4	15.8	19.8	23.2	25.7	27.7	29.5	30.5	31.6	32.4	33.4	33.6	33.0	31.2	27.1	24.4	24.4	22.4	25.0	33.6	15.0
30	20.9	16.4	16.4	15.6	16.8	13.6	11.3	13.1	17.4	23.3	27.9	31.1	32.3	33.6	34.4	35.1	34.8	34.7	33.4	30.1	24.6	24.3	21.4	20.2	24.3	35.1	11.3
31	19.5	18.5	17.2	15.5	15.8	14.5	12.5	13.8	18.0	20.8	22.8	25.4	27.3	29.2	30.0	30.5	30.9	31.1	30.9	30.2	26.2	23.2	22.1	23.7	22.9	31.1	12.5
MEAN	19.8	18.5	17.3	16.0	15.1	14.4	13.9	15.0	19.2	22.6	25.1	26.9	28.4	29.5	30.3	30.9	31.0	30.8	30.5	29.1	25.8	22.9	21.8	20.6	23.2		
MAX	29.9	28.9	27.5	25.1	24.2	25.1	23.1	22.3	25.8	30.1	32.2	33.0	34.3	35.4	36.2	36.5	36.5	36.7	36.6	35.5	32.3	31.2	30.4	30.6		36.7	
MIN	11.6	10.7	9.9	9.0	8.9	8.4	6.9	8.9	12.3	14.1	15.3	15.9	17.5	18.5	19.8	20.5	20.6	19.8	18.8	19.8	18.5	15.4	13.5	12.4			6.9

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 23.2 DEG C

MAXIMUM TEMPERATURE WAS 36.7 DEG C ON 8/21 AT 1800 MAXIMUM DAILY MEAN WAS 29.6 DEG C ON 8/ 3

MINIMUM TEMPERATURE WAS 6.9 DEG C ON 8/ 9 AT 700 MINIMUM DAILY MEAN WAS 16.2 DEG C ON 8/ 8

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

TEMPERATURE in DEG C for SEPTEMBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	21.5	18.6	17.2	19.6	16.7	14.8	13.1	12.5	18.9	23.2	27.4	29.2	30.6	31.5	32.1	32.7	33.0	32.9	32.6	31.4	25.9	24.0	22.8	22.6	24.4	33.0	12.5
02	21.5	22.1	19.7	19.1	20.4	15.8	13.8	13.2	18.9	24.2	25.2	26.7	29.7	31.0	32.1	32.8	32.7	32.9	32.2	30.0	25.8	24.6	22.7	22.8	24.6	32.9	13.2
03	21.7	17.9	17.6	16.6	15.1	17.3	14.8	14.2	18.9	22.8	27.0	29.6	30.6	30.2	31.7	32.7	33.2	33.2	32.6	30.0	25.6	24.1	20.8	18.0	24.0	33.2	14.2
04	17.5	16.0	15.8	14.8	15.1	13.5	12.9	13.0	18.8	23.2	26.1	28.5	30.0	31.6	32.3	33.1	33.2	30.0	27.8	28.3	28.3	25.6	25.0	24.6	23.5	33.2	12.9
05	23.6	22.8	20.9	18.6	18.2	18.3	19.9	20.5	21.6	23.1	24.4	26.2	26.3	26.6	28.0	28.6	29.0	28.7	28.2	27.4	24.8	24.4	24.3	23.7	24.1	29.0	18.2
06	23.1	23.2	22.9	21.7	21.2	20.6	19.0	19.0	21.9	25.0	27.3	28.2	29.6	30.8	31.5	32.0	32.3	31.9	31.5	30.0	25.6	25.5	24.2	24.6	25.9	32.3	19.0
07	21.8	18.1	15.7	16.8	16.2	14.7	12.8	13.1	17.4	20.4	21.9	24.2	25.7	26.4	27.4	28.2	27.9	27.8	27.6	26.0	21.8	20.8	19.9	18.8	21.3	28.2	12.8
08	16.8	15.2	15.8	14.4	11.9	12.7	12.1	12.8	16.3	18.9	20.9	22.1	23.1	24.2	25.0	25.4	26.0	26.1	25.6	23.2	19.7	16.7	16.7	14.8	19.0	26.1	11.9
09	13.5	14.3	13.1	10.9	8.7	9.0	9.2	7.6	14.2	18.6	21.2	23.6	25.8	27.2	29.1	30.1	30.2	30.4	30.4	28.0	23.9	22.5	20.4	17.8	20.0	30.4	7.6
10	18.4	19.1	16.8	13.6	12.2	10.9	10.7	10.2	16.0	21.4	24.5	26.6	28.6	29.8	29.9	30.2	30.2	30.7	30.7	28.2	22.5	20.9	18.5	16.8	21.6	30.7	10.2
11	15.9	16.2	16.7	17.3	15.7	15.5	15.5	12.7	15.7	19.8	23.9	27.5	29.6	30.8	31.5	31.9	31.8	31.6	31.1	28.2	22.1	19.0	17.8	19.6	22.4	31.9	12.7
12	16.8	15.8	16.2	16.4	15.4	16.0	14.1	12.1	16.6	19.7	23.1	25.7	27.5	28.8	29.8	30.6	30.8	30.8	29.9	27.1	22.9	20.2	18.7	15.7	21.7	30.8	12.1
13	15.4	14.0	16.2	16.2	15.0	14.7	10.4	12.3	14.9	21.2	25.7	27.5	28.2	28.7	28.7	25.1	22.5	21.9	22.2	23.1	23.4	24.3	23.3	21.9	20.7	28.7	10.4
14	21.2	22.6	22.1	21.6	20.3	20.1	19.0	18.7	21.4	25.7	26.4	26.7	22.6	19.6	21.9	14.0	12.9	15.7	17.1	17.4	15.4	14.3	13.0	10.4	19.2	26.7	10.4
15	10.9	10.7	9.5	9.6	10.3	10.2	10.7	10.8	11.3	13.0	15.6	17.1	19.0	21.0	21.7	21.3	21.3	20.5	19.1	18.4	17.0	13.7	12.4	12.2	14.9	21.7	9.5
16	10.2	9.5	10.2	9.3	10.9	11.9	10.6	9.2	12.1	16.1	18.4	20.7	22.6	23.8	25.2	26.0	26.4	26.5	26.1	23.5	19.4	17.0	16.3	15.2	17.4	26.5	9.2
17	15.0	14.0	12.8	13.4	10.7	10.1	9.8	9.2	14.7	17.7	20.3	21.9	24.2	26.2	27.2	27.8	28.1	28.4	28.0	25.4	21.8	21.1	18.9	18.7	19.4	28.4	9.2
18	16.9	14.2	13.4	10.9	11.7	9.8	9.7	9.8	15.0	17.9	21.6	23.8	25.6	26.9	28.1	28.5	28.9	28.7	28.4	25.8	21.8	19.2	17.8	19.2	19.7	28.9	9.7
19	18.3	14.9	13.6	12.5	11.0	11.6	11.0	10.7	15.2	19.9	24.5	27.3	28.7	29.5	30.3	30.8	30.7	30.4	29.6	27.3	24.6	21.6	20.6	22.7	21.6	30.8	10.7
20	20.9	20.1	18.0	17.5	17.5	18.3	17.3	17.7	18.1	20.1	22.3	23.2	24.1	24.7	25.3	25.9	25.9	25.5	24.6	21.8	18.6	17.3	18.4	14.0	20.7	25.9	14.0
21	10.1	9.1	10.5	10.8	10.9	9.7	7.8	8.0	10.0	12.9	15.0	16.6	17.6	18.5	19.1	19.3	19.4	19.5	18.5	16.3	12.3	9.0	6.6	6.7	13.1	19.5	6.6
22	6.4	5.6	4.7	4.9	5.0	2.5	.8	.1	6.6	11.9	14.8	16.9	18.9	20.3	21.1	21.7	22.3	22.6	22.6	20.2	15.0	11.4	11.2	8.7	12.3	22.6	.1
23	8.1	8.7	6.8	4.7	4.0	6.1	2.9	5.0	9.8	13.6	16.5	19.7	23.2	24.9	26.0	26.7	27.1	26.9	25.9	22.3	18.2	14.8	14.3	11.8	15.3	27.1	2.9
24	11.8	12.3	11.5	8.3	8.8	6.0	7.1	5.5	10.7	16.6	19.9	22.1	24.0	25.4	26.8	27.5	28.0	28.1	27.6	23.6	17.7	15.1	13.5	12.6	17.1	28.1	5.5
25	10.4	9.5	7.8	8.5	8.5	9.0	7.1	5.8	10.9	17.0	21.2	24.0	25.4	26.6	27.5	28.5	29.4	29.4	28.9	23.4	20.8	16.5	13.6	12.8	17.6	29.4	5.8
26	12.2	9.9	9.1	9.4	9.3	8.3	6.1	6.6	10.4	17.0	22.7	25.6	27.5	29.0	30.0	30.4	30.4	30.6	29.6	26.3	24.3	23.3	21.6	17.2	19.5	30.6	6.1
27	14.1	13.2	10.7	8.7	7.2	7.3	6.3	6.2	13.4	19.7	21.8	23.6	25.5	26.9	27.4	27.8	28.1	28.1	27.5	22.9	20.8	16.6	13.3	12.2	17.9	28.1	6.2
28	12.8	11.8	12.7	10.6	10.0	9.3	5.1	5.2	9.3	15.4	19.9	21.8	23.7	26.2	28.5	30.3	31.5	31.5	30.3	26.2	26.9	25.4	22.5	21.6	19.5	31.5	5.1
29	22.1	21.8	21.2	21.3	21.5	18.8	17.6	19.0	20.0	22.8	25.1	26.6	27.9	28.8	29.5	29.7	29.4	28.9	28.0	27.1	25.7	23.6	18.7	15.5	23.8	29.7	15.5
30	13.2	12.6	10.0	5.5	4.9	5.5	5.9	5.6	6.1	6.2	6.8	7.7	8.7	8.8	9.5	10.9	9.8	9.0	8.4	7.4	6.5	6.4	5.6	5.0	7.8	13.2	4.9
MEAN	16.1	15.1	14.3	13.4	12.8	12.3	11.1	10.9	14.8	18.8	21.7	23.7	25.2	26.2	27.1	27.4	27.4	27.3	26.8	24.5	21.3	19.3	17.8	16.6	19.7		
MAX	23.6	23.2	22.9	21.7	21.5	20.6	19.9	20.5	21.9	25.7	27.4	29.6	30.6	31.6	32.3	33.1	33.2	33.2	32.6	31.4	28.3	25.6	25.0	24.6		33.2	
MIN	6.4	5.6	4.7	4.7	4.0	2.5	.8	.1	6.1	6.2	6.8	7.7	8.7	8.8	9.5	10.9	9.8	9.0	8.4	7.4	6.5	6.4	5.6	5.0			.1

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 720 DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 19.7 DEG C

MAXIMUM TEMPERATURE WAS 33.2 DEG C ON 9/ 3 AT 1800 **MAXIMUM DAILY MEAN WAS 25.9 DEG C ON 9/ 6**

MINIMUM TEMPERATURE WAS .1 DEG C ON 9/22 AT 800 **MINIMUM DAILY MEAN WAS 7.8 DEG C ON 9/30**

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

TEMPERATURE in DEG C for OCTOBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	4.6	4.3	3.1	2.0	.0	-.1	-1.7	-.9	2.2	4.3	5.9	7.0	7.9	8.7	9.5	9.9	10.0	10.1	9.8	7.9	3.2	1.4	1.3	.8	4.6	10.1	-1.7
02	.0	-.7	-.9	-1.2	-3.4	-3.2	-3.8	-3.3	-.6	4.9	7.8	9.8	11.2	12.8	13.5	14.7	15.0	14.4	13.8	11.1	7.5	7.1	8.5	9.1	6.0	15.0	-3.8
03	9.6	9.5	8.7	6.2	6.1	6.4	6.4	6.0	7.9	9.2	10.8	11.8	13.4	14.7	16.6	18.2	19.1	19.4	17.8	14.4	14.8	14.1	16.7	16.3	12.3	19.4	6.0
04	13.7	11.8	10.7	11.0	11.0	12.7	15.7	15.7	11.2	11.4	10.3	8.9	8.4	7.9	5.8	5.9	6.6	6.6	3.5	3.3	2.6	1.2	.7	-.1	8.2	15.7	-.1
05	.6	.9	-1.4	-1.8	-2.4	-2.1	-.2	-1.5	-1.7	2.2	5.1	6.6	7.6	8.3	9.0	9.2	9.4	9.1	8.5	6.3	4.6	2.1	1.8	1.1	3.4	9.4	-2.4
06	1.2	1.7	.9	1.2	-.9	-1.2	-.7	-.7						10.0	10.9	11.6	11.7	11.8	10.5	7.1	2.6	1.2	-.1	-1.7	4.1	11.8	-1.7
07	-2.0	-1.8	-3.9	-3.0	-2.7	-2.9	-3.1	-6.0	-2.0	3.0	6.1	8.6	10.2	11.2	12.6	13.7	14.0	14.0	13.3	9.3	3.3	3.1	2.9	2.6	4.2	14.0	-6.0
08	-.8	-.5	-1.3	-2.2	-.6	-1.4	-.6	-1.2	.1	5.4	8.7	9.6	10.4	12.2	12.7	13.0	13.0	12.8	11.4	7.9	5.1	2.7	1.9	.5	5.0	13.0	-2.2
09	-1.8	-2.6	-2.9	-2.7	-3.0	-4.4	-3.2	-4.1	1.5	7.6	11.3	14.0	15.5	16.7	17.1	17.6	17.5	17.4	16.0	11.6	7.9	7.6	8.4	7.0	7.1	17.6	-4.4
10	8.2	5.5	3.9	3.4	1.3	-.9	-2.4	-1.6	.9	5.5	8.0	9.5	10.0	10.5	11.5	11.6	12.3	12.3	11.6	8.1	5.7	4.5	4.5	3.3	6.1	12.3	-2.4
11	3.8	4.8	5.7	6.4	6.7	6.5	6.2	6.4	6.1	8.0	10.1	12.3	15.5	17.8	18.7	18.5	18.0	16.9	15.1	12.2	10.7	9.8	8.2	7.9	10.5	18.7	3.8
12	7.5	6.0	5.6	3.0	.7	.0	-.3	-1.4	.8	7.2	10.6	13.2	16.5	19.5	20.9	20.9	21.0	20.7	19.5	16.6	15.2	15.6	14.1	14.5	11.2	21.0	-1.4
13	13.8	13.2	12.0	11.0	11.3	11.1	11.0	10.4	11.7	14.0	15.7	16.9	17.9	18.4	18.3	18.5	18.3	17.4	16.2	14.8	15.2	15.1	14.0	11.5	14.5	18.5	10.4
14	10.9	11.4	11.4	9.8	9.6	9.7	9.5	11.1	10.8	11.7	13.6	14.7	15.6	16.4	15.2	17.0	18.2	16.2	15.9	12.8	11.6	8.9	8.4	7.9	12.4	18.2	7.9
15	8.9	7.7	8.6	8.9	7.4	7.6	5.6	5.7	5.9	10.4	13.5	15.4	17.0	18.1	18.6	18.6	18.6	18.3	16.8	12.7	11.8	9.7	7.8	7.3	11.7	18.6	5.6
16	6.6	7.1	4.1	2.6	3.4	3.4	1.6	.8	4.0	8.0	11.9	14.3	16.2	17.6	18.4	19.1	19.2	19.0	17.4	13.5	10.3	7.9	6.9	6.7	10.0	19.2	.8
17	5.8	6.5	4.7	2.7	3.0	2.6	-.1	2.4	4.7	9.7	12.2	14.2	16.1	17.6	19.2	20.2	21.2	21.5	20.4	14.3	10.4	10.8	9.4	8.7	10.8	21.5	-.1
18	7.8	5.4	4.8	5.4	5.5	6.0	5.7	5.9	6.3	11.1	16.1	18.2	20.6	23.9	25.6	26.3	26.0	25.4	22.6	18.9	19.7	16.9	15.7	13.5	14.7	26.3	4.8
19	14.6	13.8	14.0	14.1	13.6	13.8	12.1	9.6	8.6	13.4	16.5	18.1	19.2	20.0	20.7	18.6	15.4	14.1	10.6	9.5	8.8	8.1	7.9	8.1	13.5	20.7	7.9
20	8.2	8.4	8.3	7.7	7.0	6.7	7.1	7.0	6.3	8.1	8.6	10.7	11.5	12.1	12.4	12.6	12.8	12.8	11.4	10.4	8.8	7.4	6.4	5.5	9.1	12.8	5.5
21	5.4	4.4	3.7	2.9	2.5	2.0	1.1	.7	2.4	5.0	7.6	9.5	10.8	11.9	12.5	12.5	12.5	12.3	11.0	9.9	10.1	8.9	7.2	4.1	7.1	12.5	.7
22	3.4	2.7	2.0	2.0	.5	.4	1.1	2.9	2.1	5.6	8.7	10.3	12.4	13.8	14.5	15.0	15.3	15.1	13.7	8.4	6.4	5.2	4.7	4.4	7.1	15.3	.4
23	5.6	4.0	3.5	3.9	3.7	3.9	4.4	5.4	6.1	6.9	9.0	10.1	12.8	14.2	15.3	15.9	16.0	15.9	14.8	13.3	12.7	11.9	11.0	10.8	9.6	16.0	3.5
24	10.5	10.1	8.5	7.5	4.8	6.0	7.0	6.3	7.0	9.9	11.0	12.1	13.3	14.4	14.5	13.8	15.0	13.9	11.2	8.6	8.6	8.1	7.4	6.9	9.9	15.0	4.8
25	5.4	4.1	1.3	-.5	-1.8	-2.1	-1.3	-2.0	-.5	3.5	5.4	7.3	8.1	8.8	9.4	9.8	10.0	9.8	7.3	3.1	2.0	.8	-1.7	-2.5	3.5	10.0	-2.5
26	-2.4	-3.0	-4.6	-4.2	-4.0	-4.3	-4.9	-2.7	-1.3	1.2	4.8	8.4	10.2	11.4	13.1	14.0	14.0	13.0	11.8	9.4	10.7	12.4	13.2	12.7	5.4	14.0	-4.9
27	12.9	9.0	6.8	5.3	4.4	2.8	2.0	3.3	3.3	3.3	3.2	3.5	3.9	4.5	4.4	4.5	4.8	4.2	3.1	2.2	1.4	.3	.4	-.3	3.9	12.9	-.3
28	.0	-.7	-.9	-.9	-1.8	-.8	-1.2	-.7	-.5	.0	2.2	4.1	5.0	5.4	5.8	6.2	6.5	5.6	4.5	3.6	2.5	1.2	.2	-2.1	1.8	6.5	-2.1
29	-2.4	-4.1	-2.2	-1.4	-3.2	-7.0	-6.3	-7.2	-7.4	-1.6	.4	1.5	2.8	3.6	4.1	4.6	4.8	4.4	4.0	3.4	2.5	3.4	3.5	2.8	.1	4.8	-7.4
30	2.9	2.8	2.8	2.6	3.2	3.9	3.6	3.7	3.9	4.7	5.7	6.8	8.2	9.1	9.7	10.7	12.1	12.4	11.6	9.4	8.8	7.8	7.7	6.1	6.7	12.4	2.6
31	3.4	1.6	-.4	-1.1	-1.6	-2.1	-3.5	-4.0	-2.5	2.2	6.9	10.5	12.2	13.5	14.5	15.2	15.5	15.3	13.8	7.1	5.4	3.7	2.7	4.4	5.5	15.5	-4.0
MEAN	5.3	4.6	3.8	3.3	2.6	2.4	2.2	2.1	3.2	6.5	8.9	10.6	12.0	13.1	13.7	14.1	14.3	13.9	12.5	9.7	8.1	7.1	6.5	5.7	7.8		
MAX	14.6	13.8	14.0	14.1	13.6	13.8	15.7	15.7	11.7	14.0	16.5	18.2	20.6	23.9	25.6	26.3	26.0	25.4	22.6	18.9	19.7	16.9	16.7	16.3		26.3	
MIN	-2.4	-4.1	-4.6	-4.2	-4.0	-7.0	-6.3	-7.2	-7.4	-1.6	.4	1.5	2.8	3.6	4.1	4.5	4.8	4.2	3.1	2.2	1.4	.3	-1.7	-2.5			-7.4

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 739 DATA RECOVERY RATE = 99.3 %

