Prepared for:
Basin Electric, Inc.
South Dakota

Basin NextGen Project Ambient Air Quality and Meteorological Monitoring Program
Data Report July through September 2007

ENSR Corporation
November 2007
Document No.: 02450-017-701

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December 14, 2007

Mr. Brad Schultz
Environmental Senior Scientist
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South Dakota Department of Environment and Natural Resources
Joe Foss Building
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Pierre, SD 57501-3182

RE: First and Second Quarterly Reports
Basin NextGen Project Ambient Air Quality and Meteorological Monitoring Program

Dear Mr. Schultz,

On behalf of our client, Basin Electric Power Cooperative, Inc., ENSR is submitting the enclosed quarterly reports for the NextGen Ambient Air Quality and Meteorological Monitoring Program for the monitoring site located near Gettysburg, South Dakota. The quarterly reports for April through June and July through September 2007 are enclosed for your review. These reports are provided for your review and ongoing understanding of the monitoring program as it progresses.

Note that the monitoring did not begin until April 9 for the meteorological tower, and that the $PM_{2.5}$ monitoring effort was established in July 2007. Please review and provide any comments. You may call Bruce Macdonald or Vince Scheetz at 970-493-8878. We look forward to hearing from you regarding this submittal.

Regards,

Bruce C. Macdonald, Ph.D.
Senior Program Manager

Vincent R. Scheetz, CCM
Air Resources Department Manager

Ref: 02450-017-513
Enclosures

cc: Chris Miller, P.E., Basin Electric Power Cooperative

Prepared for:
Basin Electric, Inc.
South Dakota

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Basin NextGen Project Ambient Air Quality and Meteorological Program Data Report July through September 2007

Prepared By

Reviewed By

ENSR Corporation
November 2007
Document No.: 02450-017-701

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EXECUTIVE SUMMARY

This report provides a summary of the air quality and meteorological monitoring data collected at the Basin NextGen monitoring site near Gettysburg, South Dakota, during the period of July through September 2007. The ambient air quality data measured during this 3 month period were well below the National Ambient Air Quality Standards (NAAQS). Data recovery for each individual air quality parameter was above the Prevention of Significant Deterioration requirement of 80 percent for the quarter. The quarterly air quality data for the monitoring site are summarized below.

	Measured Concentration		Standards NAAQS	
Parameter	**µg/m³**	**ppb**	**µg/m³**	**ppb**
NO_2				
1-hour Maximum	17	9.0	NS[1]	NS
Quarterly Mean	3	1.7	100[2]	50[2]
O_3				
1-hour Maximum	130	66.4	NS	NS
8-hour Maximum	107	54.3	157	80
SO_2				
1-hour Maximum	6	2.4	NS	NS
3-hour Maximum	4	1.7	1,300	500
24-hour Maximum	1	<1	365	140
Quarterly Mean	<1	<1	80[2]	30[2]
PM_{10}				
24-hour Maximum	31.4	NA[3]	150	NA
Quarterly Mean	18.9	NA	50	NA

[1]NS = No Standard.
[2]Quarterly mean concentrations are compared to annual NAAQS.
[3]NA = Not Applicable.
PM_{10} values are based upon primary sampler.

µg/m³ = micrograms per cubic meter.
ppb = parts per billion.
NO_2 = nitrogen dioxide.
O_3 = ozone.
SO_2 = sulfur dioxide.
CO = carbon monoxide.
PM_{10} = particulate matter with an aerodynamic diameter of 10 microns or less.
ppm = parts per million.

NAAQS Standards (µg/m³)									
	PM_{10}	$PM_{2.5}$	NO_2	SO_2			CO		O_3
Annual Average		15	100			80			
1-hour							40,000		
3-hour				1,300					
8-hour								10,000	157
24-hour	150	35			365				
ppb to µg/m³			1.88	2.62	2.62	2.62			1.96
ppm to µg/m³							1,150	1,150	

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1.0 Introduction

Basin Electric, Inc. (Basin) is the owner and operator of the proposed Basin NextGen Project located in central South Dakota. In support of the planned construction and installation of power plant sources, including coal-fired boilers, Basin has retained ENSR Corporation (ENSR) to install and operate an ambient air quality and meteorological monitoring station near the proposed project location. The primary objectives of this monitoring study are:

- To fulfill pre-construction air monitoring potentially required under Prevention of Significant Deterioration (PSD) permitting rules at the site of the proposed source;
- To obtain baseline ambient air quality concentrations; and
- To provide a comprehensive on-site database for use in dispersion modeling using AERMOD.

To meet these objectives, a meteorological station, equipped with a 100-meter (m) tower was established at the Basin site. The station monitors the following parameters:

- Nitrogen oxides (NO_2, NO, NO_X);
- Sulfur dioxide (SO_2);
- Ozone (O_3);
- Inhalable particulate matter, with an aerodynamic diameter of 10 micrograms or less (PM_{10});
- Inhalable particulate matter, with an aerodynamic diameter of 2.5 micrograms or less ($PM_{2.5}$);
- Barometric pressure;
- 100-m wind speed, wind direction, vertical wind speed, wind direction standard deviation (Sigma-Theta), vertical wind speed standard deviation (Sigma-W);
- 50-m wind speed, wind direction, vertical wind speed, wind direction standard deviation (Sigma-Theta), vertical wind speed standard deviation (Sigma-W);
- 10-m wind speed, wind direction, vertical wind speed, wind direction standard deviation (Sigma-Theta), vertical wind speed standard deviation (Sigma-W);
- 2-m temperature, 10-m temperature, 50-m temperature, 100-m temperature; and
- Precipitation, relative humidity, and solar radiation.

Table 1-1 summarizes the monitoring equipment and measurement methods currently in use at the Basin site. The monitoring system, source environment, sampling frequency, quality assurance program, and data management aspects of the monitoring program are described in the monitoring plan.

This report provides summaries of the data collected for July through September 2007. A chronology of project progress and significant events during the quarter is presented in Chapter 2.0. Chapter 3.0 contains a summary of network performance and data retrieval statistics. Chapter 4.0 contains a summary of the air quality data recorded during the period. The meteorological data are presented and discussed in Chapter 5.0. Appendix A contains the formulae used to determine precision, accuracy, and data retrieval statistics. Appendix B contains the unit vector averaging method for wind directions. Appendix C contains information from the quarterly PM_{10} sampler calibrations performed on July 12, 2007. Appendix D presents the complete and validated meteorological and air quality monthly data summarized by hour July through September 2007. Appendix E contains a copy of the ARS Audit Report.

Table 1-1 Ambient Monitoring Program Equipment and Measurement Methods

Parameter	Manufacturer/Model	Sample Frequency	Range	Method
NO_X, NO_2, NO (~4m)	Thermo Electron Corporation (Thermo) Model 42C	Continuous	0.001 to 0.500 ppm	Chemiluminescent single chamber
O_3 (~4m)	Thermo Model 49C	Continuous	0.002 to 0.500 ppm	Ultraviolet absorption
SO_2 (~4m)	Thermo Model 43C	Continuous	0.001 to 0.500 ppm	Pulsed fluorescent
PM_{10} (~4m)	Tisch TE-6070V volumetric Flow Controlled PM_{10} monitor	Every 6 days	2 to 750 µg/m^3	10 µm size select inlet, high volume filter sample, gravimetric analysis
$PM_{2.5}$	Met One Model 1020 BAM	Continuous		Very sharp cutoff cyclone (FEM)
Multi-gas calibrator	Thermo Model 146C	NA	0 to 100 cc 0 to 10 lpm	Mass flow meters
Ozone Transfer Standard	Thermo Model 49C TS	NA	0.001 to 0.500 ppm	Pulsed fluorescent
Horizontal wind speed 10m, 50m, -100m	Climatronics Model F460	Continuous	0.1 to 100 mph	Cup Anemometer/Photo-chopper
Horizontal wind direction 10m, 50m, -100m	Climatronics Model F460	Continuous	0° to 360°	Vane/Potentiometer
Sigma-theta 10m, 50m, -100m	Campbell Scientific CR23X Datalogger	Continuous	0° to 100°	Digital computation
Vertical Wind Speed 10m, 50m, -100m	Climatronics Model 102236-G0	Continuous	-12.5 to +12.5 mph	Propeller Anemometer
Sigma w 10m, 50m, -100m	Campbell Scientific CR23X Datalogger	Continuous	0° to 100°	Digital computation
Temperature 2m, 10m, 50m, -100m	Climatronics Model 100093	Continuous	-30°C to 50°C	Aspirated triple-element thermistor
Temperature Difference (10m-2m, 50m-2m, 100m-2m)	Climatronics Model 100093	Continuous	-5° to 10°	Aspirated triple-element thermistor
Solar Radiation (~4m)	Kipp & Zonen Model CMP3	Continuous	0 to 2 langley/min	Thermopile
Precipitation (~4m)	Climatronics Model 100097-1-G0	Event, 1-hour Accumulation	0.01 in to Unlimited	Tipping Bucket
Relative Humidity (2m)	Campbell Scientific, Model HMP 45C-L	Continuous	0 to 100 percent	Hygrometer
Barometric Pressure (~4m)	Climatronics Model 102663-G0-10	Continuous	600 – 1,100 hPascals	Solid State Piezoresistors
Data logger	Campbell Scientific CR23X	1/second	0-1 v	Digital computer

ppm = parts per million
µg/m^3 = micrograms per cubic meter
µm = micrometers
cc = cubic centimeters
lpm = liters per minute
mph = miles per hour
°C = degrees Celsius
v = volts

2.0 Project Progress and Significant Events

The Basin NextGen Project site was installed the last week in March 2007 and became fully operational around April 9, 2007. Analysis of gas and particulate parameters started April 5, 2007, but electrical problems to the meteorological tower prevented full data collection until April 9th.

Program activities during this quarter were primarily associated with routine operation, maintenance, and calibration checks. The on-site technician visited the station weekly to change PM_{10} filters and to check on air quality instruments. Data management included collection, processing, and validation of data.

The quarterly audit for this site was done by Air Resource Specialists (ARS) on July 12, 2007. No problems were seen and all parameters were within U.S. Environmental Protection Agency (USEPA) specifications.

Representatives from the state of South Dakota visited the site on July 12 and were present for a portion of the audit.

The Met One BAM Model 1020 with sharp cutoff cyclone (SCC) was installed on July 13, 2007. The system ran well but lost a short segment of data in September when replacement instrument tapes failed to arrive as anticipated. An upgraded model 1020 with very sharp cutoff cyclone (VSCC) was installed on September 28, 2007. The original BAM unit was sent to the factory for additional upgrades to meet Federal Equivalency Method (FEM) requirements and the addition of the VSCC.

3.0 Network Performance Summary

The data retrieval statistics for each air quality and meteorological parameter are presented in this chapter along with a brief summary of missing data. Program goals for data capture, as specified by PSD requirements, call for valid data retrieval of 80 percent for air quality parameters on a quarterly basis and 90 percent for meteorological parameters on an annual or 12-month basis.

3.1 Network Data Capture

Continuous air quality and meteorological data capture percentages have been calculated on the basis of the total number of hours of ambient data collected versus the total number of hours in the month. Hours lost to equipment failure, power outage, routine maintenance, calibrations and audits, as well as hours that do not satisfy program goals for accuracy and resolution have been deleted from the dataset in the data validation process. Particulate data percentages have been calculated based on the number of samples collected versus the total number of sampling days.

The data capture rate for each individual air quality parameter was above the PSD requirement of 80 percent for the quarter. The data capture rate for each meteorological parameter was above the PSD requirement for 90 percent annual data recovery. **Table 3-1** provides a summary of network performance by month for the quarter. Additional station specific information is provided below.

3.2 Station Performance

Summaries of the data capture performance for each parameter are presented in **Table 3-1**.

Table 3-1 Data Recovery by Parameter

	Basin Data Recovery by Parameter									Data Recovery for the Quarter		
Channel	Possible Hours	Valid Hours	Percent Recovery	Possible Hours	Valid Hours	Percent Recovery	Possible Hours	Valid Hours	Percent Recovery	Possible Hours	Valid Hours	Percent Recovery
	July	July	July	August	August	August	September	September	September	Qtr	Qtr	Qtr
10WS	744	720	96.8%	744	744	100.0%	720	720	100.0%	2208	2184	98.9%
10WD	744	720	96.8%	744	744	100.0%	720	720	100.0%	2208	2184	98.9%
10ST	744	720	96.8%	744	744	100.0%	720	720	100.0%	2208	2184	98.9%
50WS	744	720	96.8%	744	744	100.0%	720	720	100.0%	2208	2184	98.9%
50WD	744	720	96.8%	744	744	100.0%	720	720	100.0%	2208	2184	98.9%
50ST	744	720	96.8%	744	744	100.0%	720	720	100.0%	2208	2184	98.9%
100WS	744	720	96.8%	744	744	100.0%	720	720	100.0%	2208	2184	98.9%
100WD	744	720	96.8%	744	744	100.0%	720	720	100.0%	2208	2184	98.9%
100ST	744	720	96.8%	744	744	100.0%	720	720	100.0%	2208	2184	98.9%
10 VWS	744	710	95.4%	744	744	100.0%	720	720	100.0%	2208	2174	98.5%
50 VWS	744	714	96.0%	744	744	100.0%	720	720	100.0%	2208	2178	98.6%
100VWS	744	715	96.1%	744	744	100.0%	720	720	100.0%	2208	2179	98.7%
10SW	744	710	95.4%	744	744	100.0%	720	720	100.0%	2208	2174	98.5%
50SW	744	714	96.0%	744	744	100.0%	720	720	100.0%	2208	2178	98.6%
100SW	744	715	96.1%	744	744	100.0%	720	720	100.0%	2208	2179	98.7%
2mt	744	732	98.4%	744	744	100.0%	720	719	99.9%	2208	2195	99.4%
10mt	744	709	95.3%	744	744	100.0%	720	720	100.0%	2208	2173	98.4%
50mt	744	714	96.0%	744	744	100.0%	720	719	99.9%	2208	2177	98.6%
100mt	744	708	95.2%	744	744	100.0%	720	720	100.0%	2208	2172	98.4%
10-2dt	744	707	95.0%	744	744	100.0%	720	719	99.9%	2208	2170	98.3%
50-10dt	744	707	95.0%	744	744	100.0%	720	719	99.9%	2208	2170	98.3%
100-50dt	744	706	94.9%	744	744	100.0%	720	719	99.9%	2208	2169	98.2%
RH%	744	731	98.3%	744	744	100.0%	720	719	99.9%	2208	2194	99.4%
Sol w/m2	744	734	98.7%	744	744	100.0%	720	720	100.0%	2208	2198	99.5%
Precip.	744	734	98.7%	744	744	100.0%	720	720	100.0%	2208	2198	99.5%
Pressure	744	737	99.1%	744	744	100.0%	720	720	100.0%	2208	2201	99.7%
SO2	744	624	83.9%	744	696	93.5%	720	661	91.8%	2208	1981	89.7%
NO	744	624	83.9%	744	696	93.5%	720	661	91.8%	2208	1981	89.7%
NOx	744	624	83.9%	744	696	93.5%	720	661	91.8%	2208	1981	89.7%
NO2	744	624	83.9%	744	696	93.5%	720	661	91.8%	2208	1981	89.7%
O3	744	658	88.4%	744	705	94.8%	720	684	95.0%	2208	2047	92.7%
Stn T	744	730	98.1%	744	744	100.0%	720	720	100.0%	2208	2194	99.4%
PM10*	5	5	100.0%	5	5	100.0%	5	5	100.0%	15	15	100.0%

PM_{10} recovery values are based on the Primary sampler.

4.0 Air Quality Data Summary

This chapter provides a summary of the air quality data collected for the Basin NextGen monitoring network for July through September 2007.

4.1 Continuous Air Quality Data

A summary of the air quality data, including a comparison of the data to the applicable federal and state ambient air quality standards, is presented in **Tables 4-1** and **4-2**. Additional data summary and discussion are provided later in this chapter. Listings of the individual hourly air quality data summarized in this chapter are provided in Appendix D.

Table 4-1 Basin NextGen Continuous Air Quality Monitoring Data Summary

Parameter		July		August		September		Quarter	
		μg/m³	ppb	μg/m³	ppb	μg/m³	ppb	μg/m³	ppb
NO_2	Average	4	1.9	3	1.7	3	1.5	3	2
	1-hour Maximum	15	8.2	17	9.0	7	3.9	17	9
SO_2	Average	<1	<1	<1	<1	<1	<1	<1	<1
	1-hour Maximum	6.3	2.4	2.9	1.1	4.7	1.8	6.3	2.4
	3-hour Maximum	3.4	1.3	1.0	<1	4.4	1.7	4.4	1.7
	24-hour Maximum	1.0	<1	<1	<1	1.3	<1	1.3	<1
O_3	Average	59	30.1	55	27.9	54	27.4	56	28
	1-hour Maximum	130	66.4	117	59.8	107	54.7	130	66
	8-hour Maximum	105	53.3	107	54.3	99	50.3	107	54

ppb = parts per billion.

NAAQS Standards (μg/m³)									
	PM_{10}	$PM_{2.5}$	NO_2	SO_2			CO		O_3
Annual Average		15	100			80			
1-hour							40,000		
3-hour				1,300					
8-hour								10,000	157
24-hour	150	35			365				
ppb to μg/m³			1.88	2.62	2.62	2.62			1.96
ppm to μg/m³							1,150	1,150	

NAAQS = National Ambient Air Quality Standards.

Table 4-2 Comparison of Basin NextGen – Air Quality Monitoring Data to NAAQS July through September 2007

Parameter	Measured Concentration		Standards NAAQS	
	µg/m³	ppb	µg/m³	ppb
NO_2				
1-hour Maximum	17	9.0	NS[2]	NS
Quarterly Mean	3	1.7	100[3]	50[3]
O_3				
1-hour Maximum	130	66.4	NS	NS
8-hour Maximum	107	54.3	157	80
SO_2				
1-hour Maximum	6	2.4	NS	NS
3-hour Maximum	4	1.7	1,300	500
24-hour Maximum	1	<1	365	140
Quarterly Mean	<1	<1	80[3]	30[3]
PM_{10}				
24-hour Maximum	31.4	NA[4]	150	NA
Quarterly Mean	18.9	NA	50	NA

[1]NAAQS are equivalent.
[2]NS = No Standard.
[3]*Quarterly mean concentrations are compared to annual NAAQS.*
[4]NA = Not Applicable.
PM_{10} values are based upon primary sampler.

NAAQS Standards (µg/m³)									
	PM_{10}	$PM_{2.5}$	NO_2	SO_2			CO		O_3
Annual Average			100			80			
1-hour							40,000		
3-hour				1,300					
8-hour								10,000	157
24-hour	150	35			365				
ppb to µg/m³			1.88	2.62	2.62	2.62			1.96
ppm to µg/m³							1,150	1,150	

Table 4-3 NO_2 Summary

	NO_2 Monthly Average ppb	NO_2 1-Hour Max ppb	Date 1-Hour Max Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Apr-07	1.8	0.5	1/4/00	564	720	78.3%
May-07	2.0	6.8	5/14/07	703	744	94.5%
Jun-07	1.4	3.5	6/9/07	660	720	91.7%
Jul-07	1.9	8.2	7/10/07	624	744	83.9%
Aug-07	1.7	9.0	8/1/07	696	744	93.5%
Sep-07	1.5	3.9	9/18/07	661	720	91.8%

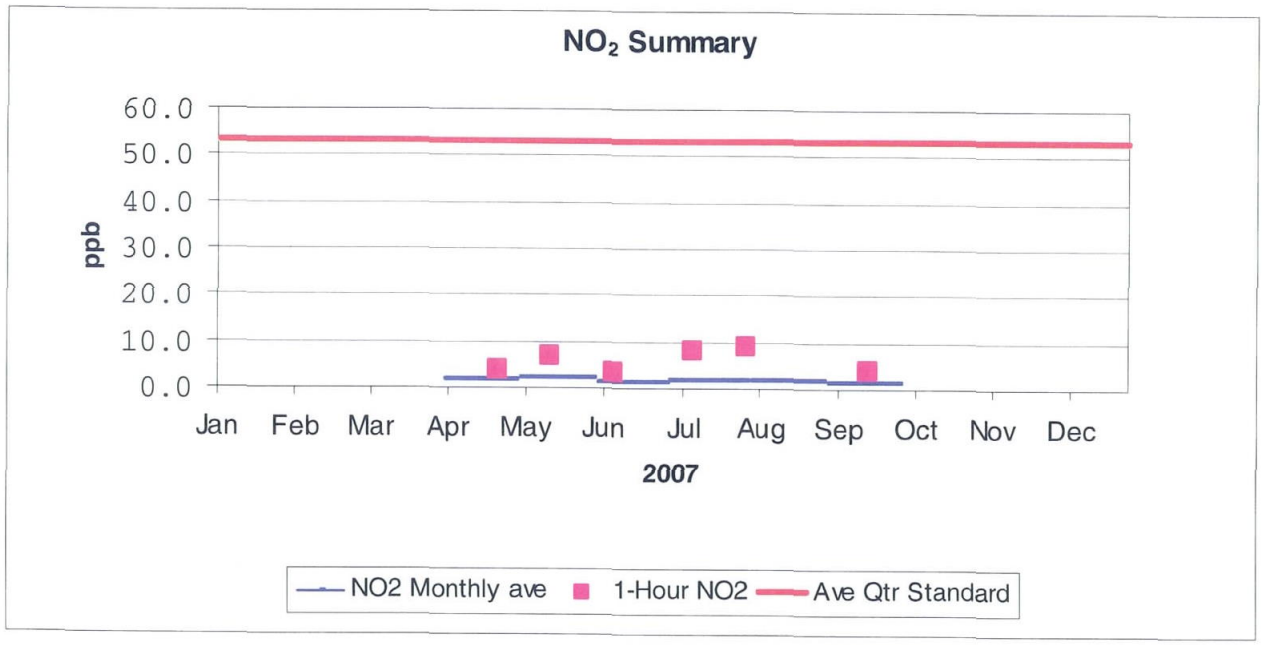

Figure 4-1 NO_2 Summary

NAAQS standards for NO_2 are: 53 ppb (~100 µg/m^3) annual average.

Note: ppb NO_2 to µg/m^3 conversion = 1.88.

Table 4-4 SO_2 Summary

	SO_2 Monthly Average ppb	SO_2 1-Hour Max ppb	Date 1-Hour Max Occurred	SO_2 3-Hour Max ppb	SO_2 24-hour Max ppb	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Apr-07	<1	<1	4/5/07	<1	<1	564	720	78.3%
May-07	<1	1.4	5/22/07	<1	<1	703	744	94.5%
Jun-07	<1	2.2	6/21/07	<1	<1	660	720	91.7%
Jul-07	<1	2.4	7/10/07	1.3	<1	624	744	83.9%
Aug-07	<1	1.1	8/17/07	<1	<1	696	744	93.5%
Sep-07	<1	1.8	9/14/07	1.7	<1	661	720	91.8%

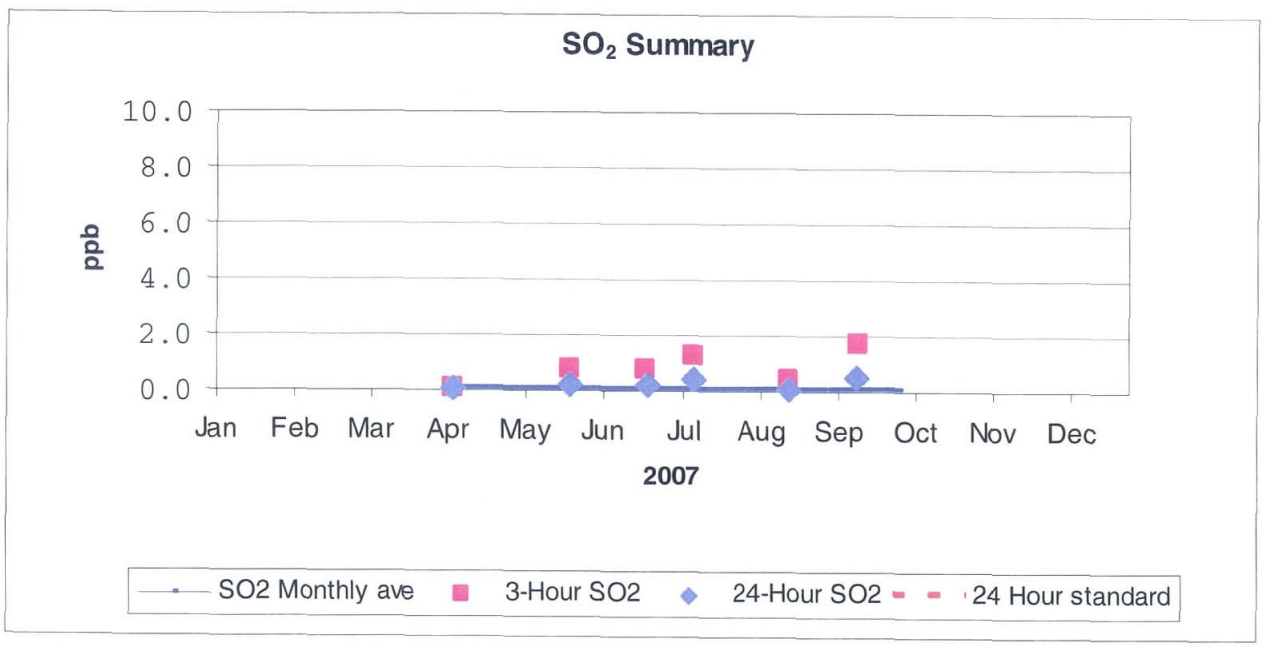

Figure 4-2 SO_2 Summary

NAAQS standards for SO_2 are: 139 ppb (365 µg/m^3) 24-hour average and 30 ppb (80 µg/m^3) annual average.

Note: ppb SO_2 to µg/m^3 conversion = 2.62.

Table 4-5 O_3 Summary

	O_3 Monthly Average ppb	O_3 1-Hour Max ppb	Date 1-Hour Max occurred	O_3 8-Hour Max ppb	Date 8-Hour Max occurred	Hours of QA/QC data	Hours of data possible	Data capture percent
Apr-07	36	58	4/8/07	52	4/26/07	570	720	79.2%
May-07	32	58	5/18/07	52	5/18/07	708	744	95.2%
Jun-07	31	52	6/16/07	46	6/25/07	665	720	92.4%
Jul-07	30	66	7/12/07	53	7/29/07	658	744	88.4%
Aug-07	28	60	8/13/07	54	8/9/07	705	744	94.8%
Sep-07	27	55	9/5/07	50	9/3/07	684	720	95.0%

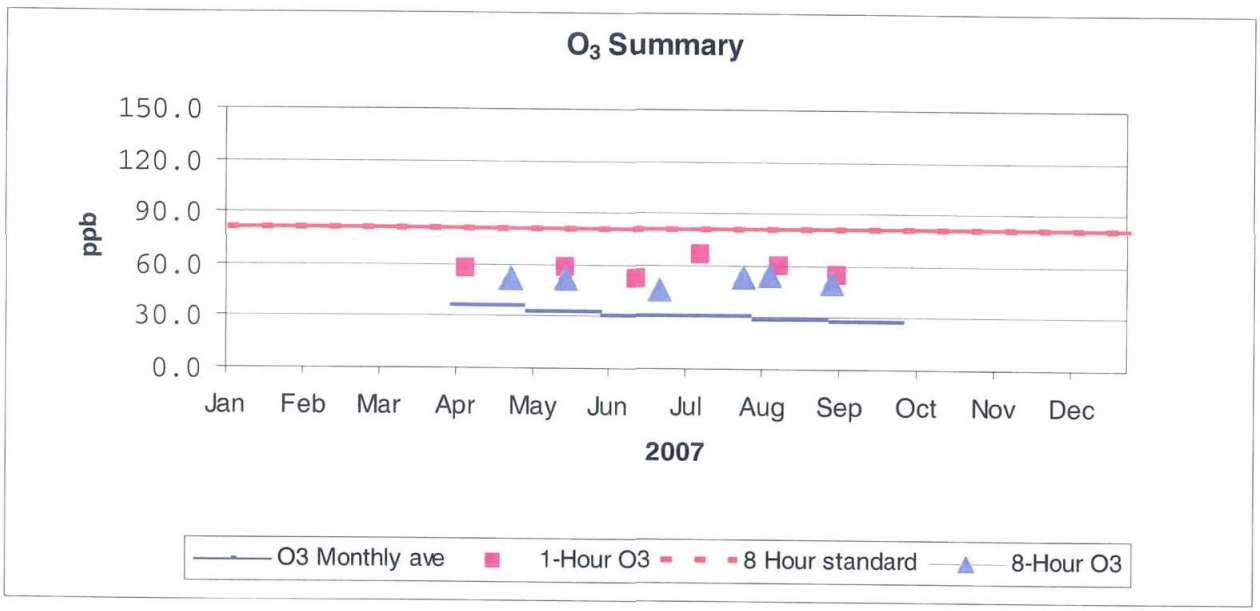

Figure 4-3 O_3 Summary

NAAQS standards for O_3 are: 120 ppb (235 µg/m^3) 1-hour standard and 80 ppb (157 µg/m^3) 8-hour standard

Note: ppb O_3 to µg/m^3 conversion = 1.96

4.1.1 Continuous Analyzer Precision Statistics

Table 4-6 provides the precision probability intervals for each continuous analyzer. The table presents statistics based on the number of precision checks (N) conducted for each continuous analyzer from July through September 2007. The average percentage difference (dj) between the designated (known) input concentration and the observed (indicated) analyzer response was computed along with the standard deviation (Sj), and upper and lower 95 percent probability limits, using equations defined in Appendix A.

Table 4-6 Continuous Analyzer Precision Statistics – July through September 2007

Analyzer	N	Average Percent Difference (d_j)	Standard Deviation (S_j)	Upper 95 Percent Probability Limit	Lower 95 Percent Probability Limit
SO_2	6	-3.7	2.0	0.3	-7.7
NO_2	6	-0.8	4.3	7.6	-9.2
NO	6	-4.2	3.4	2.5	-10.9
O_3	6	-0.1	3.3	6.4	-6.6

4.1.2 Continuous Analyzer Accuracy Statistics

Accuracy statistics for the period July through September 2007 were determined from the quarterly network performance quality assurance audit, conducted by ARS on July 11-12, 2007. During the audit, the air quality analyzers were challenged with three known concentrations spanning the operational range of the instruments. **Table 4-7** provides a summary of the accuracy statistics, defined as the percent difference between the audit input and the analyzer response. A negative value indicates the analyzer was reading low, and a positive value indicates the analyzer was reading high.

Table 4-7 Continuous Analyzer Accuracy Statistics – July through September 2007

Date	Analyzer	Parameter	Accuracy (Percent)[1]		
			30 – 80 ppb	150 - 200 ppb	400 - 450 ppb
July 11-12, 2007*	TEI 42 SN: 70181-365	NO_X[1] NO[1] NO_2[1]	3.6 0.1 11.3	7.4 0.2 4.9	8.6 0.5 9.1
July 11-12, 2007*	TEI 43A SN: 29727-236	SO_2	-3.8	-8.5	6.8
July 11-12, 2007*	TEI 49 SN: 051781-2012	O_3	-7.4	-7.3	-1.4

[1]Project accuracy goal ±10 percent of audit input. USEPA accuracy goal ±15 percent.

*The quarterly audit for July through September was rescheduled to July 11-12, after the tower failure on September 6.

4.2 Particulate Data (PM_{10})

The measured inhalable particulate (PM_{10}) 24-hour average concentrations were well below the NAAQS standard of 150 µg/m^3. **Table 4-8** provides a summary of PM_{10} values and the quarterly means. **Table 4-9** shows each PM_{10} sample results including data weight, concentration, initial flow, final flow, and elapsed time.

Table 4-8 24-hour Particulate Data Summary July 5 through September 27, 2007

	PM_{10} (µg/m^3)	
Date	**Primary**	**Collocated**
July 5, 2007	20.4	17.4
July 11, 2007	20.3	18.6
July 17, 2007	28.4	26.3
July 23, 2007	31.4	27.4
July 29, 2007	20.3	19.9
August 4, 2007	11.7	12.1
August 10, 2007	22.6	24.7
August 16, 2007	21.8	23.4
August 22, 2007	19.7	20.0
August 28, 2007	12.3	12.5
September 3, 2007	23.7	22.8
September 9, 2007	5.1	5.3
September 15, 2007	20.1	18.8
September 21, 2007	17.5	16.7
September 27, 2007	8.8	
Quarterly Arithmetic Mean	**18.9**	**19.0**

Table 4-9 PM_{10} Sampler Monitoring Data

Date	Unit Designation	Filter Number	SCCM ($\mu g/m^3$)	Delta Weight (g)	Initial Flow (SCCM)	Initial Flow (ACCM)	Final Flow (SCCM)	Final Flow (ACCM)	Time (min)	Comments
07/05/07	PM10 (Primary)	000035	**20.4**	0.0313	38.4	39.6	38.3	39.5	1409.4	
07/05/07	PM10 (Collocated)	000036	**17.4**	0.0280	39.7	40.9	39.7	40.9	1429.2	
07/11/07	PM10 (Primary)	000037	**20.3**	0.0315	38.9	41.0	38.9	41.1	1409.4	
07/11/07	PM10 (Collocated)	000038	**18.6**	0.0289	38.6	40.8	38.5	40.6	1424.4	
07/17/07	PM10 (Primary)	000040	**28.4**	0.0445	38.9	41.1	38.8	41.0	1424.4	
07/17/07	PM10 (Collocated)	000041	**26.3**	0.0413	38.5	40.6	38.4	40.6	1442.4	
07/23/07	PM10 (Primary)	000042	**31.4**	0.0488	38.8	41.0	38.9	41.0	1411.2	
07/23/07	PM10 (Collocated)	000043	**27.4**	0.0424	38.4	40.6	38.4	40.6	1424.4	
07/29/07	PM10 (Primary)	000044	**20.3**	0.0315	38.8	41.0	38.8	40.9	1411.8	
07/29/07	PM10 (Collocated)	000045	**19.9**	0.0306	38.4	40.6	38.4	40.5	1411.8	
08/04/07	PM10 (Primary)	000046	**11.7**	0.0181	38.7	40.8	38.6	40.7	1410.6	
08/04/07	PM10 (Collocated)	000047	**12.1**	0.0186	38.0	40.1	38.1	40.2	1424.4	
08/10/07	PM10 (Primary)	000048	**22.6**	0.0347	38.5	40.6	38.4	40.6	1409.4	
08/10/07	PM10 (Collocated)	000049	**24.7**	0.0381	38.1	40.2	38.1	40.2	1428.0	
08/16/07	PM10 (Primary)	000050	**21.8**	0.0335	38.5	40.6	38.6	40.7	1410.0	
08/16/07	PM10 (Collocated)	000051	**23.4**	0.0361	38.1	40.2	38.2	40.3	1428.0	
08/22/07	PM10 (Primary)	000052	**19.7**	0.0302	38.6	40.7	38.4	40.6	1408.8	
08/22/07	PM10 (Collocated)	000053	**20.0**	0.0307	38.1	40.3	38.0	40.1	1423.8	
08/28/07	PM10 (Primary)	000054	**12.3**	0.0189	38.6	40.7	38.5	40.6	1408.2	
08/28/07	PM10 (Collocated)	000055	**12.5**	0.0192	38.0	40.1	38.0	40.2	1423.2	
09/03/07	PM10 (Primary)	000056	**23.7**	0.0366	38.6	40.8	38.6	40.8	1411.2	
09/03/07	PM10 (Collocated)	000057	**22.8**	0.0350	38.0	40.2	38.1	40.3	1423.2	
09/09/07	PM10 (Primary)	000058	**5.1**	0.0079	38.5	40.6	38.4	40.6	1413.0	
09/09/07	PM10 (Collocated)	000059	**5.3**	0.0082	38.2	40.4	38.2	40.3	1420.8	
09/15/07	PM10 (Primary)	000060	**20.1**	0.0309	38.4	40.6	38.5	40.6	1412.4	
09/15/07	PM10 (Collocated)	000061	**18.8**	0.0288	38.0	40.2	38.1	40.2	1423.2	
09/21/07	PM10 (Primary)	000062	**17.5**	0.0270	38.5	40.6	38.6	40.8	1412.4	
09/21/07	PM10 (Collocated)	000063	**16.7**	0.0258	38.1	40.2	38.2	40.4	1426.8	
09/27/07	PM10 (Primary)	000064	**8.8**	0.0136	38.6	40.8	38.5	40.6	1411.2	
09/27/07	PM10 (Collocated)									Invalid/Motor Failed

Validated By RLT 10/18/07
Analyst DH 10/18/07

4.2.1 Hi-vol Precision and Accuracy Statistics

Table 4-10 presents the precision statistics for the collocated PM_{10} sampler for the quarter. **Table 4-11** presents the accuracy statistics for the period, which were determined from the quality assurance audit conducted July 12, 2007. All samplers were found to be operating within the ±7 percent accuracy goal when compared to the auditor's reference flow standard.

Table 4-10 Hi-vol Precision – July through September 2007

N	Average Percent Difference (d_i)	Standard Deviation (S_i)	Upper 95 Percent Probability Limit	Lower 95 Percent Probability Limit
11	-3.8	7.5	11.0	-18.6

Table 4-11 Hi-vol Accuracy – Accuracy July through September 2007

Date	Station/ Sampler	Parameter	Units	Accuracy[1] (%)
July 11-12, 2007*	#1	PM_{10}	ACFM	2.5
July 11-12, 2007*	#2	PM_{10}	ACFM	1.5

[1]Values given for accuracy are the percent difference between the flow rate determined with the audit standard and that reported by the station flow rate indicator and calibration curve. Accuracy goal is ±7 percent.

*The quarterly audit for July through September was rescheduled to July 11-12, after the tower failure on September 6.

4.3 Particulate Data – $PM_{2.5}$

Particulate matter with aerodynamic diameter less than 2.5 µm are tested using a Met One, BAM Model 1020, $PM_{2.5}$ particulate sampler. This instrument is equipped with a VSCC head to achieve the FEM to generate hourly $PM_{2.5}$ concentrations using a fiber tape and internal $carbon_{14}$ radiation source.

Table 4-12 is a $PM_{2.5}$ data summary and **Figure 4-4** is a graphic presentation of hourly $PM_{2.5}$ data with 24 hour, 6 day PM_{10} runs overlain.

Table 4-12 $PM_{2.5}$ Data Summary (µg/m^3)

	$PM_{2.5}$ Monthly Average	$PM_{2.5}$ 24-hour Maximum
July	13.8	20.6
August	10.7	18.4
September	9.9	25.2
Quarter	**11.3**	**25.2**

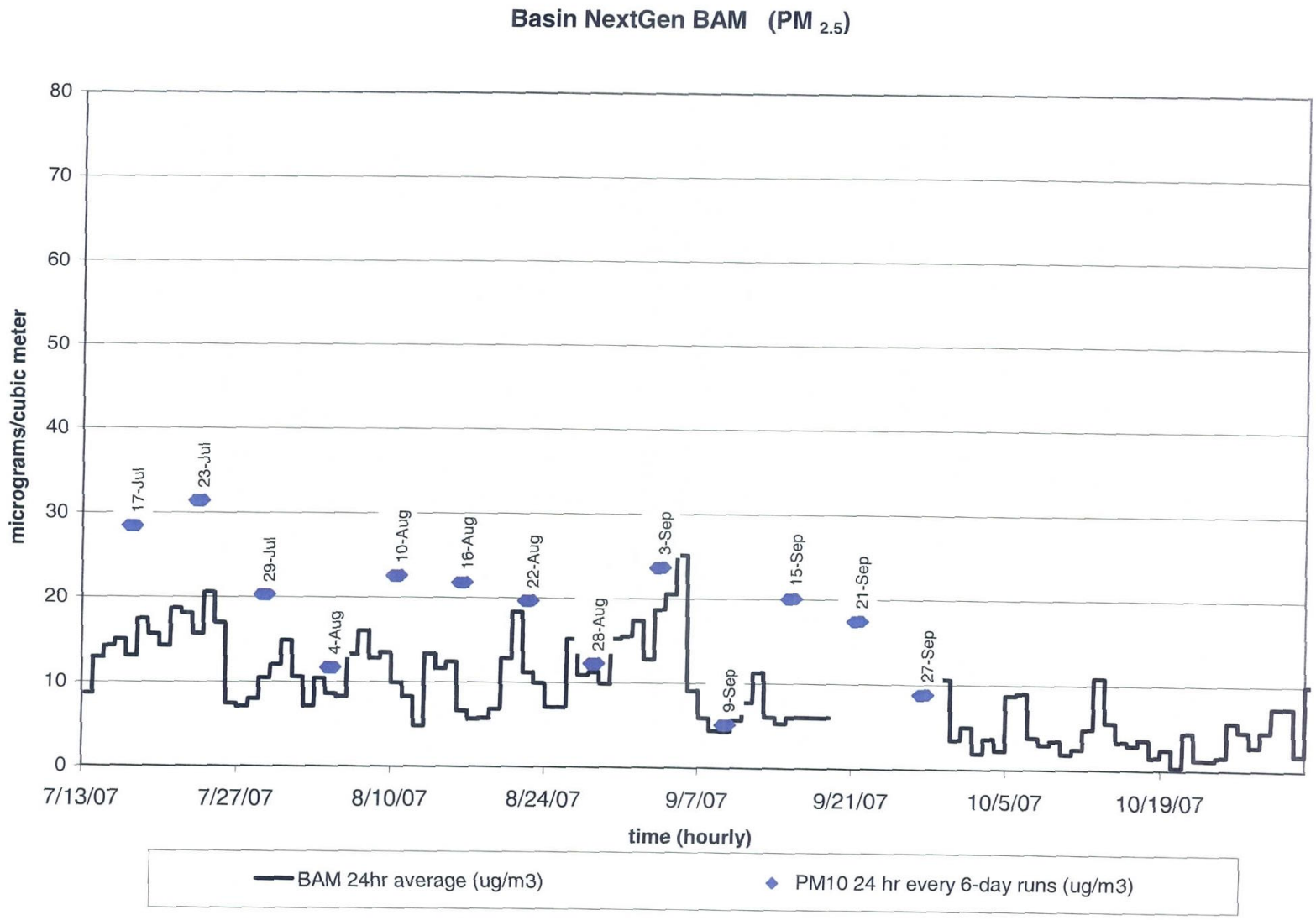

Figure 4-4 **$PM_{2.5}$ Graphical Presentation with PM_{10} Data Overlain**

5.0 Meteorological Data Summary

At the Basin site, meteorological data is collected in accordance with USEPA Meteorological Monitoring Guidance for Regulation Modeling Applications from an instrumented 100-m tower. The specific instruments and equipment are described in more detail below.

5.1 Horizontal Wind Speed and Direction

Horizontal wind speeds and direction on the tower are measured continuously at the Basin site using Climatronics Model F460 wind systems (100075-G0-H0 for wind speed; 100076-G0-H0 for wind direction). Wind speed is measured using anemometers where the principle of operation is based on a light chopper that produces a frequency proportional to wind speed. The wind direction sensor is a lightweight balanced vane that senses position by a precision potentiometer. The wind sensors are installed at 10m, 50m, and 100m. The standard deviation (sigma-theta) of the wind direction is computed by the data logger using the USEPA preferred Yamartino method (USEPA 2000).

5.2 Temperature and Temperature Difference

Temperatures at the Basin site are measured at four levels on the tower using a Climatronics Model 100093 temperature system. This motor aspirated system includes dual element thermistors mounted at 100m, 50m, 10m and 2m above ground level. Delta-T is calculated by the datalogger based on the difference in temperatures measured by identical sensors at each of the levels, 10-2m, 100-50m, and 50-10m. The datalogger resolves the temperature difference to better than 0.1°C.

This sensor configuration is designed to provide complete signal wire compensation and to eliminate any measurement errors resulting from resistance of the signal cable. The aspirator is mechanically ventilated with a fan to prevent conductive interference from precipitation and radiation from solar and terrestrial sources.

5.3 Vertical Wind Speed and Standard Deviation

Vertical wind speeds on the tower are measured continuously at the Basin site using Climatronics Model 102236-G0 wind systems. Vertical wind speeds are measured using an anemometer where the principle of operation is based on a prop that rotates either clockwise or counter-clockwise, which corresponds to positive or negative voltages that are translated into upward and downward vertical wind speed. The wind sensors are installed at 100m, 50m, and 10m. The standard deviation (sigma-w) of the wind direction is computed by the data logger following the guidelines in USEPA (2000).

5.4 Solar Radiation

At the Basin site, radiation measurements using a Kipp & Zonen model CMP3 pyranometer located at about the 2m level. The sensor is designed for measurement of global (sun and sky) radiation. The detector is a differential thermopile made of plated copper on constantan junctions. Hot-junction receivers are covered with a stable black coating, cold junction receivers are whitened with non-hygroscopic barium sulfate. The sensor is temperature compensated using thermistor circuitry to within 1.5 percent of the range of -20°C to +40°C. The sensor is sensitive to wavelengths of 0.285 to 2.800 μm.

5.5 Relative Humidity

RH is measured, at 2 m, using a Campbell Scientific model HMP 45C-L humidity sensor. The sensing element is a small hygroscopic thin film capacitor that modifies its value as a function of both the water vapor pressure

and temperature of the environment. The sensor probe electronics automatically compensate for temperature effects on the probe. Sensor output signals are data logger compatible requiring no additional processing.

Table 5-1 10-meter Wind Speed Summary

	WS Monthly Average mps	WS Monthly Max mps	Date Max Occurred	WS Monthly Min mps	Date Min Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Apr-07	5.5	17.2	04/19/07	0.8	04/17/07	497	720	69.0%
May-07	7.1	17.5	05/05/07	0.9	05/26/07	744	744	100.0%
Jun-07	5.6	16.4	06/18/07	0.7	06/27/07	468	720	65.0%
Jul-07	4.7	14.0	07/26/07	0.5	07/05/07	720	744	96.8%
Aug-07	4.5	11.6	08/10/07	0.4	08/20/07	744	744	100.0%
Sep-07	5.6	12.6	09/28/07	0.4	09/16/07	720	720	100.0%

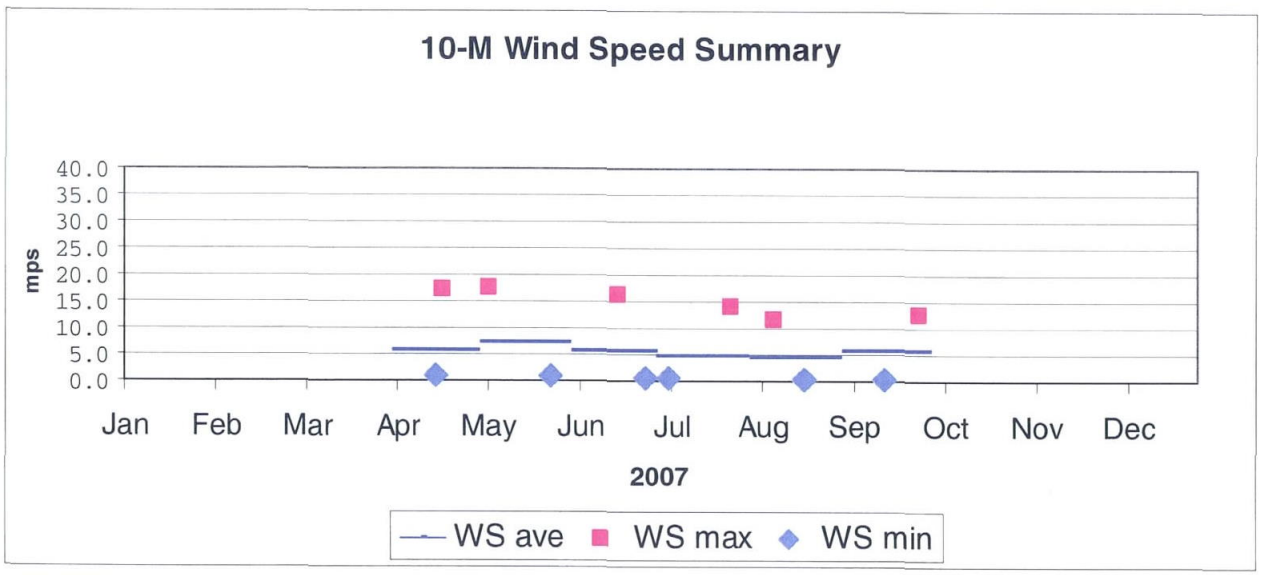

Figure 5-1 10-meter Wind Speed Summary

Table 5-2 50-meter Wind Speed Summary

	WS Monthly Average mps	WS Monthly Max mps	Date Max Occurred	WS Monthly Min mps	Date Min Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Apr-07	7.3	19.9	4/17/07	1.1	4/25/07	517	720	71.8%
May-07	8.9	23.2	5/5/07	1.4	5/8/07	744	744	100.0%
Jun-07	7.7	19.7	6/18/07	0.9	6/27/07	468	720	65.0%
Jul-07	6.8	17.9	7/26/07	0.9	7/5/07	720	744	96.8%
Aug-07	6.4	15.0	8/3/07	0.6	8/23/07	744	744	100.0%
Sep-07	8.0	15.7	9/28/07	0.8	9/21/07	720	720	100.0%

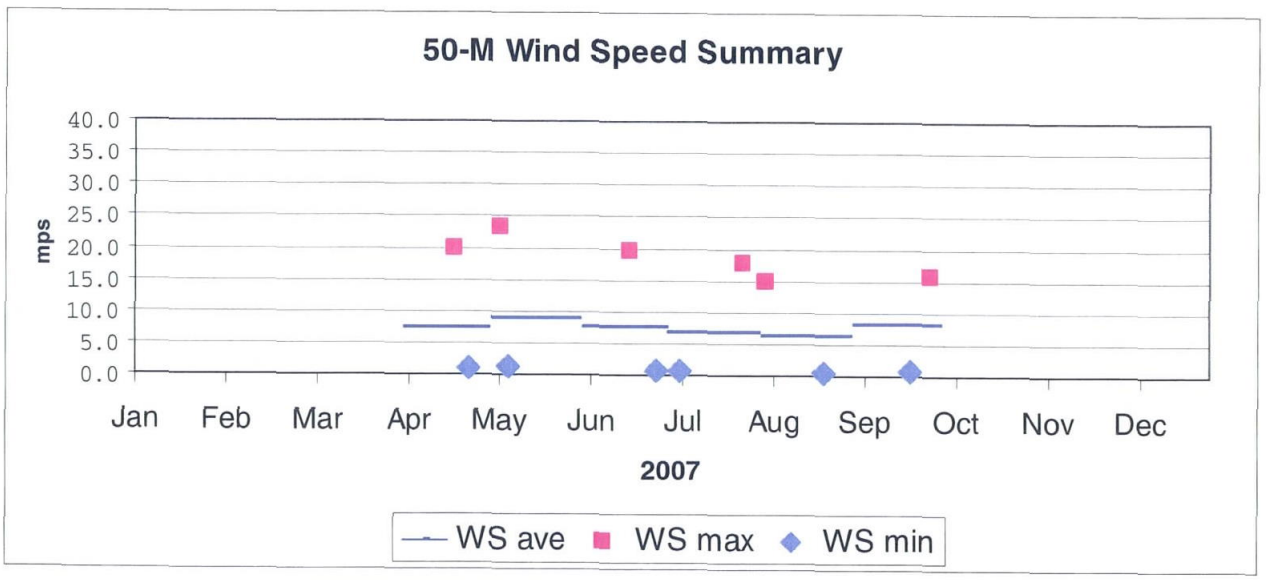

Figure 5-2 50-meter Wind Speed Summary

Table 5-3 100-meter Wind Speed Summary

	WS Monthly Average mps	WS Monthly Max mps	Date Max Occurred	WS Monthly Min mps	Date Min Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Apr-07	8.2	20.7	4/19/07	1.0	4/12/07	517	720	71.8%
May-07	10.0	26.3	5/5/07	1.0	5/8/07	744	744	100.0%
Jun-07	8.0	18.9	6/25/07	0.1	6/18/07	468	720	65.0%
Jul-07	7.2	20.3	7/26/07	0.1	7/1/07	720	744	96.8%
Aug-07	7.3	17.4	8/3/07	0.6	8/23/07	744	744	100.0%
Sep-07	9.4	18.3	9/28/07	0.9	9/21/07	720	720	100.0%

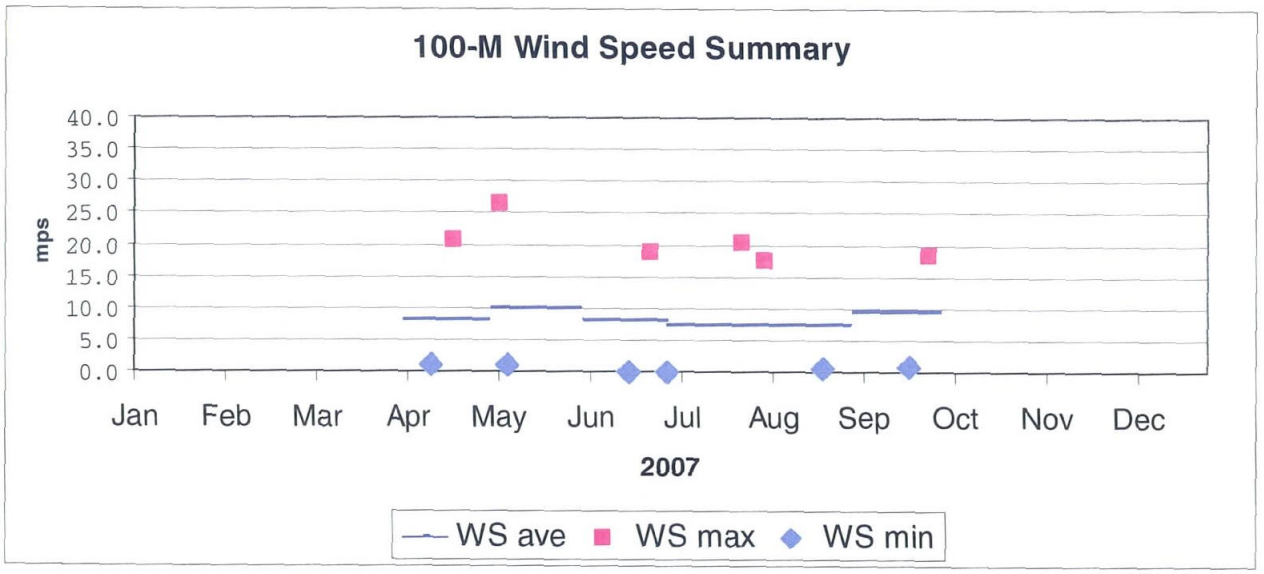

Figure 5-3 100-meter Wind Speed Summary

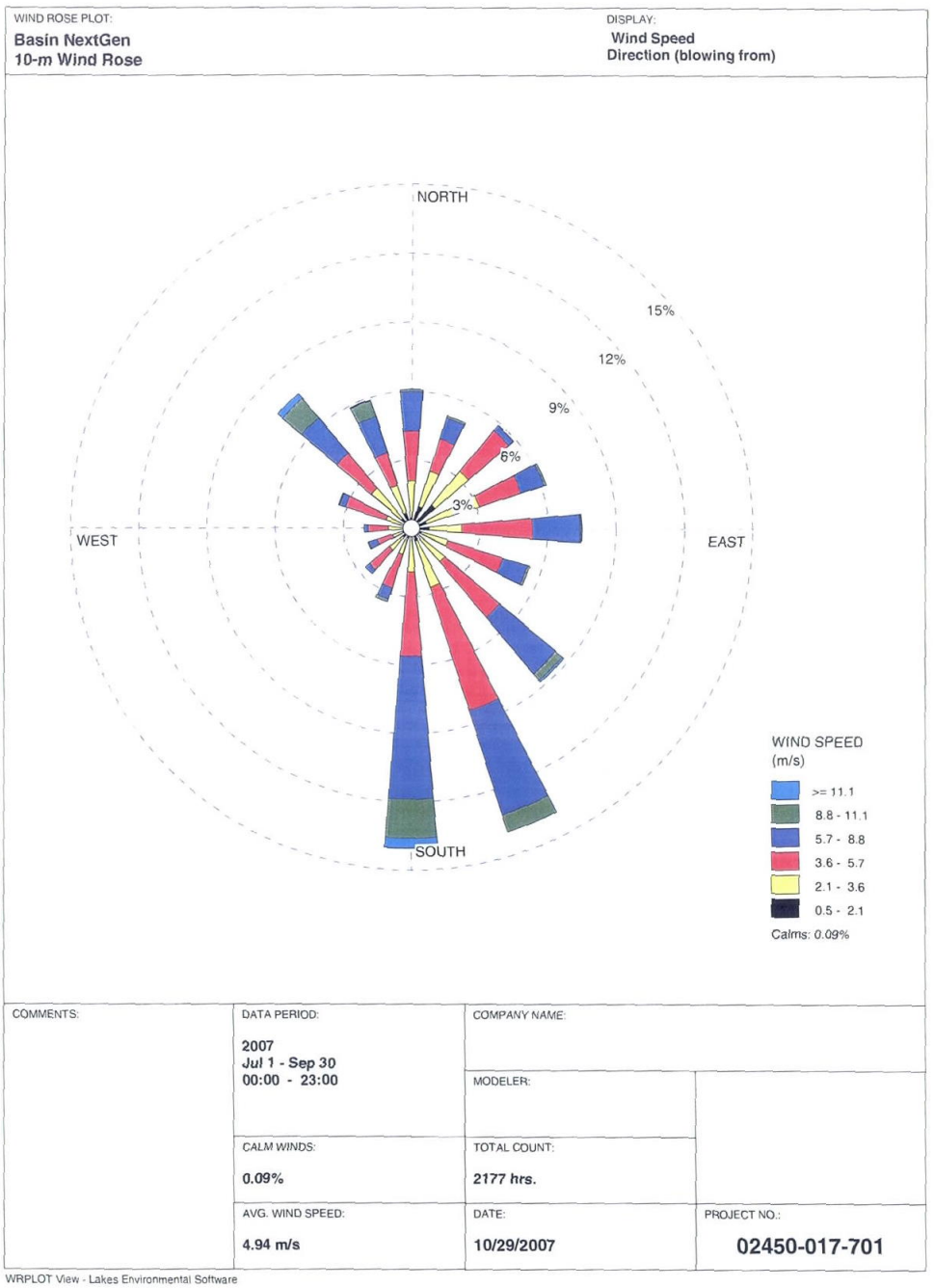

Figure 5-4 10-meter Wind Rose

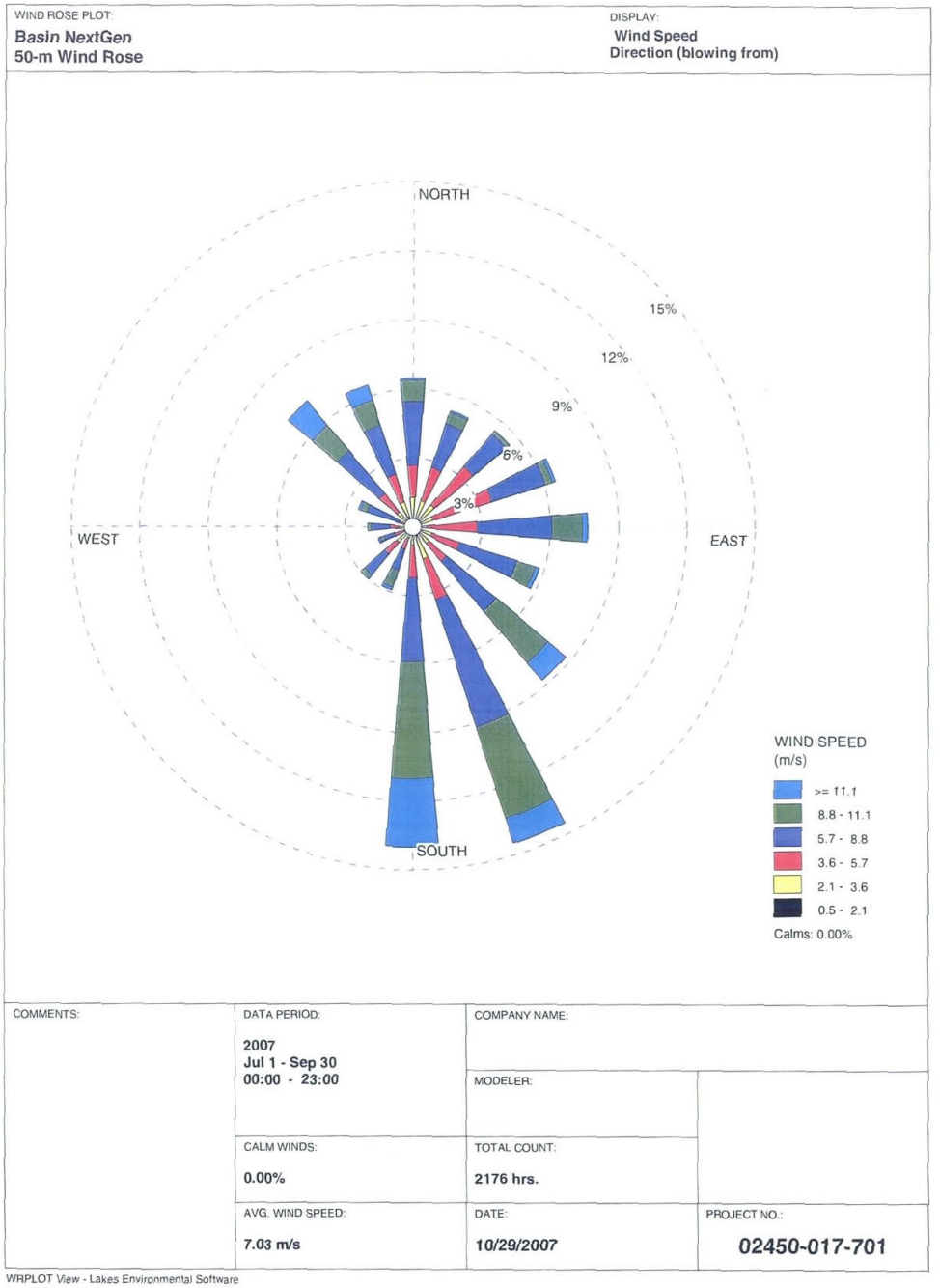

Figure 5-5 50-meter Wind Rose

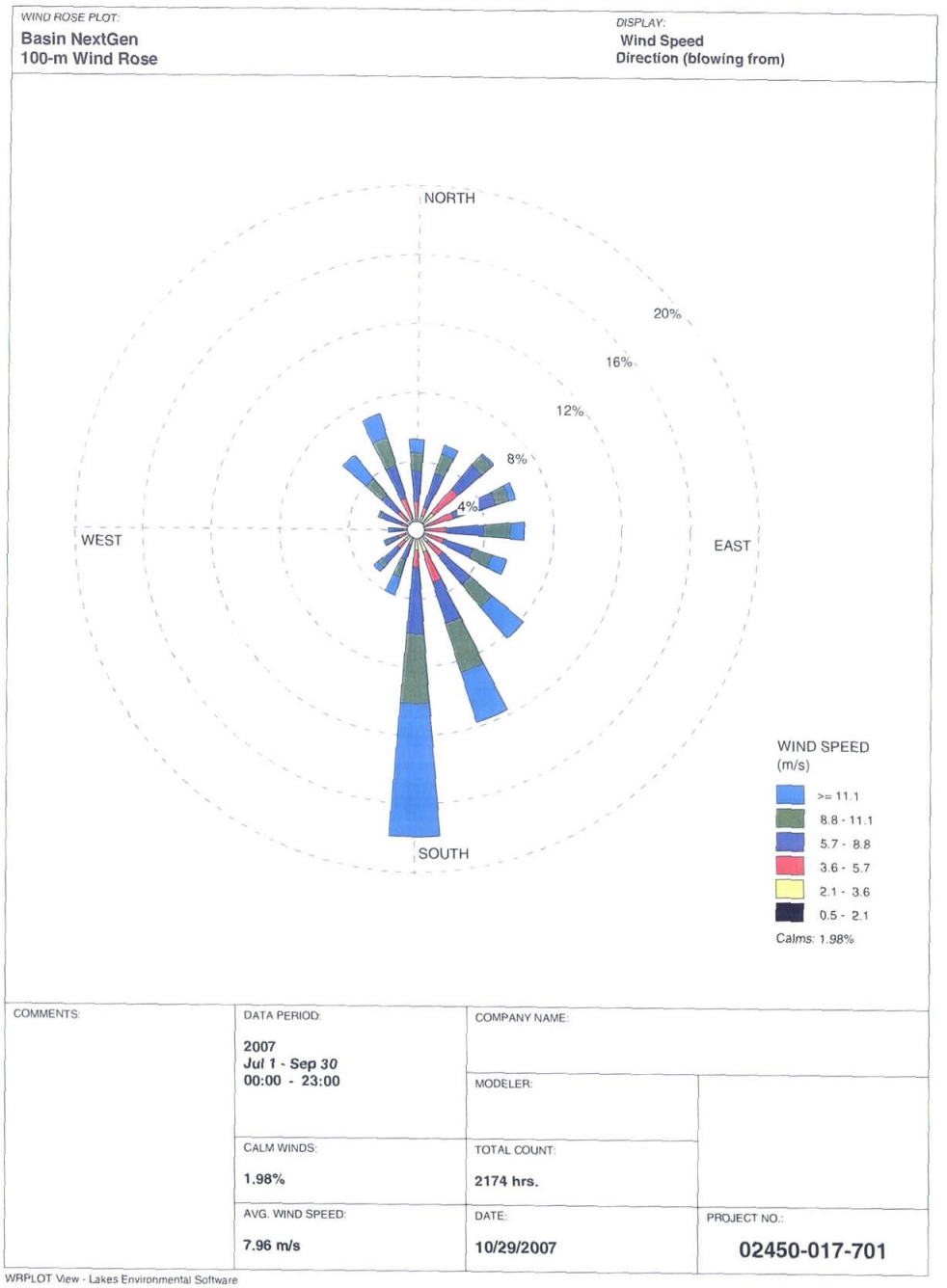

Figure 5-6 100-meter Wind Rose

Table 5-7 100-meter Temperature Summary

	Temp. Monthly Average deg C	Temp. Monthly Max deg C	Date Max Occurred	Temp. Monthly Min deg C	Date Min Occurred	Hours of Valid Data	Hours of Data Possible	Valid Data Capture Percent
Apr-07	7.9	24.5	4/28/07	-12.6	4/7/07	588	744	79.0%
May-07	14.9	30.4	5/13/07	2.6	5/26/07	744	744	100.0%
Jun-07	19.6	31.3	6/25/07	8.8	6/28/07	467	672	69.5%
Jul-07	24.3	38.6	7/7/07	12.7	7/10/07	708	744	95.2%
Aug-07	20.4	35.0	8/13/07	11.1	8/25/07	744	720	103.3%
Sep-07	16.9	34.8	9/3/07	3.8	9/14/07	720	744	96.8%