MONTHLY MEAN = 7.8 DEG C

MAXIMUM TEMPERATURE WAS 26.3 DEG C ON 10/18 AT 1600 **MAXIMUM DAILY MEAN WAS 14.7 DEG C ON 10/18**

MINIMUM TEMPERATURE WAS -7.4 DEG C ON 10/29 AT 900 **MINIMUM DAILY MEAN WAS .1 DEG C ON 10/29**

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

TEMPERATURE in DEG C for NOVEMBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	4.3	.9	-.2	-.8	-1.1	-1.9	-2.9	-2.8	-2.1	3.4	7.1	9.8	12.3	14.3	15.6	16.0	16.3	16.2	13.4	8.0	7.5	3.4	2.5	1.8	5.9	16.3	-2.9
02	2.2	1.6	1.9	3.8	2.9	3.5	2.7	2.2	3.1	4.3	7.0	9.2	10.8	12.5	14.8	15.4	15.5	12.6	6.0	4.0	3.9	2.8	.3	.5	6.0	15.5	.3
03	-.7	-.8	-1.4	-1.8	-2.1	-3.7	-4.4	-2.6	2.9	7.0	9.5	12.4	13.9	14.6	15.4	15.8	15.2	11.8	6.0	5.4	5.1	4.9	3.5	.8	5.3	15.8	-4.4
04	-.8	.7	.8	-1.4	-1.3	-3.7	-2.9	-3.2	2.3	6.5	9.1	11.0	13.0	14.8	16.2	16.2	14.5	11.5	6.0	5.9	5.6	1.5	1.8	-1.1	5.1	16.2	-3.7
05	-.8	-1.5	-1.8	-2.4	-2.0	-3.1	-2.6	-2.9	2.5	7.6	11.5	15.1	17.7	20.4	22.6	22.3	20.6	17.9	12.8	9.8	8.8	9.1	12.7	12.5	8.6	22.6	-3.1
06	11.0	9.1	9.6	8.8	6.8	6.4	6.7	8.1	9.4	13.7	16.6	18.0	18.7	18.9	18.9	18.4	17.9	13.4	7.1	6.4	6.2	6.0	5.9	4.8	11.1	18.9	4.8
07	5.1	3.3	2.1	1.0	3.2	1.0	.8	.4	7.6	9.8	11.7	13.4	14.7	15.3	15.1	15.0	14.4	10.4	6.5	4.8	5.3	5.1	3.7	3.4	7.2	15.3	.4
08	3.0	2.5	1.5	.1	-.3	-1.4	-1.8	-1.8	2.9	6.5	8.6	9.4	10.1	10.5	10.7	10.5	9.5	6.6	3.5	3.2	2.1	1.8	-.3	-3.3	3.9	10.7	-3.3
09	-1.9	-3.3	-4.8	-3.8	-2.9	-3.1	-3.7	-4.7	-.7	3.9	5.9	7.4	8.5	9.6	10.8	10.9	9.9	6.1	3.3	3.7	2.7	3.4	2.4	2.1	2.6	10.9	-4.8
10	1.5	2.1	1.5	.8	1.5	1.5	1.9	2.6	3.8	6.4	7.5	8.6	10.3	11.6	12.3	12.7	11.9	8.5	7.8	6.2	5.2	3.5	3.9	4.3	5.7	12.7	.8
11	2.9	3.3	3.2	3.0	3.7	3.7	3.1	3.3	4.7	6.7	8.7	10.7	12.2	12.9	12.5	12.1	11.7	9.6	8.9	7.4	6.4	5.9	4.5	3.6	6.9	12.9	2.9
12	4.5	7.4	9.8	11.0	9.4	9.4	8.7	8.3	8.4	9.2	10.6	10.7	10.5	9.7	8.1	7.2	6.5	5.5	5.1	4.8	4.3	2.8	1.8	1.3	7.3	11.0	1.3
13	1.9	1.1	-.4	-1.9	-1.3	-2.5	-4.7	-5.5	-1.9	.3	3.4	4.1	4.8	5.2	5.3	5.3	4.4	2.2	-3.3	-4.4	-6.5	-6.6	-4.3	-5.7	-.5	5.3	-6.6
14	-7.1	-7.1	-5.9	-6.0	-3.3	-2.4	-2.6	-2.5	-.9	-.9	-2.1	-1.8	-.8	.5	1.3	.9	-.3	-1.8	-3.6	-5.3	-5.9	-7.7	-8.2	-10	-3.5	1.3	-10
15	-12	-13	-13	-12	-13	-13	-14	-14	-9.3	-5.3	-2.3	-.9	-.1	.5	1.1	1.3	.9	-1.6	-4.9	-6.2	-7.9	-8.3	-8.2	-9.7	-6.9	1.3	-14
16	-9.6	-11	-9.0	-10	-10	-10	-11	-13	-7.8	-4.0	-1.5	.1	1.7	3.1	3.9	4.3	3.9	.3	-3.4	-4.4	-3.3	-3.8	-4.9	-6.0	-4.4	4.3	-13
17	-7.4	-9.8	-9.6	-9.5	-9.7	-9.9	-11	-12	-6.7	-2.8	.0	2.3	3.9	5.0	5.9	6.6	5.3	1.8	-1.8	-3.1	-3.2	-4.9	-5.2	-7.4	-3.5	6.6	-12
18	-8.5	-8.9	-8.0	-9.5	-9.0	-9.6	-11	-9.3	-4.5	.6	2.6	4.8	5.5	7.4	8.4	6.1	5.9	3.3	.0	1.3	.9	.8	.8	-1.4	-1.3	8.4	-11
19	-2.0	-2.7	-3.7	-3.1	-4.6	-7.4	-7.7	-9.1	-5.9	-1.6	1.0	3.1	4.8	6.0	6.9	7.2	6.5	2.8	.0	.5	-1.7	-4.1	-3.6	-6.8	-1.1	7.2	-9.1
20	-6.8	-8.1	-8.8	-8.6	-9.5	-11	-10	-9.9	-7.4	-.8	3.0	4.3	5.7	7.0	9.6	12.9	12.6	12.2	13.1	6.8	6.5	8.4	11.7	10.8	1.8	13.1	-11
21	6.3	2.6	3.0	2.6	1.0	.3	1.8	1.0	2.6	4.0	5.0	5.3	5.6	6.0	5.9	5.5	3.7	1.8	-.4	-2.8	-3.4	-5.2	-5.3	-3.8	1.8	6.3	-5.3
22	-2.5	-2.9	-3.4	-4.3	-3.8	-4.0	-5.6	-8.7	-4.6	-1.1	3.0	6.2	8.2	8.6	3.4	4.1	1.2	-.3	-.2	.3	-.5	-3.2	-5.2	-3.0	-.8	8.6	-8.7
23	-7.9	-8.5	-10	-11	-10	-9.7	-5.6	-6.3	-7.3	-3.2	.3	1.3	1.7	2.0	2.5	2.4	2.1	-.1	-3.2	-5.5	-8.0	-7.4	-8.7	-8.5	-4.5	2.5	-11
24	-9.7	-11	-11	-12	-11	-11	-12	-12	-9.2	-5.0	-2.0	.0	1.5	2.3	3.0	3.2	2.5	-.5	-4.8	-5.4	-5.2	-5.9	-6.7	-7.0	-5.4	3.2	-12
25	-7.7	-9.1	-9.9	-9.3	-9.9	-11	-11	-10	-7.8	-4.0	-1.3	.7	2.3	3.7	4.5	4.6	3.3	.2	-3.6	-5.1	-6.7	-7.0	-8.2	-8.2	-4.6	4.6	-11
26	-9.1	-9.1	-10	-9.8	-9.2	-11	-12	-12	-7.9	-2.6	.5	2.5	4.0	5.2	5.7	5.8	4.6	.2	-2.9	-2.2	-3.2	-3.1	-6.3	-6.8	-3.7	5.8	-12
27	-7.1	-8.8	-9.5	-10	-11	-11	-11	-11	-7.8	-3.0	-.3	1.6	2.6	3.5	4.3	4.7	2.7	.5	-1.4	-.9	-.9	-1.5	-2.6	-2.5	-3.4	4.7	-11
28	-3.3	-3.9	-3.5	-3.7	-2.9	.2	3.2	2.8	3.0	4.8	4.9	6.2	7.5	7.8	8.0	7.6	6.2	4.3	2.4	2.2	1.9	2.3	1.9	1.9	2.6	8.0	-3.9
29	.6	-.3	-2.2	-1.7	-.3	-1.3	-2.2	-2.7	-1.2	1.8	3.8	5.5	6.6	7.3	7.8	7.8	6.4	2.0	-.4	-.6	-1.2	-1.7	-2.9	-3.1	1.2	7.8	-3.1
30	-3.8	-4.5	-4.5	-5.4	-5.7	-6.6	-6.7	-9.0	-7.2	-2.6	-.4	1.4	2.9	4.2	5.2	5.4	4.9	2.4	-3.2	-6.2	-7.5	-8.3	-8.5	-8.4	-3.0	5.4	-9.0
MEAN	-2.2	-3.0	-3.3	-3.6	-3.5	-4.1	-4.2	-4.5	-1.6	2.0	4.4	6.1	7.4	8.4	8.8	8.9	8.0	5.3	2.2	1.0	.3	-.6	-1.1	-1.8	1.2		
MAX	11.0	9.1	9.8	11.0	9.4	9.4	8.7	8.3	9.4	13.7	16.6	18.0	18.7	20.4	22.6	22.3	20.6	17.9	13.4	9.8	8.8	9.1	12.7	12.5		22.6	
MIN	-12	-13	-13	-12	-13	-13	-14	-14	-9.3	-5.3	-2.3	-1.8	-.8	.5	1.1	.9	-.3	-1.8	-4.9	-6.2	-8.0	-8.3	-8.7	-10			-14

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 720 DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 1.2 DEG C

MAXIMUM TEMPERATURE WAS 22.6 DEG C ON 11/ 5 AT 1500 MAXIMUM DAILY MEAN WAS 11.1 DEG C ON 11/ 6

MINIMUM TEMPERATURE WAS -14.1 DEG C ON 11/15 AT 800 MINIMUM DAILY MEAN WAS -6.9 DEG C ON 11/15

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

EnergySolutions - Clive, Utah

TEMPERATURE in DEG C for DECEMBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	-9.9	-9.8	-10	-9.8	-12	-12	-12	-12	-7.7	-2.8	.1	2.6	4.1	4.9	6.4	7.0	5.6	2.2	-3.5	-5.7	-5.6	-3.6	-2.7	-2.0	-3.7	7.0	-12
02	-2.6	-3.2	-4.7	-5.9	-6.8	-7.8	-7.9	-11	-9.1	-4.4	-.6	.8	1.6	2.2	2.5	2.4	.7	-4.4	-7.7	-9.2	-11	-11	-9.9	-8.2	-4.8	2.5	-11
03	-8.0	-8.8	-10	-12	-11	-12	-12	-13	-9.7	-6.5	-4.2	-2.8	-1.9	-1.1	-.7	-1.1	-2.2	-6.6	-10	-12	-13	-13	-17	-16	-8.5	-.7	-17
04	-18	-16	-17	-17	-18	-18	-17	-17	-14	-8.9	-5.4	-1.3	.3	1.2	1.3	1.3	.3	-2.4	-8.1	-9.8	-12	-12	-10	-11	-9.5	1.3	-18
05	-12	-12	-11	-12	-13	-14	-11	-12	-9.6	-7.2	-6.3	-4.3	-3.9	-3.5	-2.5	-3.0	-4.1	-7.7	-11	-10	-11	-10	-9.7	-8.9	-8.7	-2.5	-14
06	-9.9	-11	-12	-13	-14	-15	-15	-17	-15	-11	-8.4	-7.2	-6.4	-5.8	-5.3	-5.2	-6.2	-9.3	-9.1	-8.2	-7.8	-7.9	-8.3	-8.3	-9.8	-5.2	-17
07	-8.2	-8.3	-8.4	-8.9	-9.3	-9.7	-10	-10	-9.9	-9.3	-8.6	-7.6	-6.8	-6.2	-5.8	-5.7	-5.6	-5.4	-5.1	-5.2	-5.5	-5.9	-7.1	-7.4	-7.5	-5.1	-10
08	-7.8	-8.5	-8.7	-9.1	-11	-11	-11	-12	-12	-11	-10	-9.0	-8.4	-8.2	-8.0	-7.9	-8.8	-16	-18	-18	-21	-21	-21	-22	-12	-7.8	-22
09	-22	-22	-24	-24	-23	-23	-24	-24	-22	-16	-13	-11	-8.3	-7.0	-6.4	-6.1	-7.0	-11	-11	-15	-19	-19	-20	-19	-17	-6.1	-24
10	-20	-23	-21	-22	-22	-23	-23	-24	-23	-17	-13	-11	-9.5	-8.0	-7.3	-7.4	-8.0	-13	-16	-19	-19	-19	-20	-22	-17	-7.3	-24
11	-22	-22	-21	-24	-22	-22	-24	-23	-22	-17	-14	-12	-9.7	-8.2	-7.8	-7.8	-8.4	-9.5	-9.9	-8.9	-8.8	-8.8	-8.8	-9.0	-15	-7.8	-24
12	-9.0	-8.8	-8.6	-10	-12	-13	-13	-12	-11	-9.4	-8.0	-5.3	-3.7	-5.4	-4.1	-3.3	-4.6	-6.4	-7.8	-6.5	-6.8	-4.6	-6.2	-4.9	-7.7	-3.3	-13
13	-3.8	-2.8	-3.3	-3.5	-2.3	-.1	.1	-4.7	-4.5	-3.6	-2.8	-1.7	.2	2.4	2.6	2.9	2.2	1.5	1.8	2.1	.8	.8	.8	-.7	-.6	2.9	-4.7
14	.8	.6	.4	.2	-.9	-1.8	-3.3	-4.8	-4.7	-4.9	-1.0	1.4	3.2	3.2	2.9	3.1	1.2	-4.1	-6.9	-9.3	-10	-11	-12	-13	-2.9	3.2	-13
15	-12	-13	-13	-12	-13	-13	-13	-12	-11	-4.0	-1.5	-1.0	-.1	-.1	.4	.5	.0	-.8	-.5	-.3	-.9	-.7	-1.9	-2.2	-5.2	.5	-13
16	-2.6	-2.0	-3.0	-2.9	-3.0	-2.7	-3.4	-4.2	-3.9	-2.9	-.4	.9	.0	.8	1.1	1.4	.8	-1.5	-2.4	-2.8	-3.6	-6.0	-7.5	-8.7	-2.4	1.4	-8.7
17	-8.6	-10	-8.6	-6.8	-7.5	-9.3	-9.8	-11	-11	-7.8	-4.9	-2.9	-2.2	-.8	-.1	-.6	-1.2	-3.2	-6.8	-7.4	-8.5	-7.8	-7.9	-8.2	-6.4	-.1	-11
18	-7.5	-9.8	-10	-8.0	-7.1	-7.1	-7.9	-6.7	-6.3	-5.5	-4.2	-2.4	-1.1	.2	.7	.1	.0	-2.0	-4.3	-4.4	-5.7	-7.0	-8.5	-9.6	-5.2	.7	-10
19	-10	-11	-12	-11	-11	-10	-9.8	-9.7	-9.3	-7.7	-6.8	-5.5	-4.3	-3.8	-3.4	-3.4	-3.3	-3.8	-5.0	-5.2	-5.1	-5.5	-5.9	-6.4	-7.0	-3.3	-12
20	-6.0	-6.1	-6.2	-6.2	-6.6	-6.8	-7.3	-7.5	-7.1	-6.6	-6.2	-5.9	-5.4	-5.1	-4.8	-4.6	-4.6	-4.9	-5.1	-5.0	-5.4	-5.2	-5.8	-6.0	-5.9	-4.6	-7.5
21	-5.2	-5.5	-5.5	-5.2	-5.5	-5.8	-6.3	-7.0	-7.4	-6.8	-6.4	-5.7	-5.2	-4.7	-4.4	-4.3	-4.5	-4.8	-5.2	-5.5	-5.4	-5.5	-5.5	-5.6	-5.5	-4.3	-7.4
22	-5.7	-5.8	-5.9	-6.1	-6.3	-6.5	-6.4	-6.3	-5.9	-5.5	-5.2	-4.9	-5.1	-4.5	-3.6	-3.9	-3.6	-3.5	-3.2	-3.2	-3.2	-3.3	-3.6	-3.9	-4.8	-3.2	-6.5
23	-4.2	-4.6	-4.5	-3.5	-3.5	-3.5	-3.9	-4.3	-4.6	-6.4	-6.6	-5.1	-3.9	-3.1	-2.4	-2.0	-4.3	-8.6	-12	-13	-14	-14	-13	-14	-6.6	-2.0	-14
24	-13	-14	-19	-19	-21	-22	-22	-22	-22	-18	-15	-12	-9.8	-9.1	-8.4	-7.8	-8.4	-14	-19	-19	-21	-18	-18	-17	-16	-7.8	-22
25	-20	-19	-22	-22	-22	-23	-24	-23	-22	-18	-15	-13	-11	-10	-10	-9.5	-12	-15	-17	-17	-18	-20	-21	-22	-18	-9.5	-24
26	-24	-19	-14	-15	-15	-17	-18	-17	-17	-15	-13	-12	-11	-11	-10	-9.9	-9.8	-11	-12	-13	-13	-12	-11	-11	-14	-9.8	-24
27	-11	-11	-11	-11	-12	-13	-12	-12	-12	-12	-12	-12	-12	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-13
28	-11	-12	-12	-12	-12	-12	-12	-13	-13	-13	-13	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-11	-13
29	-12	-13	-13	-14	-14	-14	-13	-13	-13	-12	-12	-11	-11	-10	-10	-10	-9.9	-9.9	-10	-10	-10	-9.9	-9.7	-9.6	-11	-9.6	-14
30	-9.5	-9.4	-9.3	-9.0	-9.0	-8.8	-8.8	-9.5	-9.5	-9.2	-8.8	-8.6	-8.1	-7.4	-6.8	-6.7	-6.9	-9.1	-12	-16	-16	-17	-18	-19	-11	-6.7	-19
31	-20	-17	-14	-14	-18	-20	-20	-21	-20	-17	-13	-11	-8.3	-6.7	-5.6	-4.0	-3.4	-2.8	-4.2	-4.6	-5.0	-5.2	-4.8	-3.8	-11	-2.8	-21
MEAN	-11	-11	-11	-11	-12	-12	-12	-13	-12	-9.5	-7.7	-6.2	-5.1	-4.5	-4.0	-3.8	-4.5	-6.8	-8.5	-9.2	-9.9	-9.9	-10	-10	-9.0		
MAX	.8	.6	.4	.2	-.9	-.1	.1	-4.2	-3.9	-2.8	.1	2.6	4.1	4.9	6.4	7.0	5.6	2.2	1.8	2.1	.8	.8	.8	-.7		7.0	
MIN	-24	-23	-24	-24	-23	-23	-24	-24	-23	-18	-15	-13	-12	-12	-12	-12	-12	-16	-19	-19	-21	-21	-21	-22			-24

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

MONTHLY MEAN = -9.0 DEG C

MAXIMUM TEMPERATURE WAS 7.0 DEG C ON 12/ 1 AT 1600 **MAXIMUM DAILY MEAN WAS -.6 DEG C ON 12/13**

MINIMUM TEMPERATURE WAS -24.5 DEG C ON 12/ 9 AT 700 **MINIMUM DAILY MEAN WAS -17.7 DEG C ON 12/25**

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY BLANKS

Appendix D
Hourly Pan Evaporation Data

EnergySolutions - Clive, Utah

EVAPORATION in MM for JANUARY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOT	MAX HR
01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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17	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 0 DATA RECOVERY RATE = 0 %

TOTAL EVAPORATION for the MONTH = .0 MM

MISSING DATA IS INDICATED BY ---
BLANKS INDICATE ZERO EVAPORATION

EnergySolutions - Clive, Utah

EVAPORATION in MM for FEBRUARY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOT	MAX HR
01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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POSSIBLE NUMBER OF OBSERVATIONS = 672 ACTUAL NUMBER OF OBSERVATIONS = 0 DATA RECOVERY RATE = 0 %

TOTAL EVAPORATION for the MONTH = .0 MM

MISSING DATA IS INDICATED BY ---
BLANKS INDICATE ZERO EVAPORATION

EnergySolutions - Clive, Utah

EVAPORATION in MM for MARCH, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOT	MAX HR
01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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18	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 0 DATA RECOVERY RATE = 0 %