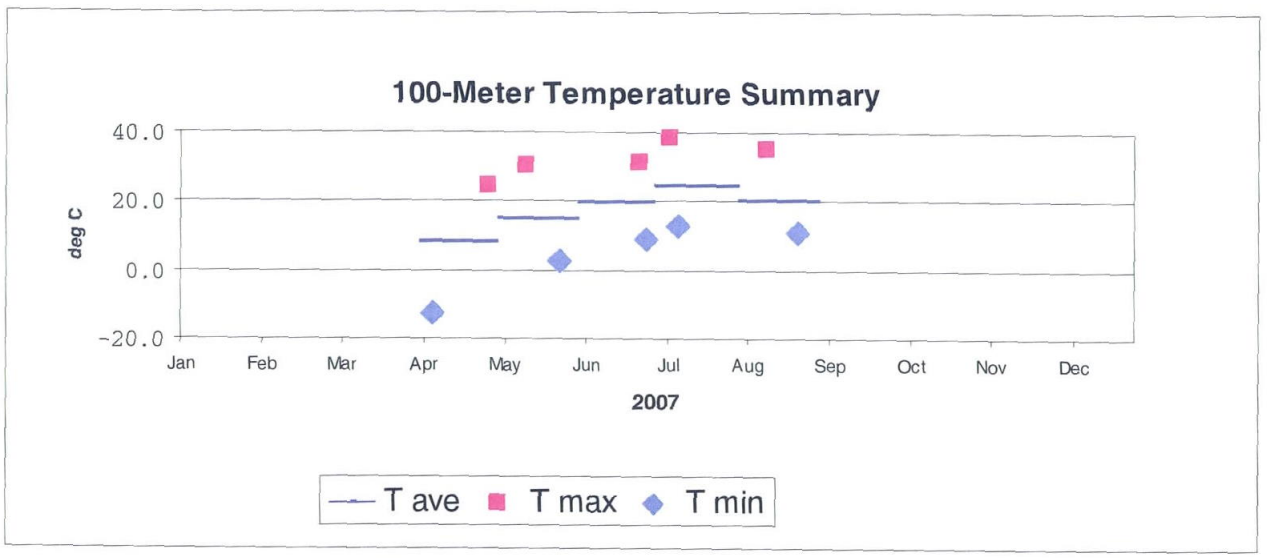

Figure 5-10 100-meter Temperature Summary

Table 5-8 10-2 Delta Temperature Summary

	Delta T Monthly Average deg C	Delta T Monthly Max deg C	Date Max Occurred	Delta T Monthly Min deg C	Date Min Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Apr-07	0.27	5.57	4/14/07	-5.47	4/9/07	588	720	81.7%
May-07	0.08	5.39	5/8/07	-1.69	5/24/07	744	744	100.0%
Jun-07	0.26	5.48	6/26/07	-1.28	6/28/07	467	720	64.9%
Jul-07	0.39	4.69	07/03/07	-2.32	07/12/07	707	744	95.0%
Aug-07	0.26	6.20	08/21/07	-1.49	08/14/07	744	744	100.0%
Sep-07	0.42	7.34	09/12/07	-1.53	09/12/07	719	720	99.9%
				deg C/m				
Apr-07	0.03	0.70	04/14/07	-0.68	04/09/07	588	720	81.7%
May-07	0.01	0.67	05/08/07	-0.21	05/24/07	744	744	100.0%
Jun-07	0.03	0.69	06/26/07	-0.16	06/28/07	467	720	64.9%
Jul-07	0.05	0.59	07/03/07	-0.29	07/12/07	707	744	95.0%
Aug-07	0.03	0.78	08/21/07	-0.19	08/14/07	744	744	100.0%
Sep-07	0.05	0.92	09/12/07	-0.19	09/12/07	719	720	99.9%

Table 5-9 50-10 Delta Temperature Summary

	Delta T Monthly Average deg C	Delta T Monthly Max deg C	Date Max Occurred	Delta T Monthly Min deg C	Date Min Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Apr-07	0.59	6.47	4/29/07	-3.56	4/20/07	572	720	79.4%
May-07	0.21	5.47	5/9/07	-1.33	5/20/07	744	744	100.0%
Jun-07	0.27	4.33	6/19/07	-1.05	6/18/07	467	720	64.9%
Jul-07	0.45	5.60	07/16/07	-2.59	07/26/07	707	744	95.0%
Aug-07	0.29	5.64	08/22/07	-2.13	08/28/07	744	744	100.0%
Sep-07	0.55	7.01	09/16/07	-1.15	09/13/07	719	720	99.9%
				deg C/m				
Apr-07	0.01	0.16	04/29/07	-0.09	04/20/07	572	720	79.4%
May-07	0.01	0.14	05/09/07	-0.03	05/20/07	744	744	100.0%
Jun-07	0.01	0.11	06/19/07	-0.03	06/18/07	467	720	64.9%
Jul-07	0.01	0.14	07/16/07	-0.06	07/26/07	707	744	95.0%
Aug-07	0.01	0.14	08/22/07	-0.05	08/28/07	744	744	100.0%
Sep-07	0.01	0.18	09/16/07	-0.03	09/13/07	719	720	99.9%

Table 5-10 100-50 Delta Temperature Summary

	Delta T Monthly Average deg C	Delta T Monthly Max deg C	Date Max Occurred	Delta T Monthly Min deg C	Date Min Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Apr-07	0.04	4.10	4/21/07	-0.95	4/8/07	572	720	79.4%
May-07	-0.11	3.44	5/13/07	-0.80	5/20/07	744	744	100.0%
Jun-07	-0.03	2.23	6/30/07	-0.67	6/19/07	467	720	64.9%
Jul-07	0.16	6.63	07/12/07	-1.38	07/27/07	706	744	94.9%
Aug-07	0.02	3.51	08/10/07	-1.06	08/20/07	744	744	100.0%
Sep-07	0.11	3.93	09/16/07	-0.75	09/21/07	719	720	99.9%
				deg C/m				
Apr-07	0.00	0.08	04/21/07	-0.02	04/08/07	572	720	79.4%
May-07	0.00	0.07	05/13/07	-0.02	05/20/07	744	744	100.0%
Jun-07	0.00	0.04	06/30/07	-0.01	06/19/07	467	720	64.9%
Jul-07	0.00	0.13	07/12/07	-0.03	07/27/07	706	744	94.9%
Aug-07	0.00	0.07	08/10/07	-0.02	08/20/07	744	744	100.0%
Sep-07	0.00	0.08	09/16/07	-0.02	09/21/07	719	720	99.9%

Table 5-11 Solar Radiation Summary

	Sol Rad Monthly Total w/m^2	Sol Rad 24 hour Max w/m^2	Sol Rad 1 hour Max w/m^2	Date 1 hour Max Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Apr-07	130450	7270	880	4/17/07	604	720	83.9%
May-07	184461	7799	905	5/14/07	744	744	100.0%
Jun-07	188287	8318	939	6/8/07	698	720	96.9%
Jul-07	207311	8316	927	7/6/07	734	744	98.7%
Aug-07	140500	6968	836	8/2/07	744	744	100.0%
Sep-07	127844	5932	760	9/2/07	720	720	100.0%

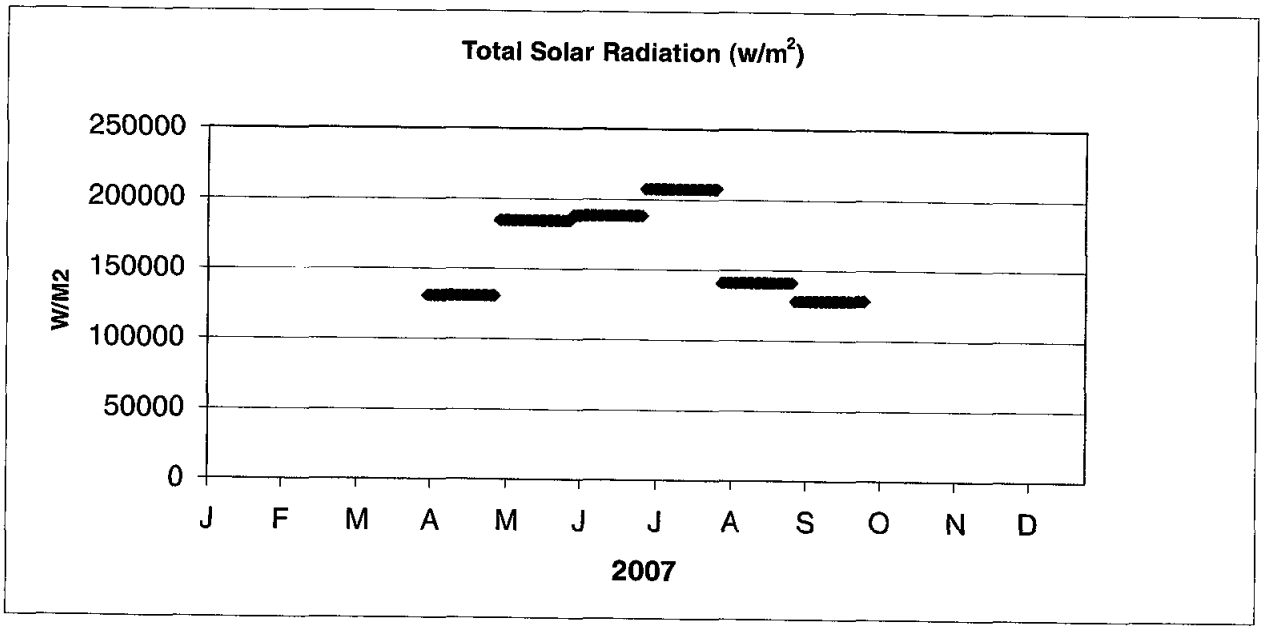

Figure 5-11 Solar Radiation

Table 5-12 Relative Humidity

	RH% Monthly Average	RH% Monthly Max	Date Max Occurred	RH% Monthly Min	Date Min Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Apr-07	63.2	99.1	4/21/07	18.7	4/28/07	602	720	83.6%
May-07	69.2	99.0	5/5/07	26.3	5/8/07	744	744	100.0%
Jun-07	74.7	98.3	6/14/07	29.1	6/9/07	720	720	100.0%
Jul-07	66.3	97.8	7/3/07	23.6	7/7/07	731	744	98.3%
Aug-07	75.9	99.1	8/19/07	24.0	8/2/07	744	744	100.0%
Sep-07	66.8	98.8	9/9/07	21.4	9/29/07	719	720	99.9%

Table 5-13 Barometric Pressure Summary

	Pressure Monthly Average (mmHg)	Pressure Monthly Max (mmHg)	Date Max Occurred	Pressure Monthly Min (mmHg)	Date Min Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Apr-07	705	720	4/6/07	699	4/19/07	602	720	83.6%
May-07	705	714	5/16/07	695	5/21/07	744	744	100.0%
Jun-07	704	714	6/28/07	683	6/6/07	720	720	100.0%
Jul-07	707	847	7/23/07	697	7/7/07	737	744	99.1%
Aug-07	706	715	8/12/07	698	8/20/07	744	744	100.0%
Sep-07	705	716	9/9/07	694	9/21/07	720	720	100.0%

Table 5-14 Precipitation Summary

	Precip. Monthly Total inches	Precip. 24 hour Max inches	Precip. 1 hour Max inches	Date 1 hour Max Occurred	Hours of QA/QC Data	Hours of Data Possible	Data Capture Percent
Apr-07	1.56	0.66	0.42	4/20/07	606	720	84.2%
May-07	4.58	2.33	0.96	5/22/07	744	744	100.0%
Jun-07	3.67	1.98	0.78	6/12/07	720	720	100.0%
Jul-07	1.86	1.53	1.41	7/13/07	734	744	98.7%
Aug-07	5.85	2.12	1.04	8/3/07	744	744	100.0%
Sep-07	1.26	0.45	0.30	9/8/07	720	720	100.0%

5.6 Barometric Pressure

Barometric pressure is measured using a Climatronics Model 102663-G0-10 pressure sensor. The pressure sensor is a piezoresistive device. The sensor is ideally suited to applications requiring accurate measurement of pressure. The sensor provides 0-1V DC over a 600 to 1,100 hPascals range.

5.7 Precipitation

A Climatronics Model 100097-1-G0 6-inch tipping bucket precipitation gauge is used to measure rainfall. Precipitation is channeled to a triangular bucket that tips once for each 0.01 inch of water collected. When the bucket empties, it activates a switch that is monitored and recorded by the data acquisition system.

5.8 Data Accuracy

A final independent quality assurance audit was scheduled to be performed in mid-September but had to be rescheduled until July 11-12 after the failure of the tower elevator system. A copy of the July 11-12 report can be found in Appendix E. The report shows all audited systems to be operating within accuracy goals.

6.0 References

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U.S. Environmental Protection Agency (EPA). 2000. Meteorological Monitoring Guidance for Regulatory Modeling Applications. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, North Carolina. EPA-454/R-99-005.

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____. 1987. Ambient Monitoring Guidelines for Prevention of Significant Deterioration (PSD). EPA Office of Air Quality Planning and Standards, Research Triangle Park, North Carolina. EPA-450/4-87-007.

Yamartino, R. J. 1984. A Comparison of Several "Single Pass" Estimators of the Standard Deviation of Wind.

Appendix A

Data Processing Specifications and Statistical Formulae

APPENDIX A

Data Processing Specifications and Statistical Formulae

A.1 PM_{10} Arithmetic Mean

The arithmetic mean was computed for each PM_{10} sampler using the following equation:

Arithmetic Mean =

$$\frac{1}{n}\sum_{j=1}^{n} PM_{10_j}$$

Where n is the number of valid samples and PM_{10j} is the individual PM_{10} concentrations measured.

A.2 Data Capture Percentage

The total data capture percentage (P_t) for each parameter is determined by:

$$P_t = \frac{h_v}{h_t} x\, 100$$

Where: h_v = number of hours of valid data
h_t = total hours in the period

A.3 Methods for Calculation of Precision and Accuracy Continuous Analyzer[1]

Statistics reported in this monitoring report are performed using the equations and methods according to Section 4 of Appendix A of 40 CFR Part 58 title Calculations for Data Quality Assessment.

A.4 Calculation of Hourly Sigma-Theta Values[2]

The hourly values of sigma-theta were calculated from the 15-minute averages using the following equation:

$$\sigma_\theta(hourly) = \sqrt{\frac{\sum_{i=1}^{n}\sigma_{\theta i}^2}{n}}$$

---

[1]U.S.EPA 40 CFR Part 58 Appendix A (Revised October 2006) Ambient Air Quality Surveillance

[2]U.S. EPA. Guideline on Air Quality Models (Revised). EPA-450/2-78-027R. 1986.

Appendix B

Unit Vector Averaging Method for Wind Directions

APPENDIX B

Unit Vector Method for Averaging Wind Direction

The unit vector method for averaging wind direction reduces the wind direction for a given period to a "unit vector" and subsequently does not weight the north-south and east-west components of the wind direction by the wind speed. The formula for the components of the wind direction, both in the X-direction and the Y-direction, is as follows;

$$V_x = -(1/N)\ \Sigma \sin (A_i)$$
$$V_y = -(1/N)\ \Sigma \cos (A_i)$$

where A_i is the wind direction for a specific period and N is the number of such observations for the hour.

The formula for calculating wind direction is then:

$$\text{Vector Wind} = \text{Arc Tan } (V_x/V_y)$$

If the Y-direction component (V_y) is zero and the X-direction component (V_x) is non-zero, then the Vector Wind is set to 90°. However, if V_x is set to zero, the Unit Vector Wind is calculated based on the sign of the component winds in the formula below.

$$\text{Unit Vector Wind} = \text{Vector Wind} + \text{FLOW}$$

FLOW is determined by examining the signs of both V_x and V_y. If these are both less than or equal to zero, FLOW is set to zero. If V_x is negative, FLOW is set to 360°. If both are positive, FLOW is set to 180°. The algorithm below describes how FLOW is determined.

```
IF (Vy ≤ 0) THEN
    IF (Vx ≤ 0) THEN
        FLOW = 0°

ELSE
        FLOW =360°
ELSE
        FLOW = 180°
```

Appendix C

Quarterly Calibrations, Certifications, and Filter Processing Information

Basin AQ
TECO 146 Flow Calibrations
07/11/2007

TANK JJ8896		
NO	**31.10**	ppm
SO2	**30.30**	ppm

AIR

M=	1061.96	**B=**	-420.65	**CORR=**	0.999971

GAS

M=	1.1381	**B=**	-1.258	**CORR=**	0.999986

NO FLOWS AND SETTINGS

INPUT	DILUTION FLOW CC/MIN	DILUTION SET	GAS FLOW CC/MIN	GAS SET
0.450	5000	**5.10**	73.41	**65.61**
0.200	5000	**5.10**	32.36	**29.54**
0.090	6000	**6.05**	17.41	**16.41**

SO2 FLOWS AND SETTINGS

INPUT	DILUTION FLOW CC/MIN	DILUTION SET	GAS FLOW CC/MIN	GAS SET
0.450	5000	**5.10**	75.38	**67.33**
0.200	5000	**5.10**	33.22	**30.30**
0.090	6000	**6.05**	17.87	**16.81**

INPUTS		
NO	SO2	CO
.450	0.438	0.0
.200	0.195	0.0
.090	0.088	0.0

GAS FLOW = (INPUT*DIL FLOW)/(TANK CONC.-INPUT)

FLOW SET = (FLOW-B)/M

FLOW(accm)= FLOW(sccm)/.8864

TECO 146 BIOS FLOW CALIBRATIONS

SITE:	Basin Electric		DATE:	07/11/2007		SERIAL NUMBER:	30141-237
FLOW STANDARD:		BIOS	MODEL:	DC-1 Rev. E	SN 1837	CAL.DATE:	1/15/2007
FLOW STANDARD:		BIOS	MODEL:	DC-MC-1 Rev E	SN 809	CAL.DATE:	1/15/2007
PRESS:	710.8	mmHg	DEG C:	21.5	TEMP:	294.65	DEG/K
CORR. FAC. (QA TO QSTD = 298/760 * PA/TA) =						0.9456	

	AIR FLOW METER					GAS FLOW METER				
	BIOS			PVA		BIOS			PVA	
		Y	X				Y	X		
	FLOW CC/M	FLOW STD/CCM	DISPLAY (AIR)	VOLTS		FLOW ACCM	FLOW STD/CCM	DISPLAY (GAS)	VOLTS	
200	1422	1345	1.68	0.739		12.50	11.8	11.6	0.636	150
400	3376	3192	3.38	1.570		27.00	25.5	23.5	1.261	300
500	4333	4097	4.25	1.992		46.29	43.8	39.4	2.090	500
600	5313	5024	5.12	2.410		55.90	52.9	47.5	2.511	600
700	6249	5909	5.97	2.815		65.13	61.6	55.3	2.928	700
800	7185	6794	6.80	3.226		74.72	70.7	63.3	3.335	800
	M=	1061.96				M=	1.1381			
	B=	-420.65				B=	-1.258			
	CORR=	0.999971				CORR=	0.999986			

'INPUTS WITH PREVIOUS SETTINGS

INPUT	ACTUAL	DELTA%
0.450	0.458	1.7%
0.200	0.202	0.9%
0.090	0.089	-0.6%

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NO/NOX/NO2 CALIBRATION

Network:	East Side Resource	**Site:**	Basin Electric	**Date:**	7/11/07		**Second Quarter 2007**
Instrument:	42C	***Station Calibrator:***	*TEI146*	***SN:***	*30141-237*	***Comments:***	
SN:	70181-365	**Cert. Date:**					
NO Coeff	**0.875**	**NO Bkg**	**6.9**	Air M=	1062.0	B=	-420.6
NOx Coeff	**0.995**	**NOX Bkg**	**7.0**	Gas M=	1.1	B=	-1.258
NO2 Coeff	**1.000**	**Samp Flw**	**0.702**	**DVM:**	Fluke 87V	**SN:**	90850057
Internal Temp	**37.0**	**NO2 Conv Set**	**325.0**	**Cert. Date:**	2/21/2007		
Cnv.Tmp	**323**	**Rct.Chmbr**	**49.1**	**Station Gas SN:**	JJ8896	**Conc:**	31.1
Cooler Temp	**-2.3**	**PMT Supply**	**-754**	**Cyl. Pressure:**	1000	**Exp Date:**	3/8/2009
						Tech:	TR
						QA Review:	

Station Calibrator Settings					Input (ppm)			System Responses						Percent Difference		
O_3 Setting	Gas Setting	Air Setting	Gas Flow ccm	Air Flow ccm	NO_x	NO_2	NO	NOx DAS (ppm)	NO2 DAS (ppm)	NO DAS (ppm)	NOx Response (chart %)	NO2 Response (chart %)	NO Response (volts)	NOx bias/ Δ%	NO2 bias/ Δ%	NO bias/ Δ%
n/a	n/a	5.10	0.0	5000	0.000	0.000	0.000	0.001	0.000	0.001	n/a	n/a	0.002	0.001	n/a	0.001
n/a	16.41	6.05	17.4	6000	0.090	0.000	0.090	0.088	-0.001	0.090	n/a	n/a	0.182	-2.2	n/a	0.0
n/a	29.54	5.10	32.4	5000	0.200	0.000	0.200	0.198	0.000	0.196	n/a	n/a	0.395	-1.0	n/a	-2.0
n/a	65.61	5.10	73.4	5000	0.450	0.000	0.450	0.456	-0.001	0.456	n/a	n/a	0.915	1.3	n/a	1.3
GPT Runs:																
500	65.61	5.10	73.4	5000	0.450	0.371	0.079	0.444	0.365	0.079	n/a	n/a	0.149	-1.3	-1.5	-0.6
360	65.61	5.10	73.4	5000	0.450	0.176	0.274	0.450	0.174	0.276	n/a	n/a	0.560	0.0	-1.0	0.7
300	65.61	5.10	73.4	5000	0.450	0.089	0.361	0.454	0.092	0.364	n/a	n/a	0.687	0.9	3.6	0.8
240	65.61	5.10	73.4	5000	0.450	0.029	0.421	0.455	0.031	0.424	n/a	n/a	0.849	1.1	6.4	0.8

Internal Ozone Dial

NO_2 converted to NO for each GPT run:	0.359	1.0138	0.9754	1.0118 **<=Slope**
	0.170	-0.0018	0.0035	-0.0014 **<=Intercept**
	0.087	0.9999	1.0000	0.9999 **<=R2**
	0.028			

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SO2 GAS DILUTION CALIBRATION

Network:	East Side Resource	**Site:**	Basin Electric	**Date:**	**7/11/2007**	**Calibration**	**Second Quarter 2007**

Instrument:	43A	**Calibrator:**	Teco 146 **SN:** 30141-237
SN:	29727-236	**Cert. Date:**	
	Initial **Final**	Air M=	1061.96 B= -420.65
Zero Set	**256**	Gas M=	1.138 B= -1.258
Span Set	**85**		
Flow	**0.4** LPM	**DVM:**	Fluke 87V **SN:** **90850057**
Vacuum	**19.5**	**Cert. Date:**	2/21/2007
Lamp Volts	**1032** (800-1200)	**Gas Cylinder SN:**	JJ8896 **Conc.:** 30.3
		Cylinder Pressure:	1000 **Exp Date:** 3/8/2009

Comments:

No adjustments made

Flows and Settings				Initial Results				Final Results			Delta %	
Gas Flow cc/m	Set	Air Flow L/M	Set	Input SO2	INITIAL DAS	Volt	Chart%	FINAL DAS	Volt	Chart%	Initial % Error	Final % Error
N/A	N/A	5000	**5.10**	**.000**	**0.001**	**0.000**	**na**			**na**	N/A	N/A
73.41	**65.6**	5000	**5.10**	**.438**	**0.441**	**0.882**	**na**			**na**	0.6%	-100.0%
32.36	**29.5**	5000	**5.10**	**.195**	**0.197**	**0.391**	**na**			**na**	1.1%	-100.0%
17.41	**16.4**	6000	**6.05**	**.088**	**0.089**	**0.177**	**na**			**na**	1.5%	-100.0%

Signature: _____

QA/QC: _____

M=	1.003280935	M=	#DIV/0!
B=	0.00122331	B=	#DIV/0!
Corr.=	1.00000	Corr.=	#DIV/0!

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FINAL OZONE CALIBRATION

Date:	7/11/2007	Network:	East Side Resource		Station:	Basin Electric	
Analyzer:	49C	SN	0517812012	OFFSET		SPAN	
Standard: 49TS		SN:	42429-267		Certification Date:	7/11/07	

STANDARD SETTING	STANDARD READING	STANDARD PPM	DATALOGGER READING	DATALOGGER PPM	DELTA %	DISPLAY PPM	CHART %	CHART PPM
OFF	-0.001	-0.001	0.000	0.000	NA	0.000		0.000
	-0.001		0.000			0.000		
	-0.001		0.000			0.000		
	0.000		0.000			0.000		
	-0.001		0.000			0.000		
AVG	-0.001		0.000			0.000		
Level 1	0.449	0.449	0.448	0.449	-0.1%	0.450		0.000
	0.449		0.449			0.450		
	0.449		0.449			0.450		
	0.449		0.448			0.450		
	0.449		0.449			0.450		
AVG	0.449		0.449			0.450		
Level 2 37.1%	0.177	0.176	0.175	0.175	-0.5%	0.175		0.000
	0.176		0.176			0.175		
	0.176		0.176			0.175		
	0.176		0.174			0.175		
	0.176		0.176			0.175		
AVG	0.176		0.175			0.175		
31.2%	0.092	0.092	0.091	0.091	-0.9%	0.091		0.000
	0.092		0.092			0.090		
	0.092		0.091			0.091		
	0.092		0.091			0.090		
	0.092		0.091			0.091		
AVG	0.0920		0.0912			0.091		

M= 0.998405388 B= 0.0000 CORR.= 0.999994

Frequency A	142796				
Frequency B	73095	Temp.	39.8	O3 Lamp	70.8
Flow A	0.661	Flow B	0.620	Bench Lamp Temp	56.5
Pressure	709.5 mm Hg				

COMMENTS

Tech: TR

QA/QC:

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OZONE STANDARDS COMPARISION

Date:	7/11/2007	**Network:**	EDAW			**Station:**	Basin Electric
In-Station:	49TS	**SN**	33799-248	**BKG**	0.0	**COEF**	1.010
Standard:	Teco 49C TS	**SN:**	42429-267			**Certfication Date:**	5/31/2007

AUDIT STANDARD			IN-STATION		DELTA	DISPLAY	CHART	
SETTING	READING	PPM	READING	PPM	%	PPM		
	0.455		0.448					
	0.454		0.447					
	0.456	**0.455**	0.449	**0.448**	**-1.5%**			
	0.455		0.447					
	0.454		0.448					
AVG	**0.455**		**0.448**					
	0.092		0.089					
	0.090		0.089					
	0.091	**0.091**	0.089	**0.089**	**-2.2%**			
	0.091		0.089					
	0.092		0.090					
AVG	**0.091**		**0.089**					

M= **1.013943112** B= **0.0007563** CORR.= **1.00000**

OZONATER SET					
PPM	na	**Frequency A**	NA	**Noise**	
SET:	na	**Frequency B**	NA	**Noise**	
		Flow A	NA	**Flow B**	NA
		Pressure	NA	**Temp.**	NA

COMMENTS

Comparison of both TS since one brought did not generate Ozone

Auditor: TR

QA Review: HS

ENSR | AECOM

Eppley Solar Radiation Calibration

Network: EDAW

Site: Basin

Date: 7/11/2007

Station Pyranometer SN: 17696

Cal Voltage Output: 12.18 μV/Wm²

Reference Pyranometer SN: 27937

Cal Voltage Output: 9.34 μV/Wm²

Technician: TR

Initial System Checks

SENSORS		Run #1	Run #2	Run #3	Average
Station Sensor m/V Output:		13.27	14.06	14.01	13.78
	W/m²:	1089	1154	1150	1131
Station DAS W/m² Output:		1148.0	1155.0	1157.0	1153
Reference Sensor m/V Output:		11.01	11.65	11.61	11.42
	W/m²:	1179	1247	1243	1223

Tolerance ± 4% of Standard between Average 3 and Average 5: -5.7%

Pyranometer Level: YES

Test Equipment

Instrument	Manufacturer	Model Number	Serial Number	Cal Date
Pyranometer	Eppley	8-48	27937	1/8/2007
DVM	Fluke	87	90850057	2/21/2007

Signature: TR

Q.C. Review:

ENSR | AECOM

HIGH VOLUME SAMPLER CALIBRATION

(VFC Type sampler)

PM-10

7/11/07

Sampling Network: **East Side Resource** **Site: Basin Electric**

Sampler:	#1	Orifice SN:	**9833620**		Barometric Pressure (mmhg):	**709.2**	=(Pa)
SN:	PM10	Calibration. Date	**4/25/7**		Seasonal Mean Pressure (mmhg):	**708.0**	=(Ps)
Man.	**Tisch**	M=	**0.9573**	C	14.8 Ambient Temp (K):	**288.0**	=(Ta)
		B=	**0.00492**		Seasonal Avg. Temp (K):	**293.1**	=(Ts)

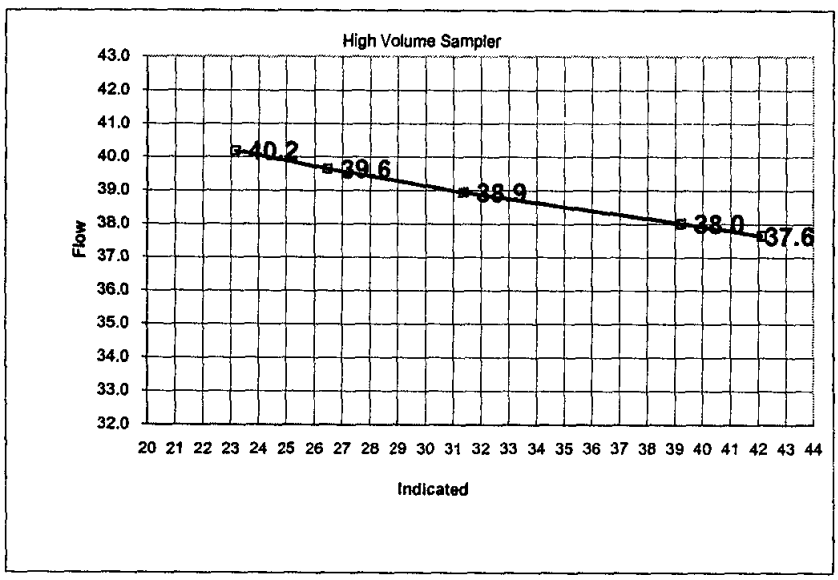
Reason for calibration= Quarterly calibration

ORIFICE FLOW						**INDICATED (I)**		
				Xaxis				**Yaxis**
Setting	Total H2O (in.H2O)	Qa M^3/min	Qa cfm	Qa $(Ta)^{1/2}$		Pstg (in.H2O)	P1=Pa-Pstg mm/hg	P1/Pa
1	**2.95**	**1.138**	40.2	0.0671		**23.16**	**665.88**	0.9389
2	**2.87**	**1.122**	39.6	0.0661		**26.49**	**659.65**	0.9302
3	**2.77**	**1.103**	38.9	0.0650		**31.37**	**650.53**	0.9173
4	**2.64**	**1.076**	38.0	0.0634		**39.23**	**635.83**	0.8966
5	**2.59**	**1.066**	37.6	0.0628		**42.13**	**630.41**	0.8889
Opertional Flow Rate-Qa		**1.153**	40.7			**18.5**	**674.58**	0.9512
Opertional Flow Rate-QaAVG		**1.164**	41.1			**18.5**	**673.39**	0.9511

QA(orifice) = [{(dH2O)(Ta/Pa))SQRT - B] / M

Sampler Calibration Relationship

M= **11.9519** B= **0.1388** Corr. **0.99814**



For calculation of sampler flow rate:

Qa = [(P1/Pa-B)($Ta^{1/2}$)] / M

QaAVG = [(P1/Pavg-B)($Tavg^{1/2}$)] / M

(Corrected to mean average conditions)

PM10 Flow 36acfm-44acfm

Technician TR

QC review

ENSR | AECOM

HIGH VOLUME SAMPLER CALIBRATION

(VFC Type sampler)

PM-10

7/11/07

Sampling Network: East Side Resource **Site:** Basin Electric

Sampler: #2	Orifice SN:	9833620		Barometric Pressure (mmhg):	709.4	=(Pa)
SN: PM10	Calibration. Date:	4/25/7		Seasonal Mean Pressure (mmhg):	708.0	=(Ps)
Man. Tisch	M=	0.9573	C 13.5	Ambient Temp (K):	286.7	=(Ta)
	B=	0.00492		Seasonal Avg. Temp (K):	293.1	=(Ts)