TOTAL EVAPORATION for the MONTH = .0 MM

MISSING DATA IS INDICATED BY ---
BLANKS INDICATE ZERO EVAPORATION

EnergySolutions - Clive, Utah

EVAPORATION in MM for APRIL, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOT	MAX HR
01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
09	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---		.1	.3	.5	.5	.7	.7	.5	1.3	.2			.2	.2	---	---
28			.3	.3	.1		.2	.2	.2	.2	.2	.1	.2	.2	.5	.4	.4	.6	.8	.2	.3	.3	.1	.1	5.9	.8
29												.2	.2	.1	.2	.4	.5	.8	.3	.4	.4	.3	.4	.3	4.5	.8
30				.1	.1	.1	.1	.1	.2	.2	.2	.1	.1	.2	.3	.4	.6	.7	.6	.6	.5	.4	.4	.3	6.3	.7

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 86 DATA RECOVERY RATE = 11.9 %

TOTAL EVAPORATION for the MONTH = 21.9 MM

MAXIMUM DAILY EVAPORATION WAS 6.3 MM on 4/30

MAXIMUM HOURLY EVAPORATION WAS 1.3 MM on 4/27 at 1900

MISSING DATA IS INDICATED BY ---
BLANKS INDICATE ZERO EVAPORATION

EnergySolutions - Clive, Utah

EVAPORATION in MM for MAY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOT	MAX HR
01			.1	.2	.2	.2	.1	.1	.2	.2	.2	.2	.2	.2	.4	.5	1.1	.3	.3						4.7	1.1
02														.1		.1	.2	.3	.3	.2	.2	.2	.1	.1	1.8	.3
03	.2	.1	.1	.1		.1	.1			.3	.2	.2	.1		.5	.7	.3	.5	.6	.9		.1	.2		5.3	.9
04												.1	.2	.2	.1	.4	.4	.5	.5	.4	.4	.3	.2	.3	4.0	.5
05								.1	.3	.2			.6	.4	.7	1.0	1.1	1.1	1.0	1.1	1.0	.8	.5	.5	10.4	1.1
06								.1	.2	.2	.3	.4	.3	.4	1.4	1.3	1.1	1.0	.7	.8	.6	.5	.5	.4	10.2	1.4
07				.1				.1	.2	.1	.1	.1	.2	.4	.7	.6	.7	.8	.8	.6	.8	.7	.4	.4	7.8	.8
08					.1	.1	.1	.1	.2	.2	.2	.3	.3	.5	.5	.7	.6	.7	.6	.6	.6	.3	.4	.3	7.4	.7
09									.1	.1	.1	.2	.1	.4	.3	.7	.8	.9	1.0	.8	.6	.4	.3	.3	7.1	1.0
10												.1	.5	.1	.3	.7	.6	.5	.6	.4	.5	.5	.4	.5	5.7	.7
11									.2	.2			.4	.2	.3	.6	.4	.5	.8	.5	.3	.2	.3	.4	5.3	.8
12							.2	.2	.1	.2	.2	.5	.8	.9	.8	1.1	1.0	1.2	1.2	1.3	1.1	.8	.6	.4	12.6	1.3
13			.3	.2	.2	.1	.2	.2	.3	.1	.2	.1	.3	.4	.5	.5	1.0	.8	.6	.4	.2	.4	.4	.2	7.6	1.0
14									.1	.2			.2	.5	.5	.7	.6	1.2	.9	.8	1.0	.6	.3	.4	8.0	1.2
15										.1	.2	.2	.3	.4	.6	.7	.7	.8	.6	.5	.5	.5	.4	.3	6.8	.8
16										.1	.1	.2	.1	.3	.6	.8	.6	.8	.8	.8	.9	.5	.4	.3	7.3	.9
17								.1	.3	.2	.2	.1	.1	.5	.8	.4	.7	.8	.9	.7	.6	.6	.4	.4	7.8	.9
18						.1	.1	.2	.3	.2	---	.5		.5	1.4	1.2	.3	.8	.8	.8	.7	.6	.7	.6	9.8	1.4
19				.1	.2	.2	.6	.4		.2	.1	.7	.8	.8	.6	.6	1.2	.8	1.2	.7	.5	.5	.9	.1	11.2	1.2
20					.3	.3	.2	.3	.3	.3	.3	.6	.4	.7	.8	.8	.8	.9	.8	1.1	1.1	.8	.8	.7	12.3	1.1
21			.2	.1	.2	.2	.2	.2	.2	.3	.2	.5	.2	.4	.7	.6	1.0	1.1	1.2	1.2	.9	.3	.3	.3	10.5	1.2
22						.1	.1	.2	.2	.1	.2	.2		.2	.4	.7	1.1	1.2	.9	.6	.5	.3	.2	.3	7.5	1.2
23			.2	.1		.3	.1	.1	.1	.1	.3	.4	.1	.4	.6	.9	.9	.4	.6	1.1	.9	.7	.2	.3	8.8	1.1
24								.2	.6		.1	.2			.1	.2	.4	.9	1.5	.1			.3	.1	4.7	1.5
25											.1	.1	.2	.3	.4	.5	.5	1.0	.9	1.0	.5	.3	.2	.1	6.1	1.0
26									.1	.1	.2	.2	.4	.1	.4	.5	.7	.9	1.3	.9	.7	.4	.2	.2	7.3	1.3
27									.1	.1	.1	.2	.3	.4	.5	.7	.8	.8	1.0	.9	.8	.5	.4	.4	8.0	1.0
28								.1	.2	.2	.2	.1	.2	.6	.8	.6	1.0	1.0	1.1	1.4	1.0	.5	.5	.5	10.0	1.4
29							.1	.2	.2	.2	.1			.1	1.0	1.0	1.1	1.4	1.9	1.7	.8	.4	.5	.6	11.3	1.9
30						.1	.1	.2	.3	.4	.2	.1	.3	1.0	.8	1.9	.6	.4	.5	.8	.9	.6	.9	1.3	11.4	1.9
31			.1	.1	.1	.1	.1	.4	.3		.1	.2	.7	.7	.6	.7	.9	1.1	2.2	1.5	.6	.5	.2	.3	11.5	2.2

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 743 DATA RECOVERY RATE = 99.9 %

TOTAL EVAPORATION for the MONTH = 250.2 MM

MAXIMUM DAILY EVAPORATION WAS 12.6 MM on 5/12

MAXIMUM HOURLY EVAPORATION WAS 2.2 MM on 5/31 at 1900

MISSING DATA IS INDICATED BY ---
BLANKS INDICATE ZERO EVAPORATION

EnergySolutions - Clive, Utah

EVAPORATION in MM for JUNE, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOT	MAX HR
01													.1	.7	.5	.6	.5	.9	2.0	1.1					6.4	2.0
02												---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04	---	---	---	---	---	---	---	---	---	---				.4	.6	.9	2.2	.8	1.8	.4	.6	.5	.4	.3	---	---
05			.2	.3			.4	.2	.1	.2	.1			.5	.4	.4	.6	1.6	1.9	.8	.9	.4	.2	.3	9.5	1.9
06							.1	.2	.1	.2	.2	.4	.5	.6	.6	.6	.8	.7	1.1	1.1	1.2		.9	.3	9.6	1.2
07														.2	.4	.3	.5	.6	.4	.3	.3	.4	.2	.3	3.9	.6
08										.1	.1	.2	.5	.4	.4	.5	1.3	1.0	.9	.7	.5	.3	.7	.4	8.0	1.3
09									.1	.2	.2	.2	.4	.5	.3	.9	.7	1.0	.6	.3	.2	.1	.1	.1	5.9	1.0
10											.1	.1	.1		.2	.5	.6	.8	.1	.1	.2	.2	.2	.6	3.8	.8
11												.2	.3	.1	.3	.2	.4	.3						.1	1.9	.4
12													.2	.1	.1	.2	.4	.7	.9	.5	.7	.3	.2	.2	4.5	.9
13			.1	.1	.1									.2	.2	.9	.1	.2	.2	.5	.1	.1	.1	.1	3.0	.9
14													.2	.1	.3	1.0	.8	.7	.7	.2	.3	.6	.3	.1	5.3	1.0
15											.1	.1	.1	.3	.6	.5	1.0	.8	.9	.9	.9	.4	.3	.2	7.1	1.0
16										.1	.2	.2	.2	.2	.5	.6	.8			.6	.8	.1		.1	4.4	.8
17																			.2						.2	.2
18													.2	.3	.3	.2	.8	.8	.4	.6	.5	.4	.5	.3	5.3	.8
19										.1	.2	.1	.6	.5	.8	.6	.7	.7	1.0	1.3	1.5	1.1	.7	.9	10.8	1.5
20			.2	.3	.2	.3	.2	.1	.2	.1	.1	.2													1.9	.3
21														.1	.1	.6	.9	1.2	1.3	.7	.5	.2	.3	.4	6.3	1.3
22										.1	.2		.4	.3	.4	.5	.7	.7	.8	.9	.8	.9	.7	.5	7.9	.9
23					.1	.1	.2	.2	.1				.1	.3	.3	.7	1.1	.9	1.0	1.1	.9	.8	.5	.4	8.8	1.1
24						.1		.2	.2	.1	.1		.1	.6	.5	.7	1.1	1.1	1.1	1.1	.8	.9	.7	.4	9.8	1.1
25					.1	.2	.2	.3		.1			.4	1.1	.6	2.0	1.0	.4	.4	.4	.2	.8	.5	.4	9.1	2.0
26			.1	.4	.3		.1	.2	.2	.1	.4	.1	.2	.4	.6	.7	1.0	1.3	1.5	1.3	.7	.4	.4	.2	10.6	1.5
27									.2	.2	.2	.3	.3	.3	.7	.9	.9	.8	.9	.8	1.0	.8	.5	.4	9.2	1.0
28								.2	.2		.1		.1	.4	.4	.7	1.2	1.2	.9	.8	1.0	.8	.6	.4	9.0	1.2
29					.1	.2	.1	.2	.2	.2		.1	.3	.9	.7	.9	.9	1.1	1.4	.7	.6	.7	.8	.5	10.6	1.4
30					.1	.1	.2	.3	.3	.2		.3	.9	.7	1.1	1.3	1.3	2.0	2.0	1.3	.8	.4	.3	.3	13.9	2.0

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 673 DATA RECOVERY RATE = 93.5 %

TOTAL EVAPORATION for the MONTH = 195.6 MM

MAXIMUM DAILY EVAPORATION WAS 13.9 MM on 6/30

MAXIMUM HOURLY EVAPORATION WAS 2.2 MM on 6/ 4 at 1700

MISSING DATA IS INDICATED BY ---
BLANKS INDICATE ZERO EVAPORATION

EnergySolutions - Clive, Utah

EVAPORATION in MM for JULY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOT	MAX HR
01				.1	.1	.2	.2	.1	.3	.2	.1	.3	.5	.7	.7	1.2	.8	1.0	.7	.6	2.0	1.1	.3	.5	11.7	2.0
02					.1			.1	.2	.1	.1	.1	.1	.6	1.1	.9		.2	.1	.2	.2	.2	.2	.1	4.6	1.1
03											.1		.2	.3	.5	.5	.7	1.0	1.0	.8	.6	.5	.4	.6	7.2	1.0
04				.2	.2	.1	.2	.2	.1	.1	.4	.1			.1	.3	.5	.8	.7	.6	.9	.7	.4	.5	7.1	.9
05							.1	.1	.2	.1	.2	.4	.4	.6	.7	.7	.8	.9	1.3	1.3	1.0	.9	1.0	.6	11.3	1.3
06						.4	.1	.2	.2	.1	.2	.9	1.0	1.0	.9	.9	1.4	1.4	1.6	1.5	1.2	.8	.5	.4	14.7	1.6
07					.1	.2	.2	.3	.3	.1		.1	.6	.8	1.0	1.0	1.2	.9	1.3	1.5	1.3	.7	.6	.5	12.7	1.5
08						.1	.1	.2	.3	.3	.4	.4	.5	.6	.7	.9	1.0	1.0	1.0	1.1	1.0	.9	.6	.5	11.6	1.1
09					.1	.2	.2	.2			.1	.3	.3	.5	1.0	.8	1.2	.9	1.2	1.1	.9	.7	.4	.4	10.5	1.2
10					.1	.2	.2	.3	.2		.2	.2	.3	.6	1.1	1.1	1.2	1.2	.8	.7	.8	.7	.6	.6	11.1	1.2
11						.1	.2	.2	.2	.2	.2		.4	.7	.7	.5	.4	.6	.7	1.0	.6	.4	.4	.6	8.1	1.0
12			.1					.2	.2	.1				.7	.7	.9	1.0	1.3	1.8	.7	.6	.7	.5	.5	10.0	1.8
13			.4	.2	.2	.2	.2	.2	.2	.4	.3	.5	.5	.7	.8	.7	1.0	1.4	1.3	1.1	1.0	1.0	.7	.5	13.5	1.4
14			.1	.1	.1	.2	.2	.2	.2	.2	.3	.2	.3	.4	.6	.7	.8	.7	.7	.8	.9	.7	.4	.3	9.1	.9
15							.1	.2	.2	.2	.1	.1	.4	.5	.5	.8	1.0	.9	.9	.9	1.2	.7	.5	.5	9.7	1.2
16			.1	.1	.2	.2	.2	.3	.2	.1		.1	.3	.6	.7	.9	1.1	1.1	1.2	1.4	1.8	1.0	.6	.4	12.6	1.8
17					.2	.3	.4	.3	.3	.2	.1	.1	.4	.5	1.0	1.1	1.2	1.4	1.3	1.2	1.4	.8	.5	.5	13.2	1.4
18				.1	.2	.3	.2	.3	.3	.1	.2	.1	.5	.8	1.0	1.1	1.2	1.1	1.1	1.4	1.5	1.0	.9	.6	14.0	1.5
19			.1	.3	.2	.2	.2	.3	.2		.3	.7	.6	.8	1.0	1.0	1.5	1.4	1.1	.7	.7	.6	.4	.3	12.6	1.5
20								.2	.1	.2	.1	.2	.3	.5	.8	1.2	1.2	1.7	1.4	1.2	1.1	.6	.7	.4	11.9	1.7
21						.1	.2	.3	.3	.2	.2	.1	.4	.7	.7	.9	1.0	1.1	1.2	1.0	1.2	.8	.5	.6	11.5	1.2
22						.1	.3	.2	.3	.2		.4	.5	.9	.9	1.2	1.4	1.1	1.1	1.0	.7	.7	.6	.4	12.0	1.4
23					.2	.2	.1	.2	.3	.3	.1	.2	.3	.7	1.7	1.1	1.0	1.1	1.0	1.0	1.3	1.4	.7		12.9	1.7
24						.1	.2	.2	.3	.2	.3	.3	.5	.5	.6	1.0	1.1	1.3	1.0	.9	1.0	.7	.6	.4	11.2	1.3
25					.1	.2	.2	.2	.2	.1		.3	.3	.5	.6	.8	1.0	1.0	1.0	.8	.8	1.4	1.0	.6	11.1	1.4
26					.1	.2	.2	.2	.3	.2	.2	.3	.3	.4	.7	.8	1.0	1.2	.9	.7	1.0	.9	.5	.4	10.5	1.2
27					.1	.2	.2	.3	.3	.3	.2	.3	.5	.6	1.0	1.0	1.1	1.2	1.4	1.4	1.2	1.2	.8	.6	13.9	1.4
28								.1	.2	.3	.2	.2	.4	.6	.7	.9	1.1	1.4	1.1	1.0	.8	.7	.5	.4	10.6	1.4
29							.1	.3	.3	.3	.3	.4	.5	.7	.9	1.1	1.2	1.3	1.1	1.1	1.0	.8	.7	.4	12.5	1.3
30					.1		.2	.2	.3	.3	.2	.3	.4	.5	.8	.9	.9	1.2	1.0	1.2	1.0	.7	.7	.5	11.4	1.2
31						.1	.1	.2	.3	.1	.1	.3	.4	.8	.9	.9	1.1	1.2	1.2	.9	1.0	.8	.9	.7	12.0	1.2

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

TOTAL EVAPORATION for the MONTH = 346.8 MM

MAXIMUM DAILY EVAPORATION WAS 14.7 MM on 7/ 6

MAXIMUM HOURLY EVAPORATION WAS 2.0 MM on 7/ 1 at 2100

MISSING DATA IS INDICATED BY ---
BLANKS INDICATE ZERO EVAPORATION

EnergySolutions - Clive, Utah

EVAPORATION in MM for AUGUST, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOT	MAX HR
01				.1	.2	.2	.2	.2	.2	.3	.2	.2	.3	.4	.7	1.0	1.1	1.3	1.2	1.0	1.1	.9	.7	.7	12.2	1.3
02							.1	.2	.2	.3	.3	.2	.3	.4	.4	1.1	.9	1.1	.9	.9	.8	.8	.7	.4	10.0	1.1
03				.3	.4	.4	.5	.5	.4	.1	.3	.7	.8	.7	.9	.9	1.2	1.5	1.2	1.1	1.0	.6	.6	.6	14.7	1.5
04				.3	.4	.2	.3	.3	.1	.3	.1		.9	.9	1.1	1.0	1.1	1.1	1.0	.8	.5	.5	.7	.6	12.2	1.1
05					.2	.2	.2	.2	.3	.2	.1	.5	.4	.7	1.0	1.5	1.5	1.2	1.5	1.3	1.0	.8	.9	1.0	14.7	1.5
06			.2	.5	.2	.3	.3	.3	.3	.4	.6	1.1	.8	1.6	2.0	1.7	1.7	2.2	2.0	2.3	1.5	.6	.3	.2	21.1	2.3
07				.1					.1	.2	.1	.2	.4	.5	.5	.5	.9	1.1	1.0	1.0	.7	.4	.4	.5	8.6	1.1
08						.1	.1	.1	.2	.1	.2	.2	.2	.3	.3	.4	.5	.7	.6	.4	.4	.3	.3	.2	5.6	.7
09										.1	.1	.2	.2	.3	.4	.5	.7	.7	.7	.5	.8	.6	.4	.3	6.5	.8
10									.1	.3	.2	.2	.2	.2	.5	.6	.9	.8	.9	.6	.9	.6	.5	.4	7.9	.9
11							.1	.1	.3	.2	.1		.1	.5	.4	.7	1.0	1.0	.9	.7	.4	.5	.7	.8	8.5	1.0
12				.1		.1	.2	.2	.2	.2	.2	.2	.5	.6	.9	1.0	1.0	1.0	1.0	.8	.4	.5	.5	.5	10.1	1.0
13				.1	.1	.2	.2	.2	.2	.1	.2	.3	.2	.4	.6	1.3	1.4	1.7	1.0	1.1	.6	.4	.5	.5	11.3	1.7
14						.2	.2	.2	.2	.1	.2	.6	.8	.9	.9	.9	1.0	1.3	1.1	1.1	.8	1.0	.8	.8	13.1	1.3
15			.1			.1	.2				.2	.3	.4	.6	.7	.8	.6	.8	.6	.6	.5	.4	.4	.4	7.7	.8
16									.1	.3	.2	.2	.2	.4	.6	.7	.7	.8	.8	.6	.6	.4	.3	.2	7.1	.8
17											.1	.2	.1	.4	.7	.7	1.0	.9	.7	.7	.8	.6	.4	.3	7.6	1.0
18										.2	.2	.3	.2	.3	.6	.7	.8	1.0	.7	.3	.4	.4	.4	.4	6.9	1.0
19							.1	.1	.3	.2	.3	.2	.2	.4	.6	.7	.7	.6	1.0	.6	.5	.5	.5	.3	7.8	1.0
20								.2	.2	.2	.2	.1	.2	.3	.4	.8	.7	1.0	1.0	.9	.8	.7	.6	.4	8.7	1.0
21									.1	.2	.2	.1	.3	.3	.5	.6	.7	.7	1.0	1.1	1.1	.8	.6	.6	8.9	1.1
22									.2	.2	.2		.7	.7	.7	.8	.8	.9	1.0	.6	.7	.6	1.0	1.0	10.1	1.0
23			.5	.7	.5					.3	.3	.4	.6	.4	.6	1.1	1.2	.9	.2					.1	7.8	1.2
24														.1	.3	.3	.5	.6	.6	.5	.7	.7	.4	.4	5.1	.7
25													.1	.2	.3	.6	.7	1.1	.9	.7	.5	.6	.5	.3	6.5	1.1
26										.2	.1	.1	.1	.1	.2	.6	1.6	1.0	.8	.6	.7	.5	.6	.8	8.0	1.6
27								.2	.3	.1	.1	.2	.2	.2	.7	.5	.6	1.2	1.5	.9	.4	.5	.6	.5	8.7	1.5
28									.1	.2	.1		.1	.4	.4	.6	.7	.7	1.0	1.1	1.3	.6	.6	.5	8.4	1.3
29								.1	.3	.1	.3	.1	.2	.3	.3	.5	.5	.5	.6	.9	1.2	.7	.7	.5	7.8	1.2
30			.1						.2	.2	.1	.1	.1	.5	.8	.9	1.5	1.1	1.1	.6	.4	.6	.5	.4	9.2	1.5
31						.1		.2	.3	.2	.1	.1		.2	.6	1.1	1.0	.8	.8	.5	.3	.5	.5	.3	7.6	1.1