Reason for calibration= Quarterly calibration

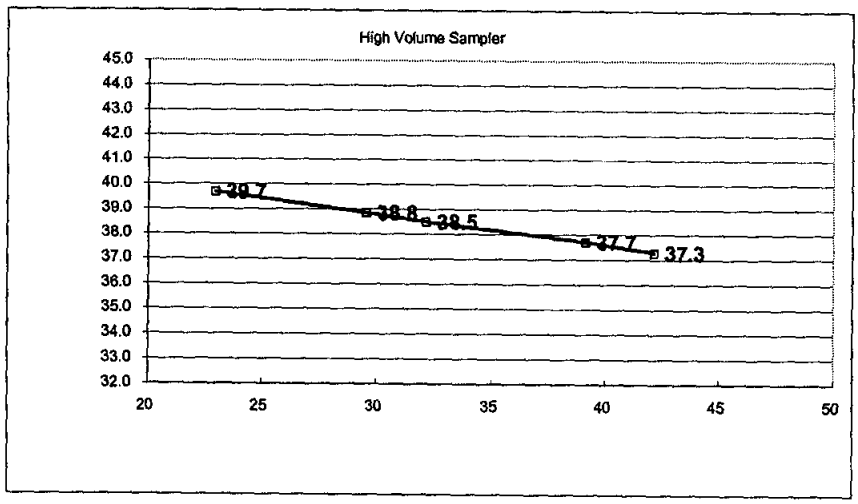
ORIFICE FLOW				Xaxis	INDICATED (I)		Yaxis
Setting	Total H2O (in.H2O)	Qa M^3/min	Qa cfm	Qa $(Ta)^{1/2}$	Pstg (in.H2O)	P1=Pa-Pstg mm/hg	P1/Pa
1	2.89	1.124	39.7	0.0664	22.96	666.46	0.9395
2	2.77	1.100	38.8	0.0650	29.55	654.14	0.9221
3	2.72	1.090	38.5	0.0644	32.15	649.28	0.9153
4	2.61	1.068	37.7	0.0631	39.14	636.21	0.8968
5	2.55	1.055	37.3	0.0623	42.14	630.60	0.8889
Opertional Flow Rate-Qa		1.140	40.2		18.35	675.09	0.9516
Opertional Flow Rate-QaAVG		1.152	40.7		18.35	673.69	0.9515

QA(orifice) = [{(dH2O)(Ta/Pa)}SQRT - B] / M

Sampler Calibration Relationship

M= **12.6624** B= **0.0994** Corr. **0.99948**

Seasonal temps @		
Quarter	C	K
Jan-Mar	10.7	283.9
Apr-Jun	23.2	296.4
Jul-Sep	29.7	302.9
Oct-Dec	13.0	286.2



For calculation of sampler flow rate:

Qa = [(P1/Pa-B)(Ta$^{1/2}$)] / M

QaAVG = [(P1/Pavg-B)(Tavg$^{1/2}$)] / M

(Corrected to mean average conditions)

PM10 Flow 36acfm-44acfm

Technician TR

QC review

ENSR INTERNATIONAL

HIGH VOLUME SAMPLER CALIBRATION
(VFC Type sampler)
PM-10

Sampling Network:	East Side Resource	**Site:** Basin Electric		Cal Date:	9/29/07@930	
Sampler:	#1	Orifice SN:	W95	Barometric Pressure (mmhg):	698.7	=(Pa)
SN:	PM10	Calibration. Date:	05/25/07	Seasonal Mean Pressure (mmhg):	708.0	=(Ps)
Man.	Tisch	M=	1.0561	C 22.6 Ambient Temp (K):	295.8	=(Ta)
		B=	-0.09464	Seasonal Avg. Temp (K):	293.1	=(Ts)

Temp K = 273.15+C

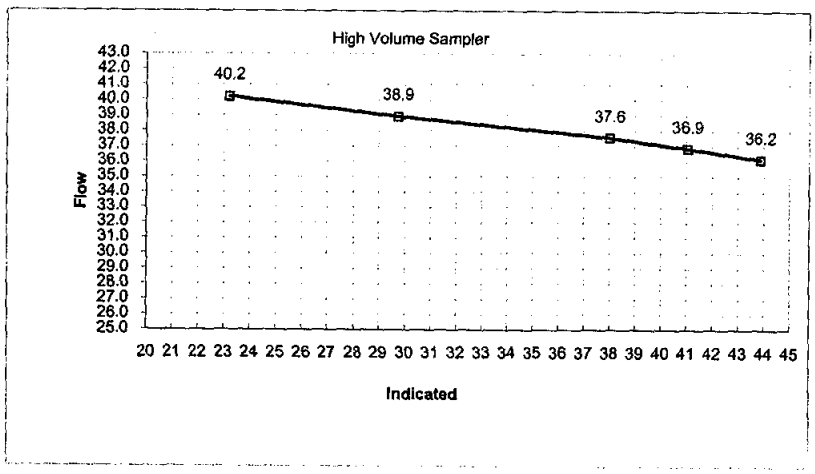
Reason for calibration= new motor

ORIFICE FLOW				Xaxis		INDICATED (I)		Yaxis		
Setting	Total H2O (in.H2O)	Qa M^3/min	Qa cfm	Qa $(Ta)^{1/2}$		Pstg (in.H2O)	P1=Pa-Pstg mm/hg	P1/Pa	Ave Temp C	
1	2.90	1.139	40.2	0.0662		23.22	655.28	0.9379	jan-mar	-5.8
2	2.70	1.102	38.9	0.0641		29.75	643.07	0.9204	apr-jun	13.0
3	2.50	1.064	37.6	0.0618		38.02	627.60	0.8982	jul-sep	19.9
4	2.40	1.044	36.9	0.0607		41.05	621.94	0.8901	oct-dec	-0.02
5	2.30	1.024	36.2	0.0595		43.88	616.64	0.8826		
Opertional Flow Rate-Qa		1.173	41.4			16.9	667.10	0.9548		
Opertional Flow Rate-QaAVG		1.168	41.2			16.9	676.40	0.9554		

QA(orifice) = [{(dH2O)(Ta/Pa)}SQRT - B] / M

Sampler Calibration Relationship

M=	8.5028	B=	0.3746	Corr.	0.99772



For calculation of sampler flow rate:
Qa = [(P1/Pa-B)(Ta$^{1/2}$)] / M
QaAVG = [(P1/Pavg-B)(Tavg$^{1/2}$)] / M
(Corrected to mean average conditions)
PM10 Flow 36acfm-44acfm

Technician BJ
QC review

ENSR INTERNATIONAL

HIGH VOLUME SAMPLER CALIBRATION
(VFC Type sampler)
PM-10

Sampling Network:	East Side Resource	**Site:** Basin Electric		Cal Date:	9/29/07@900		
Sampler:	#2	Orifice SN:	W95	Barometric Pressure (mmhg):		698.7	=(Pa)
SN:	PM10	Calibration. Date:	05/25/07	Seasonal Mean Pressure (mmhg):		708.0	=(Ps)
Man.	**Tisch**	M=	1.0561	C	22.6	Ambient Temp (K):	295.8 =(Ta)
		B=	-0.09464	Seasonal Avg. Temp (K):		293.1	=(Ts)

Temp K = 273.15+C

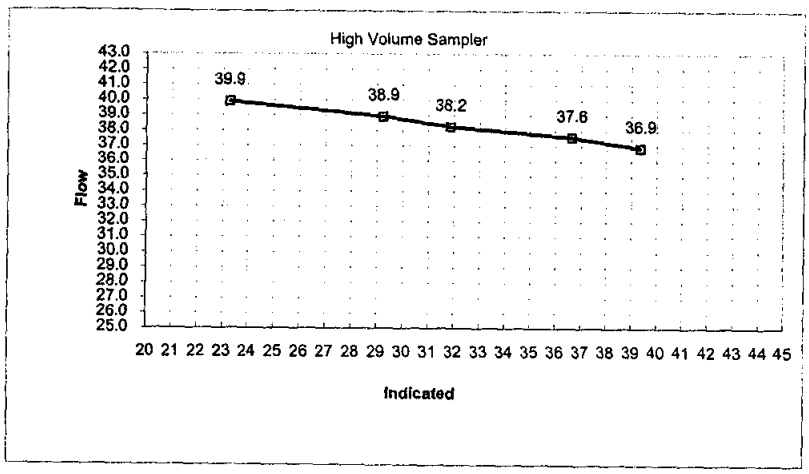
Reason for calibration= new motor

ORIFICE FLOW						INDICATED (I)				
				Xaxis				Yaxis		
Setting	Total H2O (in.H2O)	Qa M^3/min	Qa cfm	Qa (Ta)^1/2		Pstg (in.H2O)	P1=Pa-Pstg mm/hg	P1/Pa	Ave Temp C	
1	2.85	1.130	39.9	0.0657		23.27	655.19	0.9377	jan-mar	-5.8
2	2.70	1.102	38.9	0.0641		29.23	644.04	0.9218	apr-jun	13.0
3	2.60	1.083	38.2	0.0630		31.86	639.12	0.9147	jul-sep	19.9
4	2.50	1.064	37.6	0.0618		36.64	630.18	0.9019	oct-dec	-0.02
5	2.40	1.044	36.9	0.0607		39.35	625.12	0.8947		
Opertional Flow Rate-Qa		1.163	41.1			17.1	666.72	0.9542		
Opertional Flow Rate-QaAVG		1.158	40.9			17.1	676.02	0.9548		

QA(orifice) = [{(dH2O)(Ta/Pa)}SQRT - B] / M

Sampler Calibration Relationship

M=	8.7172	B=	0.3645	Corr.	0.99666



For calculation of sampler flow rate:
Qa = [(P1/Pa-B)(Ta$^{1/2}$)] / M
QaAVG = [(P1/Pavg-B)(Tavg$^{1/2}$)] / M
(Corrected to mean average conditions)
PM10 Flow 36acfm-44acfm

Technician BJ
QC review

ENSR INTERNATIONAL

PROCESSING FOR UNEXPOSED FILTERS

Quality Assurance Data

PROJECT:	Basin				DATE:	3/15/2007
FILTER BATCH:	1	PM_{10} ✠✠✠	TSP	DICHOT ☐	2.5 ☐	
		Please check box by hand, or highlight/shade filter type!				
AMOUNT:	46 FILTER NO:	000001	TO:	000045	LOT:	1851865

PRECONDITIONING

CHAMBER	DATE	TIME	RH% +/-5%	TEMP +/- 5.4°F	COMMENTS
START DAY:	3/15/2007	800	34	70.3	
STOP DAY:	3/20/2007	1000	31.2	70.1	

RH range 20-45%, Temperature range 59°F - 77°F

GRAVIMETRIC ANALYSIS

DATE: 3/20/2007	Start-Stop:	1000	RH%	31.2	TEMP (°F):	70.1
BALANCE SN:	SA2901048					

BALANCE ZERO*	DRIFT +	DRIFT ZERO	DRIFT -	REZERO YES	REZERO NO	PRIOR TO FILTER NUMBER
1				Yes		000001
2				Yes		000011
3				Yes		000021
4				Yes		000031
5				Yes		000041
6						
7						
8						
9						

**Check balance zero after 10 filters*

QUALITY ASSURANCE AUDIT

DATE:	3/20/2007	TIME:	1100	RH (%):	31.7 TEMP (°F): 70.2
BALANCE SN:	SA2901048		INITIAL ZERO:		

FILTER NUMBER:	INITIAL WEIGHT (GRAMS)	AUDIT WEIGHT (GRAMS)	ERROR* (GRAMS)	(<0.0028g)
000003	4.6388	4.6391	-0.0003	OK
000012	4.6664	4.6672	-0.0008	OK
000023	4.6780	4.6779	0.0001	OK
000036	4.3448	4.3451	-0.0003	OK
000042	4.3360	4.3358	0.0002	OK
				OK
				OK
				OK
				OK
				OK

** If error for any audit filter is greater than 0.0028 grams, then the entire batch should be re-weighed.*

Certified for use by:	Roger Thompson	Date:	3/20/2007

ENSR INTERNATIONAL

PROCESSING FOR EXPOSED FILTERS

Quality Assurance Data

PROJECT:	Basin				DATE:	8/8/2007
FILTER BATCH:	1	PM_{10} ☒	TSP ☐	DICHOT ☐	2.5 ☐	
		Please check box by hand, or highlight/shade filter type!				
AMOUNT:	11	FILTER NO:	35	TO:	45	LOT:

PRECONDITIONING

CHAMBER	DATE	TIME	RH% +/-5%	TEMP +/- 5.4°F	COMMENTS
START DAY:	8/6/2007	1300	34.7	74.6	
STOP DAY:	8/8/2007	1100	37.3	75.6	

RH range 20-45%, Temperature range 59°F - 77°F

GRAVIMETRIC ANALYSIS

DATE:	Time:	Start-Stop:	1100	RH%	37.3	TEMP (°F): 75.6
BALANCE SN:		SA2901048				

BALANCE ZERO*	DRIFT +	ZERO	-	REZERO YES	NO	PRIOR TO FILTER NUMBER
1				Yes		35
2				Yes		45
3						
4						
5						
6						
7						
8						

**Check balance zero after 10 filters*

QUALITY ASSURANCE AUDIT

DATE:	8/8/2007	TIME:	1130	RH (%): 37.9	TEMP (°F): 75.9
BALANCE SN:	SA2901048		INITIAL ZERO: ok		

NUMBER:	(GRAMS)	(GRAMS)	(GRAMS)	(<0.0050g)
35	4.3745	4.3747	-0.0002	OK
38	4.3657	4.3659	-0.0002	OK
41	4.3722	4.3723	-0.0001	OK
43	4.3726	4.3729	-0.0003	OK
45	4.3631	4.3635	-0.0004	OK
				OK
				OK
				OK
				OK
				OK

** If error for any audit filter is greater than 0.0050 grams, then the entire batch should be re-weighed.*

Certified for use by:	Roger Thompson	Date:	8/8/2007

ENSR INTERNATIONAL

FILTER LOG

BALANCE SN: SA2901048 **BATCH #:** 1 **JOB #:** Basin

	FILTER NUMBER	TARE WEIGHT	DATE	FINAL WEIGHT	DATE	COMMENTS
1	000001	4.639	3/20/2007	4.6398	5/16/2007	
2	000002	4.6366	3/20/2007	4.6375	5/16/2007	
3	000003	4.6388	3/20/2007			
4	000004	4.6642	3/20/2007			
5	000005	4.6419	3/20/2007	4.6510	5/16/2007	
6	000006	4.6411	3/20/2007	4.6501	5/16/2007	
7	000007	4.6589	3/20/2007	4.6730	5/16/2007	
8	000008	4.6618	3/20/2007	4.6777	5/16/2007	
9	000009	4.6603	3/20/2007	4.6796	5/16/2007	
10	000010	4.6727	3/20/2007	4.6932	5/16/2007	
11	000011	4.6759	3/20/2007	4.6914	5/16/2007	
12	000012	4.6664	3/20/2007	4.68	5/16/2007	
13	000013	4.6678	3/20/2007	4.7092	5/16/2007	
14	000014	4.6661	3/20/2007	4.7069	5/16/2007	
15	000015	4.6595	3/20/2007	4.6813	6/8/2007	
16	000016	4.6537	3/20/2007	4.6763	6/8/2007	
17	000017	4.6631	3/20/2007	4.7111	6/8/2007	
18	000018	4.6637	3/20/2007	4.7118	6/8/2007	
19	000019	4.6716	3/20/2007	4.7276	6/8/2007	
20	000020	4.6779	3/20/2007	4.7268	6/8/2007	
21	000021	4.6771	3/20/2007	4.6872	6/8/2007	
22	000022	4.6607	3/20/2007	4.6704	6/8/2007	
23	000023	4.6780	3/20/2007	4.6902	6/8/2007	
24	000024	4.6788	3/20/2007	4.6907	6/8/2007	
25	000025	4.6587	3/20/2007	4.6917	7/19/2007	
26	000026	4.3718	3/20/2007	4.4036	7/19/2007	
27	000027	4.3604	3/20/2007	4.3979	7/19/2007	
28	000028	4.3665	3/20/2007	4.4062	7/19/2007	
29	000029	4.3576	3/20/2007	4.4029	7/19/2007	
30	000030	4.3559	3/20/2007	4.4019	7/19/2007	
31	000031	4.3542	3/20/2007	4.3794	7/19/2007	
32	000032	4.3469	3/20/2007	4.3736	7/19/2007	
33	000033	4.3466	3/20/2007	4.3886	7/19/2007	
34	000034	4.348	3/20/2007	4.3975	7/19/2007	
35	000035	4.3432	3/20/2007	4.3745	8/8/2007	

ENSR INTERNATIONAL

FILTER LOG

BALANCE SN: SA2901048 **BATCH #:** 1 **JOB #:** Basin

	FILTER NUMBER	TARE WEIGHT	DATE	FINAL WEIGHT	DATE	COMMENTS
1	000036	4.3448	3/20/2007	4.3728	8/8/2007	
2	000037	4.3439	3/20/2007	4.3754	8/8/2007	
3	000038	4.3368	3/20/2007	4.3657	8/8/2007	
4	000039	4.3478	3/20/2007	4.3549	8/8/2007	VOID/(USED for Calibration)
5	000040	4.3331	3/20/2007	4.3776	8/8/2007	
6	000041	4.3309	3/20/2007	4.3722	8/8/2007	
7	000042	4.336	3/20/2007	4.3848	8/8/2007	
8	000043	4.3302	3/20/2007	4.3726	8/8/2007	
9	000044	4.3304	3/20/2007	4.3619	8/8/2007	
10	000045	4.3325	3/20/2007	4.3631	8/8/2007	
11						
12						
13						
14						
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ENSR INTERNATIONAL

PROCESSING FOR UNEXPOSED FILTERS

Quality Assurance Data

PROJECT:	Basin					DATE:	6/29/2007
FILTER BATCH:	2	PM_{10} ☒☒☒	TSP	DICHOT ☐	2.5 ☐		
		Please check box by hand, or highlight/shade filter type!					
AMOUNT:	49	FILTER NO:	000046	TO:	000094	LOT:	1881350

PRECONDITIONING

CHAMBER	DATE	TIME	RH% +/-5%	TEMP +/- 5.4°F	COMMENTS
START DAY:	6/27/2007	1200	36.8	74.1	
STOP DAY:	6/29/2007	1400	33.7	74.5	

RH range 20-45%, Temperature range 59°F - 77°F

GRAVIMETRIC ANALYSIS

DATE:	Start-Stop:	1400	RH%	33.7	TEMP (°F):	74.5
BALANCE SN:	SA2901048					

BALANCE ZERO*	DRIFT +	ZERO	-	REZERO YES	NO	PRIOR TO FILTER NUMBER
1				Yes		000046
2				Yes		000056
3				Yes		000066
4				Yes		000076
5				Yes		000086
6						
7						
8						
9						

**Check balance zero after 10 filters*

QUALITY ASSURANCE AUDIT

DATE:	6/29/2007	TIME:	1500	RH (%):	33.9 TEMP (°F): 75.1
BALANCE SN:	SA2901048		INITIAL ZERO: ok		

FILTER NUMBER:	INITIAL WEIGHT (GRAMS)	AUDIT WEIGHT (GRAMS)	ERROR* (GRAMS)	(<0.0028g)
000047	4.5825	4.5823	0.0002	OK
000059	4.5335	4.5332	0.0003	OK
000068	4.4937	4.4935	0.0002	OK
000081	4.5614	4.5613	0.0001	OK
000090	4.5405	4.5401	0.0004	OK
				OK
				OK
				OK
				OK
				OK

** If error for any audit filter is greater than 0.0028 grams, then the entire batch should be re-weighed.*

Certified for use by:	Roger Thompson	Date:	6/29/2007

ENSR INTERNATIONAL

PROCESSING FOR EXPOSED FILTERS

Quality Assurance Data

PROJECT:	Basin				DATE:	9/8/2007
FILTER BATCH:	2	PM_{10} ☒	TSP ☐	DICHOT ☐	2.5 ☐	
		Please check box by hand, or highlight/shade filter type!				
AMOUNT:	9 FILTER NO:	46	TO:	55	LOT:	

PRECONDITIONING

CHAMBER	DATE	TIME	RH% +/-5%	TEMP +/- 5.4°F	COMMENTS
START DAY:	9/6/2007	1030	35.6	75.9	
STOP DAY:	9/8/2007	1020	35.3	76	

RH range 20-45%, Temperature range 59°F - 77°F

GRAVIMETRIC ANALYSIS

DATE:	Time: Start-Stop:	1020	RH%	35.3	TEMP (°F):	76
BALANCE SN:	SA2901048					

BALANCE ZERO*	DRIFT +	ZERO	-	REZERO YES	NO	PRIOR TO FILTER NUMBER
1				Yes		46
2						
3						
4						
5						
6						
7						
8						

**Check balance zero after 10 filters*

QUALITY ASSURANCE AUDIT

DATE:	9/8/2007	TIME:	1100	RH (%):	74.7 TEMP (°F): 75.4
BALANCE SN:	SA2901048		INITIAL ZERO:		

FILTER NUMBER:	INITIAL WEIGHT (GRAMS)	AUDIT WEIGHT (GRAMS)	ERROR* (GRAMS)	(<0.0050g)
46	4.5622	4.5623	-0.0001	OK
48	4.6058	4.6060	-0.0002	OK
51	4.5837	4.5839	-0.0002	OK
53	4.5898	4.5896	0.0002	OK
55	4.5791	4.5792	-0.0001	OK
				OK
				OK
				OK
				OK
				OK

** If error for any audit filter is greater than 0.0050 grams, then the entire batch should be re-weighed.*

Certified for use by:	Roger Thompson	Date:	9/8/2007

ENSR INTERNATIONAL

PROCESSING FOR EXPOSED FILTERS

Quality Assurance Data

PROJECT:	Basin				DATE:	10/5/2007
FILTER BATCH:	2	PM_{10} ☒	TSP ☐	DICHOT ☐	2.5 ☐	
		Please check box by hand, or highlight/shade filter type!				
AMOUNT:	10 FILTER NO:	56	TO:	65	LOT:	

PRECONDITIONING

CHAMBER	DATE	TIME	RH% +/-5%	TEMP +/- 5.4°F	COMMENTS
START DAY:	10/3/2007	800	36.5	70.3	
STOP DAY:	10/5/2007	920	31.2	71.5	

RH range 20-45%, Temperature range 59°F - 77°F

GRAVIMETRIC ANALYSIS

DATE:	Time: Start-Stop:	920	RH%	31.2	TEMP (°F):	71.5
BALANCE SN:	SA2901048					

BALANCE ZERO*	DRIFT +	ZERO	-	REZERO YES	NO	PRIOR TO FILTER NUMBER
1				Yes		65
2						
3						
4						
5						
6						
7						
8						

**Check balance zero after 10 filters*

QUALITY ASSURANCE AUDIT

DATE:	10/5/2007	TIME:	1000	RH (%):	33.7	TEMP (°F): 72.4
BALANCE SN:	SA2901048		INITIAL ZERO:			

FILTER NUMBER:	INITIAL WEIGHT (GRAMS)	AUDIT WEIGHT (GRAMS)	ERROR* (GRAMS)	(<0.0050g)
56	4.5509	4.5510	-0.0001	OK
58	4.5831	4.5835	-0.0004	OK
59	4.5417	4.5422	-0.0005	OK
62	4.6014	4.6018	-0.0004	OK
64	4.5707	4.5709	-0.0002	OK
				OK
				OK
				OK
				OK
				OK

** If error for any audit filter is greater than 0.0050 grams, then the entire batch should be re-weighed.*

Certified for use by:	Roger Thompson	Date:	10/5/2007

ENSR INTERNATIONAL

FILTER LOG

BALANCE SN: SA2901048 **BATCH #:** 1 **JOB #:** Basin

	FILTER NUMBER	TARE WEIGHT	DATE	FINAL WEIGHT	DATE	COMMENTS
1	000046	4.5441	6/29/2007	4.5622	9/8/2007	
2	000047	4.5825	6/29/2007	4.6011	9/8/2007	
3	000048	4.5711	6/29/2007	4.6058	9/8/2007	
4	000049	4.5403	6/29/2007	4.5784	9/8/2007	
5	000050	4.5708	6/29/2007	4.6043	9/8/2007	
6	000051	4.5476	6/29/2007	4.5837	9/8/2007	
7	000052	4.5119	6/29/2007	4.5421	9/8/2007	
8	000053	4.5591	6/29/2007	4.5898	9/8/2007	
9	000054	4.5554	6/29/2007	4.5730	9/8/2007	
10	000055	4.5599	6/29/2007	4.5791	9/8/2007	
11	000056	4.5143	6/29/2007	4.5509	10/5/2007	
12	000057	4.5955	6/29/2007	4.6305	10/5/2007	
13	000058	4.5752	6/29/2007	4.5831	10/5/2007	
14	000059	4.5335	6/29/2007	4.5417	10/5/2007	
15	000060	4.5601	6/29/2007	4.5910	10/5/2007	
16	000061	4.5774	6/29/2007	4.6062	10/5/2007	
17	000062	4.5744	6/29/2007	4.6014	10/5/2007	
18	000063	4.5623	6/29/2007	4.5881	10/5/2007	
19	000064	4.5571	6/29/2007	4.5707	10/5/2007	
20	000065	4.5612	6/29/2007	4.5639	10/5/2007	Invalid/Motor Failed
21	000066	4.5834	6/29/2007			
22	000067	4.5708	6/29/2007			
23	000068	4.4937	6/29/2007			
24	000069	4.5658	6/29/2007			
25	000070	4.5464	6/29/2007			
26	000071	4.5379	6/29/2007			
27	000072	4.5394	6/29/2007			
28	000073	4.5412	6/29/2007			
29	000074	4.5526	6/29/2007			
30	000075	4.5502	6/29/2007			
31	000076	4.4805	6/29/2007			
32	000077	4.559	6/29/2007			
33	000078	4.5722	6/29/2007			
34	000079	4.5432	6/29/2007			
35	000080	4.5412	6/29/2007			

Service Performed On
6 SEPT 2007

CBS INC.

Date of Issuance
13 SEPT 2007

This Certificate verifies that the following balances belonging to

ENSR AIR RESOURCES

have been serviced by **Jeff Roy** an authorized service representative of Certified Balance Service and were found to be within manufacturers specifications.

They were checked by weight set(s) **K-02**

Certified by the Colorado Bureau of Weights and Measures, on **12/14/2005**

and were found to be within specification and TRACEABLE TO NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST), WASHINGTON, D.C.

MANUFACTURER	MODEL #	SERIAL or ID #	DEPARTMENT	WEIGHT SET	RECERT DATE
SARTORIUS	2432	SA 2901048		K-02	03/06/2008

Jeff Roy

Service Technician's Signature

Purchase Order #
VERBAL

Certificate ID #
1121

The above work has been performed in accordance with the CBS Quality Assurance Program's most recent revision.

Service Performed On
12 MAR 2007

CBS INC.

Date of Issuance
14 MAR 2007

This Certificate verifies that the following balances belonging to

ENSR - AIR RESOURCES

have been serviced by **Jeff Roy** an authorized service representative of Certified Balance Service and were found to be within manufacturers specifications.

They were checked by weight set(s) **K-02**

Certified by the Colorado Bureau of Weights and Measures, on **12/14/2005**

and were found to be within specification and TRACEABLE TO NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST), WASHINGTON, D.C.

MANUFACTURER	MODEL #	SERIAL or ID #	DEPARTMENT	WEIGHT SET	RECERT DATE
SARTORIUS	2432	SA 2901048		K-02	03/12/2007

Jeff Roy

Service Technician's Signature

Purchase Order #
VERBAL

Certificate ID #
662

The above work has been performed in accordance with the CBS Quality Assurance Program's most recent revision.

Oklahoma Bureau of Standards

Okla Dept of Agriculture, Food, and Forestry
2800 N. Lincoln Blvd.
Oklahoma City, Oklahoma 73105-4298
TEL (405) 522-5459
FAX (405) 522-5461
www.oda.state.ok.us

Certificate of Calibration

ENSR
1601 Prospect Parkway
Ft. Collins, Colorado

Test No. OBS 07-0754

Lab Environmental Conditions
Temperature (oC): 20.9
Pressure (mmHg): 730.7
Humidity (%): 65.9

Manufacturer: Denver Instruments
Identification: See Below
Tolerance: ANSI/ASTM E617 Class 2

This document is to certify that the (3) physical standards described below were on this day compared to the standards of the State of Oklahoma which are traceable to the National Institute of Standards and Technology. The conventional mass value is the weight in normal air (1.2 mg/cm3) at 20 C versus a reference density of 8.0 g/cm3. Tolerances are evaluated using the conventional mass values. Magnetism screening was not conducted and is not represented in the uncertainty budget. The expanded uncertainty, using NIST Technical Note 1297 as a guide, is obtained by summing in quadrature the Type A and Type B components and using a k-factor of 2. A detailed explanation of the expanded uncertainty is given on the reverse side of this certificate. This Certificate shall not be reproduced, except in full, without the written approval of the Bureau of Standards. Test procedures are OBS SOP 18 (3-1) and/or OBS SOP 17 (double substitution). This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP or any other government agency. NVLAP Lab Code: 200396-0. [c-120]

Nominal Value	Conventional Mass Value (grams)	Assumed Density (g/cm^3)	Tolerance (in/out)	Uncertainty of Mass Values (milligrams) k=2	Class 2 Tolerance (milligrams)	Mass in Vacuum Value (grams)
5 g 96-J30786-2	5.0000072	7.85	IN	0.0046	0.0540	5.0000215
2 g 99-J40360-9	1.9999724	7.85	IN	0.0033	0.0540	1.9999781
2.g J20159	1.9999859	7.85	IN	0.0033	0.0540	1.9999916

The above listed conventional mass values (except those marked as "out") meet the tolerance for Class 2. No weights were adjusted, the above values are 'As Received' and 'As Left'.

Date of Test: May 7, 2007

Richard Gonzales , Metrologist

Software Version: MassII v11.04 7May07.xls

The Expanded Uncertainties are calculated in the following manner with the listed conditions: The systematic error is calculated as the absolute difference between the observed Msc value and the control Msc value, and the portion that exceeds 1 sd of the pooled Msc values is designated as u_{sys}. This uncertainty component, u_{sys}, along with the other standard uncertainty components are summed in quadrature then multiplied times the k-factor to obtain the Expanded Uncertainty. Type A uncertainty components are designated by a lower case s and type B by lower case u.

Conditions: These include the environmental conditions with their associated uncertainties and density characteristics for the test weight (X) and the standard (S) and their associated uncertainty and also the degrees of freedom associated with the standard deivation of the process, s_p.

Below, there are two uncertainties quoted for each standard, the first labeled 'Vacuum' and the second labeled 'Normal Air'. These uncertainties are associated with the environment in which the standards are used, i.e. if the standard is used in a vacuum then the 'Vacuum Uncertainty' should be used, if the standard is used in air then the 'Normal Air Uncertainty' should be used. The uncertainty quoted on the front of this calibration certificate is the 'Normal Air Uncertainty'.

Nominal	U_{sys} Obs-Con Msc (ug)	U_t Balance Temp (ug)	U_p Barometer (ug)	U_{rh} Humidity (ug)	U_{rhox} Rho X (ug)	U_{rhos} Rho S (ug)	U_s S (ug)	S_p Balance (ug)	K-factor	Expanded Uncertainty (ug)	
conditions		21.781 ±2.002	730.65 ±0.28	65.92 ±5.01	7.850 ±0.100	8.000 ±0.010		d.f. = 10			
5 g 96-J30786-2	0.036	0.069	0.004	0.038	6.186	0.596	1.919	1.071	2	13.185	Vacuum
	0.036	0.069	0.004	0.038	0.307	0.596	1.919	1.071	2	4.597	Normal Air
conditions		21.781 ±2.002	730.65 ±0.28	65.92 ±5.01	7.850 ±0.100	8.000 ±0.010		d.f. = 10			
2 g 99-J40360-9	0.435	0.028	0.001	0.015	2.474	0.238	1.143	1.065	2	5.936	Vacuum
	0.435	0.028	0.001	0.015	0.123	0.238	1.143	1.065	2	3.288	Normal Air
conditions		21.781 ±2.002	730.65 ±0.28	65.92 ±5.01	7.850 ±0.100	8.000 ±0.010		d.f. = 10			
2 g J20159	0.435	0.028	0.001	0.015	2.474	0.238	1.143	1.065	2	5.936	Vacuum
	0.435	0.028	0.001	0.015	0.123	0.238	1.143	1.065	2	3.288	Normal Air

OBS Test# 07-0754

Colorado Department of Agriculture
Inspection and Consumer Services Division
Measurement Standards Section
Metrology Laboratory
3125 Wyandot Street
Denver, CO 80211-3824
(303) 477-4220; FAX (303) 477-4248

CERTIFICATE # 06-247

Date Certified: May 8, 2006

Owner/User: ENSR Corporation
Address: 1601 Prospect Parkway, Fort Collins CO 80525
Submitted by: Henry Sofai

Serial No.: 48885 thru 48887
Manufacturer: Denver Instrument & Troemner
Item(s) Certified: Class 2, 5 g & 2 g Weights

Certificate expiration: Certificate expiration to be determined by owner using the procedures in the National Conference Laboratories International Recommended Practice RP-1, Establishment and Adjustment of calibration intervals.

Method and Traceability:
The procedure used by this laboratory is National Institute of Standards and Technology *(NIST) Handbook 145*, Standard Operating Procedure (SOP) 4, Weighing by Double Substitution. Standards used for comparison are traceable to the National Institute of Standards and Technology and are part of a comprehensive measurement assurance program for ensuring continued accuracy and traceability within the level of uncertainty reported by this laboratory. Traceability to National Standards is through the certificate number and date, above.

Laboratory Conditions:
The laboratory is monitored and maintained at 20°C to 23°C at a set point ± 2°C with maximum change 1°C/hour, with relative humidity controlled at 40% to 60% ± 10%. Measurement data is retained for buoyancy corrections, which are made to correct mass values to conventional reference conditions, if the standard and calibration item are different densities; measurements are not made when conditions deviate from those stated.