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

TOTAL EVAPORATION for the MONTH = 290.4 MM

MAXIMUM DAILY EVAPORATION WAS 21.1 MM on 8/ 6

MAXIMUM HOURLY EVAPORATION WAS 2.3 MM on 8/ 6 at 2000

MISSING DATA IS INDICATED BY ---
BLANKS INDICATE ZERO EVAPORATION

EnergySolutions - Clive, Utah

EVAPORATION in MM for SEPTEMBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOT	MAX HR
01								.1	.2	.3	.2	.1	.5	.6	.6	.8	.7	1.0	.9	.8	.6	.7	.6	.5	9.2	1.0
02				.1					.1	.6	.2	.2	.3	.2	.4	.6	.8	.8	.8	.7	.6	.5	.5	.5	7.9	.8
03				.1							.1	.1	.2	.3	.3	.7	.7	.7	.9	1.2	.6	.4	.3	.3	6.9	1.2
04									.1	.2	.2	.2	.3	.4	.4	.8	.8	1.5	.9	.1	.3	.6	.5	.3	7.6	1.5
05												.2	.2	.5	.3	.7	.9	.7	.8	.5	.5	.4	.4	.3	6.4	.9
06								.1	.3	.1	.1	.4	.7	.6	.7	1.0	1.1	1.3	1.4	1.1	.7	.5	.6	.5	11.2	1.4
07									.2	.3	.3	.2	.1	.3	.5	.7	.8	1.1	.7	.5	.5	.4	.4	.5	7.5	1.1
08								.1	.3	.2		.3	.5	.6	.5	.8	.8	.6	.7	.9	.6	.4	.5	.5	8.3	.9
09					.1							.1	.1	.3	.5	.5	.7	.7	.5	.7	.7	.5	.3	.5	6.2	.7
10									.2	.2	.2	.1	.1	.2	.5	.8	.7	.8	.5	.7	.4	.4	.3	.4	6.5	.8
11									.1	.2	.2	.2	.2	.2	.4	.7	1.0	1.0	.8	.8	.5	.5	.3	.4	7.5	1.0
12							.1	.1	.2	.4	.2	.2	.1	.2	.2	.6	.8	.6	.8	1.0	.6	.4	.3	.2	7.0	1.0
13												.1	.3	.5	.4	.2		.1			.1	.2	.3	.3	2.5	.5
14												.2	.5	.3	.2						.1	.1		.1	1.5	.5
15																	.2	.3		.1	.1	.1	.1	.1	1.0	.3
16	.1	.1	.1		.1			.1	.1	.1	.2	.2	.2	.3	.7	.6	.6	.6	.7	.6	.4	.3	.3	.2	6.6	.7
17												.1	.1	.2	.3	.3	.5	.5	.4	.3	.8	.5	.4	.4	4.8	.8
18														.1	.1	.4	.6	.7	1.0	.5	.4	.4	.3	.4	4.9	1.0
19														.3	.2	.7	1.5	.7	.7	.4	.7	.3	.2	.2	5.9	1.5
20			.1						.1	.2	.2	.3	.6	.5	.6	.7	.8	.9	.9	.9	.6	.7	.6	.5	9.2	.9
21								.1	.1	.1		.4	.4	.3	.5	.5	.7	.9	1.1	.7	.3	.3	.2	.2	6.8	1.1
22												.1	.1	.4	.2	.3	.4	.8	.6	.6	.3	.3	.2	.2	4.5	.8
23																	.2	.7	.6	.7	.4	.3	.4	.5	3.8	.7
24																	.1	.4	.6	.7	.4	.2	.2	.2	2.8	.7
25																	.1	.3	.7	1.3	.2	.3	.5	.2	3.6	1.3
26															.2	.4	1.9	.3	.6	.4	.3	.4	.5	1.1	6.1	1.9
27								.1		.2	.2	.2	.2	.2	.5	.7	.5	.4	.3	.3	.5	.5	.4	.2	5.4	.7
28													.1					.4	1.2	.8	.7	.6	.5	.3	4.6	1.2
29									.2	.2	.1	.4	.5	1.4	1.2	.7	.9	1.2	1.0	1.7	1.2	.9	.9	.6	13.1	1.7
30																	.1	.3	.4	.3	.2	.2	.2	.2	1.9	.4

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 720 DATA RECOVERY RATE = 100 %

TOTAL EVAPORATION for the MONTH = 181.2 MM

MAXIMUM DAILY EVAPORATION WAS 13.1 MM on 9/29

MAXIMUM HOURLY EVAPORATION WAS 1.9 MM on 9/26 at 1700

MISSING DATA IS INDICATED BY ---
BLANKS INDICATE ZERO EVAPORATION

EnergySolutions - Clive, Utah

EVAPORATION in MM for OCTOBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOT	MAX HR
01	.1	.1	.1				.1		.1	.3	.2	.2	.2	.2	.1	.1	.2	.3	.2	.1	.1	.2	.1	.1	3.1	.3
02																		.2	.2	.3	.2	.1	.2	.1	1.3	.3
03																.1	.3	.5	.4	.4	.3	.2	.2	.1	2.5	.5
04									.1	.1	.1	.1	.1	.2											.7	.2
05																				.1		.1	.1	.1	.4	.1
06	.1		.1							.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
09	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 130 DATA RECOVERY RATE = 17.5 %

TOTAL EVAPORATION for the MONTH = 8.3 MM

MAXIMUM DAILY EVAPORATION WAS 3.1 MM on 10/ 1

MAXIMUM HOURLY EVAPORATION WAS .5 MM on 10/ 3 at 1800

MISSING DATA IS INDICATED BY ---
BLANKS INDICATE ZERO EVAPORATION

EnergySolutions - Clive, Utah

EVAPORATION in MM for NOVEMBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOT	MAX HR
01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
09	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 0 DATA RECOVERY RATE = 0 %

TOTAL EVAPORATION for the MONTH = .0 MM

MISSING DATA IS INDICATED BY ---
BLANKS INDICATE ZERO EVAPORATION

EnergySolutions - Clive, Utah

EVAPORATION in MM for DECEMBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOT	MAX HR
01	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
09	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 0 DATA RECOVERY RATE = 0 %

TOTAL EVAPORATION for the MONTH = .0 MM

MISSING DATA IS INDICATED BY ---
BLANKS INDICATE ZERO EVAPORATION

Appendix E
Hourly Precipitation Data

EnergySolutions - Clive, Utah

PRECIPITATION in MM for JANUARY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOT	MAX HR
01																									.00	.00
02																	.51	.76	1.78	1.02	.76	.51	.76	.25	6.35	1.78
03																									.00	.00
04																									.00	.00
05												.25	.51												.76	.51
06									.25	.51															.76	.51
07																									.00	.00
08																									.00	.00
09																									.00	.00
10																									.00	.00
11																									.00	.00
12																									.00	.00
13																									.00	.00
14																									.00	.00
15																									.00	.00
16																									.00	.00
17																									.00	.00
18																									.00	.00
19																									.00	.00
20																									.00	.00
21																									.00	.00
22								.51	.25								.25			.25	.25		1.27	1.02	3.80	1.27
23	.25			.25																					.50	.25
24					.51	1.52	.25				.25	2.29					.51	.25							5.58	2.29
25		1.27						.25		.76	.51	.76	2.03	.76							1.02	1.02	.25		8.63	2.03
26																									.00	.00
27																									.00	.00
28																									.00	.00
29																									.00	.00
30																									.00	.00
31																									.00	.00

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

TOTAL PRECIPITATION for the MONTH = 26.38 MM

MAXIMUM DAILY PRECIPITATION WAS 8.63 MM on 1/25

MAXIMUM HOURLY PRECIPITATION WAS 2.29 MM on 1/24 at 1200

MISSING DATA IS INDICATED BY ---
BLANKS INDICATE ZERO PRECIPITATION

EnergySolutions - Clive, Utah

PRECIPITATION in MM for FEBRUARY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOT	MAX HR
01																									.00	.00
02																									.00	.00
03																									.00	.00
04																									.00	.00
05																									.00	.00
06																									.00	.00
07																									.00	.00
08																			.51	1.52	1.78	1.78	.25		5.84	1.78
09											.25	1.52		1.02	.76			1.78	.76	.25		.25			6.59	1.78
10		.25	.25		.25																				.75	.25
11																									.00	.00
12																									.00	.00
13																									.00	.00
14				.76	1.27	1.02	1.27	.76																	5.08	1.27
15																									.00	.00
16																									.00	.00
17					.25	.76	.25																		1.26	.76
18																									.00	.00
19																									.00	.00
20																									.00	.00
21																									.00	.00
22																									.00	.00
23																			2.29						2.29	2.29
24																									.00	.00
25																									.00	.00
26																									.00	.00
27																									.00	.00
28																									.00	.00

POSSIBLE NUMBER OF OBSERVATIONS = 672 ACTUAL NUMBER OF OBSERVATIONS = 672 DATA RECOVERY RATE = 100 %

TOTAL PRECIPITATION for the MONTH = 21.81 MM

MAXIMUM DAILY PRECIPITATION WAS 6.59 MM on 2/ 9

MAXIMUM HOURLY PRECIPITATION WAS 2.29 MM on 2/23 at 1900

MISSING DATA IS INDICATED BY ---
BLANKS INDICATE ZERO PRECIPITATION

EnergySolutions - Clive, Utah

PRECIPITATION in MM for MARCH, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOT	MAX HR
01																									.00	.00
02																									.00	.00
03																									.00	.00
04																									.00	.00
05																									.00	.00
06																			.25						.25	.25
07																									.00	.00
08																									.00	.00
09									.25				1.02	1.02	.51										2.80	1.02
10																									.00	.00
11																									.00	.00
12																									.00	.00
13											---														.00	.00
14																									.00	.00
15																									.00	.00
16																									.00	.00
17																									.00	.00
18																									.00	.00
19																									.00	.00
20																									.00	.00
21																									.00	.00
22				.25										.76	.25										1.26	.76
23																									.00	.00
24																									.00	.00
25																						.76	1.02	.76	2.54	1.02
26									.25																.25	.25
27																									.00	.00
28																									.00	.00
29											.51												.25		.76	.51
30																									.00	.00
31																									.00	.00

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 743 DATA RECOVERY RATE = 99.9 %

TOTAL PRECIPITATION for the MONTH = 7.86 MM

MAXIMUM DAILY PRECIPITATION WAS 2.80 MM on 3/ 9

MAXIMUM HOURLY PRECIPITATION WAS 1.02 MM on 3/ 9 at 1300

MISSING DATA IS INDICATED BY ---
BLANKS INDICATE ZERO PRECIPITATION

EnergySolutions - Clive, Utah

PRECIPITATION in MM for APRIL, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOT	MAX HR
01																									.00	.00
02																							1.78	2.29	4.07	2.29
03																									.00	.00
04																									.00	.00
05																									.00	.00
06																									.00	.00
07																									.00	.00
08																				.51	1.27	.25	.25	.25	2.53	1.27
09			.76	.25																					1.01	.76
10																									.00	.00
11																									.00	.00
12																									.00	.00
13																									.00	.00
14										.76	1.27	1.78	1.52	.76	.25		.76	1.02	1.78	.76					10.66	1.78
15			2.03	4.06		.51	.25												.51	.51	.25	.76	.25	.25	9.38	4.06
16	.76	.76	.25	.25	1.52	1.52	2.29	3.05	2.54	1.52	.51	.25	.25	.25											15.72	3.05
17																									.00	.00
18																									.00	.00
19																									.00	.00
20																									.00	.00
21																									.00	.00
22																									.00	.00
23																									.00	.00
24																									.00	.00
25		.25	1.78	1.02	.25		.76	1.02	1.52																6.60	1.78
26																									.00	.00
27																									.00	.00
28																									.00	.00
29																									.00	.00
30																									.00	.00

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 720 DATA RECOVERY RATE = 100 %

TOTAL PRECIPITATION for the MONTH = 49.97 MM

MAXIMUM DAILY PRECIPITATION WAS 15.72 MM on 4/16

MAXIMUM HOURLY PRECIPITATION WAS 4.06 MM on 4/15 at 400

MISSING DATA IS INDICATED BY ---
BLANKS INDICATE ZERO PRECIPITATION

EnergySolutions - Clive, Utah

PRECIPITATION in MM for MAY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOT	MAX HR
01																				1.78	.76				2.54	1.78
02							.25	4.57	1.78	.76															7.36	4.57
03																	.25			.51	.25				1.01	.51
04																									.00	.00
05																									.00	.00
06																									.00	.00
07																									.00	.00
08																									.00	.00
09																									.00	.00
10																									.00	.00
11																									.00	.00
12																									.00	.00
13																									.00	.00
14																									.00	.00
15																									.00	.00
16																									.00	.00
17																									.00	.00
18											---														.00	.00
19																									.00	.00
20																									.00	.00
21																									.00	.00
22																									.00	.00
23																									.00	.00
24											.25									3.05	1.52	.25			5.07	3.05
25																									.00	.00
26																									.00	.00
27																									.00	.00
28																									.00	.00
29																									.00	.00
30																									.00	.00
31	.25																								.25	.25

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 743 DATA RECOVERY RATE = 99.9 %

TOTAL PRECIPITATION for the MONTH = 16.23 MM

MAXIMUM DAILY PRECIPITATION WAS 7.36 MM on 5/ 2

MAXIMUM HOURLY PRECIPITATION WAS 4.57 MM on 5/ 2 at 800

MISSING DATA IS INDICATED BY ---
BLANKS INDICATE ZERO PRECIPITATION

EnergySolutions - Clive, Utah

PRECIPITATION in MM for JUNE, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOT	MAX HR
01																				.25	1.02	.51			1.78	1.02
02	.25																	2.29							2.54	2.29
03																									.00	.00
04																									.00	.00
05											1.02	.25													1.27	1.02
06																									.00	.00
07									.51	.25															.76	.51
08																									.00	.00
09																			.25						.25	.25
10																	.25								.25	.25
11	.25																	1.02							1.27	1.02
12																								.25	.25	.25
13						.51					.25	.51							.25						1.52	.51
14																									.00	.00
15																									.00	.00
16																		3.56							3.56	3.56
17								1.02	.25				4.83			1.52			.76	5.59	1.02		.25		15.24	5.59
18																									.00	.00
19																									.00	.00
20												.25	.51	1.02	.76	1.02	.25				.25				4.06	1.02
21								.25																	.25	.25
22																									.00	.00
23																									.00	.00
24																									.00	.00
25															.25										.25	.25
26									.25																.25	.25
27																									.00	.00
28																									.00	.00
29																									.00	.00
30																									.00	.00

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 720 DATA RECOVERY RATE = 100 %

TOTAL PRECIPITATION for the MONTH = 33.50 MM

MAXIMUM DAILY PRECIPITATION WAS 15.24 MM on 6/17

MAXIMUM HOURLY PRECIPITATION WAS 5.59 MM on 6/17 at 2000

MISSING DATA IS INDICATED BY ---
BLANKS INDICATE ZERO PRECIPITATION

EnergySolutions - Clive, Utah

PRECIPITATION in MM for JULY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOT	MAX HR
01																									.00	.00
02																.25		.25							.50	.25
03																									.00	.00
04																									.00	.00
05																									.00	.00
06																									.00	.00
07																									.00	.00
08																									.00	.00
09																									.00	.00
10																									.00	.00
11																									.00	.00
12																									.00	.00
13																									.00	.00
14																									.00	.00
15																									.00	.00
16																									.00	.00
17																									.00	.00
18																									.00	.00
19																				.76					.76	.76
20																									.00	.00
21																									.00	.00
22																									.00	.00
23																									.00	.00
24																									.00	.00
25																									.00	.00
26																									.00	.00
27																									.00	.00
28																									.00	.00
29																									.00	.00
30																									.00	.00
31																									.00	.00

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

TOTAL PRECIPITATION for the MONTH = 1.26 MM

MAXIMUM DAILY PRECIPITATION WAS .76 MM on 7/19

MAXIMUM HOURLY PRECIPITATION WAS .76 MM on 7/19 at 2000

MISSING DATA IS INDICATED BY ---
BLANKS INDICATE ZERO PRECIPITATION

EnergySolutions - Clive, Utah

PRECIPITATION in MM for AUGUST, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOT	MAX HR
01																									.00	.00
02																									.00	.00
03																									.00	.00
04																									.00	.00
05																									.00	.00
06																									.00	.00
07																									.00	.00
08																									.00	.00
09																									.00	.00
10																									.00	.00
11																									.00	.00
12																									.00	.00
13																									.00	.00
14																									.00	.00
15								.51																	.51	.51
16																									.00	.00
17																									.00	.00
18																									.00	.00
19																									.00	.00
20																									.00	.00
21																									.00	.00
22																									.00	.00
23																		.76	.25						1.01	.76
24																									.00	.00
25																									.00	.00
26																									.00	.00
27																									.00	.00
28																									.00	.00
29																									.00	.00
30																									.00	.00
31																									.00	.00

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

TOTAL PRECIPITATION for the MONTH = 1.52 MM

MAXIMUM DAILY PRECIPITATION WAS 1.01 MM on 8/23

MAXIMUM HOURLY PRECIPITATION WAS .76 MM on 8/23 at 1800

MISSING DATA IS INDICATED BY ---
BLANKS INDICATE ZERO PRECIPITATION

EnergySolutions - Clive, Utah

PRECIPITATION in MM for SEPTEMBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOT	MAX HR
01																									.00	.00
02																									.00	.00
03																									.00	.00
04																			.25						.25	.25
05																									.00	.00
06																									.00	.00
07																									.00	.00
08																									.00	.00
09																									.00	.00
10																									.00	.00
11																									.00	.00
12																									.00	.00
13															.25	.25	.25	.76							1.51	.76
14													.51	.51		1.52	.51								3.05	1.52
15																		.25							.25	.25
16																									.00	.00
17																									.00	.00
18																									.00	.00
19																					.25				.25	.25
20																									.00	.00
21																									.00	.00
22																									.00	.00
23																									.00	.00
24																									.00	.00
25																									.00	.00
26																									.00	.00
27																									.00	.00
28																									.00	.00
29																									.00	.00
30				3.56	1.02	.25	1.27	.76																	6.86	3.56

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 720 DATA RECOVERY RATE = 100 %

TOTAL PRECIPITATION for the MONTH = 12.17 MM

MAXIMUM DAILY PRECIPITATION WAS 6.86 MM on 9/30

MAXIMUM HOURLY PRECIPITATION WAS 3.56 MM on 9/30 at 400

MISSING DATA IS INDICATED BY ---
BLANKS INDICATE ZERO PRECIPITATION

EnergySolutions - Clive, Utah

PRECIPITATION in MM for OCTOBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOT	MAX HR
01																									.00	.00
02																									.00	.00
03																									.00	.00
04															1.02	.25		.25	.76						2.28	1.02
05																									.00	.00
06																									.00	.00
07																									.00	.00
08																									.00	.00
09																									.00	.00
10																									.00	.00
11																									.00	.00
12																									.00	.00
13																							.25	1.02	1.27	1.02
14	.51		.25	.76														.25							1.77	.76
15																									.00	.00
16																									.00	.00
17																									.00	.00
18																									.00	.00
19																			.76	.76	2.03	1.52	2.29	1.02	8.38	2.29
20	1.52	.51	.25	2.03			.25																		4.56	2.03
21																									.00	.00
22																									.00	.00
23																									.00	.00
24	.76														.25										1.01	.76
25																									.00	.00
26																									.00	.00
27																									.00	.00
28																									.00	.00
29																									.00	.00
30																									.00	.00
31																									.00	.00

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

TOTAL PRECIPITATION for the MONTH = 19.27 MM

MAXIMUM DAILY PRECIPITATION WAS 8.38 MM on 10/19

MAXIMUM HOURLY PRECIPITATION WAS 2.29 MM on 10/19 at 2300

MISSING DATA IS INDICATED BY ---
BLANKS INDICATE ZERO PRECIPITATION

EnergySolutions - Clive, Utah

PRECIPITATION in MM for NOVEMBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOT	MAX HR
01																									.00	.00
02																									.00	.00
03																									.00	.00
04																									.00	.00
05																									.00	.00
06																									.00	.00
07																									.00	.00
08																									.00	.00
09																									.00	.00
10																									.00	.00
11																									.00	.00
12																									.00	.00
13																									.00	.00
14											.51	.51													1.02	.51
15																									.00	.00
16																									.00	.00
17																									.00	.00
18																									.00	.00
19																									.00	.00
20																									.00	.00
21																									.00	.00
22																		.25							.25	.25
23																									.00	.00
24																									.00	.00
25																									.00	.00
26																									.00	.00
27																									.00	.00
28																									.00	.00
29																									.00	.00
30																									.00	.00