Uncertainty Statement:
The uncertainty conforms to the International Organization for Standardization (ISO) *Guide to the Expressions of Uncertainty in Measurement.* Uncertainty is based on a coverage factor, K=2, for an approximate 95 percent level of uncertainty. Uncertainty components include standard deviations, uncertainty of the standard, and any environmental corrections. The reported uncertainty exceeds the 3:1 ratio required by NIST hb 44, Appendix A, para 3.2.

Magnetism was not included in the uncertainty analysis; magnetism is a specification accounted for at the time of weight manufacture.

Explanation of Values listed in the Table on page 2:

Conventional Mass:
The value listed is a correction and must be algebraically added to the listed nominal value in order to determine the actual value. The value was computed using air buoyancy corrections, referenced to a laboratory standard air density of 1.2 mg/cm^3.
The "As Found" value is the error existing prior to adjustment, if necessary. The adjustment point is equivalent to the specification tolerance minus the reported uncertainty of the measurement. The "As Left" value is the in-tolerance value to which the item was adjusted, if necessary.

This certificate meets the requirements of ISO Guide 17025.

Metrologist performing calibration: Jennifer A. Oznoff

Diane C. Wise, Lead Metrologist

MS Invoice # 0922

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Client must not use this document to claim product endorsement by this laboratory.

ENSR Corporation
Certificate #: 06-247
Serial #: 48885 thru 48887
Date: May 8, 2006

Table

Serial Number	Mfr.	Nominal Value (g)	Conventional Mass Correction (mg)	Tolerance (± mg)	Uncertainty (± mg)
48885	Denver Instrument	5	- 0.04452	0.054	0.00422
48886	Troemner	5	- 0.03034	"	"
48887	Troemner	2	- 0.02208	"	0.00347

Supplemental Information:

All items were left "as found", no adjustments were made.

Condition of items upon receipt: The items were in good condition for the type and Class.

Weight S/N # 48885 was changed from 94-061458 permanently.

Standards and equipment used for testing:

Balance	Range	Standards Used
Mettler UMT6	0 g – 6 g	96-110696

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ENSR

BALANCE CHECKS

Balance SN. SA2901048 **Date** 2-15-07 **to** 4-5-07

Date	STANDARD SN	WEIGHT	MEAS.	ERROR (+/-) 0.5MG	TIME	COMMENTS
2-15-07	48887	2.0L	2.0000	0.0000	0930	DH
	48887	2.0H	2.0000	0.0000		
	48886	5.0L	5.0000	0.0000		
	48886	5.0H	5.0000	0.0000		
2-22-07	48887	2.0L	2.0000	0.0000	0500	DH
	48887	2.0H	2.0000	0.0000		
	48886	5.0L	5.0000	0.0000		
	48886	5.0H	5.0000	0.0000		
3-2-07	48887	2.0L	1.9999	+0.0001	0600	DH
	48887	2.0H	2.0000	0.0000		
	48886	5.0L	5.0000	0.0000		
	48886	5.0H	5.0000	0.0000		
3-12-07	48887	2.0L	2.0000	0.0000	1000	DH
	48887	2.0H	2.0000	0.0000		
	48886	5.0L	4.9999	0.0001		
	48886	5.0H	5.0000	0.0000		
3-13-07	48887	2.0L	2.0000	0.0000	1300	DH
	48887	2.0H	2.0000	0.0000		
	48886	5.0L	5.0000	0.0000		
	48886	5.0H	5.0000	0.0000		
3-14-07	48887	2.0L	2.0000	0.0000	1000	DH
	48887	2.0H	2.0000	0.0000		
	48886	5.0L	5.0000	0.0000		
	48886	5.0H	5.0000	0.0000		
3-15-07	48887	2.0L	2.0000	0.0000	1000	DH
	48887	2.0H	2.0000	0.0000		
	48886	5.0L	5.0000	0.0000		
	48886	5.0H	5.0000	0.0000		
3-20-07	48887	2.0L	2.0000	0.0000	1000	DH
	48887	2.0H	2.0000	0.0000		
	48886	5.0L	5.0000	0.0000		
	48886	5.0H	5.0000	0.0000		
3-28-07	48887	2.0L	2.0000	0.0000	0600	DH
	48887	2.0H	2.0000	0.0000		
	48886	5.0L	5.0000	0.0000		
	48886	5.0H	5.0000	0.0000		
3-30-07	48887	2.0L	1.9999	-0.0001	1000	DH
	48887	2.0H	2.0000	0.0000		
	48886	5.0L	4.9999	0.0001		
	48886	5.0H	5.0000	0.0000		
4-5-07	48887	2.0L	2.0000	0.0000	0800	DH
	48887	2.0H	2.0000	0.0000		
	48886	5.0L	4.9999	0.0001		
	48886	5.0H	5.0000	0.0000		

ENSR

BALANCE CHECKS

Balance SN. SA2901048 **Date** 6-13-07 **to** 8-1-07

Date	STANDARD SN	WEIGHT	MEAS.	ERROR (+/-) 0.5MG	TIME	COMMENTS
6-13-07	J20159	2.0L	2.0000	0.0000	1300	DH
	J20159	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	96-J30786-2	5.0H	5.0000	0.0000		
6-14-07	J20159	2.0L	2.0000	0.0000	1300	DH
	J20159	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	96-J30786-2	5.0H	5.0000	0.0000		
6-15-07	J20159	2.0L	2.0000	0.0000	0900	DH
	J20159	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	4.9999	0.0001		
	96-J30786-2	5.0H	5.0000	0.0000		
6-20-07	J20159	2.0L	2.0000	0.0000	0900	DH
	J20159	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	96-J30786-2	5.0H	5.0000	0.0000		
6-29-07	J20159	2.0L	2.0000	0.0000	0530	DH
	J20159	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	96-J30786-2	5.0H	5.0000	0.0000		
6-30-07	J20159	2.0L	2.0000	0.0000	0700	DH
	J20159	2.0H	2.0000	0.0000		
	96 J30786-2	5.0L	5.0000	0.0000		
	96-J30786-2	5.0H	5.0000	0.0000		
7-9-07	J20159	2.0H	2.0000	00000	0900	RLT
	"	2.0L	2.0000	00000		
	96 J30786-2	5.0H	5.0000	00000		
	"	5.0L	5.0000	00000		
7-11-07	J20159	2.0L	2.0000	0.0000	1230	DH
	"	2.0H	2.0000	0.0000		
	96J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
7-13-07	J20159	2.0L	2.0000	0.0000	0600	DH
	"	2.0H	2.0000	0.0000		
	96J307862	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
7-19-07	J20159	2.0L	2.0000	0.0000	1000	DH
	"	2.0H	2.0000	0.0000		
	96J307862	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
8-1-07	J20159	2.0L	2.0000	0.0000	1300	DH
	"	2.0H	2.0000	0.0000		
	96J307862	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		

ENSR

BALANCE CHECKS

Balance SN. SA2901048 **Date** 8-3-07 **to** 9-27-07

Date	STANDARD SN	WEIGHT	MEAS.	ERROR (+/-) 0.5MG	TIME	COMMENTS
8-3-07	J20159	2.0L	2.0000	0.0000	1100	DH
	"	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
8-8-07	J20159	2.0L	2.0000	0.0000	1100	DH
	"	2.0H	2.0000	0.0000		
	96J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
8-10-07	J20159	2.0L	2.0000	0.0000	1030	DH
	"	2.0H	2.0000	0.0000		
	96J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
8-15-07	J20159	2.0L	2.0000	0.0000	1300	DH
	"	2.0H	2.0000	0.0000		
	96J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
8-22-07	J20159	2.0L	2.0000	0.0000	0500	DH
	"	2.0H	2.0000	0.0000		
	96J307862	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
8-24-07	J20159	2.0L	2.0000	0.0000	0800	DH
	"	2.0H	2.0000	0.0000		
	96J307862	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
8-28-07	J20159	2.0L	2.0000	0.0000	1100	DH
	"	2.0H	2.0000	0.0000		
	96J3078662	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
9-5-07	J20159	2.0L	2.0000	0.0000	1500	DH
	"	2.0H	2.0000	0.0000		
	96J3078662	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
9-7-07	J20159	2.0L	2.0000	0.0000	1300	DH
	"	2.0H	2.0000	0.0000		
	96J3078662	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
9-8-07	J20159	2.0L	2.0000	0.0000	0730	DH
	"	2.0H	2.0000	0.0000		
	96J3078662	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
9-27-07	J20159	2.0L	2.0000	0.0000	1100	DH
	"	2.0H	2.0000	0.0000		
	96J3078662	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		

ENSR

BALANCE CHECKS

Balance SN. SA 2901048 **Date** 9-28-07 **to**

Date	STANDARD SN	WEIGHT	MEAS.	ERROR (+/-) 0.5MG	TIME	COMMENTS
9-28-07	J20159	2.0L	2.0000	0.0000	1130	DH
	"	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
10-3-07	J20159	2.0L	2.0000	0.0000	1400	DH
	"	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
10-5-07	J20159	2.0L	2.0000	0.0000	0900	DH
	"	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
10-9-07	J20159	2.0L	2.0000	0.0000	0930	DH
	"	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
10-10-07	J20159	2.0L	2.0000	0.0000	1145	DH
	"	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
10-23-07	J20159	2.0L	2.0000	0.0000	1300	DH
	"	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
10-26-07	J20159	2.0L	2.0000	0.0000	1000	DH
	"	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	5.0000	0.0000		
	"	5.0H	5.0000	0.0000		
10-29-07	J20159	2.0L	2.0000	0.0000	1350	DH
	"	2.0H	2.0000	0.0000		
	96-J30786-2	5.0L	4.9999	0.0001		
	"	5.0H	5.0000	0.0000		

Appendix D

Meteorological and Air Quality Data Listings

Basin Electric - Gettysburg S.D. Monitoring Program
July-07
mps
10WS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
7/1/07	4.7	6.4	5.8	4.9	4.4	5.3	5.7	6.6	7.7	8.0	7.9	8.0	8.9	9.0	9.0	8.6	8.6	7.9	7.6	7.8	6.5	5.4	8.6	8.6	24	9.0	4.4	7.2
7/2/07	6.5	6.2	6.0	2.9	2.6	2.6	3.4	2.5	3.3	5.6	5.0	6.9	5.0	5.2	5.5	4.1	2.5	3.3	4.0	3.5	2.9	3.2	3.5	2.9	24	6.9	2.5	4.1
7/3/07	2.6	2.8	2.5	2.0	4.3	10.4	6.9	5.7	5.5	6.0	6.3	5.3	5.9	6.9	8.8	9.0	6.1	5.1	3.9	2.5	2.1	2.5	2.4	2.9	24	10.4	2.0	4.9
7/4/07	4.0	4.0	4.4	4.1	4.1	3.4	3.1	4.3	4.3	5.7	5.8	5.5	5.3	4.8	5.1	4.9	4.3	3.0	2.7	0.8	1.5	2.6	3.5	3.0	24	5.8	0.8	3.9
7/5/07	2.9	3.2	3.5	3.4	3.9	3.8	2.5	0.5	3.3	4.3	5.4	5.9	6.3	5.8	5.1	5.8	5.2	4.8	4.0	3.0	1.8	1.9	1.6	1.1	24	6.3	0.5	3.7
7/6/07	0.8	0.8	1.4	2.1	3.3	3.6	2.1	2.8	3.6	4.2	3.9	4.4	4.7	5.1	4.9	5.0	5.7	4.6	4.7	4.6	5.8	5.8	6.4	5.9	24	6.4	0.8	4.0
7/7/07	4.7	5.1	5.6	5.6	5.9	6.5	6.7	6.9	7.2	7.1	6.4	5.2	7.0	6.0	6.4	6.7	5.0	5.0	3.3	3.0	3.3	3.9	1.8	5.0	24	7.2	1.8	5.4
7/8/07	6.7	6.8	6.1	4.1	5.9	6.2	8.1	5.7	6.8	3.6	3.4	4.4	5.0	4.7	5.0	5.0	4.4	4.8	5.0	4.5	3.7	3.2	2.6	3.5	24	8.1	2.6	5.0
7/9/07	3.4	3.4	3.3	2.4	1.3	1.1	1.9	2.0	2.6	2.7	2.9	2.6	1.5	1.8	2.0	3.0	4.6	5.4	5.4	5.4	4.3	3.3	5.7	6.9	24	6.9	1.1	3.3
7/10/07	7.0	6.6	6.9	10.2	10.2	7.9	9.4	10.7	11.4	10.8	11.2	10.9	10.4	9.7	9.6	8.7	8.5	7.4	6.5	5.1	3.6	2.7	3.0	4.2	24	11.4	2.7	8.0
7/11/07	4.3	4.0	4.1	4.1	3.7	3.6	3.6	4.4	5.1	5.1	5.3	5.5	5.7	5.4	4.6										15	5.7	3.6	4.6
7/12/07									1.7	1.6	1.8	2.8	3.0	3.0	2.6	2.8	3.7	5.6	4.7	2.9	2.6	2.8	3.6	4.0	16	5.6	1.6	3.1
7/13/07	3.7	3.2	2.9	2.9	4.4	4.6	5.5	6.1	5.9	6.1	5.2	4.5	4.7	5.2	5.1	4.6	3.0	1.3	1.9	2.8	3.7	3.7	2.8	3.7	24	6.1	1.3	4.1
7/14/07	4.0	4.3	2.0	1.7	2.6	2.8	2.4	2.2	3.4	4.8	5.5	6.7	5.6	6.7	7.7	6.9	6.2	6.0	5.5	4.8	3.4	3.0	3.5	3.6	24	7.7	1.7	4.4
7/15/07	3.1	2.8	2.6	3.0	3.0	2.0	1.5	2.5	4.4	4.7	4.4	4.2	4.5	4.0	2.9	3.1	2.6	1.6	2.0	3.5	4.5	3.8	5.0	5.8	24	5.8	1.5	3.4
7/16/07	5.9	5.4	5.4	4.9	4.6	4.7	3.8	1.3	1.0	1.7	2.5	6.0	7.7	6.8	6.4	5.9	5.4	4.9	3.8	3.7	4.4	4.7	5.0	4.9	24	7.7	1.0	4.6
7/17/07	4.3	3.3	2.3	2.2	1.4	2.1	2.8	3.8	4.3	5.6	6.1	6.2	6.5	6.6	6.1	5.9	5.5	5.2	5.4	4.0	4.3	5.2	4.6	6.0	24	6.6	1.4	4.6
7/18/07	5.6	4.3	2.8	3.9	4.4	3.7	3.9	5.3	4.9	7.1	6.9	7.6	7.0	6.1	5.9	4.9	5.0	4.4	4.1	3.2	3.4	2.2	2.6	3.6	24	7.6	2.2	4.7
7/19/07	2.9	2.8	3.5	2.6	2.9	1.9	2.6	4.2	5.5	6.4	6.5	5.8	5.3	5.0	4.6	4.4	5.0	5.7	5.1	4.1	4.0	3.8	4.4	4.4	24	6.5	1.9	4.3
7/20/07	5.1	4.6	4.5	5.1	5.5	6.0	6.7	6.3	7.2	7.4	7.1	6.9	6.9	7.3	7.4	7.6	8.2	8.6	8.6	6.9	6.5	6.7	6.5	7.0	24	8.6	4.5	6.7
7/21/07	6.8	7.4	6.9	6.6	5.9	6.3	6.9	8.2	8.4	8.2	8.7	8.5	8.2	8.5	8.8	8.4	7.6	7.5	6.9	6.3	5.9	5.6	6.3	7.1	24	8.8	5.6	7.3
7/22/07	7.1	7.0	6.2	3.4	2.6	3.9	5.3	7.3	6.9	8.3	7.3	6.1	6.9	6.4	5.4	3.6	2.7	1.4	1.8	3.7	3.0	3.2	1.7	1.2	24	8.3	1.2	4.7
7/23/07	0.7	1.0	1.7	2.1	2.2	2.4	2.3	2.4	2.2	2.7	3.8	4.0	2.9	2.5	3.3	3.9	4.2	4.4	5.3	4.7	4.7	5.7	6.0	5.5	24	6.0	0.7	3.4
7/24/07	4.4	3.4	3.8	4.1	3.4	2.8	2.9	3.2	5.1	8.4	7.9	7.4	7.7	7.2	6.3	6.2	6.3	6.4	5.7	5.3	5.6	5.4	5.8	5.3	24	8.4	2.8	5.4
7/25/07	4.6	4.1	4.7	4.8	4.5	3.5	4.7	5.6	5.5	4.0	1.7	3.3	3.4	3.1	3.2	5.0	4.7	4.6	4.5	3.8	5.2	6.5	6.5	5.9	24	6.5	1.7	4.5
7/26/07	6.0	6.5	3.9	5.9	10.3	14.0	9.3						5.8			6.1	6.3	7.3	6.6	4.2	3.5	2.9	2.5	2.5	17	14.0	2.5	6.1
7/27/07	2.3	1.9	2.9	2.6	1.8	2.3	2.3	3.4	3.8	4.3	3.5	2.8	2.5	3.1	3.0	3.3	3.5	3.6	4.6	4.1	3.6	3.5	3.3	3.5	24	4.6	1.8	3.1
7/28/07	3.2	2.3	1.8	2.1	1.7	1.9	1.9	3.0	4.1	3.6	2.7	2.2	1.7	1.9	2.1	2.1	1.5	2.6	2.0	3.2	4.0	2.9	4.2	4.0	24	4.2	1.5	2.6
7/29/07	3.9	4.6	4.4	4.2	3.9	3.5	3.1	2.7	4.3	4.6	4.0	4.4	4.0	3.9	3.9	4.6	4.3	4.8	5.3	4.5	4.8	6.0	5.9	5.2	24	6.0	2.7	4.4
7/30/07	3.5	3.2	3.5	3.4	3.0	2.9	3.4	4.2	4.8	5.2	5.8	6.1	6.0	6.1	6.3	6.8	7.0	7.0	6.7	5.7	5.5	6.0	6.2	5.5	24	7.0	2.9	5.2
7/31/07	4.4	4.1	4.6	5.4	4.7	4.9	4.8	5.9	7.1	6.5	7.6	7.9	7.6	8.4	9.1	8.2	7.7	7.2	6.2	5.2	5.1	6.1	5.3	6.4	24	9.1	4.1	6.3
hr max	7.1	7.4	6.9	10.2	10.3	14.0	9.4	10.7	11.4	10.8	11.2	10.9	10.4	9.7	9.6	9.0	8.6	8.6	8.6	7.8	6.5	6.7	8.6	8.6				
hr min	0.7	0.8	1.4	1.7	1.3	1.1	1.5	0.5	1.0	1.6	1.7	2.2	1.5	1.8	2.0	2.1	1.5	1.3	1.8	0.8	1.5	1.9	1.6	1.1				
average	4.3	4.2	4.0	3.9	4.1	4.4	4.3	4.5	5.0	5.5	5.4	5.6	5.6	5.5	5.5	5.5	5.2	5.0	4.8	4.2	4.1	4.1	4.4	4.6				

monthly max hr	monthly min hr	monthly ave hr
14.0	0.5	4.7
7/26/07	7/5/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	720
possible hours	744
data capture	96.8%

Basin Electric - Gettysburg S.D. Monitoring Program
July-07
mps
50WS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
7/1/07	7.4	9.3	7.8	7.5	6.6	7.9	7.0	7.3	8.5	8.4	8.9	9.2	9.6	10.2	9.7	9.5	9.5	9.6	11.1	11.8	9.3	8.0	11.7	11.6	24	11.8	6.6	9.1
7/2/07	8.8	8.1	9.2	6.3	4.7	4.0	5.1	2.9	3.8	6.4	5.9	8.9	6.4	6.1	6.4	4.7	3.1	3.8	5.1	5.8	5.4	6.2	7.2	5.9	24	9.2	2.9	5.8
7/3/07	6.2	5.8	4.8	4.1	6.1	13.3	9.0	10.0	8.3	8.3	9.6	7.4	7.5	8.1	10.5	10.6	7.3	5.9	5.0	4.2	3.4	3.4	1.6	3.1	24	13.3	1.6	6.8
7/4/07	7.0	5.8	5.4	6.1	7.1	6.9	5.8	5.1	4.8	6.4	6.7	6.3	6.0	5.6	5.9	5.8	5.0	3.5	3.7	2.5	3.3	3.8	4.2	3.3	24	7.1	2.5	5.3
7/5/07	4.1	5.1	5.1	6.2	7.6	7.1	5.1	0.9	3.7	4.9	6.1	6.8	7.2	6.7	5.9	6.4	6.0	5.6	5.5	5.0	5.3	5.3	4.7	4.6	24	7.6	0.9	5.5
7/6/07	4.3	5.1	6.5	7.5	7.9	6.5	4.2	3.1	3.7	4.8	4.3	5.1	5.4	6.1	5.9	5.9	7.4	6.4	7.7	8.9	11.5	11.5	12.4	11.4	24	12.4	3.1	6.8
7/7/07	7.8	7.6	10.3	9.1	8.3	10.9	11.9	9.8	8.8	8.3	7.5	6.7	8.7	7.6	8.2	9.6	7.9	8.8	6.1	5.3	6.0	5.4	4.3	8.3	24	11.9	4.3	8.1
7/8/07	10.4	9.6	9.8	5.4	7.8	8.2	10.6	7.7	9.1	5.2	4.8	5.8	5.8	5.4	5.6	5.6	5.2	5.5	6.3	6.5	6.4	6.1	5.7	6.8	24	10.6	4.8	6.9
7/9/07	6.5	6.6	6.3	5.3	4.4	3.0	3.2	2.2	3.0	3.1	3.3	3.1	1.6	2.1	2.4	3.6	5.4	7.2	8.5	9.1	7.1	5.3	9.4	10.8	24	10.8	1.6	5.1
7/10/07	10.4	9.7	10.0	14.0	13.8	10.9	12.3	13.6	14.2	13.3	13.8	13.2	12.4	11.5	11.2	10.4	10.1	8.8	7.9	7.0	6.5	4.9	4.2	6.0	24	14.2	4.2	10.4
7/11/07	7.4	7.2	6.7	6.9	5.3	5.0	6.0	5.4	5.7	5.8	6.2	6.4	6.8	6.4	5.3										15	7.4	5.0	6.2
7/12/07									2.0	1.9	2.0	3.2	3.1	3.2	2.8	3.5	2.5	6.5	5.8	4.6	6.1	7.0	7.3	8.6	16	8.6	1.9	4.4
7/13/07	8.0	7.6	6.8	8.2	7.2	10.4	10.3	8.3	7.0	7.1	5.9	5.2	5.5	6.1	5.8	5.4	3.6	1.9	2.4	3.5	5.1	6.0	7.1	7.3	24	10.4	1.9	6.3
7/14/07	6.2	8.4	4.6	3.3	2.8	1.8	2.4	2.3	3.8	5.5	6.4	7.8	6.6	8.0	9.1	8.2	7.5	7.2	7.2	7.5	7.0	7.0	7.7	7.6	24	9.1	1.8	6.1
7/15/07	7.1	6.8	6.2	5.8	4.1	3.7	4.0	3.9	5.1	5.6	4.8	4.7	5.1	4.7	3.4	3.6	3.0	1.9	2.4	6.5	10.1	8.6	10.6	11.6	24	11.6	1.9	5.6
7/16/07	11.4	10.6	10.2	9.3	8.7	8.0	6.4	2.5	1.3	2.0	2.8	7.3	9.2	8.0	7.5	6.8	6.3	5.9	5.6	6.3	7.5	7.4	7.8	7.8	24	11.4	1.3	6.9
7/17/07	6.9	5.8	5.1	4.4	4.5	4.0	4.3	4.2	4.6	6.3	7.0	7.0	7.7	7.8	7.2	7.0	6.7	6.6	7.0	7.3	7.3	7.8	7.2	8.6	24	8.6	4.0	6.3
7/18/07	8.3	7.1	5.1	6.0	6.4	5.2	5.3	7.2	5.9	8.6	8.8	9.1	8.4	7.6	7.1	5.8	6.3	6.4	5.6	4.8	5.8	4.4	4.7	7.2	24	9.1	4.4	6.5
7/19/07	7.2	6.0	6.6	5.3	5.3	4.0	4.4	5.5	6.7	7.5	7.7	6.6	6.0	5.8	5.3	5.1	5.8	7.1	7.1	7.0	8.4	8.2	8.9	9.5	24	9.5	4.0	6.5
7/20/07	10.0	9.2	9.2	10.5	10.9	11.1	10.3	7.4	8.1	8.0	8.0	7.6	8.1	8.7	8.9	9.1	10.0	10.8	11.2	10.0	10.3	10.6	10.7	11.1	24	11.2	7.4	9.6
7/21/07	10.6	11.3	10.9	10.0	9.2	8.9	9.9	10.3	9.8	9.0	10.0	10.0	9.1	9.8	10.2	9.6	8.5	9.1	9.3	10.3	8.6	7.4	9.0	10.8	24	11.3	7.4	9.7
7/22/07	11.2	11.0	10.0	5.2	4.8	8.4	8.0	9.3	8.8	10.8	8.7	6.6	7.9	8.1	6.6	4.3	2.8	1.9	2.2	6.4	5.7	5.4	3.7	2.1	24	11.2	1.9	6.7
7/23/07	3.1	2.3	2.6	4.3	5.9	5.4	8.7	3.8	3.8	3.1	4.2	4.4	3.4	3.0	4.0	4.5	4.8	5.7	7.9	8.6	9.8	11.1	10.8	10.0	24	11.1	2.3	5.6
7/24/07	8.9	6.8	9.0	9.2	6.3	5.1	4.3	3.6	5.9	10.1	16.6	8.6	8.9	8.3	7.2	7.2	7.2	7.6	8.0	8.8	9.3	9.6	10.2	9.8	24	16.6	3.6	8.2
7/25/07	8.9	6.8	9.0	9.6	8.4	6.4	7.9	6.9	5.9	4.2	2.1	4.4	4.4	3.9	3.0	5.8	5.4	5.3	6.5	7.5	10.3	9.5	8.8	7.4	24	10.3	2.1	6.6
7/26/07	7.8	10.1	6.7	8.4	13.9	17.9	13.0						6.9			7.2	7.5	9.1	8.3	6.3	6.9	7.0	5.1	4.7	17	17.9	4.7	8.6
7/27/07	5.1	5.0	5.7	5.8	5.1	5.1	4.6	4.7	4.0	4.9	4.0	3.2	2.9	3.5	3.7	3.9	4.1	4.9	5.9	6.0	6.6	6.9	6.2	6.4	24	6.9	2.9	4.9
7/28/07	6.2	4.9	3.9	5.3	4.5	4.2	4.2	4.1	4.5	4.1	3.2	2.4	1.8	2.2	2.3	2.3	1.8	3.0	2.3	5.1	6.8	7.7	10.0	6.8	24	10.0	1.8	4.3
7/29/07	8.3	9.0	8.9	8.2	7.5	7.0	6.8	4.8	5.3	5.3	4.4	4.8	4.4	4.4	4.4	5.2	4.8	5.6	6.8	8.1	10.1	10.8	10.7	10.0	24	10.8	4.4	6.9
7/30/07	6.2	5.9	7.6	7.5	6.4	5.5	4.8	4.3	4.7	5.6	6.1	6.7	6.5	6.8	7.0	7.7	8.2	8.4	8.6	8.9	9.7	10.7	10.8	9.6	24	10.8	4.3	7.3
7/31/07	5.9	5.9	7.1	7.7	6.0	6.3	5.5	6.6	8.6	7.5	8.9	9.6	8.5	9.5	10.1	9.1	8.7	9.3	6.9	6.5	7.7	9.9	7.0	8.5	24	10.1	5.5	7.8
hr max	11.4	11.3	10.9	14.0	13.9	17.9	13.0	13.6	14.2	13.3	16.6	13.2	12.4	11.5	11.2	10.6	10.1	10.8	11.2	11.8	11.5	11.5	12.4	11.6				
hr min	3.1	2.3	2.6	3.3	2.8	1.8	2.4	0.9	1.3	1.9	2.0	2.4	1.6	2.1	2.3	2.3	1.8	1.9	2.2	2.5	3.3	3.4	1.6	2.1				
average	7.6	7.3	7.2	7.1	6.9	7.1	6.8	5.8	6.0	6.4	6.6	6.6	6.5	6.5	6.4	6.4	6.1	6.3	6.5	6.9	7.4	7.4	7.7	7.9				

monthly max hr	monthly min hr	monthly ave hr
17.9	0.9	6.8
7/26/07	7/5/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	720
possible hours	744
data capture	96.8%

Basin Electric - Gettysburg S.D. Monitoring Program
July-07
mps
100WS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
7/1/07	8.1	8.0	1.7	0.1	0.1	0.1	2.2	7.6	9.3	8.3	8.3	8.5	10.0	10.5	9.7	9.7	9.7	9.4	11.2	13.1	10.0	8.8	13.1	11.6	24	13.10	0.10	7.88
7/2/07	9.2	11.3	13.0	8.8	7.0	7.2	6.3	2.9	4.0	6.8	6.2	9.1	6.9	6.3	6.6	4.9	3.4	4.1	5.5	7.0	8.4	10.0	10.4	9.4	24	13.0	2.9	7.3
7/3/07	9.0	8.1	5.9	5.8	7.5	2.3	0.2	3.6	7.7	5.5	9.4	9.2	8.9	8.7	11.0	11.1	7.9	6.3	5.6	4.9	4.2	3.8	2.1	4.2	24	11.1	0.2	6.4
7/4/07	8.0	7.0	5.3	5.5	5.9	7.7	7.7	6.2	4.8	6.5	7.0	6.7	6.4	6.0	6.2	6.2	5.2	3.6	3.9	3.2	3.3	3.9	4.2	3.1	24	8.0	3.1	5.6
7/5/07	4.5	5.6	5.6	7.0	8.5	7.7	6.1	2.9	3.9	5.1	6.3	7.1	7.4	6.9	6.1	6.6	6.3	5.8	5.9	5.4	5.6	6.2	6.2	6.2	24	8.5	2.9	6.0
7/6/07	6.7	6.9	7.1	7.4	7.5	6.2	4.5	4.1	3.4	4.4	4.2	4.9	5.3	6.0	5.7	5.9	7.4	7.0	8.9	11.3	14.5	14.9	13.5	10.5	24	14.9	3.4	7.4
7/7/07	10.1	10.6	10.5	12.1	15.6	14.9	13.8	12.2	9.7	8.6	7.6	7.2	8.8	8.0	8.6	10.7	9.1	10.6	7.5	6.6	8.5	7.2	6.1	8.9	24	15.6	6.1	9.7
7/8/07	12.2	11.9	12.9	6.6	9.7	9.7	12.2	8.6	9.8	6.2	5.4	6.5	5.9	5.6	6.0	5.9	5.5	5.7	6.9	8.1	8.0	7.5	7.1	8.2	24	12.9	5.4	8.0
7/9/07	9.3	9.7	9.2	8.0	6.4	6.6	6.1	3.2	2.9	3.2	3.4	3.2	1.9	2.1	2.5	3.8	5.5	7.5	10.2	12.1	9.1	6.9	11.8	13.1	24	13.1	1.9	6.6
7/10/07	10.9	4.1	0.1	0.1	0.1	0.1	0.1	4.3	11.6	11.4	12.5	12.7	12.5	11.7	11.2	10.9	10.7	9.3	8.5	7.8	7.9	4.1	1.9	1.2	24	12.7	0.1	6.9
7/11/07	0.1	0.1	0.1	0.1	0.1	0.7	3.2	2.8	5.2	4.7	6.2	6.4	7.0	6.8	5.6										15	7.0	0.1	3.3
7/12/07									2.2	2.0	2.1	3.4	3.4	3.5	2.5	3.8	4.0	6.8	6.1	5.5	7.0	7.7	8.0	8.4	16	8.4	2.0	4.8
7/13/07	7.8	7.3	5.8	5.8	7.9	12.3	13.6	10.7	7.6	7.2	6.2	5.4	5.8	6.4	6.3	5.7	3.9	2.1	2.6	3.6	5.0	6.2	8.6	7.9	24	13.6	2.1	6.7
7/14/07	7.3	9.3	5.7	5.3	4.4	1.6	1.7	2.3	4.0	5.7	6.7	8.3	7.1	8.5	9.8	8.8	8.1	7.7	7.9	8.6	9.0	9.9	8.0	7.2	24	9.9	1.6	6.8
7/15/07	6.7	6.4	5.9	4.9	4.7	4.6	4.3	4.1	4.9	5.6	4.7	4.6	5.4	4.7	3.6	3.8	3.1	2.0	2.7	5.7	9.1	10.1	12.6	14.4	24	14.4	2.0	5.8
7/16/07	14.7	14.3	13.3	11.1	10.4	9.3	7.9	3.9	1.2	2.0	2.8	7.7	9.6	8.3	7.7	7.0	6.5	6.1	6.2	7.4	9.9	9.6	9.9	10.4	24	14.7	1.2	8.2
7/17/07	9.7	8.3	8.2	7.9	7.9	6.6	5.3	5.0	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	24	9.7	0.1	2.5
7/18/07	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	7.9	7.6	6.6	6.4	8.1	7.0	6.7	8.2	7.8	8.8	10.8	24	10.8	0.1	3.6
7/19/07	11.8	11.2	9.9	7.7	7.8	7.4	7.9	7.1	7.3	7.8	8.0	6.9	6.4	6.0	5.5	5.3	6.2	7.5	7.9	8.8	11.5	11.6	12.8	14.0	24	14.0	5.3	8.5
7/20/07	15.1	14.5	11.8	9.9	11.2	10.9	10.7	7.5	7.4	8.0	7.6	7.7	8.0	8.3	8.8	9.2	10.4	11.7	12.7	12.1	13.5	14.4	14.6	14.3	24	15.1	7.4	10.8
7/21/07	13.5	14.0	12.8	11.9	11.8	11.2	12.1	10.4	8.9	8.8	9.1	9.3	9.2	10.5	11.3	10.0	8.9	8.9	8.9	9.4	9.2	10.3	13.7	14.3	24	14.3	8.8	10.8
7/22/07	13.7	13.3	12.8	6.7	6.9	10.3	9.0	10.4	10.0	11.8	7.7	5.9	8.4	8.4	7.0	4.5	2.8	2.0	2.1	7.0	8.9	8.2	4.7	4.2	24	13.7	2.0	7.8
7/23/07	4.9	4.3	2.4	2.1	4.1	4.3	4.2	3.9	2.0	3.0	4.1	4.1	3.3	3.2	4.1	4.6	5.0	6.4	9.4	11.0	13.0	15.4	15.0	14.2	24	15.4	2.0	6.2
7/24/07	11.9	8.3	7.3	6.5	8.4	7.8	4.9	5.1	6.4	10.4	9.7	8.9	9.2	8.6	7.4	7.5	7.6	8.5	9.2	11.2	12.4	13.2	10.4	9.2	24	13.2	4.9	8.8
7/25/07	7.5	10.3	12.7	12.5	12.5	8.2	6.5	6.6	6.9	4.3	3.6	14.9	5.5	4.9	3.9	5.6	5.2	5.6	7.1	8.0	9.7	10.1	9.3	9.0	24	14.9	3.6	7.9
7/26/07	11.3	12.6	8.2	9.7	15.6	20.3	16.3						7.6			7.6	8.0	9.7	8.8	7.6	8.8	9.3	7.4	7.6	17	20.3	7.4	10.4
7/27/07	8.1	7.8	8.3	8.9	9.2	9.2	7.4	6.7	4.6	5.4	4.2	3.2	3.1	3.7	4.0	4.2	4.3	4.7	7.1	7.6	8.6	9.8	9.1	9.6	24	9.8	3.1	6.6
7/28/07	9.5	7.8	6.5	8.3	7.5	7.1	7.1	6.1	4.9	4.1	3.3	2.5	1.8	2.1	2.2	2.2	1.7	3.0	2.4	5.5	7.0	9.9	9.9	9.2	24	9.9	1.7	5.5
7/29/07	11.9	12.1	11.0	10.5	9.8	8.7	9.4	7.0	5.6	5.4	4.6	4.7	4.6	4.4	4.5	5.0	4.6	5.6	7.5	9.5	12.3	14.5	14.2	10.1	24	14.5	4.4	8.2
7/30/07	8.7	12.4	12.2	11.6	10.2	9.2	9.3	6.2	4.5	5.3	5.8	6.6	6.2	6.5	7.2	7.6	7.8	8.1	8.7	8.0	9.4	10.6	10.5	8.8	24	12.4	4.5	8.4
7/31/07	8.1	9.5	12.1	12.4	9.1	7.6	6.8	7.8	8.9	8.1	9.7	10.3	9.4	9.9	10.9	9.7	9.6	10.4	7.2	7.4	8.5	9.9	9.3	13.1	24	13.1	6.8	9.4
hr max	15.1	14.5	13.3	12.5	15.6	20.3	16.3	12.2	11.6	11.8	12.5	14.9	12.5	11.7	11.3	11.1	10.7	11.7	12.7	13.1	14.5	15.4	15.0	14.4				
hr min	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1				
average	9.0	8.9	7.9	7.2	7.6	7.3	6.9	5.8	5.7	5.9	5.9	6.5	6.3	6.5	6.5	6.5	6.2	6.5	6.9	7.7	8.7	9.1	9.1	9.1				

monthly max hr	monthly min hr	monthly ave hr
20.3	0.1	7.2
7/26/07	7/1/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	720
possible hours	744
data capture	96.8%

Basin Electric - Gettysburg S.D. Monitoring Program
July-07
Deg
10mWD

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count
7/1/07	162	160	163	161	162	158	160	166	170	166	161	162	166	168	164	166	166	161	150	148	165	106	128	162	24
7/2/07	162	171	175	173	144	154	179	206	330	354	3	33	68	91	89	95	71	55	56	62	55	56	68	54	24
7/3/07	58	60	44	56	19	357	34	96	18	269	249	237	312	336	329	339	342	334	343	331	302	292	287	295	24
7/4/07	316	300	298	294	293	298	298	319	324	329	338	343	342	342	348	5	8	29	51	96	73	121	141	179	24
7/5/07	201	222	242	239	234	227	213	338	337	340	357	15	13	14	14	13	10	10	19	23	41	36	42	23	24
7/6/07	32	70	94	116	151	156	167	172	170	157	165	160	162	155	159	151	140	139	138	137	143	151	151	155	24
7/7/07	166	167	162	164	171	175	182	190	199	212	211	204	217	211	226	214	197	196	232	12	28	98	23	316	24
7/8/07	320	328	353	352	350	337	1	25	36	24	24	26	28	14	10	10	9	7	2	5	1	0	356	346	24
7/9/07	356	359	3	25	12	25	13	85	136	183	244	247	202	159	170	145	132	130	133	128	178	146	226	257	24
7/10/07	283	310	297	304	311	310	309	312	313	314	309	317	325	332	329	338	339	349	346	354	346	322	293	270	24
7/11/07	280	282	289	297	282	272	266	271	276	286	298	305	299	299	292										15
7/12/07									25	27	19	40	17	10	16	10	356	7	17	46	66	93	143	138	16
7/13/07	146	160	168	168	178	180	180	184	199	223	256	287	287	287	327	334	325	305	232	208	187	204	304	330	24
7/14/07	317	334	342	359	342	322	308	320	314	305	318	328	330	333	338	339	356	9	17	31	44	76	107	129	24
7/15/07	150	160	166	162	173	139	171	179	158	149	169	168	180	186	195	177	172	174	169	149	152	165	179	183	24
7/16/07	184	202	204	203	208	213	216	205	82	81	65	15	59	99	127	127	123	114	117	88	87	81	74	77	24
7/17/07	79	74	71	57	87	47	65	65	57	64	71	74	82	83	82	97	93	74	64	71	64	45	35	73	24
7/18/07	99	94	71	45	60	57	52	50	64	64	71	76	73	73	58	56	50	57	55	57	67	57	31	22	24
7/19/07	40	52	61	74	61	49	48	73	83	88	84	87	91	90	95	105	92	86	92	93	89	91	100	111	24
7/20/07	127	137	141	153	152	152	156	162	162	167	164	166	161	154	146	146	141	130	124	122	121	125	135	141	24
7/21/07	145	145	150	147	146	141	142	152	160	165	160	160	168	171	172	168	167	161	158	155	160	166	173	178	24
7/22/07	185	188	190	166	169	184	115	129	129	141	159	164	177	191	188	175	162	147	119	77	60	69	66	43	24
7/23/07	109	34	50	63	101	121	127	130	162	133	117	148	147	162	117	130	123	125	123	128	126	135	140	149	24
7/24/07	162	168	159	156	163	165	152	166	112	101	117	117	122	132	134	129	125	122	119	123	130	136	147	150	24
7/25/07	155	162	176	178	176	154	153	159	174	161	63	154	165	169	3	153	150	127	115	134	151	159	161	164	24
7/26/07	171	183	225	320	313	325	338						337			356	9	17	30	25	6	10	8	5	17
7/27/07	358	354	352	3	1	358	3	41	59	65	78	53	55	59	47	35	61	44	51	66	79	80	80	89	24
7/28/07	96	84	63	105	94	76	99	111	120	144	163	187	121	139	96	226	210	92	109	112	110	102	138	157	24
7/29/07	174	181	186	188	192	189	198	206	210	190	174	170	163	162	151	150	158	142	124	125	125	132	143	155	24
7/30/07	166	169	173	171	170	164	161	162	165	164	164	167	166	165	170	168	156	156	155	153	154	155	154	155	24
7/31/07	164	173	174	174	164	162	164	174	182	181	180	180	177	172	172	172	176	181	165	163	160	157	167	173	24

Validated by:	Roger L Thompson	Date:	9/5/07
Analyst:	Denise Hazelman	Date:	9/5/07

valid hours	720
possible hours	744
data capture	96.8%

Basin Electric - Gettysburg S.D. Monitoring Program
July-07
Deg
50mWD

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count
7/1/07	163	162	164	162	163	161	163	168	172	167	162	164	167	170	166	167	167	162	154	151	165	115	136	162	24
7/2/07	163	171	175	177	166	169	184	216	330	355	4	35	71	92	90	97	72	57	57	65	61	64	73	70	24
7/3/07	74	78	69	85	42	359	33	93	27	277	255	242	313	336	329	340	342	336	343	338	335	341	342	329	24
7/4/07	338	329	327	323	317	317	311	320	323	330	339	346	342	341	349	4	9	30	51	60	73	93	131	157	24
7/5/07	187	213	228	241	243	235	231	268	335	341	358	16	14	15	14	14	10	10	24	33	41	44	56	67	24
7/6/07	83	100	122	134	147	158	165	169	170	158	167	163	163	158	159	154	143	141	142	141	146	150	151	155	24
7/7/07	163	165	160	162	170	176	184	191	201	213	213	208	217	213	225	216	204	201	256	17	12	72	57	333	24
7/8/07	323	329	351	349	352	339	2	28	40	30	29	30	31	16	11	12	10	7	3	7	7	16	14	5	24
7/9/07	3	11	13	25	31	50	46	88	141	185	244	247	203	152	173	145	133	132	135	131	177	159	226	260	24
7/10/07	287	312	301	305	312	310	309	312	313	314	310	317	324	332	329	339	340	350	348	356	357	352	334	287	24
7/11/07	302	308	315	322	319	301	279	274	278	288	300	306	300	300	294										15
7/12/07									27	28	11	38	6	354	358	355	348	8	20	49	68	77	126	132	16
7/13/07	134	150	159	154	169	182	182	186	201	224	255	284	287	289	325	332	326	301	233	214	199	223	320	0	24
7/14/07	351	349	28	52	30	13	338	317	313	305	320	328	330	334	339	340	356	11	19	35	50	84	106	117	24
7/15/07	131	146	152	158	166	164	172	172	157	149	169	169	180	184	187	176	173	172	169	150	151	164	179	180	24
7/16/07	185	198	203	213	227	234	236	318	69	84	63	18	60	100	129	129	125	117	119	93	89	84	77	82	24
7/17/07	85	88	93	93	113	84	74	67	58	66	71	76	83	84	85	100	95	74	64	74	68	49	39	74	24
7/18/07	99	102	86	55	63	62	54	51	67	66	72	77	74	73	59	57	52	58	57	58	69	64	57	46	24
7/19/07	52	59	66	76	68	62	58	76	84	89	85	89	91	90	97	105	94	86	95	95	89	92	102	116	24
7/20/07	132	141	145	155	153	153	156	163	162	168	165	166	163	155	148	147	142	132	125	125	123	128	137	144	24
7/21/07	148	147	151	148	147	144	145	154	161	165	161	161	168	171	172	168	168	163	160	156	162	167	174	178	24
7/22/07	185	190	190	167	173	181	122	130	129	142	160	163	177	190	189	177	166	154	118	80	66	70	106	154	24
7/23/07	177	176	114	91	102	121	124	134	151	137	121	152	149	159	120	130	126	129	125	129	128	135	140	148	24
7/24/07	157	161	157	155	162	170	163	167	112	101	122	118	122	134	135	131	129	123	121	127	133	139	149	152	24
7/25/07	157	166	177	180	181	159	155	160	175	166	14	154	166	170	15	154	152	131	116	143	153	160	161	165	24
7/26/07	171	182	219	320	312	325	337						338			352	10	18	31	27	19	34	36	41	17
7/27/07	36	32	28	37	43	44	35	48	61	67	76	56	54	57	48	39	60	48	54	68	81	82	81	91	24
7/28/07	100	99	92	109	106	101	110	113	121	145	165	174	141	134	112	216	208	95	114	109	109	122	142	163	24
7/29/07	176	188	192	205	215	211	221	214	208	190	175	169	164	164	153	152	158	143	126	126	126	135	145	155	24
7/30/07	164	169	175	175	174	171	163	165	167	165	165	168	166	166	172	168	157	156	156	155	155	155	155	157	24
7/31/07	166	172	174	174	166	163	165	175	183	183	181	181	177	173	172	172	176	181	166	165	161	157	166	173	24

Validated by:	Roger L Thompson	Date:	9/5/07
Analyst:	Denise Hazelman	Date:	9/5/07

valid hours	720
possible hours	744
data capture	96.8%

Basin Electric - Gettysburg S.D. Monitoring Program
July-07
Deg
100WD

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count
7/1/07	170	170	171	170	171	170	172	174	176	171	167	168	171	173	170	171	171	166	160	157	169	130	146	167	24
7/2/07	169	177	182	187	182	188	202	233	333	359	7	40	76	97	96	100	74	62	62	73	69	73	80	84	24
7/3/07	87	92	93	108	68	4	33	89	38	289	262	254	315	337	331	341	343	338	344	340	339	353	353	338	24
7/4/07	346	343	354	343	331	331	333	327	327	333	343	349	344	343	352	6	11	34	55	65	77	102	134	165	24
7/5/07	187	217	234	243	245	243	235	237	330	344	2	19	18	18	18	18	13	15	29	40	48	53	72	86	24
7/6/07	95	113	131	139	150	161	168	171	170	162	171	168	168	162	163	158	149	147	147	149	153	158	160	167	24
7/7/07	173	173	173	176	184	191	199	205	211	218	218	214	222	217	227	219	210	206	255	16	5	57	50	344	24
7/8/07	328	334	349	347	356	343	5	33	45	38	37	37	36	21	14	16	13	10	6	11	17	25	23	18	24
7/9/07	18	30	30	37	45	68	70	98	149	190	244	248	204	158	178	149	138	137	139	139	183	176	231	266	24
7/10/07	295	317	307	309	315	313	313	315	316	316	313	320	326	333	331	340	342	351	350	358	1	356	343	302	24
7/11/07	316	328	333	336	325	310	284	283	282	291	302	309	303	302	299										15
7/12/07									27	29	11	38	28	48	49	43	8	12	25	54	71	83	129	139	16
7/13/07	142	155	164	164	176	190	191	194	209	230	259	287	290	294	328	335	332	296	242	223	213	240	339	11	24
7/14/07	358	3	58	71	61	41	23	324	311	309	324	332	332	337	342	343	359	16	24	40	55	94	109	116	24
7/15/07	131	146	155	162	166	163	165	169	160	153	173	173	185	187	188	183	178	177	175	159	159	176	190	191	24
7/16/07	191	201	212	234	243	254	270	318	50	86	65	25	66	106	135	134	132	124	125	100	96	91	85	90	24
7/17/07	94	101	111	115	123	113	97	75	63	71	77	82	89	90	90	106	102	80	70	81	76	58	47	79	24
7/18/07	105	111	103	70	70	73	64	58	73	72	78	83	79	77	65	64	56	63	64	63	74	72	69	62	24
7/19/07	64	67	74	82	78	74	72	86	91	94	91	95	97	95	103	108	101	93	101	101	97	101	117	135	24
7/20/07	146	154	159	167	165	164	164	169	168	172	170	171	167	160	154	152	146	137	131	130	129	136	145	152	24
7/21/07	155	155	157	154	154	152	152	159	167	171	166	166	173	176	177	174	173	169	166	164	170	175	181	185	24
7/22/07	190	192	192	177	187	191	135	136	135	146	165	167	182	195	193	182	174	159	121	88	75	78	154	191	24
7/23/07	195	199	176	139	123	139	151	145	168	142	129	158	157	164	125	135	131	134	129	133	135	142	145	152	24
7/24/07	161	171	173	173	180	195	197	183	119	108	129	123	128	139	139	136	135	129	127	134	141	150	161	166	24
7/25/07	172	179	189	191	190	178	173	170	182	167	65	153	166	170	49	158	156	137	124	153	163	167	168	173	24
7/26/07	178	187	220	326	316	328	340						341			2	14	23	37	32	31	41	49	56	17
7/27/07	54	54	52	55	59	60	56	62	70	72	82	63	59	59	54	45	63	54	61	75	88	89	89	96	24
7/28/07	104	109	109	120	123	118	129	124	128	150	171	170	143	143	114	218	207	103	121	115	122	139	157	177	24
7/29/07	189	193	213	231	236	232	233	224	210	195	181	173	168	167	159	157	160	147	131	132	134	144	154	166	24
7/30/07	174	181	187	190	190	187	183	178	172	170	169	174	171	171	176	173	161	160	160	162	162	163	163	168	24
7/31/07	175	179	183	183	176	174	174	180	187	187	188	186	183	177	178	177	181	186	172	171	168	164	173	179	24

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	720
possible hours	744
data capture	96.8%

Basin Electric - Gettysburg S.D. Monitoring Program
July-07
Deg
10sigT

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
7/1/07	6.9	6.9	7.0	7.2	7.1	7.0	7.2	7.7	8.2	8.8	8.8	9.3	9.1	9.6	7.8	8.5	8.5	7.8	7.3	7.4	15.0	22.8	18.0	7.4	24	22.8	6.9	9.2
7/2/07	7.1	6.4	6.9	7.9	11.8	6.6	9.3	20.3	18.4	9.8	8.3	9.5	12.9	13.3	14.2	17.3	19.8	13.2	8.8	6.9	6.3	6.3	7.5	8.9	24	20.3	6.3	10.7
7/3/07	8.5	6.0	7.2	9.4	10.9	22.4	31.6	10.8	22.9	20.3	6.7	6.8	25.3	9.4	8.8	7.9	8.7	8.4	7.0	4.7	6.4	5.8	4.1	4.3	24	31.6	4.1	11.0
7/4/07	4.3	2.5	3.0	3.6	3.6	5.1	7.0	7.6	9.7	8.1	10.1	12.7	13.5	15.5	16.5	11.9	11.8	12.9	9.6	16.0	11.0	41.7	3.6	6.1	24	41.7	2.5	10.3
7/5/07	3.4	8.0	3.9	2.8	4.0	3.3	42.8	44.5	9.7	11.6	10.8	11.4	10.7	10.7	12.2	11.0	9.9	9.2	6.5	3.8	8.1	18.1	9.4	5.6	24	44.5	2.8	11.3
7/6/07	7.3	12.9	8.1	8.4	4.4	2.7	5.7	6.9	9.0	10.1	13.9	15.1	13.3	13.9	13.3	12.4	9.3	8.4	6.4	5.4	6.4	6.4	7.0	6.8	24	15.1	2.7	8.9
7/7/07	6.5	6.3	6.5	6.2	5.9	6.0	7.3	8.7	7.8	7.3	7.7	8.4	7.5	9.2	8.9	8.6	8.1	7.4	39.2	11.0	13.0	9.0	20.0	8.3	24	39.2	5.9	9.8
7/8/07	6.9	11.7	16.5	46.1	10.0	7.9	7.5	10.3	7.3	9.0	9.9	8.6	12.0	11.8	14.5	12.1	11.3	9.4	7.3	6.0	4.0	3.3	4.7	4.2	24	46.1	3.3	10.5
7/9/07	5.1	4.6	5.2	5.5	6.4	24.6	11.0	14.1	15.9	24.4	22.9	23.6	68.9	56.7	30.5	23.3	14.2	9.3	6.8	7.0	25.0	30.7	11.0	8.5	24	68.9	4.6	19.0
7/10/07	7.5	8.0	7.6	7.8	7.4	7.8	7.8	8.2	7.7	8.7	8.0	9.2	9.3	9.8	10.5	11.3	10.6	9.9	7.7	6.2	4.0	4.0	4.8	4.5	24	11.3	4.0	7.8
7/11/07	4.9	4.9	4.0	3.3	3.8	6.9	6.7	6.9	10.5	13.2	13.5	18.8	14.8	18.1	17.7										15	18.8	3.3	9.9
7/12/07									13.5	18.4	18.2	18.4	13.7	2.8	12.6	13.6	16.0	9.0	9.7	6.7	5.9	12.0	10.9	3.9	16	18.4	2.8	11.6
7/13/07	5.5	5.7	3.4	3.7	3.7	6.1	7.2	8.6	10.9	11.4	12.6	15.1	15.2	16.4	16.3	19.4	22.2	36.7	10.4	5.3	3.3	5.9	20.0	4.8	24	36.7	3.3	11.2
7/14/07	3.6	6.8	8.7	5.5	4.8	7.2	6.9	11.8	10.5	10.3	11.9	12.3	12.6	11.4	10.1	13.9	11.3	8.9	7.6	6.5	4.6	8.2	5.9	4.5	24	13.9	3.6	8.6
7/15/07	5.4	5.2	4.2	3.7	3.8	31.2	19.7	11.0	9.1	10.7	12.1	15.4	15.3	16.5	28.4	22.4	20.7	46.5	9.5	4.7	5.9	5.7	4.5	6.3	24	46.5	3.7	13.2
7/16/07	7.5	5.9	5.3	4.2	3.1	3.2	5.7	70.1	29.8	24.6	18.5	10.2	13.0	10.3	9.3	11.1	10.4	9.7	10.1	6.7	7.5	9.1	9.1	8.1	24	70.1	3.1	12.6
7/17/07	7.5	7.8	9.1	6.5	18.5	9.4	9.8	11.0	12.2	11.4	11.1	10.5	11.7	10.8	11.1	13.8	12.1	10.7	8.9	7.1	8.0	9.9	7.2	8.2	24	18.5	6.5	10.2
7/18/07	8.6	9.0	9.5	9.8	9.2	9.9	8.2	8.8	8.7	8.9	10.0	10.3	12.1	10.6	11.7	10.3	8.9	8.7	9.0	8.0	8.1	7.7	5.7	5.2	24	12.1	5.2	9.0
7/19/07	5.6	6.9	7.3	9.9	6.6	6.9	7.1	9.0	9.3	9.0	10.2	11.6	15.3	15.4	18.7	17.4	13.9	10.7	8.7	5.3	5.0	4.9	5.5	6.1	24	18.7	4.9	9.4
7/20/07	7.2	7.3	6.9	7.0	7.0	7.2	7.4	7.8	8.5	9.7	10.3	11.1	11.7	11.4	12.3	13.5	11.0	9.3	7.9	7.3	6.9	6.9	7.2	7.0	24	13.5	6.9	8.7
7/21/07	6.9	6.9	7.2	7.1	7.2	7.2	7.4	7.6	8.2	8.7	9.5	9.8	10.0	9.2	9.8	10.0	8.6	8.0	7.7	6.8	6.4	6.7	6.9	7.3	24	10.0	6.4	8.0
7/22/07	8.3	8.5	8.8	44.0	49.4	7.3	22.2	9.7	8.7	7.9	8.6	9.2	10.3	12.1	13.5	13.3	15.6	30.9	13.7	11.1	7.1	7.6	8.4	11.2	24	49.4	7.1	14.5
7/23/07	20.9	8.9	6.2	6.9	7.4	7.1	7.8	9.2	13.3	17.4	14.0	14.5	28.3	38.7	20.8	18.7	14.7	8.5	8.0	6.4	6.4	6.9	7.0	7.0	24	38.7	6.2	12.7
7/24/07	7.6	5.7	6.1	6.0	5.2	5.3	7.3	8.2	16.2	10.3	9.9	11.0	10.8	12.5	12.5	11.5	11.9	7.9	6.9	6.2	5.8	6.0	6.0	6.2	24	16.2	5.2	8.5
7/25/07	5.6	5.8	5.3	5.5	6.9	5.1	6.4	6.7	8.0	36.5	13.7	13.6	16.0	16.5	57.8	12.2	12.2	13.8	6.9	5.6	5.6	6.4	6.1	6.4	24	57.8	5.1	11.9
7/26/07	5.7	7.8	13.3	10.5	7.6	7.7	8.6						7.0			8.9	7.3	8.7	7.8	6.3	3.9	4.0	3.7	2.6	17	13.3	2.6	7.1
7/27/07	4.2	7.7	4.3	3.8	7.0	5.1	6.3	8.7	13.3	15.2	24.0	30.1	38.4	26.3	27.2	31.4	23.3	8.8	9.8	8.6	6.8	7.0	6.6	7.1	24	38.4	3.8	13.8
7/28/07	6.3	6.2	12.9	9.9	12.7	8.5	9.6	9.2	10.1	19.0	29.4	44.5	76.0	59.7	55.0	22.1	34.6	24.5	29.8	8.9	8.8	5.4	5.1	4.7	24	76.0	4.7	21.4
7/29/07	2.8	3.5	5.5	6.0	6.2	7.1	6.8	9.2	9.2	12.3	18.1	22.6	21.6	17.3	23.2	15.8	19.0	14.2	7.4	5.3	5.1	6.1	6.1	5.7	24	23.2	2.8	10.7
7/30/07	5.2	4.6	4.5	4.2	3.9	4.5	5.9	7.2	10.9	11.3	10.7	14.2	14.4	14.8	11.7	14.0	10.2	10.6	8.0	6.4	5.8	5.9	6.1	5.8	24	14.8	3.9	8.4
7/31/07	5.6	6.2	5.9	5.3	5.2	6.0	6.4	8.2	10.2	11.2	10.4	9.8	12.3	11.6	9.4	10.5	9.9	10.3	8.0	6.5	5.8	6.0	5.9	6.2	24	12.3	5.2	8.0
hr max	20.9	12.9	16.5	46.1	49.4	31.2	42.8	70.1	29.8	36.5	29.4	44.5	76.0	59.7	57.8	31.4	34.6	46.5	39.2	16.0	25.0	41.7	20.0	11.2				
hr min	2.8	2.5	3.0	2.8	3.1	2.7	5.7	6.7	7.3	7.3	6.7	6.8	7.0	2.8	7.8	7.9	7.3	7.4	6.4	3.8	3.3	3.3	3.6	2.6				
average	6.6	6.8	7.0	8.9	8.4	8.4	10.4	12.7	11.6	13.2	12.8	14.3	18.2	16.7	17.5	14.3	13.5	13.1	10.1	7.0	7.4	9.5	7.8	6.3				

monthly max hr	monthly min hr	monthly ave hr
76.0	2.5	10.9
7/28/07	7/4/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	720
possible hours	744
data capture	96.8%

Basin Electric - Gettysburg S.D. Monitoring Program
July-07
Deg
50sigT

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
7/1/07	3.5	3.5	3.8	3.6	3.8	3.7	4.9	5.0	5.5	5.5	6.9	6.7	6.5	7.0	5.1	5.8	5.8	5.5	4.5	4.4	12.3	12.6	16.7	4.6	24	16.7	3.5	6.1
7/2/07	4.1	3.5	3.2	4.0	5.4	2.5	6.4	15.3	19.7	7.4	6.0	6.7	10.6	11.4	10.9	13.6	15.5	9.9	6.9	3.1	3.2	3.5	4.3	4.7	24	19.7	2.5	7.6
7/3/07	3.8	4.1	4.0	5.0	10.0	20.7	28.7	6.1	25.0	19.2	4.7	5.2	21.7	8.0	6.6	6.2	7.1	7.1	5.3	2.3	1.8	3.3	5.4	3.0	24	28.7	1.8	8.9
7/4/07	2.4	3.1	3.1	2.8	2.2	2.1	3.9	5.6	6.5	6.0	7.5	10.0	12.0	12.1	15.5	10.4	10.0	10.8	7.2	2.8	3.0	10.9	4.0	3.9	24	15.5	2.1	6.6
7/5/07	3.7	6.3	2.9	2.5	2.5	3.0	20.7	39.7	9.0	8.5	8.9	9.3	8.4	8.6	11.2	10.4	7.6	7.0	4.6	2.3	2.2	3.1	4.0	3.1	24	39.7	2.2	7.9
7/6/07	2.7	2.7	1.9	2.3	2.1	1.9	2.4	4.1	6.5	7.5	11.4	11.0	10.4	11.2	11.1	10.1	7.1	7.7	3.4	2.6	3.0	3.2	3.3	3.2	24	11.4	1.9	5.5
7/7/07	2.6	2.5	2.9	2.7	2.4	2.6	3.5	5.9	4.6	4.4	4.9	5.7	5.2	8.1	7.5	6.4	4.5	3.7	28.6	6.5	9.2	7.2	4.4	9.8	24	28.6	2.4	6.1
7/8/07	4.4	9.6	9.2	35.2	8.5	6.3	5.4	8.0	5.3	6.1	9.3	6.4	9.5	8.9	11.1	9.7	9.1	7.5	5.8	4.7	2.1	1.4	1.4	1.5	24	35.2	1.4	7.8
7/9/07	2.7	2.7	2.9	2.5	3.0	6.9	7.3	11.6	11.3	20.7	18.9	19.9	61.2	55.0	27.1	22.1	12.2	8.0	4.5	4.5	24.8	23.7	8.1	6.2	24	61.2	2.5	15.3
7/10/07	5.5	5.5	5.3	5.6	5.3	5.9	5.8	6.0	6.0	7.3	5.6	7.1	7.4	8.4	8.9	9.9	9.1	8.8	5.8	4.1	2.3	2.7	2.7	8.2	24	9.9	2.3	6.2
7/11/07	3.6	3.3	2.7	1.8	1.8	2.7	3.7	5.1	7.2	10.5	12.2	15.7	13.3	15.0	14.9										15	15.7	1.8	7.6
7/12/07									13.2	18.4	26.6	18.3	17.2	9.3	18.0	21.9	14.2	7.3	9.4	4.8	2.9	4.1	6.1	2.2	16	26.6	2.2	12.1
7/13/07	2.5	3.1	2.7	2.2	2.2	3.2	3.7	7.0	7.9	8.8	9.9	11.4	11.6	13.7	14.7	16.5	17.5	29.3	9.9	4.7	2.6	5.6	7.7	2.7	24	29.3	2.2	8.4
7/14/07	2.0	3.9	5.8	4.5	5.2	8.1	4.8	8.1	7.6	6.7	11.4	11.3	11.0	10.4	9.1	12.8	9.1	7.1	5.9	4.0	2.8	4.3	2.3	2.3	24	12.8	2.0	6.7
7/15/07	2.7	2.1	1.8	2.2	2.8	3.5	4.8	5.3	6.1	7.4	8.9	13.4	10.2	13.3	19.6	17.0	14.2	32.0	6.3	3.4	2.3	2.6	2.3	2.3	24	32.0	1.8	7.8
7/16/07	3.5	2.5	2.3	2.4	2.5	1.9	1.9	36.6	27.5	17.6	13.9	8.1	9.9	7.6	6.6	8.4	7.9	6.7	6.5	3.9	4.9	6.1	5.9	5.1	24	36.6	1.9	8.3
7/17/07	5.0	4.0	5.6	4.4	5.4	5.4	6.5	8.7	8.4	9.4	8.5	8.1	9.2	8.0	9.1	10.8	9.8	7.5	5.5	3.6	4.5	7.0	4.7	5.8	24	10.8	3.6	6.9
7/18/07	6.1	5.7	6.1	7.3	5.8	5.9	6.1	6.7	6.2	6.1	6.7	7.0	9.0	7.7	8.8	8.2	6.6	5.5	6.8	4.6	4.8	5.0	4.3	2.6	24	9.0	2.6	6.2
7/19/07	2.5	2.8	4.7	5.2	5.4	4.8	5.3	7.3	6.1	7.0	7.5	9.6	13.3	11.7	16.2	13.2	12.5	8.4	6.7	3.4	2.6	3.1	3.4	3.1	24	16.2	2.5	6.9
7/20/07	4.1	3.7	3.4	3.2	3.3	3.8	4.5	5.0	5.7	7.2	8.0	9.6	9.9	8.8	9.8	11.4	8.4	7.5	5.9	5.3	4.6	4.8	4.5	4.0	24	11.4	3.2	6.1
7/21/07	4.3	4.2	4.3	4.0	4.3	4.7	4.9	5.1	5.4	5.8	6.4	7.6	7.5	7.2	7.0	8.0	6.3	5.1	4.8	3.7	3.4	3.5	4.0	4.6	24	8.0	3.4	5.3
7/22/07	5.4	5.3	5.4	35.3	21.7	3.1	22.4	8.1	7.0	5.5	5.2	6.1	7.3	10.2	9.6	11.3	10.8	17.8	10.7	9.4	4.2	5.1	6.6	6.1	24	35.3	3.1	10.0
7/23/07	3.8	3.9	10.8	3.8	3.0	11.0	102.7	12.7	102.8	12.6	12.3	12.5	27.6	28.3	15.5	16.6	12.2	6.7	5.5	3.4	2.9	3.5	3.5	3.7	24	102.8	2.9	17.6
7/24/07	3.5	2.3	2.0	2.3	1.9	1.8	2.9	4.0	12.8	13.5	102.8	8.5	8.8	10.3	10.9	9.7	10.1	6.5	4.6	3.5	3.4	3.4	3.4	3.2	24	102.8	1.8	9.8
7/25/07	2.5	2.4	2.7	3.3	4.2	2.9	3.5	4.3	5.9	36.8	20.3	12.7	15.0	20.2	54.1	9.7	9.1	12.4	4.3	4.3	2.5	3.3	3.5	3.5	24	54.1	2.4	10.1
7/26/07	3.2	5.0	13.8	8.5	5.2	6.0	6.8						4.0			69.1	5.5	6.1	5.2	3.8	2.1	1.1	1.7	1.7	17	69.1	1.1	8.8
7/27/07	3.7	2.2	2.1	1.7	2.4	2.2	3.2	6.8	8.0	12.7	16.3	22.9	28.6	19.2	19.9	23.0	19.0	6.4	6.8	5.4	3.4	3.2	3.7	3.8	24	28.6	1.7	9.4
7/28/07	3.3	3.7	4.8	3.4	5.0	5.1	5.3	7.3	8.4	14.4	19.2	38.9	65.5	54.6	54.7	14.1	30.5	24.9	21.2	6.4	5.8	1.7	2.2	1.2	24	65.5	1.2	16.7
7/29/07	1.7	2.4	2.2	3.1	2.5	2.9	1.8	6.7	7.1	9.5	13.9	18.3	16.6	13.1	17.1	12.1	14.2	11.6	5.8	2.0	1.5	2.9	2.8	2.2	24	18.3	1.5	7.3
7/30/07	1.4	1.6	2.1	1.4	1.2	1.6	2.4	5.1	7.6	9.5	7.8	11.3	11.0	11.8	9.7	11.6	8.3	7.9	5.6	3.3	2.5	2.4	2.5	2.2	24	11.8	1.2	5.5
7/31/07	2.7	3.3	3.0	2.6	2.3	2.7	3.6	5.9	7.1	8.9	7.3	7.2	9.9	9.6	7.1	8.4	8.4	7.8	5.3	3.9	2.5	2.8	3.0	3.5	24	9.9	2.3	5.4
hr max	6.1	9.6	13.8	35.3	21.7	20.7	102.7	39.7	102.8	36.8	102.8	38.9	65.5	55.0	54.7	69.1	30.5	32.0	28.6	9.4	24.8	23.7	16.7	9.8				
hr min	1.4	1.6	1.8	1.4	1.2	1.6	1.8	4.0	4.6	4.4	4.7	5.2	4.0	7.0	5.1	5.8	4.5	3.7	3.4	2.0	1.5	1.1	1.4	1.2				
average	3.4	3.7	4.3	5.6	4.4	4.6	9.7	9.1	12.2	10.7	13.6	11.6	15.1	14.3	14.9	13.9	10.8	10.0	7.3	4.1	4.3	4.9	4.4	3.8				

monthly max hr	monthly min hr	monthly ave hr
102.8	1.1	8.4
7/23/07	7/26/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	720
possible hours	744
data capture	96.8%