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 720 DATA RECOVERY RATE = 100 %

TOTAL PRECIPITATION for the MONTH = 1.27 MM

MAXIMUM DAILY PRECIPITATION WAS 1.02 MM on 11/14

MAXIMUM HOURLY PRECIPITATION WAS .51 MM on 11/14 at 1100

MISSING DATA IS INDICATED BY ---
BLANKS INDICATE ZERO PRECIPITATION

EnergySolutions - Clive, Utah

PRECIPITATION in MM for DECEMBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOT	MAX HR
01																									.00	.00
02																									.00	.00
03																									.00	.00
04																									.00	.00
05											.25														.25	.25
06																									.00	.00
07																							.25		.25	.25
08	.25			.25																					.50	.25
09																									.00	.00
10																									.00	.00
11																									.00	.00
12	.25										.25													.25	.75	.25
13	.51		.51	.25	.51	.51	.51		.25	.25	.25	.51													4.06	.51
14																									.00	.00
15																									.00	.00
16																									.00	.00
17																									.00	.00
18																									.00	.00
19																									.00	.00
20																									.00	.00
21																									.00	.00
22										.51	1.02	1.02	.51	1.02	1.27	.51	.25	.25		.25	.25				6.86	1.27
23														.25											.25	.25
24																									.00	.00
25																									.00	.00
26																									.00	.00
27																									.00	.00
28																									.00	.00
29										.25	.25		.25												.75	.25
30				.25		.25	.25			.25															1.00	.25
31																									.00	.00

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

TOTAL PRECIPITATION for the MONTH = 14.67 MM

MAXIMUM DAILY PRECIPITATION WAS 6.86 MM on 12/22

MAXIMUM HOURLY PRECIPITATION WAS 1.27 MM on 12/22 at 1500

MISSING DATA IS INDICATED BY ---
BLANKS INDICATE ZERO PRECIPITATION

Appendix F
Hourly Solar Radiation Data

EnergySolutions - Clive, Utah

SOLAR RADIATION in KILOWATTS/METER^2 for JANUARY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL	MAX
01									.034	.177	.312	.400	.290	.187	.084	.057	.021								1.562	.400
02									.008	.066	.137	.203	.255	.302	.232	.065	.007								1.275	.302
03									.084	.223	.334	.418	.465	.273	.230	.149	.073	.002							2.251	.465
04									.081	.248	.378	.464	.495	.469	.388	.259	.098	.004							2.884	.495
05									.018	.067	.093	.144	.229	.255	.264	.143	.067	.004							1.284	.264
06									.018	.064	.097	.193	.232	.274	.251	.144	.058	.002							1.333	.274
07									.030	.137	.337	.285	.473	.445	.348	.258	.106	.007							2.426	.473
08								.002	.093	.090	.106	.136	.234	.259	.424	.261	.080	.002							1.687	.424
09									.062	.193	.370	.457	.492	.470	.391	.267	.112	.005							2.819	.492
10									.081	.248	.356	.454	.491	.462	.389	.267	.118	.007							2.873	.491
11									.023	.065	.130	.307	.483	.381	.390	.266	.103	.006							2.154	.483
12									.034	.172	.337	.365	.172	.314	.170	.099	.036	.002							1.701	.365
13									.081	.242	.374	.464	.503	.480	.405	.281	.125	.009							2.964	.503
14									.088	.246	.380	.469	.505	.483	.406	.283	.129	.008							2.997	.505
15									.090	.245	.372	.462	.500	.478	.404	.281	.124	.010							2.966	.500
16									.077	.242	.373	.464	.503	.480	.410	.286	.131	.010							2.976	.503
17									.024	.126	.278	.377	.296	.263	.250	.170	.084	.007							1.875	.377
18									.067	.231	.379	.473	.517	.482	.350	.243	.054	.008							2.804	.517
19									.059	.210	.378	.473	.510	.492	.415	.287	.133	.011							2.968	.510
20									.043	.204	.292	.292	.257	.352	.412	.292	.134	.014							2.292	.412
21									.032	.112	.200	.240	.270	.432	.421	.300	.085	.017							2.109	.432
22									.019	.041	.137	.235	.304	.212	.203	.141	.026	.003							1.321	.304
23									.030	.098	.209	.267	.313	.352	.441	.296	.140	.012							2.158	.441
24									.031	.071	.040	.098	.386	.234	.205	.208	.049	.008							1.330	.386
25									.011	.027	.046	.071	.052	.133	.206	.093	.028	.007							.674	.206
26									.057	.161	.292	.431	.374	.258	.269	.194	.099	.019							2.154	.431
27								.002	.111	.287	.432	.529	.566	.546	.432	.260	.098	.016							3.279	.566
28									.047	.111	.144	.266	.227	.352	.420	.306	.095	.020							1.988	.420
29								.002	.114	.286	.428	.524	.565	.547	.469	.341	.182	.027							3.485	.565
30								.003	.118	.287	.432	.530	.572	.555	.478	.349	.186	.029							3.539	.572
31								.003	.114	.289	.433	.530	.571	.554	.477	.351	.191	.033							3.546	.571
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	.057	.170	.278	.356	.390	.380	.343	.232	.096	.010	.000	.000	.000	.000	.000	.000	2.312	
MAX	.000	.000	.000	.000	.000	.000	.000	.003	.118	.289	.433	.530	.572	.555	.478	.351	.191	.033	.000	.000	.000	.000	.000	.000		.572
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.008	.027	.040	.071	.052	.133	.084	.057	.007	.000	.000	.000	.000	.000	.000	.000		

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

MONTHLY MEAN OF DATA > 0 = .229 KILOWATTS/METER^2 MAXIMUM DAILY TOTAL WAS 3.546 KILOWATTS/METER^2 ON 1/31

MAXIMUM SOLAR RADIATION WAS .572 KILOWATTS/METER^2 ON 1/30 AT 1300
MINIMUM DAILY TOTAL WAS .674 KILOWATTS/METER^2 ON 1/25

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY ---

EnergySolutions - Clive, Utah

SOLAR RADIATION in KILOWATTS/METER^2 for FEBRUARY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL	MAX
01								.003	.120	.295	.442	.544	.594	.575	.499	.369	.205	.036							3.682	.594
02								.004	.130	.293	.419	.543	.576	.576	.479	.369	.211	.029							3.629	.576
03								.005	.120	.297	.443	.536	.587	.575	.499	.366	.199	.037							3.664	.587
04								.006	.143	.304	.452	.553	.597	.578	.501	.366	.205	.040							3.745	.597
05								.002	.052	.150	.170	.281	.514	.413	.249	.194	.111	.014							2.150	.514
06									.034	.143	.219	.266	.602	.507	.270	.422	.168	.032							2.663	.602
07								.002	.063	.183	.371	.358	.496	.547	.428	.277	.116	.064							2.905	.547
08								.005	.055	.142	.212	.415	.381	.191	.186	.135	.054	.017							1.793	.415
09								.002	.019	.054	.073	.079	.323	.121	.130	.248	.059	.002							1.110	.323
10								.005	.071	.170	.444	.509	.677	.634	.549	.408	.222	.029							3.718	.677
11								.004	.037	.092	.282	.571	.592	.419	.527	.427	.243	.060							3.254	.592
12								.010	.171	.299	.370	.553	.427	.305	.135	.275	.128	.041							2.714	.553
13								.008	.092	.248	.398	.487	.488	.599	.573	.235	.087	.026							3.241	.599
14								.002	.017	.061	.225	.507	.688	.648	.485	.196	.170	.086							3.085	.688
15								.010	.204	.342	.544	.571	.637	.634	.478	.443	.277	.065							4.205	.637
16								.006	.074	.194	.265	.545	.531	.440	.317	.157	.069	.014							2.612	.545
17								.010	.045	.095	.158	.142	.153	.437	.471	.286	.225	.049							2.071	.471
18								.022	.198	.379	.532	.630	.674	.675	.518	.459	.279	.082	.002						4.450	.675
19								.035	.205	.388	.539	.645	.674	.655	.585	.442	.248	.074							4.490	.674
20								.039	.155	.269	.547	.640	.686	.668	.588	.454	.280	.090	.002						4.418	.686
21								.032	.205	.389	.543	.649	.664	.675	.573	.463	.282	.061							4.536	.675
22								.013	.098	.124	.209	.271	.317	.466	.345	.220	.105	.043							2.211	.466
23								.006	.026	.063	.190	.256	.431	.473	.357	.254	.189	.056							2.301	.473
24								.042	.224	.394	.543	.657	.701	.671	.604	.461	.241	.082	.004						4.624	.701
25								.014	.094	.277	.454	.519	.509	.646	.347	.272	.327	.112	.004						3.575	.646
26								.015	.216	.359	.522	.680	.726	.672	.623	.384	.239	.094	.003						4.533	.726
27								.016	.247	.439	.592	.697	.739	.720	.633	.493	.314	.116	.005						5.011	.739
28								.057	.208	.400	.595	.701	.751	.651	.607	.463	.300	.084	.004						4.821	.751
MEAN	.000	.000	.000	.000	.000	.000	.000	.013	.119	.244	.384	.493	.562	.542	.448	.341	.198	.055	.001	.000	.000	.000	.000	.000	3.400	
MAX	.000	.000	.000	.000	.000	.000	.000	.057	.247	.439	.595	.701	.751	.720	.633	.493	.327	.116	.005	.000	.000	.000	.000	.000		.751
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.017	.054	.073	.079	.153	.121	.130	.135	.054	.002	.000	.000	.000	.000	.000	.000		

POSSIBLE NUMBER OF OBSERVATIONS = 672 ACTUAL NUMBER OF OBSERVATIONS = 672 DATA RECOVERY RATE = 100 %

MONTHLY MEAN OF DATA > 0 = .303 KILOWATTS/METER^2 MAXIMUM DAILY TOTAL WAS 5.011 KILOWATTS/METER^2 ON 2/27

MAXIMUM SOLAR RADIATION WAS .751 KILOWATTS/METER^2 ON 2/28 AT 1300
MINIMUM DAILY TOTAL WAS 1.110 KILOWATTS/METER^2 ON 2/ 9

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY ---

EnergySolutions - Clive, Utah

SOLAR RADIATION in KILOWATTS/METER^2 for MARCH, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL	MAX
01								.013	.072	.189	.473	.374	.501	.318	.331	.183	.127	.050	.002						2.633	.501
02								.027	.113	.151	.155	.247	.177	.307	.271	.108	.055	.030	.002						1.643	.307
03								.025	.199	.451	.605	.680	.644	.644	.457	.291	.166	.064	.004						4.230	.680
04								.073	.258	.451	.613	.503	.304	.257	.196	.326	.158	.033							3.172	.613
05								.082	.279	.466	.623	.720	.502	.693	.596	.302	.183	.072	.007						4.525	.720
06								.022	.065	.136	.207	.261	.449	.370	.379	.379	.133	.016							2.417	.449
07								.089	.293	.482	.635	.737	.780	.754	.670	.530	.330	.146	.010						5.456	.780
08								.093	.295	.485	.638	.740	.783	.758	.662	.443	.330	.140	.009						5.376	.783
09								.019	.118	.158	.126	.090	.074	.256	.376	.392	.220	.146	.009						1.984	.392
10								.106	.276	.507	.661	.766	.664	.656	.655	.530	.359	.159	.011						5.350	.766
11							.002	.114	.310	.473	.598	.652	.736	.724	.681	.477	.222	.086	.009						5.084	.736
12								.109	.321	.513	.666	.766	.806	.780	.693	.550	.369	.168	.015						5.756	.806
13							.002	.125	.336	.524	---	.679	.783	.826	.796	.706	.564	.384	.179	.017						5.921	.826
14								.003	.128	.341	.536	.672	.795	.831	.795	.715	.480	.210	.087	.023						5.616	.831
15								.004	.072	.182	.499	.672	.729	.800	.771	.701	.552	.284	.165	.020						5.451	.800
16								.003	.046	.137	.255	.432	.671	.487	.651	.559	.332	.200	.142	.011						3.926	.671
17								.004	.063	.184	.437	.689	.807	.851	.827	.679	.552	.338	.094	.017						5.542	.851
18								.004	.102	.321	.532	.687	.792	.834	.804	.714	.573	.389	.184	.021						5.957	.834
19								.010	.163	.311	.443	.538	.724	.745	.604	.548	.408	.228	.080	.010						4.812	.745
20								.008	.148	.351	.540	.695	.802	.842	.812	.721	.577	.396	.194	.025						6.111	.842
21								.003	.155	.343	.577	.671	.829	.716	.768	.675	.403	.228	.096	.029						5.493	.829
22								.007	.058	.165	.482	.074	.093	.093	.103	.123	.292	.170	.051	.014						1.725	.482
23								.006	.054	.149	.258	.296	.702	.586	.538	.472	.358	.398	.207	.032						4.056	.702
24								.016	.153	.342	.584	.666	.541	.591	.585	.641	.562	.454	.129	.010						5.274	.666
25								.005	.038	.115	.239	.292	.338	.453	.507	.291	.119	.094	.047	.011						2.549	.507
26								.003	.066	.190	.500	.741	.807	.867	.857	.759	.612	.428	.218	.033						6.081	.867
27								.026	.201	.415	.532	.629	.737	.872	.829	.724	.512	.361	.211	.017						6.066	.872
28								.022	.200	.408	.596	.748	.848	.884	.854	.762	.613	.429	.220	.032						6.616	.884
29								.006	.040	.049	.102	.313	.637	.894	.853	.723	.606	.322	.090	.006						4.641	.894
30								.010	.080	.429	.500	.751	.800	.772	.732	.810	.614	.455	.238	.038						6.229	.810
31								.041	.175	.286	.365	.363	.471	.725	.517	.364	.271	.095	.077	.013						3.763	.725
MEAN	.000	.000	.000	.000	.000	.000	.000	.035	.157	.313	.466	.553	.623	.651	.618	.523	.376	.225	.090	.012	.000	.000	.000	.000	4.628	
MAX	.000	.000	.000	.000	.000	.000	.002	.125	.336	.524	.666	.766	.848	.894	.857	.810	.614	.455	.238	.038	.000	.000	.000	.000		.894
MIN	.000	.000	.000	.000	.000	.000	.000	.003	.038	.049	.102	.074	.074	.093	.103	.108	.055	.016	.000	.000	.000	.000	.000	.000		

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 743 DATA RECOVERY RATE = 99.9 %

MONTHLY MEAN OF DATA > 0 = .368 KILOWATTS/METER^2 MAXIMUM DAILY TOTAL WAS 6.616 KILOWATTS/METER^2 ON 3/28

MAXIMUM SOLAR RADIATION WAS .894 KILOWATTS/METER^2 ON 3/29 AT 1400
MINIMUM DAILY TOTAL WAS 1.643 KILOWATTS/METER^2 ON 3/ 2

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY ---

EnergySolutions - Clive, Utah

SOLAR RADIATION in KILOWATTS/METER^2 for APRIL, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL	MAX
01								.010	.089	.296	.601	.729	.856	.902	.882	.764	.597	.458	.200	.045					6.429	.902
02								.024	.126	.307	.433	.510	.524	.970	.794	.345	.351	.216	.154	.020					4.774	.970
03								.012	.073	.134	.370	.626	.688	.740	.413	.357	.427	.237	.095	.032					4.204	.740
04								.010	.139	.384	.639	.465	.599	.561	.247	.314	.546	.244	.112	.030					4.290	.639
05								.053	.251	.462	.652	.821	.804	.898	.576	.796	.649	.460	.252	.059					6.733	.898
06								.058	.261	.473	.662	.815	.916	.949	.917	.816	.665	.475	.261	.064					7.332	.949
07								.049	.244	.460	.665	.821	.913	.951	.912	.820	.584	.237	.148	.059					6.863	.951
08								.051	.262	.463	.411	.508	.433	.314	.571	.667	.450	.169	.048	.007					4.354	.667
09								.011	.068	.259	.581	.728	.926	.770	.682	.662	.582	.560	.254	.054					6.137	.926
10								.035	.133	.243	.452	.709	.777	.806	.728	.530	.391	.252	.136	.035					5.227	.806
11								.047	.152	.385	.407	.627	.615	.275	.144	.140	.206	.361	.071	.063	.002				3.495	.627
12								.079	.279	.489	.676	.815	.919	.961	.922	.821	.663	.477	.269	.081					7.451	.961
13								.064	.283	.484	.663	.831	.932	.963	.925	.796	.634	.485	.207	.052					7.319	.963
14								.009	.022	.056	.080	.102	.148	.259	.203	.134	.067	.042	.014	.006					1.142	.259
15								.010	.111	.241	.528	.793	.823	.536	.677	.389	.296	.088	.038	.013					4.543	.823
16								.009	.036	.173	.431	.490	.560	.573	.650	.555	.467	.181	.079	.021					4.225	.650
17								.023	.120	.233	.490	.846	.947	.485	.373	.337	.284	.172	.213	.070	.002				4.595	.947
18								.100	.306	.509	.693	.841	.929	.958	.922	.827	.592	.501	.299	.094	.002				7.573	.958
19							.002	.110	.315	.524	.703	.858	.942	.942	.941	.853	.700	.516	.302	.100	.003				7.811	.942
20							.002	.112	.311	.520	.706	.858	.955	.989	.954	.854	.703	.517	.304	.100	.003				7.888	.989
21							.003	.120	.325	.532	.718	.869	.961	.991	.958	.858	.706	.521	.306	.101	.003				7.972	.991
22							.003	.095	.322	.541	.724	.870	.961	.985	.953	.802	.486	.183	.323	.089	.005				7.342	.985
23							.003	.043	.257	.430	.509	.642	.863	.744	.876	.385	.320	.140	.094	.066	.003				5.375	.876
24							.002	.028	.124	.435	.464	.539	.381	.421	.617	.437	.297	.141	.034	.021					3.941	.617
25								.017	.039	.117	.161	.129	.430	.879	.418	.225	.463	.447	.295	.085	.004				3.709	.879
26								.033	.218	.474	.688	.905	.549	.686	.594	.574	.652	.458	.290	.105	.005				6.231	.905
27							.008	.131	.348	.556	.742	.888	.978	.861	.849	.840	.733	.528	.218	.038	.002				7.720	.978
28							.006	.132	.336	.566	.410	.864	.936	.770	.960	.338	.198	.045	.034	.028	.004				5.627	.960
29							.009	.143	.351	.557	.740	.886	.976	1.004	.967	.866	.711	.524	.314	.106	.007				8.161	1.004
30							.010	.148	.321	.532	.710	.898	.984	1.012	.979	.874	.713	.531	.333	.068	.004				8.117	1.012
MEAN	.000	.000	.000	.000	.000	.000	.002	.059	.207	.395	.557	.709	.774	.772	.720	.599	.504	.339	.190	.057	.002	.000	.000	.000	5.886	
MAX	.000	.000	.000	.000	.000	.000	.010	.148	.351	.566	.742	.905	.984	1.012	.979	.874	.733	.560	.333	.106	.007	.000	.000	.000		1.012
MIN	.000	.000	.000	.000	.000	.000	.000	.009	.022	.056	.080	.102	.148	.259	.144	.134	.067	.042	.014	.006	.000	.000	.000	.000		

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 720 DATA RECOVERY RATE = 100 %

MONTHLY MEAN OF DATA > 0 = .427 KILOWATTS/METER^2 MAXIMUM DAILY TOTAL WAS 8.161 KILOWATTS/METER^2 ON 4/29

MAXIMUM SOLAR RADIATION WAS 1.012 KILOWATTS/METER^2 ON 4/30 AT 1400
MINIMUM DAILY TOTAL WAS 1.142 KILOWATTS/METER^2 ON 4/14