Basin Electric - Gettysburg S.D. Monitoring Program
July-07
Deg
100sT

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
7/1/07	1.6	1.6	2.0	1.7	2.0	2.1	3.5	4.5	4.4	4.4	5.7	5.8	5.9	5.7	4.2	4.7	4.7	4.5	3.4	2.9	9.5	11.0	14.2	2.7	24	14.2	1.6	4.7
7/2/07	2.8	2.0	2.5	4.1	3.8	2.9	7.1	15.3	20.0	7.8	6.1	5.6	9.5	10.3	9.8	11.5	15.2	9.8	5.8	2.4	2.2	1.6	2.1	1.9	24	20.0	1.6	6.8
7/3/07	1.7	1.7	2.5	2.9	8.6	19.9	26.4	5.9	18.2	13.4	3.7	5.5	19.4	6.6	5.2	5.8	5.8	6.7	5.1	1.8	1.3	2.7	2.7	3.8	24	26.4	1.3	7.4
7/4/07	1.9	2.3	4.6	1.6	2.1	1.9	2.9	4.2	5.7	5.3	6.7	9.3	10.9	10.8	14.2	11.1	9.6	10.3	7.6	2.4	4.1	7.6	3.4	2.8	24	14.2	1.6	6.0
7/5/07	3.3	6.0	2.4	1.9	2.6	3.5	5.3	5.5	11.3	8.4	8.3	7.9	7.7	7.8	10.8	9.1	7.2	6.5	3.9	2.4	1.9	2.2	2.2	0.9	24	11.3	0.9	5.4
7/6/07	1.4	3.0	1.1	1.1	1.4	1.6	1.2	2.5	5.1	6.7	10.2	9.9	9.4	10.3	10.2	8.7	7.0	7.7	2.5	1.2	0.8	0.6	0.6	0.8	24	10.3	0.6	4.4
7/7/07	0.8	1.0	0.9	1.1	1.7	2.0	2.2	3.3	3.8	3.8	4.4	5.2	4.7	7.7	6.7	5.4	4.0	2.7	33.7	7.7	8.1	6.4	2.2	9.4	24	33.7	0.8	5.4
7/8/07	3.6	8.8	8.7	44.5	7.4	5.3	5.0	7.1	4.7	4.8	7.5	5.9	9.0	8.8	9.8	9.1	8.3	7.5	5.5	4.0	2.0	1.1	1.0	1.3	24	44.5	1.0	7.5
7/9/07	1.2	2.4	1.5	1.9	2.7	3.3	3.5	11.2	11.5	19.3	16.9	17.9	44.2	40.3	21.9	22.4	11.2	6.9	3.0	2.6	22.5	13.5	6.3	5.2	24	44.2	1.2	12.2
7/10/07	4.1	3.7	4.2	4.3	4.1	4.7	4.6	4.8	4.8	5.9	4.8	5.8	6.1	7.2	7.7	8.8	8.4	8.3	5.5	6.5	6.5	4.1	1.9	5.5	24	8.8	1.9	5.5
7/11/07	3.2	2.7	1.9	1.6	2.3	2.2	2.2	9.4	6.0	8.6	11.5	13.0	12.3	12.2	14.6										15	14.6	1.6	6.9
7/12/07									11.1	16.9	25.5	16.2	19.9	1.9	10.1	24.7	8.3	6.8	8.7	4.1	2.5	3.0	3.2	1.5	16	25.5	1.5	10.3
7/13/07	1.6	3.4	1.1	1.4	1.7	2.1	2.2	4.9	7.0	7.8	8.9	12.3	10.4	12.5	12.1	13.9	17.5	28.6	10.7	5.2	2.7	7.8	6.5	2.8	24	28.6	1.1	7.7
7/14/07	3.4	5.0	5.5	3.2	3.0	8.0	9.7	8.2	7.0	6.1	10.3	10.2	10.5	9.3	8.2	12.0	8.5	6.3	4.8	2.9	2.5	4.2	1.3	1.6	24	12.0	1.3	6.3
7/15/07	2.0	2.1	1.6	1.8	2.1	2.1	4.3	3.7	5.6	6.5	7.4	11.1	9.1	10.9	18.3	15.7	13.5	21.7	5.4	3.7	0.9	3.7	1.6	2.0	24	21.7	0.9	6.5
7/16/07	2.2	2.2	2.3	2.0	0.9	1.8	2.2	17.9	31.8	15.8	14.1	7.8	8.6	6.0	5.2	6.5	6.7	5.8	5.2	3.1	3.6	3.9	4.6	3.5	24	31.8	0.9	6.8
7/17/07	3.4	3.5	3.4	2.1	1.7	3.2	4.7	7.2	7.1	7.3	6.7	7.0	7.7	7.1	7.8	8.6	8.4	6.4	4.3	2.2	2.9	5.7	3.7	4.2	24	8.6	1.7	5.3
7/18/07	4.2	3.5	4.4	5.7	4.5	4.7	4.7	5.5	5.6	5.4	5.9	5.6	7.0	6.9	7.1	6.6	5.7	4.2	5.7	3.7	3.3	3.6	2.8	2.2	24	7.1	2.2	4.9
7/19/07	1.3	1.9	3.5	3.9	4.0	3.5	3.1	5.9	5.3	6.3	6.2	8.4	12.3	9.2	15.3	11.7	11.7	7.3	5.5	2.1	0.8	1.0	2.3	1.4	24	15.3	0.8	5.6
7/20/07	1.4	1.0	1.4	0.9	0.5	0.8	1.9	4.0	4.7	5.7	7.4	9.0	9.1	7.4	8.6	11.2	7.0	6.1	4.2	3.3	2.3	2.2	2.1	2.4	24	11.2	0.5	4.4
7/21/07	2.6	2.4	2.2	2.4	2.2	3.0	3.0	4.2	4.5	4.7	5.5	6.1	6.2	6.4	6.2	7.2	5.4	4.3	3.9	2.8	2.2	2.5	3.4	3.6	24	7.2	2.2	4.0
7/22/07	3.6	3.3	2.8	31.6	10.7	2.3	22.9	6.7	5.3	4.3	3.9	5.3	5.9	8.1	8.5	9.4	9.7	14.4	8.7	7.8	2.5	3.8	10.2	3.9	24	31.6	2.3	8.2
7/23/07	3.6	2.5	9.4	13.7	3.9	3.6	4.7	4.2	11.3	12.0	11.4	11.2	27.5	21.8	14.2	13.2	11.0	4.9	3.5	1.5	1.0	0.8	1.2	1.3	24	27.5	0.8	8.1
7/24/07	1.3	1.1	0.8	1.0	2.4	2.7	3.8	2.6	12.8	8.8	5.3	6.9	7.1	8.7	9.0	8.3	8.5	4.9	2.7	1.8	1.6	1.7	1.6	1.3	24	12.8	0.8	4.4
7/25/07	1.2	2.4	2.4	2.3	2.6	1.8	1.7	3.3	5.7	36.1	24.1	12.4	14.2	14.1	55.1	8.6	9.2	10.8	4.0	4.2	2.2	2.0	2.6	2.5	24	55.1	1.2	9.4
7/26/07	2.7	4.0	13.4	9.3	4.0	5.0	4.9						3.0			6.4	5.5	5.2	5.1	3.0	2.3	0.9	1.5	0.6	17	13.4	0.6	4.5
7/27/07	2.7	1.4	1.6	1.4	1.4	1.4	2.0	5.8	8.5	10.2	14.7	20.6	24.4	15.8	17.6	20.6	15.3	6.8	6.3	3.8	1.9	1.4	1.6	1.8	24	24.4	1.4	7.9
7/28/07	1.1	2.1	2.9	1.3	3.1	3.1	1.9	4.1	7.0	12.2	17.2	41.7	58.5	53.9	54.6	16.5	38.0	23.6	17.0	5.4	4.7	1.6	2.0	1.3	24	58.5	1.1	15.6
7/29/07	1.7	2.8	1.8	1.8	0.6	0.8	0.8	3.7	6.8	7.9	11.8	15.8	13.5	11.5	14.9	11.8	12.2	10.8	4.9	1.4	1.0	1.2	1.6	1.2	24	15.8	0.6	5.9
7/30/07	1.1	2.1	2.5	2.2	2.3	2.0	1.6	4.3	6.5	9.1	7.7	9.4	9.4	10.6	8.9	10.7	8.4	7.9	4.6	2.7	1.3	1.0	1.3	1.5	24	10.7	1.0	5.0
7/31/07	2.5	2.8	2.6	2.6	1.9	2.0	2.7	5.4	5.9	7.3	6.7	6.3	8.7	8.8	6.7	8.2	7.5	6.6	4.7	2.9	1.7	1.7	2.0	2.5	24	8.8	1.7	4.6
hr max	4.2	8.8	13.4	44.5	10.7	19.9	26.4	17.9	31.8	36.1	25.5	41.7	58.5	53.9	55.1	24.7	38.0	28.6	33.7	7.8	22.5	13.5	14.2	9.4				
hr min	0.8	1.0	0.8	0.9	0.5	0.8	0.8	2.5	3.8	3.8	3.7	5.2	3.0	1.9	4.2	4.7	4.0	2.7	2.5	1.2	0.8	0.6	0.6	0.6				
average	2.3	2.8	3.3	5.2	3.1	3.4	4.9	6.0	8.5	9.3	9.6	10.5	13.3	12.0	13.5	10.9	10.0	8.8	6.5	3.4	3.4	3.5	3.1	2.6				

monthly max hr	monthly min hr	monthly ave hr
58.5	0.5	6.7
7/28/07	7/20/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	720
possible hours	744
data capture	96.8%

Basin Electric - Gettysburg S.D. Monitoring Program
July-07
mps
10VWS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
7/1/07	0.31	0.40	0.30	0.28	0.25	0.33	0.36	0.36	0.35	0.40	0.47	0.42	0.44	0.44	0.46	0.47	0.47	0.46	0.46	0.48	0.33	0.38	0.54	0.53	24	0.54	0.25	0.40
7/2/07	0.37	0.23	0.23	0.17	0.19	0.22	0.21	0.20	0.23	0.40	0.38	0.46	0.36	0.40	0.38	0.29	0.25	0.25	0.30	0.24	0.21	0.23	0.24	0.22	24	0.46	0.17	0.28
7/3/07	0.19	0.21	0.20	0.18	0.35	0.77	0.50	0.38	0.45	0.34	0.34	0.27	0.47	0.54	0.63	0.67	0.50	0.44	0.36	0.23	0.15	0.15	0.15	0.18	24	0.77	0.15	0.36
7/4/07	0.28	0.24	0.26	0.23	0.25	0.22	0.23	0.34	0.32	0.38	0.42	0.46	0.38	0.37	0.41	0.48	0.38	0.28	0.24	0.14	0.15	0.21	0.14	0.11	24	0.48	0.11	0.29
7/5/07	0.13	0.15	0.14	0.22	0.20	0.16	0.17	0.14	0.28	0.33	0.47	0.46	0.49	0.46	0.43	0.41	0.42	0.36	0.33	0.29	0.20	0.20	0.17	0.16	24	0.49	0.13	0.28
7/6/07	0.13	0.13	0.12	0.13	0.16	0.17	0.12	0.13	0.16	0.16	0.21	0.19	0.25	0.33	0.31	0.30	0.31	0.28	0.27	0.27	0.31	0.29	0.35	0.31	24	0.35	0.12	0.22
7/7/07	0.21	0.20	0.26	0.25	0.20	0.19	0.24	0.31	0.29	0.28	0.30	0.23	0.34	0.30	0.31	0.34	0.20	0.21	0.19	0.28	0.28	0.26	0.17	0.35	24	0.35	0.17	0.26
7/8/07	0.47	0.50	0.50	0.34	0.46	0.49	0.65	0.47	0.47	0.31	0.29	0.34	0.39	0.41	0.40	0.41	0.43	0.39	0.42	0.35	0.31	0.27	0.24	0.29	24	0.65	0.24	0.40
7/9/07	0.29	0.29	0.30	0.23	0.16	0.14	0.17	0.23	0.18	0.17	0.20	0.22	0.20	0.09	0.17	0.22	0.26	0.35	0.31	0.33	0.23	0.22	0.26	0.38	24	0.38	0.09	0.23
7/10/07	0.44	0.44	0.45	0.68	0.72	0.55	0.67	0.76	0.88	0.79	0.85	0.83	0.80	0.76	0.72	0.69	0.64	0.61	0.52	0.44	0.32	0.20	0.17	0.25	24	0.88	0.17	0.59
7/11/07	0.24	0.22	0.20	0.24	0.18	0.21	0.25	0.27	0.29		0.35	0.33	0.41	0.40	0.35										14	0.41	0.18	0.28
7/12/07									0.17	0.15	0.19	0.18				-0.06	0.37	0.43	0.37	0.22	0.13	0.13	0.11	0.14	13	0.43	-0.06	0.19
7/13/07	0.11	0.10	0.11	0.11	0.13	0.18	0.17	0.21	0.27	0.30	0.38		0.40	0.39	0.38	0.38	0.26	0.18	0.19	0.16	0.12	0.14	0.24	0.33	23	0.40	0.10	0.23
7/14/07	0.31	0.35	0.24	0.20	0.25	0.26	0.19	0.26	0.28	0.42	0.41	0.50	0.47	0.52	0.62	0.56	0.54	0.45	0.41	0.32	0.22	0.14	0.14	0.15	24	0.62	0.14	0.34
7/15/07	0.10	0.09	0.09	0.12	0.10	0.13	0.13	0.14	0.18	0.22	0.19	0.18	0.18	0.20	0.22	0.19	0.13	0.18	0.10	0.15	0.17	0.14	0.16	0.20	24	0.22	0.09	0.15
7/16/07	0.21	0.20	0.21	0.20	0.20	0.22	0.20	0.19	0.12	0.11	0.20	0.49	0.40	0.30	0.25	0.26	0.27	0.25	0.19	0.18	0.21	0.24	0.26	0.24	24	0.49	0.11	0.23
7/17/07	0.22	0.17	0.13	0.14	0.12	0.16	0.17	0.20	0.28	0.31	0.28	0.31	0.29	0.33	0.26	0.35	0.28	0.26	0.30	0.20	0.22	0.30	0.32	0.28	24	0.35	0.12	0.25
7/18/07	0.26	0.22	0.17	0.24	0.21	0.21	0.24	0.32	0.25	0.32	0.41	0.33	0.40	0.34	0.33	0.30	0.31	0.27	0.26	0.20	0.18	0.17	0.19	0.26	24	0.41	0.17	0.27
7/19/07	0.20	0.17	0.18	0.13	0.17	0.16	0.20	0.21	0.29	0.32	0.28	0.26	0.27	0.19	0.25	0.26	0.24	0.24	0.23	0.18	0.17	0.16	0.17	0.19	24	0.32	0.13	0.21
7/20/07	0.20	0.19	0.19	0.22	0.20	0.24	0.25	0.26	0.28	0.28	0.27	0.29	0.31	0.33	0.33	0.36	0.39	0.43	0.46	0.36	0.30	0.31	0.31	0.30	24	0.46	0.19	0.29
7/21/07	0.30	0.31	0.33	0.28	0.27	0.29	0.34	0.38	0.38	0.38	0.32	0.37	0.31	0.31	0.32	0.33	0.32	0.39	0.31	0.30	0.28	0.23	0.23	0.23	24	0.39	0.23	0.31
7/22/07	0.29	0.30	0.23	0.22	0.15	0.19	0.26	0.36	0.30	0.38	0.37	0.24	0.27	0.27	0.24	0.21	0.18	0.16	0.17	0.20	0.16	0.16	0.12	0.13	24	0.38	0.12	0.23
7/23/07	0.12	0.14	0.12	0.11	0.13	-0.18		-0.16		0.18	0.21	0.25	0.14	0.15	0.21	0.22	0.22	0.23	0.27	0.25	0.23	0.27	0.30	0.27	22	0.30	-0.18	0.17
7/24/07	0.20	0.14	0.19	0.19	0.15	0.15	0.19	0.11	0.26	0.07		0.40	0.37	0.39	0.31	0.31	0.37	0.38	0.29	0.26	0.30	0.27	0.29	0.27	23	0.40	0.07	0.25
7/25/07	0.25	0.20	0.17	0.19	0.22	0.19	0.26	0.32	0.21		-0.21	-0.67	-0.45	-0.23	0.28	0.25	0.23	0.32	0.21	0.20	0.27	0.31	0.31	0.31	23	0.32	-0.67	0.14
7/26/07	0.21	0.26	0.24	0.45	0.83	1.20	0.82						0.57				0.46	0.53	0.40	0.31	0.27	0.25	0.23	0.22	16	1.20	0.21	0.45
7/27/07	0.22	0.19	0.26	0.25	0.17	0.20	0.20	0.22	0.21	0.31	0.22	7.00	0.20	0.18	0.24	0.28	0.19	0.25	0.32	0.22	0.19	0.18	0.15	0.17	24	7.00	0.15	0.50
7/28/07	0.14	0.11	0.14	0.12	0.12	0.12	0.15	0.21	0.21	0.22	0.15	0.11	0.22	0.17	0.17	0.13	0.15	0.18	0.13	0.17	0.17	0.15	0.19	0.18	24	0.22	0.11	0.16
7/29/07	0.10	0.21	0.20	0.16	0.16	0.17	0.15	0.15	0.17	0.17	0.21	0.21	0.22	0.22	0.18	0.23	0.22	0.23	0.26	0.21	0.21	0.26	0.25	0.24	24	0.26	0.10	0.20
7/30/07	0.16	0.13	0.12	0.12	0.12	0.15	0.17	0.24	0.21	0.23	0.24	0.27	0.25	0.28	0.25	0.35	0.37	0.30	0.34	0.30	0.26	0.29	0.30	0.28	24	0.37	0.12	0.24
7/31/07	0.22	0.15	0.15	0.18	0.23	0.28	0.24	0.21	0.33	0.29	0.23	0.27	0.27	0.38	0.32	0.34	0.30	0.32	0.33	0.26	0.28	0.32	0.26	0.18	24	0.38	0.15	0.26
hr max	0.47	0.50	0.50	0.68	0.83	1.20	0.82	0.76	0.88	0.79	0.85	7.00	0.80	0.76	0.72	0.69	0.64	0.61	0.52	0.48	0.33	0.38	0.54	0.53				
hr min	0.10	0.09	0.09	0.11	0.10	-0.18	0.12	-0.16	0.12	0.07	-0.21	-0.67	-0.45	-0.23	0.17	-0.06	0.13	0.16	0.10	0.14	0.12	0.13	0.11	0.11				
average	0.23	0.22	0.21	0.22	0.24	0.26	0.27	0.26	0.29	0.29	0.30	0.52	0.32	0.32	0.34	0.33	0.32	0.32	0.30	0.26	0.23	0.23	0.23	0.25				

monthly	monthly	monthly
max hr	min hr	ave hr
7.00	-0.67	0.28
7/27/07	7/25/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	710
possible hours	744
data capture	95.4%

Basin Electric - Gettysburg S.D. Monitoring Program
July-07
mps
50VWS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
7/1/07	0.39	0.56	0.45	0.43	0.33	0.37	0.34	0.33	0.26	0.37	0.41	0.27	0.43	0.20	0.37	0.41	0.41	0.50	0.55	0.58	0.31	0.35	0.56	0.66	24	0.66	0.20	0.41
7/2/07	0.51	0.45	0.20	0.09	0.17	0.38	0.21	0.15	0.08	0.20	0.13	0.30	0.26	0.33	0.27	0.10	0.21	0.11	0.15	0.21	0.15	0.12	0.20	0.16	24	0.51	0.08	0.21
7/3/07	0.16	0.13	0.07	0.05	0.19	0.62	0.32	0.43	0.34	0.35	0.45	0.31	0.44	0.31	0.23	0.29	0.30	0.29	0.21	0.14	0.03	0.05	0.04	0.06	24	0.62	0.03	0.24
7/4/07	0.31	0.19	0.14	0.28	0.35	0.36	0.25	0.27	0.18	0.12	0.12	0.30	0.17	0.16	0.17	0.48	0.27	0.02	0.11	0.08	0.03	0.04	0.02	0.02	24	0.48	0.02	0.19
7/5/07	0.02	0.07	0.32	0.47	0.51	0.45	0.24	0.04	0.13	0.13	0.33	0.20	0.15	0.25	0.18	0.12	0.24	0.12	0.17	0.15	0.18	0.05	0.04	0.04	24	0.51	0.02	0.19
7/6/07	0.04	0.04	0.18	0.45	0.41	0.34	0.10	0.09	0.08	0.00	0.09	0.08	0.16	0.20	0.37	0.21	0.19	0.39	0.27	0.40	0.50	0.45	0.48	0.50	24	0.50	0.00	0.25
7/7/07	0.44	0.43	0.46	0.44	0.35	0.07	-0.04	0.28	0.32	0.35	0.34	0.32	0.36	0.49	0.40	0.61	0.38	0.38	0.24	0.20	0.25	0.18	0.05	0.36	24	0.61	-0.04	0.32
7/8/07	0.45	0.40	0.59	0.31	0.31	0.36	0.38	0.30	0.31	0.18	0.20	0.10	0.23	0.19	0.19	0.24	0.28	0.24	0.33	0.29	0.30	0.32	0.24	0.33	24	0.59	0.10	0.29
7/9/07	0.29	0.32	0.28	0.19	0.07	0.02	0.04	0.08	0.04	0.10	0.09	0.08	0.04	-0.03	-0.05	0.18	0.11	0.34	0.32	0.34	0.20	0.22	0.51	0.52	24	0.52	-0.05	0.18
7/10/07	0.40	0.41	0.46	0.66	0.60	0.44	0.53	0.53	0.59	0.63	0.48	0.57	0.35	0.42	0.33	0.51	0.39	0.39	0.36	0.32	0.31	0.15	0.18	0.23	24	0.66	0.15	0.43
7/11/07	0.18	0.21	0.20	0.29	0.17	0.00	0.19	0.14	0.16	0.33	0.06	0.16	0.25	0.27	0.13										15	0.33	0.00	0.18
7/12/07									0.05	0.04	0.09	0.08	0.49			0.20	0.95	0.23	0.35	0.22	0.28	0.33	0.11	0.11	14	0.95	0.04	0.25
7/13/07	0.09	0.00	0.38	0.44	0.38	-0.06	-0.05	0.20	0.29	0.27	0.15	0.09	0.09	0.18	0.08	0.22	0.11	0.09	0.08	0.17	0.19	0.31	0.37	0.20	24	0.44	-0.06	0.18
7/14/07	0.05	0.34	0.20	0.06	0.03	0.06	0.05	0.14	0.07	0.18	0.10	0.22	0.33	0.20	0.41	0.34	0.44	0.28	0.27	0.29	0.30	0.28	0.39	0.45	24	0.45	0.03	0.23
7/15/07	0.41	0.35	0.34	0.32	0.34	0.27	0.16	0.10	0.14	0.27	0.17	0.17	-0.05	0.05	0.09	0.13	0.01	0.12	0.06	0.34	0.60	0.54	-0.11	-0.09	24	0.60	-0.11	0.20
7/16/07	0.12	0.56	0.58	0.52	0.54	0.51	0.35	0.12	0.02	0.01	0.14	0.34	0.45	0.28	0.20	0.26	0.33	0.18	0.25	0.28	0.31	0.27	0.26	0.28	24	0.58	0.01	0.30
7/17/07	0.24	0.19	0.17	0.13	0.17	0.10	0.11	0.08	0.39	0.33	0.12	0.26	0.27	0.18	0.21	0.49	0.16	0.13	0.34	0.27	0.23	0.26	0.28	0.30	24	0.49	0.08	0.23
7/18/07	0.30	0.27	0.22	0.22	0.22	0.17	0.19	0.23	0.22	0.25	0.36	0.31	0.34	0.41	0.26	0.34	0.30	0.28	0.22	0.18	0.19	0.11	0.11	0.30	24	0.41	0.11	0.25
7/19/07	0.25	0.19	0.19	0.14	0.14	0.09	0.12	0.17	0.19	0.26	0.12	0.15	0.16	-0.04	0.18	0.17	0.22	0.12	0.30	0.28	0.35	0.26	0.32	0.48	24	0.48	-0.04	0.20
7/20/07	0.53	0.47	0.48	0.60	0.61	0.60	0.53	0.41	0.39	0.27	0.32	0.35	0.25	0.25	0.39	0.53	0.46	0.50	0.53	0.47	0.47	0.49	0.52	0.57	24	0.61	0.25	0.46
7/21/07	0.52	0.54	0.56	0.49	0.49	0.45	0.50	0.46	0.57	0.30	0.32	0.53	0.24	0.34	0.15	0.42	0.51	0.53	0.53	0.56	0.58	0.53	0.27	0.07	24	0.58	0.07	0.44
7/22/07	0.18	0.40	0.35	0.17	0.07	0.03	0.51	0.47	0.46	0.57	0.47	0.16	0.07	0.19	0.15	0.08	0.08	0.23	0.10	0.25	0.16	0.17	0.15	0.12	24	0.57	0.03	0.23
7/23/07	0.13	0.09	0.12	0.10	0.32	0.13		-0.08		0.21	0.31	0.25	0.18	0.11	0.13	0.15	0.23	0.20	0.32	0.44	0.54	0.56	0.53	0.49	22	0.56	-0.08	0.25
7/24/07	0.48	0.41	0.53	0.50	0.44	0.50	0.45	0.23	0.25	0.08		0.38	0.34	0.43	0.23	0.27	0.44	0.32	0.32	0.46	0.52	0.55	0.53	0.57	23	0.57	0.08	0.40
7/25/07	0.59	0.58	0.10	-0.01	0.31	0.39	0.42	0.39	0.11	-0.28	1.13	0.14	-0.03	-0.08	1.24	0.19	0.14	0.40	0.33	0.42	0.64	0.60	0.63	0.59	24	1.24	-0.28	0.37
7/26/07	0.39	0.11	0.32	0.25	0.54	0.91	0.63						0.20				0.19	0.37	0.19	0.30	0.34	0.36	0.19	0.10	16	0.91	0.10	0.34
7/27/07	0.19	0.12	0.22	0.25	0.08	0.05	0.06	0.10	0.19	0.52	0.12	0.00	0.14	-0.01	0.14	0.29	-0.01	0.16	0.31	0.26	0.23	0.27	0.24	0.24	24	0.52	-0.01	0.17
7/28/07	0.20	0.17	0.13	0.22	0.17	0.14	0.19	0.11	0.27	0.15	0.10	-0.18	0.01	0.35	0.12	-0.10	0.07	0.03	0.06	0.19	0.26	0.55	0.66	0.61	24	0.66	-0.18	0.19
7/29/07	0.13	0.36	0.50	0.49	0.48	0.46	0.47	0.20	0.19	0.03	0.14	0.14	0.10	0.13	0.23	0.21	0.20	0.17	0.29	0.46	0.62	0.62	0.59	0.59	24	0.62	0.03	0.33
7/30/07	0.57	0.51	0.15	0.17	0.29	0.32	0.34	0.28	0.33	0.29	0.13	0.18	0.19	0.25	0.12	0.45	0.46	0.40	0.44	0.49	0.54	0.59	0.61	0.59	24	0.61	0.12	0.36
7/31/07	0.48	0.27	0.22	0.30	0.46	0.50	0.40	0.19	0.15	0.29	0.12	0.00	0.16	0.30	0.16	0.31	0.42	0.12	0.49	0.47	0.54	0.62	0.53	0.40	24	0.62	0.00	0.33
hr max	0.59	0.58	0.59	0.66	0.61	0.91	0.63	0.53	0.59	0.63	1.13	0.57	0.49	0.49	1.24	0.61	0.95	0.53	0.55	0.58	0.64	0.62	0.66	0.66				
hr min	0.02	0.00	0.07	-0.01	0.03	-0.06	-0.05	-0.08	0.02	-0.28	0.06	-0.18	-0.05	-0.08	-0.05	-0.10	-0.01	0.02	0.06	0.08	0.03	0.04	-0.11	-0.09				
average	0.30	0.30	0.30	0.30	0.32	0.30	0.28	0.22	0.23	0.23	0.25	0.21	0.22	0.22	0.24	0.28	0.28	0.25	0.28	0.32	0.34	0.34	0.32	0.33				

monthly max hr	monthly min hr	monthly ave hr
1.24	-0.28	0.28
7/25/07	7/25/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	714
possible hours	744
data capture	96.0%