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY ---

EnergySolutions - Clive, Utah

SOLAR RADIATION in KILOWATTS/METER^2 for MAY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL	MAX
01							.006	.082	.165	.432	.687	.486	.731	.877	.895	.637	.354	.160	.062	.010					5.584	.895
02								.006	.059	.095	.182	.435	.905	.744	.620	.798	.431	.310	.144	.076	.004				4.809	.905
03							.002	.047	.143	.264	.710	.895	.921	.699	.728	.502	.245	.263	.128	.037	.003				5.587	.921
04							.008	.151	.268	.543	.696	.826	.719	.677	.819	.568	.521	.409	.207	.059	.003				6.474	.826
05							.007	.115	.375	.416	.764	.912	.882	.944	.818	.828	.716	.546	.321	.047	.008				7.699	.944
06							.014	.144	.371	.579	.763	.908	.971	.846	.717	.688	.669	.494	.328	.106	.009				7.607	.971
07							.018	.163	.356	.582	.765	.918	.997	1.022	.987	.891	.736	.547	.334	.108	.009				8.433	1.022
08							.021	.182	.389	.595	.776	.921	1.006	1.035	.997	.901	.752	.560	.343	.113	.010				8.601	1.035
09							.023	.189	.394	.585	.778	.923	1.007	1.024	.868	.688	.600	.530	.327	.116	.013				8.065	1.024
10							.020	.177	.387	.578	.736	.876	.987	.889	.829	.751	.640	.525	.282	.120	.010				7.807	.987
11							.016	.159	.347	.604	.750	.903	.877	.745	.563	.682	.700	.317	.162	.050	.019				6.894	.903
12							.023	.148	.384	.592	.779	.936	.927	.838	1.002	.855	.681	.507	.266	.137	.018				8.093	1.002
13							.030	.203	.416	.623	.805	.947	1.004	.906	.908	.893	.606	.577	.335	.115	.014				8.382	1.004
14							.012	.071	.298	.613	.713	.943	.949	.931	.960	.752	.614	.462	.318	.101	.010				7.747	.960
15							.030	.195	.400	.602	.787	.930	1.010	1.005	.818	.701	.743	.390	.369	.131	.017				8.128	1.010
16							.032	.199	.404	.604	.784	.926	1.015	1.036	.995	.896	.747	.570	.358	.126	.016				8.708	1.036
17							.032	.204	.409	.609	.797	.938	1.023	1.049	1.010	.913	.764	.580	.368	.127	.016				8.839	1.049
18							.035	.204	.409	.610	---	.981	1.023	1.048	1.012	.918	.766	.579	.364	.089	.006				8.044	1.048
19							.017	.129	.289	.468	.295	.424	.433	.591	.794	.714	.311	.347	.290	.135	.017				5.254	.794
20							.021	.103	.285	.556	.681	.922	1.000	.862	.791	.798	.736	.508	.218	.130	.016				7.627	1.000
21							.038	.208	.410	.607	.786	.925	1.010	1.039	.993	.900	.704	.549	.367	.129	.019				8.684	1.039
22							.021	.242	.157	.286	.622	.860	.863	.797	.914	.606	.198	.152	.160	.088	.024				5.990	.914
23							.033	.131	.237	.304	.474	.637	.589	.717	.845	.802	.674	.391	.210	.060	.013				6.117	.845
24							.006	.042	.120	.236	.111	.326	.579	.971	.855	.883	.575	.529	.204	.014					5.451	.971
25							.040	.183	.415	.600	.793	.932	1.050	.975	.964	.850	.775	.542	.341	.121	.020				8.601	1.050
26							.044	.215	.416	.611	.789	.929	.882	.886	.947	.781	.732	.505	.386	.123	.019				8.265	.947
27							.044	.217	.418	.615	.794	.930	1.025	1.057	1.021	.918	.769	.590	.382	.125	.018				8.923	1.057
28							.049	.227	.393	.625	.800	.883	.917	1.052	1.013	.927	.787	.591	.390	.130	.017				8.801	1.052
29							.050	.222	.420	.617	.797	.939	1.030	1.058	1.033	.977	.703	.330	.267	.169	.031				8.643	1.058
30							.048	.221	.412	.616	.792	.934	.968	1.040	.917	.560	.396	.551	.384	.106	.026				7.971	1.040
31							.029	.222	.423	.634	.789	.925	1.018	1.022	.795	.896	.842	.817	.193	.041	.015				8.661	1.022
MEAN	.000	.000	.000	.000	.000	.000	.025	.161	.334	.526	.693	.844	.914	.916	.885	.790	.629	.475	.284	.098	.014	.000	.000	.000	7.564	
MAX	.000	.000	.000	.000	.000	.000	.050	.242	.423	.634	.805	.981	1.050	1.058	1.033	.977	.842	.817	.390	.169	.031	.000	.000	.000		1.058
MIN	.000	.000	.000	.000	.000	.000	.000	.006	.059	.095	.111	.326	.433	.591	.563	.502	.198	.152	.062	.010	.000	.000	.000	.000		

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 743 DATA RECOVERY RATE = 99.9 %

MONTHLY MEAN OF DATA > 0 = .509 KILOWATTS/METER^2 MAXIMUM DAILY TOTAL WAS 8.923 KILOWATTS/METER^2 ON 5/27

MAXIMUM SOLAR RADIATION WAS 1.058 KILOWATTS/METER^2 ON 5/29 AT 1400
MINIMUM DAILY TOTAL WAS 4.809 KILOWATTS/METER^2 ON 5/ 2

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY ---

EnergySolutions - Clive, Utah

SOLAR RADIATION in KILOWATTS/METER^2 for JUNE, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL	MAX
01							.056	.209	.292	.490	.816	.962	.850	.921	.714	.777	.494	.417	.055	.005					7.058	.962
02							.045	.132	.204	.593	.781	.954	1.002	.939	1.005	.766	.594	.012	.020	.052	.019				7.118	1.005
03							.053	.225	.426	.618	.732	.869	.914	.831	.691	.925	.793	.557	.324	.141	.022				8.121	.925
04							.060	.209	.351	.373	.517	.716	.821	.793	.557	.445	.292	.213	.150	.073	.010				5.580	.821
05							.015	.058	.070	.449	.054	.530	.539	.912	.797	.550	.786	.588	.114	.052	.011				5.525	.912
06							.040	.228	.428	.625	.803	.947	1.007	1.011	.963	.761	.803	.362	.118	.066	.010				8.172	1.011
07							.019	.060	.071	.122	.303	.723	.631	.947	.914	.715	.279	.206	.246	.074	.019				5.329	.947
08							.043	.165	.395	.415	.619	.792	.956	.657	.616	.623	.804	.587	.399	.127	.018				7.216	.956
09							.037	.160	.316	.491	.500	.829	.843	.980	.887	.436	.285	.190	.186	.066	.010				6.216	.980
10							.008	.038	.101	.317	.513	.342	.705	.904	.676	.250	.158	.267	.299	.110	.020				4.708	.904
11							.024	.126	.303	.283	.374	.680	.713	.373	.360	.692	.369	.329	.248	.156	.018				5.048	.713
12							.055	.168	.333	.406	.706	.262	.879	.884	.833	.859	.613	.312	.148	.040	.013				6.511	.884
13							.022	.088	.104	.209	.196	.261	.784	.810	.399	.504	.457	.577	.144	.063	.016				4.634	.810
14							.029	.111	.372	.521	.756	.904	.774	.853	.825	.687	.208	.115	.110	.077	.023				6.365	.904
15							.048	.224	.418	.611	.784	.926	.884	.964	1.010	1.006	.809	.625	.364	.104	.018				8.795	1.010
16							.026	.086	.211	.396	.699	.917	.890	.917	.968	.949	.306	.383	.139	.125	.034				7.046	.968
17							.005	.017	.087	.228	.343	.832	.255	.904	.552	.554	.788	.208	.009	.002	.005				4.789	.904
18							.042	.168	.410	.605	.569	.952	1.056	1.054	.923	.852	.816	.629	.398	.158	.022				8.654	1.056
19							.053	.226	.423	.615	.790	.929	1.015	1.044	1.016	.931	.791	.617	.412	.162	.017				9.041	1.044
20							.048	.093	.236	.316	.171	.052	.149	.233	.072	.095	.146	.230	.189	.062	.007				2.099	.316
21							.007	.074	.214	.435	.703	.900	1.008	1.037	1.011	.928	.809	.422	.254	.110	.025				7.937	1.037
22							.052	.223	.418	.612	.788	.924	1.010	1.037	1.008	.923	.785	.614	.410	.164	.022				8.990	1.037
23							.051	.222	.420	.614	.793	.934	1.023	1.049	1.020	.937	.798	.625	.421	.169	.021				9.097	1.049
24							.051	.224	.421	.615	.794	.940	1.028	1.062	1.041	.960	.818	.639	.428	.173	.021				9.215	1.062
25							.042	.123	.327	.199	.396	.817	1.016	1.064	.343	.300	.703	.343	.153	.053	.012				5.891	1.064
26							.024	.187	.236	.600	.778	.917	1.014	1.006	.800	.452	.679	.216	.123	.182	.028				7.242	1.014
27							.046	.209	.411	.614	.792	.931	1.023	1.056	1.026	.940	.807	.631	.414	.180	.029	.002			9.111	1.056
28							.049	.222	.420	.615	.796	.939	1.030	1.061	1.031	.948	.810	.637	.432	.178	.021				9.189	1.061
29							.042	.216	.418	.609	.791	.935	1.023	1.054	1.029	.957	.813	.446	.192	.133	.038				8.696	1.054
30							.044	.215	.459	.613	.741	.941	1.035	1.130	1.050	.808	.518	.284	.155	.079	.043				8.115	1.130
MEAN	.000	.000	.000	.000	.000	.000	.038	.157	.310	.474	.613	.785	.863	.916	.805	.718	.604	.409	.235	.105	.019	.000	.000	.000	7.050	
MAX	.000	.000	.000	.000	.000	.000	.060	.228	.459	.625	.816	.962	1.056	1.130	1.050	1.006	.818	.639	.432	.182	.043	.002	.000	.000		1.130
MIN	.000	.000	.000	.000	.000	.000	.005	.017	.070	.122	.054	.052	.149	.233	.072	.095	.146	.012	.009	.002	.000	.000	.000	.000		

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 720 DATA RECOVERY RATE = 100 %

MONTHLY MEAN OF DATA > 0 = .470 KILOWATTS/METER^2 MAXIMUM DAILY TOTAL WAS 9.215 KILOWATTS/METER^2 ON 6/24

MAXIMUM SOLAR RADIATION WAS 1.130 KILOWATTS/METER^2 ON 6/30 AT 1400
MINIMUM DAILY TOTAL WAS 2.099 KILOWATTS/METER^2 ON 6/20

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY ---

EnergySolutions - Clive, Utah

SOLAR RADIATION in KILOWATTS/METER^2 for JULY, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL	MAX
01							.010	.080	.409	.574	.791	.914	.943	.943	.478	.680	.633	.627	.177	.047	.009				7.315	.943
02							.032	.206	.371	.375	.571	.722	.521	.267	.151	.100	.122	.241	.187	.103	.019				3.988	.722
03							.035	.201	.391	.582	.757	.898	.990	1.024	1.001	.920	.648	.588	.224	.078	.033				8.370	1.024
04							.017	.048	.027	.059	.081	.399	.907	.418	.860	.920	.786	.275	.152	.067	.017				5.033	.920
05							.040	.201	.393	.585	.760	.902	.993	1.030	1.012	.932	.792	.623	.418	.176	.021				8.878	1.030
06							.040	.210	.412	.610	.792	.933	1.027	1.058	1.031	.944	.799	.622	.418	.177	.024				9.097	1.058
07							.039	.205	.403	.600	.782	.925	1.016	1.053	1.024	.939	.796	.626	.424	.179	.023				9.034	1.053
08							.039	.210	.410	.609	.789	.933	1.022	1.056	1.029	.943	.804	.628	.423	.177	.025				9.097	1.056
09							.020	.189	.390	.595	.775	.921	1.013	1.050	1.022	.936	.797	.623	.419	.176	.023				8.949	1.050
10							.036	.202	.400	.597	.779	.924	1.015	1.063	1.052	.911	.807	.390	.223	.123	.029				8.551	1.063
11							.015	.071	.170	.452	.319	.548	.532	.232	.375	.789	.630	.440	.213	.127	.034				4.947	.789
12							.042	.141	.402	.277	.382	.466	.903	.946	1.008	.898	.457	.283	.154	.096	.029				6.484	1.008
13							.030	.187	.384	.585	.763	.902	.995	1.030	.999	.923	.789	.617	.414	.174	.026				8.818	1.030
14							.033	.199	.396	.594	.770	.916	1.008	1.042	1.020	.938	.801	.625	.412	.167	.023				8.944	1.042
15							.031	.190	.385	.583	.763	.910	1.005	1.040	1.015	.934	.795	.619	.411	.168	.022				8.871	1.040
16							.028	.186	.384	.582	.764	.912	1.005	1.038	1.016	.876	.805	.617	.420	.176	.022				8.831	1.038
17							.027	.188	.386	.580	.763	.910	1.006	1.039	1.011	.930	.792	.617	.409	.167	.021				8.846	1.039
18							.024	.177	.374	.572	.757	.820	1.024	.830	.593	.680	.632	.188	.190	.092	.015				6.968	1.024
19							.025	.182	.359	.576	.751	.863	.891	1.014	.995	.745	.711	.572	.258	.017	.008				7.967	1.014
20							.020	.165	.360	.557	.735	.883	.980	1.014	.993	.914	.775	.611	.370	.148	.024				8.549	1.014
21							.017	.159	.363	.557	.739	.884	.981	1.018	.997	.914	.765	.603	.414	.167	.017				8.595	1.018
22							.027	.197	.323	.562	.742	.888	.983	1.020	.997	.920	.785	.613	.403	.170	.020				8.650	1.020
23							.021	.174	.370	.552	.751	.910	.997	1.025	.856	.902	.847	.359	.239	.098	.028				8.129	1.025
24							.012	.130	.330	.242	.535	.732	.850	1.010	.994	.926	.876	.248	.330	.140	.019				7.374	1.010
25							.006	.068	.268	.467	.608	.810	.959	1.006	.996	.906	.631	.388	.197	.063	.021				7.394	1.006
26							.011	.072	.350	.464	.729	.855	.969	1.008	.989	.902	.802	.392	.370	.170	.019				8.102	1.008
27							.019	.185	.372	.551	.731	.883	.981	1.011	.985	.900	.755	.581	.361	.164	.021				8.500	1.011
28							.016	.158	.352	.549	.729	.876	.971	1.007	.985	.903	.767	.589	.378	.168	.017				8.465	1.007
29							.019	.171	.356	.551	.727	.873	.970	1.006	.985	.899	.756	.567	.368	.158	.018				8.424	1.006
30							.012	.136	.331	.537	.721	.869	.963	1.002	.977	.889	.746	.309	.123	.094	.010				7.719	1.002
31							.010	.150	.347	.523	.727	.757	.929	.912	1.022	.909	.759	.582	.371	.152	.017				8.167	1.022
MEAN	.000	.000	.000	.000	.000	.000	.024	.162	.354	.519	.690	.837	.947	.942	.918	.865	.731	.505	.318	.135	.021	.000	.000	.000	7.970	
MAX	.000	.000	.000	.000	.000	.000	.042	.210	.412	.610	.792	.933	1.027	1.063	1.052	.944	.876	.628	.424	.179	.034	.000	.000	.000		1.063
MIN	.000	.000	.000	.000	.000	.000	.006	.048	.027	.059	.081	.399	.521	.232	.151	.100	.122	.188	.123	.017	.008	.000	.000	.000		

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

MONTHLY MEAN OF DATA > 0 = .531 KILOWATTS/METER^2 MAXIMUM DAILY TOTAL WAS 9.097 KILOWATTS/METER^2 ON 7/ 8

MAXIMUM SOLAR RADIATION WAS 1.063 KILOWATTS/METER^2 ON 7/10 AT 1400
MINIMUM DAILY TOTAL WAS 3.988 KILOWATTS/METER^2 ON 7/ 2

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY ---

EnergySolutions - Clive, Utah

SOLAR RADIATION in KILOWATTS/METER^2 for AUGUST, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL	MAX
01							.011	.102	.319	.542	.728	.882	.978	1.019	.999	.915	.769	.592	.384	.162	.015				8.417	1.019
02							.007	.117	.205	.516	.438	.687	.971	1.011	.989	.908	.763	.581	.374	.153	.013				7.733	1.011
03							.006	.141	.344	.488	.507	.709	1.019	.995	.785	.863	.770	.588	.269	.161	.026				7.671	1.019
04							.008	.075	.183	.450	.709	.943	1.050	1.014	.711	.783	.641	.556	.319	.064	.017				7.523	1.050
05							.007	.091	.322	.454	.654	.750	.975	1.014	.921	.782	.543	.496	.221	.024	.010				7.264	1.014
06							.005	.079	.315	.542	.733	.860	.960	1.009	.992	.832	.746	.659	.183	.090	.015				8.020	1.009
07							.008	.123	.323	.533	.708	.860	.951	.990	.976	.724	.783	.469	.354	.139	.018				7.959	.990
08							.002	.055	.111	.182	.274	.447	.871	.754	.755	.776	.551	.252	.250	.125	.011				5.416	.871
09							.007	.132	.326	.527	.727	.834	.938	.967	.873	.871	.728	.551	.340	.132	.012				7.965	.967
10							.006	.126	.322	.523	.707	.857	.953	.985	.954	.870	.728	.552	.340	.132	.011				8.066	.985
11							.004	.066	.266	.499	.674	.853	.948	.998	.834	.868	.721	.535	.330	.129	.011				7.736	.998
12							.005	.126	.323	.527	.712	.860	.947	.992	.957	.844	.724	.547	.335	.127	.008				8.034	.992
13							.004	.099	.180	.351	.677	.907	.954	.987	.963	.847	.322	.186	.322	.056	.009				6.864	.987
14							.004	.107	.305	.511	.698	.840	.932	.969	.950	.846	.651	.532	.299	.067	.014				7.725	.969
15								.007	.064	.323	.712	.857	.949	.988	.970	.880	.728	.546	.336	.133	.009				7.502	.988
16							.004	.113	.314	.516	.699	.851	.951	.985	.957	.865	.717	.535	.328	.130	.008				7.973	.985
17							.003	.113	.312	.513	.695	.846	.939	.974	.947	.855	.710	.526	.321	.122	.006				7.882	.974
18							.003	.101	.304	.423	.617	.866	.910	.963	.952	.836	.718	.537	.230	.089	.005				7.554	.963
19							.002	.110	.310	.512	.694	.843	.934	.966	.939	.850	.703	.518	.311	.117	.005				7.814	.966
20							.002	.103	.301	.503	.686	.838	.935	.969	.940	.844	.698	.515	.311	.117	.004				7.766	.969
21							.002	.106	.302	.505	.686	.836	.937	.971	.942	.847	.699	.517	.312	.109	.003				7.774	.971
22							.002	.063	.252	.481	.682	.788	.913	.818	.737	.678	.456	.460	.274	.077	.003				6.684	.913
23								.013	.098	.579	.513	.459	.762	.523	.652	.744	.456	.049	.143	.079					5.070	.762
24								.027	.122	.159	.433	.783	.922	.923	.516	.764	.768	.590	.264	.036	.002				6.309	.923
25								.025	.091	.233	.681	.806	.902	.917	.899	.825	.674	.494	.286	.091	.002				6.926	.917
26								.096	.242	.465	.659	.809	.905	.942	.915	.827	.685	.493	.287	.090	.002				7.417	.942
27								.088	.283	.487	.670	.797	.854	.938	.920	.791	.667	.485	.282	.087	.002				7.351	.938
28								.085	.284	.486	.692	.741	.873	.930	.913	.783	.702	.514	.246	.067					7.316	.930
29								.050	.151	.266	.479	.600	.673	.711	.687	.721	.674	.481	.180	.078	.002				5.753	.721
30								.067	.256	.448	.638	.776	.850	.863	.804	.685	.322	.240	.151	.042					6.142	.863
31								.065	.278	.465	.647	.798	.894	.911	.873	.785	.630	.458	.254	.072					7.130	.911
MEAN	.000	.000	.000	.000	.000	.000	.003	.086	.252	.452	.640	.793	.921	.935	.878	.816	.659	.486	.285	.100	.008	.000	.000	.000	7.315	
MAX	.000	.000	.000	.000	.000	.000	.011	.141	.344	.579	.733	.943	1.050	1.019	.999	.915	.783	.659	.384	.162	.026	.000	.000	.000		1.050
MIN	.000	.000	.000	.000	.000	.000	.000	.007	.064	.159	.274	.447	.673	.523	.516	.678	.322	.049	.143	.024	.000	.000	.000	.000		

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

MONTHLY MEAN OF DATA > 0 = .503 KILOWATTS/METER^2 MAXIMUM DAILY TOTAL WAS 8.417 KILOWATTS/METER^2 ON 8/ 1

MAXIMUM SOLAR RADIATION WAS 1.050 KILOWATTS/METER^2 ON 8/ 4 AT 1300
MINIMUM DAILY TOTAL WAS 5.070 KILOWATTS/METER^2 ON 8/23

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY ---

EnergySolutions - Clive, Utah

SOLAR RADIATION in KILOWATTS/METER^2 for SEPTEMBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL	MAX
01								.064	.254	.460	.623	.775	.892	.927	.911	.822	.632	.421	.220	.086					7.087	.927
02								.031	.172	.300	.483	.551	.813	.791	.829	.686	.544	.445	.131	.035					5.811	.829
03								.052	.194	.356	.625	.636	.920	.799	.872	.763	.613	.458	.265	.044					6.597	.920
04								.053	.233	.444	.637	.776	.838	.895	.853	.833	.583	.229	.114	.018					6.506	.895
05								.047	.149	.239	.272	.436	.317	.354	.622	.660	.530	.189	.081	.029					3.925	.660
06								.037	.126	.262	.653	.610	.815	.887	.862	.752	.600	.385	.200	.045					6.234	.887
07								.051	.236	.437	.617	.762	.853	.884	.853	.791	.444	.421	.215	.037					6.601	.884
08								.057	.253	.462	.641	.785	.876	.902	.863	.761	.609	.423	.218	.040					6.890	.902
09								.052	.242	.444	.623	.767	.860	.887	.849	.748	.600	.414	.207	.034					6.727	.887
10								.050	.247	.407	.596	.749	.850	.925	.743	.594	.446	.427	.203	.034					6.271	.925
11								.048	.242	.442	.622	.768	.863	.890	.851	.748	.598	.412	.206	.031					6.721	.890
12								.046	.236	.437	.616	.758	.853	.882	.844	.724	.595	.411	.203	.029					6.634	.882
13								.024	.121	.312	.278	.354	.433	.429	.311	.096	.057	.083	.118	.012					2.628	.433
14								.029	.212	.406	.524	.522	.167	.566	.568	.109	.174	.331	.224	.023					3.855	.568
15								.014	.079	.267	.443	.608	.832	.914	.827	.196	.254	.102	.091	.021					4.648	.914
16								.037	.217	.415	.593	.735	.824	.848	.805	.689	.547	.369	.170	.017					6.266	.848
17								.034	.212	.409	.585	.726	.819	.845	.800	.697	.551	.370	.143	.015					6.206	.845
18								.034	.208	.402	.580	.720	.811	.833	.788	.688	.538	.354	.160	.016					6.132	.833
19								.034	.213	.407	.580	.724	.822	.783	.800	.692	.541	.345	.109	.004					6.054	.822
20								.020	.195	.394	.570	.710	.797	.825	.792	.685	.537	.355	.154	.012					6.046	.825
21								.032	.224	.429	.609	.751	.840	.863	.820	.714	.559	.369	.158	.012					6.380	.863
22								.029	.214	.415	.592	.730	.818	.838	.776	.695	.540	.349	.146	.010					6.152	.838
23								.027	.204	.403	.580	.718	.807	.830	.782	.680	.528	.342	.140	.008					6.049	.830
24								.026	.203	.398	.576	.705	.802	.826	.783	.680	.529	.340	.133	.006					6.007	.826
25								.024	.200	.398	.577	.716	.797	.813	.747	.661	.501	.316	.120	.007					5.877	.813
26								.021	.187	.382	.563	.703	.792	.813	.766	.667	.510	.318	.118	.005					5.845	.813
27								.021	.197	.394	.574	.708	.792	.818	.778	.677	.521	.330	.122	.004					5.936	.818
28								.020	.167	.390	.569	.706	.790	.810	.765	.659	.504	.227	.105	.002					5.714	.810
29								.011	.107	.290	.551	.673	.690	.627	.674	.462	.355	.156	.045	.002					4.643	.690
30									.027	.097	.371	.569	.517	.402	.505	.760	.211	.110	.057	.003					3.629	.760
MEAN	.000	.000	.000	.000	.000	.000	.000	.034	.192	.377	.557	.682	.763	.790	.768	.646	.492	.327	.152	.021	.000	.000	.000	.000	5.802	
MAX	.000	.000	.000	.000	.000	.000	.000	.064	.254	.462	.653	.785	.920	.927	.911	.833	.632	.458	.265	.086	.000	.000	.000	.000		.927
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.027	.097	.272	.354	.167	.354	.311	.096	.057	.083	.045	.002	.000	.000	.000	.000		

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 720 DATA RECOVERY RATE = 100 %

MONTHLY MEAN OF DATA > 0 = .447 KILOWATTS/METER^2 MAXIMUM DAILY TOTAL WAS 7.087 KILOWATTS/METER^2 ON 9/ 1

MAXIMUM SOLAR RADIATION WAS .927 KILOWATTS/METER^2 ON 9/ 1 AT 1400
MINIMUM DAILY TOTAL WAS 2.628 KILOWATTS/METER^2 ON 9/13

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY ---

EnergySolutions - Clive, Utah

SOLAR RADIATION in KILOWATTS/METER^2 for OCTOBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL	MAX
01								.015	.192	.404	.589	.725	.808	.822	.771	.666	.508	.317	.100	.005					5.922	.822
02								.014	.188	.396	.570	.704	.784	.801	.751	.645	.447	.253	.066	.002					5.621	.801
03								.006	.086	.245	.394	.376	.420	.509	.622	.624	.469	.308	.037						4.096	.624
04								.012	.147	.285	.287	.241	.252	.152	.103	.359	.153	.122	.022						2.135	.359
05								.011	.139	.366	.544	.677	.748	.780	.698	.616	.380	.193	.073						5.225	.780
06								.009	.152	.348	.525	.654	.752	.770	.741	.620	.462	.273	.075						5.381	.770
07								.008	.161	.364	.540	.671	.751	.768	.720	.614	.459	.269	.073						5.398	.768
08								.007	.067	.154	.484	.530	.466	.768	.715	.610	.455	.261	.066						4.583	.768
09								.006	.154	.353	.527	.659	.738	.754	.706	.598	.442	.252	.061						5.250	.754
10								.005	.148	.343	.517	.651	.729	.748	.728	.459	.437	.143	.045						4.953	.748
11								.003	.124	.334	.475	.583	.640	.625	.495	.398	.260	.218	.077						4.232	.640
12								.006	.134	.289	.413	.544	.620	.676	.662	.445	.270	.145	.043						4.247	.676
13								.003	.131	.233	.495	.619	.619	.553	.398	.361	.187	.055	.008						3.662	.619
14								.002	.048	.101	.290	.507	.698	.463	.396	.372	.190	.158	.045						3.270	.698
15								.002	.087	.314	.485	.612	.692	.695	.675	.559	.404	.220	.036						4.781	.695
16								.002	.118	.308	.481	.612	.688	.705	.657	.553	.389	.214	.036						4.763	.705
17								.002	.119	.312	.484	.615	.692	.707	.658	.552	.398	.213	.034						4.786	.707
18								.002	.046	.225	.473	.497	.646	.667	.637	.451	.265	.139	.028						4.076	.667
19									.023	.271	.273	.409	.641	.698	.535	.266	.079	.019	.002						3.216	.698
20									.029	.228	.453	.518	.616	.483	.399	.306	.239	.189	.026						3.486	.616
21									.101	.292	.456	.580	.630	.659	.495	.326	.233	.060	.007						3.839	.659
22									.051	.295	.419	.586	.659	.668	.624	.514	.367	.180	.022						4.385	.668
23									.030	.126	.203	.371	.551	.657	.621	.568	.354	.153	.012						3.646	.657
24									.072	.218	.214	.260	.352	.379	.200	.385	.339	.140	.015						2.574	.385
25									.091	.285	.456	.583	.658	.673	.624	.516	.360	.175	.017						4.438	.673
26									.043	.187	.452	.452	.458	.358	.494	.432	.247	.075	.015						3.213	.494
27									.026	.107	.163	.209	.352	.338	.419	.293	.351	.160	.020						2.438	.419
28									.023	.067	.326	.559	.645	.613	.569	.493	.347	.084	.010						3.736	.645
29									.078	.267	.437	.565	.635	.549	.509	.429	.302	.077	.012						3.860	.635
30									.008	.054	.136	.214	.296	.212	.181	.230	.389	.093	.014						1.827	.389
31									.071	.252	.416	.540	.612	.624	.576	.473	.323	.148	.010						4.045	.624
MEAN	.000	.000	.000	.000	.000	.000	.000	.004	.093	.259	.419	.526	.608	.609	.561	.475	.339	.171	.036	.000	.000	.000	.000	.000	4.099	
MAX	.000	.000	.000	.000	.000	.000	.000	.015	.192	.404	.589	.725	.808	.822	.771	.666	.508	.317	.100	.005	.000	.000	.000	.000		.822
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.008	.054	.136	.209	.252	.152	.103	.230	.079	.019	.002	.000	.000	.000	.000	.000		

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

MONTHLY MEAN OF DATA > 0 = .352 KILOWATTS/METER^2 MAXIMUM DAILY TOTAL WAS 5.922 KILOWATTS/METER^2 ON 10/ 1

MAXIMUM SOLAR RADIATION WAS .822 KILOWATTS/METER^2 ON 10/ 1 AT 1400
MINIMUM DAILY TOTAL WAS 1.827 KILOWATTS/METER^2 ON 10/30

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY ---

EnergySolutions - Clive, Utah

SOLAR RADIATION in KILOWATTS/METER^2 for NOVEMBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL	MAX
01									.067	.248	.410	.534	.607	.621	.573	.470	.319	.140	.009						3.998	.621
02									.062	.242	.408	.533	.606	.620	.468	.316	.136	.008							3.399	.620
03								.061	.255	.398	.530	.605	.616	.569	.465	.312	.132	.007							3.950	.616
04								.058	.239	.404	.531	.605	.618	.570	.461	.310	.130	.007							3.933	.618
05								.048	.230	.406	.530	.491	.588	.447	.433	.201	.081	.005							3.460	.588
06								.050	.226	.392	.519	.592	.600	.555	.453	.298	.120	.006							3.811	.600
07								.053	.220	.387	.513	.582	.599	.553	.443	.294	.114	.005							3.763	.599
08								.046	.222	.390	.505	.591	.601	.546	.446	.289	.054	.004							3.694	.601
09								.044	.215	.380	.500	.567	.472	.464	.388	.182	.057	.003							3.272	.567
10								.009	.055	.130	.303	.350	.437	.418	.305	.177	.072	.002							2.258	.437
11								.009	.067	.203	.272	.339	.309	.220	.120	.069	.021								1.629	.339
12								.011	.067	.121	.138	.153	.215	.124	.071	.048	.017								.965	.215
13								.030	.196	.358	.484	.556	.570	.522	.415	.264	.092	.003							3.490	.570
14								.030	.121	.114	.093	.248	.362	.525	.436	.198	.032	.003							2.162	.525
15								.028	.196	.360	.484	.554	.565	.517	.413	.264	.091	.003							3.475	.565
16								.027	.192	.350	.473	.544	.557	.509	.408	.260	.082	.003							3.405	.557
17								.029	.213	.349	.471	.544	.556	.510	.406	.258	.088	.002							3.426	.556
18								.022	.181	.364	.406	.507	.398	.473	.280	.143	.064	.003							2.841	.507
19								.020	.177	.338	.460	.531	.543	.495	.394	.249	.080	.002							3.289	.543
20								.022	.114	.296	.397	.412	.358	.276	.281	.160	.036								2.352	.412
21								.006	.053	.112	.235	.272	.426	.408	.318	.187	.035								2.052	.426
22								.017	.167	.319	.287	.391	.351	.117	.129	.057	.007								1.842	.391
23								.015	.170	.326	.450	.522	.536	.489	.389	.245	.077								3.219	.536
24								.014	.163	.312	.437	.507	.522	.478	.379	.237	.074								3.123	.522
25								.011	.151	.308	.431	.504	.519	.475	.376	.235	.071								3.081	.519
26								.011	.152	.309	.433	.508	.524	.481	.382	.239	.073								3.112	.524
27								.018	.167	.295	.259	.192	.194	.277	.217	.110	.026								1.755	.295
28								.007	.073	.162	.253	.439	.517	.441	.355	.218	.064								2.529	.517
29								.007	.143	.301	.424	.497	.513	.463	.367	.232	.068								3.015	.513
30								.006	.142	.297	.421	.493	.509	.466	.370	.231	.066								3.001	.509
MEAN	.000	.000	.000	.000	.000	.000	.000	.024	.156	.299	.402	.472	.493	.454	.365	.225	.079	.007	.000	.000	.000	.000	.000	.000	2.977	
MAX	.000	.000	.000	.000	.000	.000	.000	.061	.255	.406	.531	.605	.618	.621	.573	.470	.319	.140	.009	.000	.000	.000	.000	.000		.621
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.053	.112	.093	.153	.194	.117	.071	.048	.007	.000	.000	.000	.000	.000	.000	.000		

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 720 DATA RECOVERY RATE = 100 %

MONTHLY MEAN OF DATA > 0 = .283 KILOWATTS/METER^2 MAXIMUM DAILY TOTAL WAS 3.998 KILOWATTS/METER^2 ON 11/ 1

MAXIMUM SOLAR RADIATION WAS .621 KILOWATTS/METER^2 ON 11/ 1 AT 1400
MINIMUM DAILY TOTAL WAS .965 KILOWATTS/METER^2 ON 11/12

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY ---

EnergySolutions - Clive, Utah

SOLAR RADIATION in KILOWATTS/METER^2 for DECEMBER, 2009

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL	MAX
01								.006	.145	.222	.411	.486	.504	.460	.364	.226	.065								2.889	.504
02								.004	.134	.292	.421	.497	.514	.470	.376	.235	.068								3.011	.514
03								.004	.139	.305	.433	.507	.521	.479	.381	.240	.070								3.079	.521
04								.004	.134	.266	.391	.491	.505	.471	.374	.231	.066								2.933	.505
05								.003	.045	.055	.087	.299	.319	.365	.351	.205	.061								1.790	.365
06								.004	.118	.252	.423	.454	.448	.460	.345	.187	.054								2.745	.460
07									.027	.041	.084	.138	.126	.128	.075	.048	.011								.678	.138
08								.003	.062	.275	.356	.508	.513	.467	.363	.219	.065								2.831	.513
09								.003	.131	.291	.424	.458	.540	.474	.338	.239	.072								2.970	.540
10								.003	.117	.289	.417	.495	.510	.466	.374	.235	.065								2.971	.510
11								.003	.092	.226	.308	.396	.410	.351	.205	.128	.027								2.146	.410
12									.036	.073	.093	.200	.190	.348	.267	.119	.023								1.349	.348
13									.015	.075	.129	.313	.481	.361	.156	.198	.034								1.762	.481
14									.033	.140	.359	.465	.486	.451	.361	.227	.067								2.589	.486
15								.003	.114	.202	.252	.253	.260	.217	.123	.073	.030								1.527	.260
16									.025	.094	.345	.202	.229	.291	.190	.113	.031								1.520	.345
17									.061	.207	.370	.450	.473	.432	.336	.196	.052								2.577	.473
18									.023	.084	.138	.281	.319	.367	.256	.130	.038								1.636	.367
19									.048	.099	.147	.195	.246	.223	.159	.078	.020								1.215	.246
20									.030	.099	.154	.201	.177	.175	.117	.089	.027								1.069	.201
21									.045	.136	.206	.245	.237	.186	.153	.094	.033								1.335	.245
22									.018	.026	.027	.036	.055	.045	.053	.033	.009								.302	.055
23									.014	.043	.069	.235	.487	.480	.381	.268	.077	.002							2.056	.487
24									.029	.073	.282	.473	.495	.461	.373	.246	.093	.002							2.527	.495
25									.058	.249	.381	.457	.451	.457	.372	.239	.079	.002							2.745	.457
26									.025	.105	.195	.266	.298	.311	.232	.162	.045								1.639	.311
27									.030	.115	.155	.208	.280	.297	.217	.111	.053	.002							1.468	.297
28									.025	.077	.143	.205	.256	.259	.220	.130	.041								1.356	.259
29									.022	.054	.083	.106	.101	.103	.087	.068	.020								.644	.106
30									.007	.029	.054	.081	.093	.093	.099	.070	.031	.002							.559	.099
31									.034	.106	.171	.228	.288	.327	.319	.233	.055	.002							1.763	.327
MEAN	.000	.000	.000	.000	.000	.000	.000	.001	.059	.148	.242	.317	.349	.338	.259	.164	.048	.000	.000	.000	.000	.000	.000	.000	1.925	
MAX	.000	.000	.000	.000	.000	.000	.000	.006	.145	.305	.433	.508	.540	.480	.381	.268	.093	.002	.000	.000	.000	.000	.000	.000		.540
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.007	.026	.027	.036	.055	.045	.053	.033	.009	.000	.000	.000	.000	.000	.000	.000		

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

MONTHLY MEAN OF DATA > 0 = .202 KILOWATTS/METER^2 MAXIMUM DAILY TOTAL WAS 3.079 KILOWATTS/METER^2 ON 12/ 3

MAXIMUM SOLAR RADIATION WAS .540 KILOWATTS/METER^2 ON 12/ 9 AT 1300
MINIMUM DAILY TOTAL WAS .302 KILOWATTS/METER^2 ON 12/22

MEANS REQUIRE 75% VALID DATA
MISSING DATA DENOTED BY ---

Appendix G
17-Year Joint Frequency of Occurrence Distributions of Wind Speeds and Direction - Sigma Theta and Delta-T

G.1 17-Year Joint Frequency of Occurrence Distribution of Wind Speeds and Direction - Sigma Theta

G.2 17-Year Joint Frequency of Occurrence Distribution of Wind Speeds and Direction - Delta-T

Appendix G.1
17-Year Joint Frequency of Occurrence Distribution of Wind Speeds and Direction - Sigma Theta

EnergySolutions - Clive, Utah - Sigma Theta Stabilities

July, 1993 - December, 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY A

WIND SPEED (mps)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	6.8	.0	.0	.0	.0	.0	6.8	1.8
NNE	5.6	.0	.0	.0	.0	.0	5.6	1.8
NE	4.5	.0	.0	.0	.0	.0	4.5	1.7
ENE	3.0	.0	.0	.0	.0	.0	3.0	1.6
E	2.2	.0	.0	.0	.0	.0	2.2	1.5
ESE	1.7	.0	.0	.0	.0	.0	1.7	1.4
SE	1.9	.0	.0	.0	.0	.0	1.9	1.4
SSE	2.9	.0	.0	.0	.0	.0	2.9	1.5
S	5.5	.0	.0	.0	.0	.0	5.5	1.7
SSW	9.2	.0	.0	.0	.0	.0	9.2	1.8
SW	9.6	.0	.0	.0	.0	.0	9.6	1.8
WSW	9.5	.0	.0	.0	.0	.0	9.5	1.8
W	9.5	.0	.0	.0	.0	.0	9.5	1.9
WNW	10.3	.0	.0	.0	.0	.0	10.3	2.0
NW	9.1	.0	.0	.0	.0	.0	9.1	2.0
NNW	7.4	.0	.0	.0	.0	.0	7.4	1.9
CALM							1.3	
TOTAL	98.7	.0	.0	.0	.0	.0	100.0	1.8

TOTAL NUMBER OF CASES OF THIS STABILITY 18220
TOTAL NUMBER OF OBSERVATIONS WITH STABILITY 142620
PERCENTAGE OF TOTAL OF THIS STABILITY 12.8%

EnergySolutions - Clive, Utah - Sigma Theta Stabilities

July, 1993 - December, 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY B

WIND SPEED (mps)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	3.4	3.5	.0	.0	.0	.0	6.9	2.7
NNE	3.7	3.0	.0	.0	.0	.0	6.8	2.7
NE	3.5	2.5	.0	.0	.0	.0	6.0	2.6
ENE	3.0	1.4	.0	.0	.0	.0	4.5	2.5
E	2.2	.9	.0	.0	.0	.0	3.0	2.4
ESE	1.2	.4	.0	.0	.0	.0	1.6	2.2
SE	1.1	.3	.0	.0	.0	.0	1.5	2.0
SSE	2.0	.5	.0	.0	.0	.0	2.5	1.9
S	4.5	1.8	.0	.0	.0	.0	6.4	2.3
SSW	6.2	5.3	.0	.0	.0	.0	11.5	2.7
SW	5.0	4.7	.0	.0	.0	.0	9.8	2.7
WSW	2.8	3.3	.0	.0	.0	.0	6.1	2.8
W	2.7	4.0	.0	.0	.0	.0	6.7	2.9
WNW	2.7	5.6	.0	.0	.0	.0	8.4	3.0
NW	3.8	6.6	.0	.0	.0	.0	10.5	3.0
NNW	2.8	4.0	.1	.0	.0	.0	6.9	2.9
CALM							.8	
TOTAL	50.9	47.9	.4	.0	.0	.0	100.0	2.7

TOTAL NUMBER OF CASES OF THIS STABILITY 14442
TOTAL NUMBER OF OBSERVATIONS WITH STABILITY 142620
PERCENTAGE OF TOTAL OF THIS STABILITY 10.1%

EnergySolutions - Clive, Utah - Sigma Theta Stabilities

July, 1993 - December, 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY C

	WIND SPEED (mps)							
WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	1.9	5.5	.1	.0	.0	.0	7.5	4.0
NNE	2.6	4.1	.1	.0	.0	.0	6.7	3.5
NE	3.6	4.2	.0	.0	.0	.0	7.8	3.3
ENE	4.0	2.7	.0	.0	.0	.0	6.7	2.9
E	2.5	1.3	.0	.0	.0	.0	3.8	2.6
ESE	1.4	.5	.0	.0	.0	.0	1.9	2.4
SE	1.3	.4	.0	.0	.0	.0	1.7	2.3
SSE	1.5	.6	.0	.0	.0	.0	2.1	2.4
S	4.0	3.9	.2	.0	.0	.0	8.0	3.2
SSW	5.7	11.5	.3	.0	.0	.0	17.5	3.8
SW	3.0	6.3	.1	.0	.0	.0	9.4	3.8
WSW	1.4	2.7	.0	.0	.0	.0	4.1	3.7
W	1.0	2.1	.0	.0	.0	.0	3.1	3.6
WNW	1.2	3.0	.1	.0	.0	.0	4.3	3.8
NW	1.8	5.7	.1	.0	.0	.0	7.6	4.0
NNW	1.5	5.2	.1	.0	.0	.0	6.8	4.1
CALM							.8	
TOTAL	38.2	59.5	1.3	.1	.0	.0	100.0	3.5

TOTAL NUMBER OF CASES OF THIS STABILITY 18156
TOTAL NUMBER OF OBSERVATIONS WITH STABILITY 142620
PERCENTAGE OF TOTAL OF THIS STABILITY 12.7%

EnergySolutions - Clive, Utah - Sigma Theta Stabilities

July, 1993 - December, 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY D

	WIND SPEED (mps)							
WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	.8	2.2	1.7	.2	.0	.0	4.8	5.3
NNE	1.7	2.9	1.3	.1	.0	.0	6.0	4.4
NE	4.6	5.4	1.0	.0	.0	.0	11.0	3.6
ENE	7.7	8.1	.3	.0	.0	.0	16.1	3.1
E	3.2	2.2	.1	.0	.0	.0	5.5	2.9
ESE	.9	.4	.1	.0	.0	.0	1.4	2.9
SE	.6	.3	.1	.0	.0	.0	1.0	2.9
SSE	.9	.9	.4	.0	.0	.0	2.2	4.0
S	3.1	8.0	5.6	1.3	.0	.0	17.9	5.6
SSW	2.9	7.5	6.0	.8	.0	.0	17.2	5.5
SW	.8	1.3	1.0	.1	.0	.0	3.3	5.0
WSW	.3	.5	.5	.1	.0	.0	1.4	5.1
W	.3	.4	.5	.1	.0	.0	1.3	5.4
WNW	.4	.4	.5	.1	.0	.0	1.4	4.9
NW	.6	1.2	1.6	.3	.0	.0	3.8	6.1
NNW	.6	2.0	2.3	.3	.0	.0	5.2	6.1
CALM							.6	
TOTAL	29.4	43.8	22.9	3.3	.0	.0	100.0	4.6

TOTAL NUMBER OF CASES OF THIS STABILITY 49864
TOTAL NUMBER OF OBSERVATIONS WITH STABILITY 142620
PERCENTAGE OF TOTAL OF THIS STABILITY 35.0%

EnergySolutions - Clive, Utah - Sigma Theta Stabilities

July, 1993 - December, 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY E

	WIND SPEED (mps)							
WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	2.2	.6	.0	.0	.0	.0	2.7	2.2
NNE	4.7	.8	.0	.0	.0	.0	5.6	2.1
NE	10.7	2.0	.0	.0	.0	.0	12.7	2.2
ENE	15.0	11.2	.0	.0	.0	.0	26.2	2.8
E	7.4	3.0	.0	.0	.0	.0	10.5	2.4
ESE	3.0	.4	.0	.0	.0	.0	3.4	1.9
SE	2.4	.1	.0	.0	.0	.0	2.5	1.7
SSE	2.9	.6	.0	.0	.0	.0	3.5	2.0
S	6.3	8.0	.0	.0	.0	.0	14.4	3.2
SSW	5.0	3.0	.0	.0	.0	.0	8.0	2.7
SW	1.7	.5	.0	.0	.0	.0	2.2	2.3
WSW	1.0	.2	.0	.0	.0	.0	1.2	1.9
W	.8	.2	.0	.0	.0	.0	.9	2.0
WNW	.7	.2	.0	.0	.0	.0	.8	2.2
NW	1.3	.5	.0	.0	.0	.0	1.8	2.4
NNW	1.4	.7	.0	.0	.0	.0	2.2	2.6
CALM							1.4	
TOTAL	66.5	31.9	.1	.0	.0	.0	100.0	2.5

TOTAL NUMBER OF CASES OF THIS STABILITY 20341
TOTAL NUMBER OF OBSERVATIONS WITH STABILITY 142620
PERCENTAGE OF TOTAL OF THIS STABILITY 14.3%

EnergySolutions - Clive, Utah - Sigma Theta Stabilities

July, 1993 - December, 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY F

WIND SPEED (mps)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	4.8	.0	.0	.0	.0	.0	4.8	1.5
NNE	7.5	.0	.0	.0	.0	.0	7.5	1.5
NE	12.0	.0	.0	.0	.0	.0	12.0	1.5
ENE	11.4	.0	.0	.0	.0	.0	11.4	1.5
E	8.6	.0	.0	.0	.0	.0	8.6	1.4
ESE	6.6	.0	.0	.0	.0	.0	6.6	1.3
SE	6.2	.0	.0	.0	.0	.0	6.2	1.3
SSE	7.0	.0	.0	.0	.0	.0	7.0	1.4
S	8.9	.0	.0	.0	.0	.0	8.9	1.5
SSW	6.6	.0	.0	.0	.0	.0	6.6	1.5
SW	4.1	.0	.0	.0	.0	.0	4.1	1.4
WSW	2.6	.0	.0	.0	.0	.0	2.6	1.4
W	2.1	.0	.0	.0	.0	.0	2.1	1.4
WNW	1.9	.0	.0	.0	.0	.0	1.9	1.4
NW	2.5	.0	.0	.0	.0	.0	2.5	1.5
NNW	3.5	.0	.0	.0	.0	.0	3.5	1.5
CALM							3.6	
TOTAL	96.4	.0	.0	.0	.0	.0	100.0	1.5

TOTAL NUMBER OF CASES OF THIS STABILITY 21597
TOTAL NUMBER OF OBSERVATIONS WITH STABILITY 142620
PERCENTAGE OF TOTAL OF THIS STABILITY 15.1%

EnergySolutions - Clive, Utah - Sigma Theta Stabilities

January 1993 - December, 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

	WIND SPEED (mps)							
WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	2.8	1.9	.6	.1	.0	.0	5.3	3.4
NNE	3.8	2.0	.5	.0	.0	.0	6.3	3.0
NE	6.3	3.0	.4	.0	.0	.0	9.7	2.8
ENE	7.7	4.9	.1	.0	.0	.0	12.8	2.8
E	4.3	1.5	.0	.0	.0	.0	5.8	2.3
ESE	2.2	.3	.0	.0	.0	.0	2.6	1.9
SE	2.0	.2	.0	.0	.0	.0	2.3	1.8
SSE	2.6	.5	.2	.0	.0	.0	3.3	2.3
S	5.0	4.6	2.0	.5	.0	.0	12.0	4.1
SSW	5.2	5.0	2.2	.3	.0	.0	12.6	4.0
SW	3.3	1.8	.4	.0	.0	.0	5.5	3.1
WSW	2.3	.9	.2	.0	.0	.0	3.4	2.8
W	2.1	.9	.2	.0	.0	.0	3.2	2.8
WNW	2.3	1.2	.2	.0	.0	.0	3.6	2.9
NW	2.5	1.9	.6	.1	.0	.0	5.2	3.6
NNW	2.3	1.9	.9	.1	.0	.0	5.2	3.9
CALM							1.4	
TOTAL	56.6	32.5	8.3	1.2	.0	.0	100.0	3.2

TOTAL NUMBER OF OBSERVATIONS 146304
POSSIBLE NUMBER OF OBSERVATIONS 149016
DATA RECOVERY 98.2%

Appendix G.2
17-Year Joint Frequency of Occurrence Distribution of Wind Speeds and Direction - Delta-T

EnergySolutions - Clive, Utah - Delta T Stabilities

January 1993 - December, 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY A

WIND SPEED (mps)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	4.0	.0	.0	.0	.0	.0	4.0	1.9
NNE	3.4	.0	.0	.0	.0	.0	3.4	1.9
NE	2.4	.0	.0	.0	.0	.0	2.4	1.8
ENE	1.6	.0	.0	.0	.0	.0	1.6	1.8
E	1.5	.0	.0	.0	.0	.0	1.5	1.6
ESE	1.0	.0	.0	.0	.0	.0	1.0	1.5
SE	1.6	.0	.0	.0	.0	.0	1.6	1.5
SSE	3.1	.0	.0	.0	.0	.0	3.1	1.5
S	6.4	.0	.0	.0	.0	.0	6.4	1.7
SSW	11.2	.0	.0	.0	.0	.0	11.2	1.8
SW	11.8	.0	.0	.0	.0	.0	11.8	1.9
WSW	13.7	.0	.0	.0	.0	.0	13.7	1.9
W	12.8	.0	.0	.0	.0	.0	12.8	2.0
WNW	11.5	.0	.0	.0	.0	.0	11.5	2.1
NW	7.8	.0	.0	.0	.0	.0	7.8	2.0
NNW	5.8	.0	.0	.0	.0	.0	5.8	2.0
CALM							.4	
TOTAL	99.6	.0	.0	.0	.0	.0	100.0	1.9

TOTAL NUMBER OF CASES OF THIS STABILITY 3380
TOTAL NUMBER OF OBSERVATIONS WITH STABILITY 146119
PERCENTAGE OF TOTAL OF THIS STABILITY 2.3%

EnergySolutions - Clive, Utah - Delta T Stabilities

January 1993 - December, 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY B

WIND SPEED (mps)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	4.2	1.5	.0	.0	.0	.0	5.7	2.2
NNE	3.6	1.4	.0	.0	.0	.0	5.0	2.3
NE	2.8	.8	.0	.0	.0	.0	3.6	2.1
ENE	1.8	.2	.0	.0	.0	.0	2.1	1.6
E	1.3	.1	.0	.0	.0	.0	1.3	1.5
ESE	1.0	.0	.0	.0	.0	.0	1.0	1.4
SE	1.2	.1	.0	.0	.0	.0	1.3	1.4
SSE	2.0	.1	.0	.0	.0	.0	2.1	1.4
S	5.1	1.0	.0	.0	.0	.0	6.1	1.9
SSW	8.3	5.6	.0	.0	.0	.0	14.0	2.7
SW	7.6	4.5	.0	.0	.0	.0	12.0	2.5
WSW	6.3	2.3	.0	.0	.0	.0	8.6	2.3
W	5.9	2.8	.0	.0	.0	.0	8.7	2.4
WNW	6.3	3.9	.0	.0	.0	.0	10.2	2.6
NW	5.6	4.9	.0	.0	.0	.0	10.5	2.8
NNW	4.2	2.4	.0	.0	.0	.0	6.6	2.5
CALM							1.2	
TOTAL	67.1	31.6	.1	.0	.0	.0	100.0	2.4

TOTAL NUMBER OF CASES OF THIS STABILITY 18870
TOTAL NUMBER OF OBSERVATIONS WITH STABILITY 146119
PERCENTAGE OF TOTAL OF THIS STABILITY 12.9%

EnergySolutions - Clive, Utah - Delta T Stabilities

January 1993 - December, 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY C

WIND SPEED (mps)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	3.1	3.7	.1	.0	.0	.0	6.9	3.3
NNE	2.9	3.2	.1	.0	.0	.0	6.2	3.2
NE	2.8	3.6	.1	.0	.0	.0	6.4	3.3
ENE	2.4	2.1	.0	.0	.0	.0	4.5	3.0
E	1.3	.7	.0	.0	.0	.0	2.0	2.7
ESE	.8	.3	.0	.0	.0	.0	1.0	2.4
SE	.8	.2	.0	.0	.0	.0	1.0	2.2
SSE	1.5	.5	.0	.0	.0	.0	2.0	2.4
S	4.3	4.6	.4	.1	.0	.0	9.3	3.4
SSW	7.1	11.5	1.1	.1	.0	.0	19.8	3.8
SW	4.6	4.4	.2	.0	.0	.0	9.3	3.4
WSW	2.6	1.9	.1	.0	.0	.0	4.6	3.1
W	2.6	1.8	.1	.0	.0	.0	4.4	3.0
WNW	3.3	2.6	.0	.0	.0	.0	6.0	3.1
NW	4.0	4.6	.2	.0	.0	.0	8.8	3.4
NNW	3.0	3.9	.2	.0	.0	.0	7.0	3.5
CALM							.7	
TOTAL	46.9	49.6	2.6	.2	.0	.0	100.0	3.3

TOTAL NUMBER OF CASES OF THIS STABILITY 20392
TOTAL NUMBER OF OBSERVATIONS WITH STABILITY 146119
PERCENTAGE OF TOTAL OF THIS STABILITY 14.0%

EnergySolutions - Clive, Utah - Delta T Stabilities

January 1993 - December, 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY D

WIND SPEED (mps)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	1.5	2.6	1.3	.1	.0	.0	5.5	4.7
NNE	2.1	3.0	1.0	.1	.0	.0	6.2	4.1
NE	4.2	5.3	.8	.0	.0	.0	10.3	3.6
ENE	6.7	10.2	.3	.0	.0	.0	17.2	3.3
E	3.0	3.0	.1	.0	.0	.0	6.1	3.1
ESE	1.0	.6	.1	.0	.0	.0	1.8	3.0
SE	.8	.4	.1	.0	.0	.0	1.3	2.9
SSE	1.1	1.0	.3	.0	.0	.0	2.5	3.7
S	3.0	8.4	4.3	1.0	.0	.0	16.7	5.3
SSW	2.6	5.9	4.5	.6	.0	.0	13.6	5.3
SW	1.1	1.3	.8	.1	.0	.0	3.3	4.5
WSW	.7	.7	.4	.1	.0	.0	1.8	4.4
W	.7	.5	.4	.1	.0	.0	1.6	4.4
WNW	.7	.6	.4	.0	.0	.0	1.8	4.2
NW	1.2	1.4	1.3	.3	.0	.0	4.1	5.2
NNW	1.2	2.3	1.8	.3	.0	.0	5.5	5.3
CALM							.6	
TOTAL	31.7	47.3	17.7	2.6	.0	.0	100.0	4.4

TOTAL NUMBER OF CASES OF THIS STABILITY 65549
TOTAL NUMBER OF OBSERVATIONS WITH STABILITY 146119
PERCENTAGE OF TOTAL OF THIS STABILITY 44.9%

EnergySolutions - Clive, Utah - Delta T Stabilities

January 1993 - December, 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY E

WIND SPEED (mps)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	3.9	.1	.0	.0	.0	.0	4.0	1.9
NNE	7.3	.1	.0	.0	.0	.0	7.5	2.0
NE	14.9	.1	.0	.0	.0	.0	15.0	2.0
ENE	19.2	.4	.0	.0	.0	.0	19.6	2.1
E	9.6	.2	.0	.0	.0	.0	9.8	2.0
ESE	4.5	.0	.0	.0	.0	.0	4.5	1.8
SE	3.8	.0	.0	.0	.0	.0	3.8	1.7
SSE	4.4	.1	.0	.0	.0	.0	4.5	1.9
S	8.9	.6	.0	.0	.0	.0	9.5	2.1
SSW	7.0	.4	.0	.0	.0	.0	7.3	2.0
SW	2.9	.1	.0	.0	.0	.0	3.0	1.9
WSW	1.8	.0	.0	.0	.0	.0	1.9	1.7
W	1.4	.0	.0	.0	.0	.0	1.4	1.7
WNW	1.5	.0	.0	.0	.0	.0	1.5	1.7
NW	2.1	.1	.0	.0	.0	.0	2.2	1.9
NNW	2.8	.1	.0	.0	.0	.0	3.0	1.9
CALM							1.4	
TOTAL	96.0	2.5	.1	.0	.0	.0	100.0	2.0

TOTAL NUMBER OF CASES OF THIS STABILITY 15206
TOTAL NUMBER OF OBSERVATIONS WITH STABILITY 146119
PERCENTAGE OF TOTAL OF THIS STABILITY 10.4%

EnergySolutions - Clive, Utah - Delta T Stabilities

January 1993 - December, 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR STABILITY F

WIND SPEED (mps)

WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	3.9	.0	.0	.0	.0	.0	3.9	1.3
NNE	7.4	.0	.0	.0	.0	.0	7.4	1.3
NE	13.2	.0	.0	.0	.0	.0	13.2	1.4
ENE	13.3	.0	.0	.0	.0	.0	13.3	1.4
E	9.7	.0	.0	.0	.0	.0	9.7	1.3
ESE	6.6	.0	.0	.0	.0	.0	6.6	1.2
SE	6.1	.0	.0	.0	.0	.0	6.1	1.2
SSE	6.7	.0	.0	.0	.0	.0	6.7	1.2
S	8.4	.0	.0	.0	.0	.0	8.4	1.3
SSW	6.3	.0	.0	.0	.0	.0	6.3	1.3
SW	3.6	.0	.0	.0	.0	.0	3.6	1.2
WSW	2.1	.0	.0	.0	.0	.0	2.1	1.2
W	1.7	.0	.0	.0	.0	.0	1.7	1.2
WNW	1.5	.0	.0	.0	.0	.0	1.5	1.2
NW	2.0	.0	.0	.0	.0	.0	2.0	1.2
NNW	2.7	.0	.0	.0	.0	.0	2.7	1.3
CALM							4.5	
TOTAL	95.5	.0	.0	.0	.0	.0	100.0	1.3

TOTAL NUMBER OF CASES OF THIS STABILITY 22722
TOTAL NUMBER OF OBSERVATIONS WITH STABILITY 146119
PERCENTAGE OF TOTAL OF THIS STABILITY 15.6%

EnergySolutions - Clive, Utah - Delta T Stabilities

January 1993 - December, 2009

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

	WIND SPEED (mps)							
WIND DIRECTION	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	OVER 21	TOTAL	AVG SPEED
N	2.8	1.9	.6	.1	.0	.0	5.3	3.4
NNE	3.8	2.0	.5	.0	.0	.0	6.3	3.0
NE	6.3	3.0	.4	.0	.0	.0	9.7	2.8
ENE	7.7	4.9	.1	.0	.0	.0	12.8	2.8
E	4.3	1.5	.0	.0	.0	.0	5.8	2.3
ESE	2.2	.3	.0	.0	.0	.0	2.6	1.9
SE	2.0	.2	.0	.0	.0	.0	2.3	1.8
SSE	2.6	.5	.2	.0	.0	.0	3.3	2.3
S	5.0	4.6	2.0	.5	.0	.0	12.0	4.1
SSW	5.2	5.0	2.2	.3	.0	.0	12.6	4.0
SW	3.3	1.8	.4	.0	.0	.0	5.5	3.1
WSW	2.3	.9	.2	.0	.0	.0	3.4	2.8
W	2.1	.9	.2	.0	.0	.0	3.2	2.8
WNW	2.3	1.2	.2	.0	.0	.0	3.6	2.9
NW	2.5	1.9	.6	.1	.0	.0	5.2	3.6
NNW	2.3	1.9	.9	.1	.0	.0	5.2	3.9
CALM							1.4	
TOTAL	56.6	32.5	8.3	1.2	.0	.0	100.0	3.2

TOTAL NUMBER OF OBSERVATIONS 146304
POSSIBLE NUMBER OF OBSERVATIONS 149016
DATA RECOVERY 98.2%