Basin Electric - Gettysburg S.D. Monitoring Program
July-07
mps
100VWS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
7/1/07	0.47	0.55	0.43	0.45	0.34	0.32	0.07	-0.14	-0.50	0.02	0.11	-0.08	-0.16	-0.47	0.02	0.03	0.03	0.20	0.04	-0.04	-0.12	0.20	0.48	0.44	24	0.55	-0.50	0.11
7/2/07	0.26	-1.03	-1.47	0.07	-0.29	0.18	0.45	0.06	0.26	0.44	0.32	0.50	0.27	0.24	0.14	0.06	0.17	0.11	0.26	0.24	0.21	0.19	0.39	0.31	24	0.50	-1.47	0.10
7/3/07	0.08	0.05	0.01	0.00	0.27	0.89	0.38	0.32	0.59	0.39	0.48	0.42	0.73	0.47	0.41	0.54	0.36	0.49	0.36	0.30	0.28	0.28	0.13	0.25	24	0.89	0.00	0.35
7/4/07	0.55	0.43	0.31	0.01	0.26	0.52	0.53	0.47	0.24	0.17	0.16	0.46	0.29	0.25	0.22	0.73	0.40	-0.01	0.10	0.10	0.04	0.04	-0.02	-0.01	24	0.73	-0.02	0.26
7/5/07	-0.03	0.20	0.21	0.27	0.56	0.24	0.33	0.14	0.25	0.19	0.52	0.29	0.21	0.30	0.28	0.21	0.42	0.22	0.26	0.30	0.32	0.01	0.01	0.00	24	0.56	-0.03	0.24
7/6/07	0.00	0.00	0.03	0.16	0.02	0.00	0.16	0.06	-0.01	-0.13	-0.09	-0.09	-0.01	-0.01	0.21	0.12	0.10	0.36	0.17	0.30	0.01	-0.10	-0.01	0.42	24	0.42	-0.13	0.07
7/7/07	0.36	0.42	0.36	-0.85	-0.99	0.84	0.81	0.46	0.33	0.29	0.26	0.41	0.27	0.55	0.39	0.70	0.47	0.54	0.34	0.39	0.58	0.32	0.15	0.59	24	0.84	-0.99	0.33
7/8/07	0.81	0.81	1.33	0.47	0.57	0.64	0.67	0.39	0.48	0.36	0.31	0.27	0.31	0.16	0.35	0.29	0.41	0.40	0.48	0.57	0.55	0.51	0.46	0.52	24	1.33	0.16	0.51
7/9/07	0.65	0.70	0.68	0.37	0.34	0.01	0.08	0.07	-0.04	0.06	0.10	0.06	-0.10	-0.02	-0.23	0.15	0.02	0.38	0.27	0.45	-0.07	0.31	0.74	0.80	24	0.80	-0.23	0.24
7/10/07	0.71	0.75	0.82	1.14	1.09	0.80	0.89	0.80	0.90	0.96	0.65	0.94	0.57	0.70	0.66	0.75	0.68	0.65	0.54	0.56	0.59	0.42	0.42	0.30	24	1.14	0.30	0.72
7/11/07	0.50	0.45	0.43	0.37	0.27	0.08	-0.02	0.15	0.21	0.28	0.10	0.21	0.32	0.35	0.10										15	0.50	-0.02	0.25
7/12/07										0.08	0.09	0.16	0.17	0.15	-0.42	0.19	-4.13	0.29	0.49	0.33	0.39	0.42	0.14	0.00	15	0.49	-4.13	-0.11
7/13/07	0.00	-0.01	0.09	0.08	-0.62	0.42	0.78	0.48	0.23	0.20	0.04	0.09	-0.07	0.16	0.00	0.29	0.28	0.12	0.06	0.03	0.01	0.07	0.58	0.53	24	0.78	-0.62	0.16
7/14/07	0.50	0.68	0.24	0.06	0.08	0.05	0.08	0.08	0.03	0.08	0.14	0.35	0.41	0.31	0.66	0.57	0.72	0.37	0.49	0.52	0.51	0.39	0.00	0.00	24	0.72	0.00	0.31
7/15/07	0.00	0.04	0.08	0.05	0.13	0.08	-0.10	-0.06	-0.02	0.14	-0.10	0.03	-0.41	-0.14	-0.08	0.00	-0.17	-0.02	-0.15	0.06	0.12	-0.50	0.34	0.57	24	0.57	-0.50	0.00
7/16/07	0.89	0.69	0.30	0.00	0.00	0.00	0.04	0.21	-0.06	0.04	0.15	0.47	0.53	0.24	0.10	0.16	0.27	0.11	0.13	0.32	0.45	0.40	0.36	0.45	24	0.89	-0.06	0.26
7/17/07	0.28	0.24	0.24	0.18	0.05	0.09	0.11	0.13	0.45	0.50	0.10	0.26	0.23	0.12	0.19	0.60	0.09	0.12	0.40	0.35	0.41	0.46	0.47	0.43	24	0.60	0.05	0.27
7/18/07	0.34	0.38	0.28	0.36	0.37	0.28	0.30	0.37	0.28	0.31	0.40	0.32	0.42	0.55	0.36	0.48	0.34	0.39	0.32	0.30	0.32	0.29	0.36	0.61	24	0.61	0.28	0.36
7/19/07	0.64	0.51	0.36	0.22	0.24	0.26	0.33	0.24	0.25	0.27	0.01	0.03	0.15	-0.08	0.12	0.14	0.21	0.09	0.31	0.40	0.59	0.49	0.37	0.69	24	0.69	-0.08	0.29
7/20/07	0.65	0.15	0.18	0.52	0.33	0.13	0.26	0.18	0.05	-0.22	-0.11	-0.07	-0.13	-0.19	0.13	0.29	0.36	0.40	0.38	0.44	0.51	0.62	0.68	0.24	24	0.68	-0.22	0.24
7/21/07	0.08	0.07	0.03	0.11	0.14	0.27	0.24	0.07	0.18	-0.14	-0.03	0.08	-0.33	-0.51	-0.75	-0.20	-0.05	0.16	0.23	0.20	0.36	-0.36	-1.57	-0.81	24	0.36	-1.57	-0.11
7/22/07	0.33	0.58	0.67	0.29	0.24	0.61	0.30	0.41	0.38	0.27	0.07	-0.08	-0.30	0.18	0.10	-0.16	-0.09	0.26	0.02	0.35	0.41	0.33	0.06	0.12	24	0.67	-0.30	0.22
7/23/07	0.24	0.23	-0.02	0.05	0.23	-0.08		-0.17		0.16	0.26	0.17	0.22	0.03	0.01	0.07	0.21	0.15	0.30	0.40	0.61	0.74	0.63	0.20	22	0.74	-0.17	0.21
7/24/07	0.14	0.21	0.12	0.13	-0.34	0.40	0.19	-0.41	0.23	-0.01		0.27	0.23	0.31	0.16	0.20	0.35	0.20	0.34	0.52	0.58	0.38	0.07	0.38	23	0.58	-0.41	0.20
7/25/07	0.37	-0.72	0.34	0.68	0.42	-0.68	0.17	0.14	-0.47	-0.09	-4.01	0.38	0.30	0.26	-4.40	-0.12	0.00	0.34	0.28	0.13	0.19	0.32	0.37	0.10	24	0.68	-4.40	-0.24
7/26/07	-1.04	-0.28	0.38	0.45	0.73	1.15	1.18						0.20				0.19	0.37	0.19	0.30	0.34	0.36	0.19	0.10	16	1.18	-1.04	0.30
7/27/07	0.19	0.12	0.22	0.25	0.08	0.05	0.06	0.10	0.23	0.64	0.11	-0.12	0.20	0.05	0.10	0.44	-0.05	0.19	0.40	0.34	0.39	0.47	0.43	0.44	24	0.64	-0.12	0.22
7/28/07	0.31	0.32	0.19	0.06	0.25	0.25	0.37	0.14	0.28	-0.02	-0.03	-0.27	0.04	0.56	0.09	-0.14	0.07	-0.04	-0.03	0.14	0.26	0.57	0.36	-0.47	24	0.57	-0.47	0.14
7/29/07	0.30	0.67	0.52	0.45	0.47	0.22	0.00	0.10	0.16	-0.01	-0.03	-0.03	-0.17	-0.09	-0.03	-0.01	-0.03	0.08	0.26	0.29	0.63	0.72	0.39	0.36	24	0.72	-0.17	0.22
7/30/07	0.01	-1.54	-0.15	0.36	0.36	-0.37	-1.08	-0.36	0.04	-0.08	-0.18	-0.25	-0.15	0.00	-0.24	-0.02	0.18	0.14	0.08	0.07	0.05	0.08	0.11	0.37	24	0.37	-1.54	-0.11
7/31/07	-0.21	-1.01	-1.43	-1.37	-0.69	-0.07	-0.05	-0.48	-0.21	0.03	-0.26	-0.56	-0.33	-0.44	-0.80	-0.31	-0.17	-0.28	0.07	0.19	0.35	0.21	-0.12	-1.57	24	0.35	-1.57	-0.40
hr max	0.89	0.81	1.33	1.14	1.09	1.15	1.18	0.80	0.90	0.96	0.65	0.94	0.73	0.70	0.66	0.75	0.72	0.65	0.54	0.57	0.63	0.74	0.74	0.80	monthly	monthly	monthly
hr min	-1.04	-1.54	-1.47	-1.37	-0.99	-0.68	-1.08	-0.48	-0.50	-0.22	-4.01	-0.56	-0.41	-0.51	-4.40	-0.31	-4.13	-0.28	-0.15	-0.04	-0.12	-0.50	-1.57	-1.57	max hr	min hr	ave hr
average	0.28	0.16	0.19	0.18	0.16	0.25	0.26	0.14	0.17	0.17	-0.02	0.15	0.13	0.13	-0.07	0.21	0.05	0.23	0.25	0.30	0.33	0.29	0.23	0.21	1.33	-4.40	0.18
																									7/8/07	7/25/07	

Validated by: Roger L. Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	715
possible hours	744
data capture	96.1%

Basin Electric - Gettysburg S.D. Monitoring Program
July-07
Deg
10SW

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
7/1/07	0.37	0.48	0.48	0.42	0.37	0.42	0.47	0.59	0.62	0.64	0.64	0.64	0.70	0.71	0.69	0.70	0.70	0.63	0.53	0.55	0.49	0.37	0.71	0.71	24	0.71	0.37	0.57
7/2/07	0.51	0.47	0.41	0.21	0.20	0.14	0.25	0.29	0.37	0.41	0.34	0.48	0.41	0.40	0.45	0.37	0.31	0.28	0.28	0.24	0.14	0.16	0.21	0.16	24	0.51	0.14	0.31
7/3/07	0.14	0.13	0.13	0.09	0.32	0.71	0.51	0.35	0.36	0.38	0.38	0.32	0.52	0.47	0.52	0.51	0.39	0.33	0.26	0.11	0.07	0.08	0.07	0.11	24	0.71	0.07	0.30
7/4/07	0.11	0.11	0.12	0.12	0.13	0.13	0.22	0.29	0.32	0.37	0.42	0.42	0.44	0.39	0.40	0.38	0.33	0.22	0.18	0.08	0.09	0.11	0.05	0.09	24	0.44	0.05	0.23
7/5/07	0.04	0.09	0.07	0.10	0.11	0.09	0.13	0.23	0.29	0.34	0.41	0.42	0.43	0.44	0.42	0.38	0.36	0.30	0.23	0.11	0.10	0.11	0.09	0.08	24	0.44	0.04	0.22
7/6/07	0.09	0.05	0.08	0.09	0.10	0.11	0.12	0.23	0.32	0.39	0.39	0.46	0.46	0.50	0.46	0.42	0.42	0.36	0.30	0.21	0.35	0.37	0.45	0.41	24	0.50	0.05	0.30
7/7/07	0.35	0.37	0.43	0.40	0.37	0.36	0.34	0.44	0.42	0.41	0.38	0.35	0.44	0.39	0.43	0.41	0.26	0.25	0.26	0.15	0.17	0.13	0.09	0.23	24	0.44	0.09	0.33
7/8/07	0.41	0.42	0.39	0.46	0.38	0.40	0.50	0.41	0.45	0.26	0.25	0.35	0.43	0.43	0.38	0.39	0.35	0.34	0.32	0.27	0.16	0.11	0.12	0.14	24	0.50	0.11	0.34
7/9/07	0.18	0.14	0.12	0.10	0.08	0.08	0.19	0.29	0.33	0.40	0.40	0.42	0.51	0.48	0.38	0.39	0.42	0.41	0.36	0.38	0.38	0.24	0.33	0.42	24	0.51	0.08	0.31
7/10/07	0.45	0.43	0.48	0.68	0.67	0.58	0.65	0.71	0.70	0.73	0.70	0.69	0.65	0.66	0.61	0.62	0.57	0.50	0.41	0.30	0.15	0.09	0.10	0.16	24	0.73	0.09	0.51
7/11/07	0.17	0.16	0.14	0.12	0.11	0.14	0.25	0.30	0.38		0.51	0.54	0.53	0.51	0.45										14	0.54	0.11	0.31
7/12/07									0.26	0.15	0.19	0.23				0.68	0.25	0.36	0.28	0.18	0.11	0.11	0.11	0.11	13	0.68	0.11	0.23
7/13/07	0.10	0.09	0.07	0.09	0.13	0.19	0.33	0.42	0.47	0.46	0.49		0.47	0.47	0.44	0.41	0.34	0.26	0.17	0.09	0.08	0.07	0.16	0.12	23	0.49	0.07	0.26
7/14/07	0.10	0.16	0.11	0.09	0.10	0.10	0.14	0.23	0.31	0.39	0.45	0.48	0.45	0.52	0.54	0.51	0.45	0.38	0.34	0.26	0.13	0.15	0.15	0.12	24	0.54	0.09	0.28
7/15/07	0.09	0.10	0.09	0.09	0.08	0.08	0.09	0.20	0.40	0.44	0.42	0.47	0.50	0.49	0.45	0.41	0.37	0.30	0.17	0.15	0.23	0.22	0.16	0.23	24	0.50	0.08	0.26
7/16/07	0.29	0.24	0.23	0.16	0.12	0.13	0.19	0.19	0.26	0.33	0.31	0.44	0.58	0.53	0.50	0.52	0.47	0.37	0.28	0.18	0.27	0.32	0.36	0.35	24	0.58	0.12	0.32
7/17/07	0.27	0.17	0.12	0.09	0.10	0.11	0.23	0.32	0.38	0.49	0.48	0.53	0.53	0.54	0.48	0.46	0.42	0.39	0.41	0.26	0.29	0.37	0.32	0.45	24	0.54	0.09	0.34
7/18/07	0.41	0.32	0.19	0.26	0.36	0.30	0.32	0.42	0.37	0.57	0.55	0.55	0.58	0.48	0.43	0.39	0.37	0.32	0.32	0.22	0.20	0.15	0.12	0.14	24	0.58	0.12	0.35
7/19/07	0.14	0.14	0.22	0.15	0.17	0.12	0.20	0.34	0.45	0.50	0.53	0.49	0.54	0.51	0.52	0.49	0.45	0.39	0.35	0.21	0.18	0.18	0.23	0.26	24	0.54	0.12	0.32
7/20/07	0.34	0.34	0.30	0.38	0.40	0.46	0.56	0.57	0.61	0.63	0.62	0.64	0.64	0.67	0.64	0.68	0.64	0.67	0.65	0.53	0.47	0.50	0.52	0.50	24	0.68	0.30	0.54
7/21/07	0.50	0.54	0.53	0.52	0.44	0.49	0.55	0.63	0.69	0.70	0.70	0.72	0.69	0.70	0.69	0.68	0.68	0.64	0.55	0.44	0.44	0.44	0.46	0.44	24	0.72	0.44	0.58
7/22/07	0.42	0.42	0.38	0.29	0.22	0.16	0.35	0.56	0.57	0.64	0.63	0.56	0.59	0.53	0.50	0.45	0.38	0.27	0.16	0.21	0.17	0.16	0.09	0.05	24	0.64	0.05	0.37
7/23/07	0.05	0.07	0.05	0.08	0.10	2.61		2.60		0.39	0.42	0.51	0.48	0.48	0.46	0.45	0.39	0.35	0.42	0.31	0.28	0.40	0.42	0.39	22	2.61	0.05	0.53
7/24/07	0.33	0.20	0.23	0.22	0.19	0.13	0.20	0.27	0.43	2.61		0.62	0.65	0.61	0.56	0.51	0.51	0.47	0.39	0.31	0.32	0.30	0.35	0.33	23	2.61	0.13	0.47
7/25/07	0.26	0.23	0.21	0.21	0.23	0.17	0.32	0.46	0.42		0.58	0.47	0.58	0.52	0.45	0.49	0.45	0.40	0.29	0.17	0.28	0.46	0.45	0.44	23	0.58	0.17	0.37
7/26/07	0.37	0.35	0.25	0.40	0.62	0.83	0.69						0.41				0.38	0.47	0.45	0.27	0.14	0.12	0.10	0.09	16	0.83	0.09	0.37
7/27/07	0.10	0.10	0.12	0.10	0.09	0.10	0.13	0.31	0.40	0.47	0.48	0.50	0.48	0.51	0.44	0.48	0.40	0.25	0.34	0.31	0.21	0.21	0.20	0.20	24	0.51	0.09	0.29
7/28/07	0.20	0.11	0.10	0.09	0.09	0.10	0.15	0.27	0.35	0.43	0.43	0.53	0.54	0.46	0.49	0.36	0.40	0.28	0.23	0.15	0.12	0.08	0.19	0.19	24	0.54	0.08	0.26
7/29/07	0.11	0.12	0.14	0.13	0.12	0.12	0.16	0.25	0.34	0.41	0.48	0.52	0.57	0.52	0.52	0.51	0.43	0.40	0.38	0.25	0.22	0.36	0.36	0.30	24	0.57	0.11	0.32
7/30/07	0.20	0.17	0.17	0.15	0.14	0.14	0.26	0.37	0.42	0.48	0.53	0.55	0.53	0.57	0.53	0.56	0.55	0.54	0.50	0.39	0.34	0.37	0.39	0.34	24	0.57	0.14	0.38
7/31/07	0.29	0.26	0.27	0.29	0.30	0.34	0.38	0.46	0.47	0.52	0.55	0.57	0.60	0.64	0.62	0.60	0.56	0.52	0.46	0.39	0.34	0.40	0.38	0.41	24	0.64	0.26	0.44
hr max	0.51	0.54	0.53	0.68	0.67	2.61	0.69	2.60	0.70	2.61	0.70	0.72	0.70	0.71	0.69	0.70	0.70	0.67	0.65	0.55	0.49	0.50	0.71	0.71				
hr min	0.04	0.05	0.05	0.08	0.08	0.08	0.09	0.19	0.26	0.15	0.19	0.23	0.41	0.39	0.38	0.36	0.25	0.22	0.16	0.08	0.07	0.07	0.05	0.05				
average	0.25	0.23	0.22	0.22	0.23	0.33	0.31	0.45	0.42	0.53	0.47	0.50	0.53	0.52	0.50	0.49	0.43	0.39	0.34	0.26	0.23	0.24	0.26	0.27				

monthly max hr	monthly min hr	monthly ave hr
2.61	0.04	0.36
7/23/07	7/5/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	710
possible hours	744
data capture	95.4%

Basin Electric - Gettysburg S.D. Monitoring Program
July-07
Deg
50SW

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
7/1/07	0.43	0.50	0.51	0.42	0.43	0.43	0.62	0.73	0.77	0.85	0.94	0.93	0.98	0.93	0.89	0.95	0.95	0.83	0.66	0.63	0.60	0.45	1.21	0.81	24	1.21	0.42	0.73
7/2/07	0.58	0.48	0.45	0.26	0.28	0.12	0.31	0.45	0.68	0.69	0.50	0.65	0.57	0.69	0.80	0.65	0.67	0.49	0.42	0.21	0.19	0.27	0.29	0.26	24	0.80	0.12	0.46
7/3/07	0.22	0.23	0.15	0.10	0.43	1.19	0.88	0.36	0.40	0.45	0.38	0.42	0.85	0.80	0.80	0.80	0.59	0.55	0.36	0.13	0.03	0.08	0.05	0.09	24	1.19	0.03	0.43
7/4/07	0.14	0.16	0.16	0.11	0.09	0.09	0.22	0.43	0.53	0.60	0.74	0.79	0.83	0.72	0.72	0.72	0.59	0.44	0.27	0.11	0.03	0.06	0.06	0.03	24	0.83	0.03	0.36
7/5/07	0.10	0.17	0.13	0.13	0.11	0.11	0.22	0.23	0.48	0.60	0.77	0.79	0.81	0.80	0.75	0.72	0.72	0.51	0.28	0.16	0.13	0.12	0.15	0.13	24	0.81	0.10	0.38
7/6/07	0.06	0.10	0.19	0.09	0.11	0.09	0.15	0.23	0.46	0.64	0.61	0.77	0.73	0.80	0.77	0.68	0.57	0.48	0.33	0.20	0.33	0.38	0.43	0.36	24	0.80	0.06	0.40
7/7/07	0.30	0.31	0.36	0.35	0.33	0.33	0.22	0.45	0.54	0.58	0.53	0.53	0.71	0.65	0.72	0.59	0.36	0.29	0.54	0.25	0.28	0.19	0.11	0.28	24	0.72	0.11	0.41
7/8/07	0.47	0.56	0.57	0.97	0.61	0.57	0.72	0.56	0.60	0.36	0.32	0.54	0.83	0.78	0.77	0.78	0.67	0.65	0.47	0.37	0.17	0.09	0.13	0.11	24	0.97	0.09	0.53
7/9/07	0.21	0.16	0.18	0.16	0.11	0.10	0.27	0.41	0.56	0.66	0.73	0.76	0.92	0.89	0.68	0.74	0.71	0.58	0.44	0.45	0.68	0.38	0.34	0.48	24	0.92	0.10	0.48
7/10/07	0.59	0.56	0.66	0.97	1.03	0.82	1.00	1.11	1.09	1.03	1.09	1.11	1.01	1.09	1.08	1.03	0.93	0.84	0.63	0.47	0.18	0.13	0.10	0.17	24	1.11	0.10	0.78
7/11/07	0.23	0.18	0.16	0.13	0.14	0.08	0.28	0.39	0.63	1.00	0.86	1.00	0.98	0.94	0.85										15	1.00	0.08	0.52
7/12/07									0.17	0.17	0.23	0.26	0.42			0.58	0.78	0.66	0.47	0.25	0.13	0.14	0.21	0.14	14	0.78	0.13	0.33
7/13/07	0.13	0.08	0.14	0.08	0.24	0.16	0.21	0.48	0.66	0.79	0.94	0.93	0.85	0.89	0.86	0.85	0.68	0.46	0.35	0.17	0.13	0.19	0.25	0.23	24	0.94	0.08	0.45
7/14/07	0.09	0.26	0.18	0.09	0.09	0.09	0.10	0.35	0.50	0.65	0.83	0.89	0.84	0.90	0.86	0.92	0.85	0.64	0.47	0.32	0.17	0.21	0.14	0.09	24	0.92	0.09	0.44
7/15/07	0.09	0.09	0.09	0.09	0.09	0.13	0.14	0.25	0.63	0.59	0.59	0.77	0.80	0.80	0.89	0.76	0.69	0.54	0.23	0.19	0.15	0.23	0.14	0.13	24	0.89	0.09	0.38
7/16/07	0.33	0.16	0.11	0.08	0.07	0.08	0.16	0.21	0.39	0.52	0.53	0.73	0.94	0.79	0.72	0.91	0.76	0.50	0.30	0.20	0.35	0.45	0.53	0.47	24	0.94	0.07	0.43
7/17/07	0.41	0.25	0.19	0.15	0.19	0.13	0.22	0.42	0.66	0.84	0.78	0.85	0.82	0.82	0.79	0.77	0.69	0.55	0.46	0.30	0.33	0.48	0.40	0.58	24	0.85	0.13	0.50
7/18/07	0.58	0.42	0.29	0.32	0.44	0.36	0.39	0.56	0.49	0.78	0.84	0.80	0.86	0.71	0.64	0.61	0.60	0.32	0.43	0.24	0.26	0.26	0.20	0.19	24	0.86	0.19	0.48
7/19/07	0.15	0.22	0.36	0.28	0.32	0.24	0.28	0.52	0.60	0.77	0.73	0.85	0.90	0.89	0.96	0.92	0.83	0.59	0.49	0.27	0.20	0.26	0.27	0.26	24	0.96	0.15	0.51
7/20/07	0.34	0.34	0.30	0.29	0.34	0.43	0.61	0.69	0.83	0.85	0.83	1.02	1.00	1.07	1.10	1.13	0.97	0.89	0.83	0.66	0.54	0.55	0.54	0.51	24	1.13	0.29	0.69
7/21/07	0.56	0.60	0.56	0.51	0.49	0.56	0.64	0.83	0.93	0.89	0.91	1.02	0.97	0.93	0.93	0.92	0.88	0.74	0.63	0.42	0.42	0.48	0.52	0.46	24	1.02	0.42	0.70
7/22/07	0.48	0.43	0.38	0.42	0.39	0.17	0.42	0.73	0.72	0.76	0.83	0.79	0.72	0.71	0.62	0.68	0.65	0.56	0.34	0.27	0.25	0.30	0.19	0.12	24	0.83	0.12	0.50
7/23/07	0.14	0.11	0.11	0.11	0.23	2.65		2.68		0.65	0.83	0.82	0.91	0.95	0.92	0.87	0.82	0.46	0.45	0.28	0.20	0.36	0.42	0.39	22	2.68	0.11	0.70
7/24/07	0.32	0.22	0.15	0.17	0.14	0.09	0.11	0.27	0.62	2.74		0.98	1.08	1.04	0.99	0.91	0.86	0.69	0.44	0.30	0.31	0.30	0.36	0.28	23	2.74	0.09	0.58
7/25/07	0.16	0.16	0.27	0.20	0.28	0.18	0.32	0.52	0.56	2.51	0.98	0.29	0.35	0.34	1.11	0.83	0.69	0.61	0.29	0.22	0.22	0.47	0.52	0.50	24	2.51	0.16	0.52
7/26/07	0.45	0.41	0.30	0.57	0.78	1.22	0.94						0.50				0.59	0.64	0.63	0.35	0.13	0.10	0.16	0.13	16	1.22	0.10	0.49
7/27/07	0.13	0.12	0.15	0.12	0.14	0.14	0.14	0.46	0.58	0.84	0.83	0.89	0.92	0.90	0.82	0.89	0.77	0.39	0.47	0.39	0.27	0.26	0.28	0.28	24	0.92	0.12	0.47
7/28/07	0.25	0.20	0.17	0.14	0.16	0.21	0.23	0.43	0.67	0.79	0.85	1.14	1.00	0.82	0.92	0.61	0.69	0.47	0.43	0.24	0.26	0.11	0.08	0.09	24	1.14	0.08	0.46
7/29/07	0.31	0.26	0.14	0.08	0.08	0.09	0.08	0.29	0.50	0.60	0.79	0.85	0.95	0.98	1.11	0.93	0.78	0.76	0.48	0.17	0.11	0.30	0.33	0.24	24	1.11	0.08	0.47
7/30/07	0.13	0.15	0.26	0.24	0.21	0.20	0.22	0.47	0.67	0.82	0.86	0.89	0.83	0.98	0.83	0.94	0.91	0.81	0.63	0.39	0.30	0.33	0.33	0.27	24	0.98	0.13	0.53
7/31/07	0.33	0.33	0.33	0.35	0.29	0.33	0.44	0.58	0.67	0.76	0.75	0.70	0.86	0.96	0.95	0.89	0.79	0.60	0.60	0.49	0.35	0.38	0.40	0.47	24	0.96	0.29	0.57
hr max	0.59	0.60	0.66	0.97	1.03	2.65	1.00	2.68	1.09	2.74	1.09	1.14	1.08	1.09	1.11	1.13	0.97	0.89	0.83	0.66	0.68	0.55	1.21	0.81				
hr min	0.06	0.08	0.09	0.08	0.07	0.08	0.08	0.21	0.17	0.17	0.23	0.26	0.35	0.34	0.62	0.58	0.36	0.29	0.23	0.11	0.03	0.06	0.05	0.03				
average	0.29	0.27	0.27	0.27	0.29	0.38	0.36	0.55	0.61	0.83	0.74	0.79	0.83	0.85	0.86	0.81	0.73	0.58	0.46	0.30	0.26	0.28	0.30	0.29				

monthly max hr	monthly min hr	monthly ave hr
2.74	0.03	0.51
7/24/07	7/3/07	

Validated by: Roger L. Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	714
possible hours	744
data capture	96.0%

Basin Electric - Gettysburg S.D. Monitoring Program
July-07
Deg
100SW

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
7/1/07	0.19	0.22	0.29	0.23	0.25	0.34	0.55	0.80	0.94	0.77	0.78	0.74	0.96	0.96	0.78	0.87	0.87	0.57	0.31	0.35	0.69	0.51	1.23	0.48	24	1.23	0.19	0.61
7/2/07	0.47	0.72	0.86	0.68	0.59	0.60	0.40	0.44	0.74	0.84	0.60	0.69	0.67	0.85	0.99	0.84	0.91	0.60	0.50	0.22	0.23	0.24	0.28	0.28	24	0.99	0.22	0.59
7/3/07	0.19	0.17	0.06	0.00	0.62	1.51	1.05	0.53	0.47	0.47	0.44	0.40	1.01	0.99	0.89	0.87	0.62	0.64	0.34	0.12	0.09	0.11	0.10	0.19	24	1.51	0.00	0.50
7/4/07	0.14	0.16	0.13	0.05	0.17	0.14	0.19	0.42	0.58	0.71	0.84	0.97	1.04	0.98	0.92	0.90	0.72	0.51	0.36	0.15	0.10	0.10	0.07	0.15	24	1.04	0.05	0.44
7/5/07	0.40	0.25	0.20	0.36	0.22	0.26	0.27	0.32	0.51	0.71	0.83	0.94	0.97	1.01	0.89	0.93	0.90	0.58	0.33	0.17	0.12	0.06	0.05	0.00	24	1.01	0.00	0.47
7/6/07	0.00	0.00	0.09	0.14	0.05	0.09	0.14	0.21	0.32	0.58	0.62	0.80	0.79	0.80	0.72	0.63	0.53	0.46	0.29	0.23	0.08	0.13	0.05	0.30	24	0.80	0.00	0.34
7/7/07	0.22	0.25	0.28	0.62	1.13	0.23	0.18	0.42	0.49	0.56	0.58	0.65	0.80	0.79	0.82	0.64	0.43	0.30	0.68	0.32	0.34	0.22	0.21	0.34	24	1.13	0.18	0.48
7/8/07	0.41	0.76	1.48	1.29	0.67	0.56	0.70	0.61	0.63	0.40	0.40	0.54	0.94	0.94	0.96	0.93	0.85	0.79	0.52	0.32	0.15	0.08	0.09	0.11	24	1.48	0.08	0.63
7/9/07	0.09	0.07	0.16	0.29	0.15	0.05	0.31	0.36	0.58	0.82	0.95	0.89	1.28	1.21	0.78	0.86	0.77	0.69	0.40	0.45	1.25	0.60	0.32	0.48	24	1.28	0.05	0.58
7/10/07	0.49	0.51	0.65	0.95	1.01	0.89	1.04	1.18	1.21	1.21	1.25	1.36	1.19	1.33	1.34	1.18	1.06	1.04	0.77	0.47	0.13	0.10	0.08	0.19	24	1.36	0.08	0.86
7/11/07	0.15	0.21	0.12	0.10	0.10	0.11	0.07	0.33	0.73	1.02	1.15	1.22	1.20	1.18	1.05										15	1.22	0.07	0.58
7/12/07										0.18	0.25	0.26	0.28	0.31	1.65	0.48	4.41	0.80	0.53	0.29	0.12	0.10	0.23	0.00	15	4.41	0.00	0.66
7/13/07	0.00	0.11	0.12	0.12	0.70	0.41	0.24	0.64	0.71	0.90	1.04	1.00	1.03	1.06	1.03	1.01	0.90	0.67	0.38	0.17	0.06	0.23	0.26	0.15	24	1.06	0.00	0.54
7/14/07	0.15	0.19	0.25	0.12	0.12	0.11	0.11	0.28	0.46	0.67	1.00	1.11	0.99	1.07	1.05	1.12	0.95	0.73	0.48	0.26	0.14	0.28	0.00	0.00	24	1.12	0.00	0.49
7/15/07	0.00	0.08	0.10	0.09	0.12	0.11	0.31	0.33	0.49	0.48	0.59	0.91	0.88	0.92	1.01	0.89	0.70	0.60	0.29	0.13	0.13	0.93	0.22	0.30	24	1.01	0.00	0.44
7/16/07	0.09	0.12	0.34	0.00	0.00	0.00	0.13	0.25	0.35	0.59	0.58	0.78	1.13	0.86	0.85	0.94	0.83	0.55	0.32	0.22	0.31	0.45	0.57	0.50	24	1.13	0.00	0.45
7/17/07	0.42	0.31	0.28	0.22	0.18	0.18	0.22	0.38	0.69	1.02	0.91	0.98	0.95	1.02	0.79	0.95	0.82	0.62	0.53	0.27	0.29	0.48	0.38	0.55	24	1.02	0.18	0.56
7/18/07	0.58	0.40	0.40	0.30	0.43	0.35	0.40	0.56	0.54	0.84	0.93	0.95	1.03	0.97	0.82	0.82	0.73	0.32	0.43	0.27	0.28	0.29	0.25	0.14	24	1.03	0.14	0.54
7/19/07	0.10	0.24	0.42	0.35	0.39	0.32	0.26	0.57	0.59	0.91	0.82	0.95	1.06	1.11	1.23	1.08	0.95	0.65	0.53	0.23	0.08	0.21	0.31	0.21	24	1.23	0.08	0.57
7/20/07	0.24	0.20	0.21	0.19	0.17	0.18	0.27	0.50	0.62	0.82	0.80	1.02	0.97	0.95	1.08	1.14	0.98	0.92	0.82	0.60	0.44	0.40	0.33	0.34	24	1.14	0.17	0.59
7/21/07	0.25	0.28	0.27	0.23	0.23	0.34	0.36	0.45	0.69	0.78	0.69	0.81	0.98	1.13	1.11	1.08	0.94	0.59	0.48	0.28	0.30	0.89	0.66	0.99	24	1.13	0.23	0.62
7/22/07	0.82	0.55	0.33	0.59	0.55	0.18	0.62	0.65	0.70	0.63	0.49	0.66	0.94	0.98	0.84	0.70	0.52	0.74	0.36	0.29	0.20	0.28	0.35	0.25	24	0.98	0.18	0.55
7/23/07	0.16	0.14	0.22	0.12	0.15	2.65		2.66		0.74	0.92	0.82	1.20	1.17	1.11	0.99	0.92	0.43	0.34	0.26	0.12	0.10	0.27	0.27	22	2.66	0.10	0.72
7/24/07	0.20	0.26	0.27	0.18	0.56	0.14	0.27	0.35	0.67	2.81		1.15	1.17	1.12	1.08	1.06	0.92	0.62	0.36	0.23	0.19	0.37	0.14	0.19	23	2.81	0.14	0.62
7/25/07	0.16	0.85	0.60	0.23	0.81	0.69	0.25	0.38	0.62	3.22	4.04	0.36	0.39	0.34	4.62	0.73	0.63	0.64	0.27	0.26	0.21	0.29	0.36	0.53	24	4.62	0.16	0.90
7/26/07	0.91	0.98	0.35	0.58	0.79	1.18	1.12						0.50				0.59	0.64	0.63	0.35	0.13	0.10	0.16	0.13	16	1.18	0.10	0.57
7/27/07	0.13	0.12	0.15	0.12	0.14	0.14	0.14	0.46	0.75	1.09	1.03	1.12	1.11	1.20	1.08	1.12	1.02	0.57	0.52	0.35	0.21	0.26	0.23	0.22	24	1.20	0.12	0.55
7/28/07	0.25	0.21	0.21	0.11	0.20	0.22	0.15	0.33	0.67	0.83	0.92	1.41	1.26	1.11	1.26	0.66	0.79	0.64	0.48	0.27	0.29	0.12	0.26	0.67	24	1.41	0.11	0.56
7/29/07	0.20	0.16	0.13	0.15	0.08	0.22	0.00	0.28	0.58	0.71	0.89	0.87	1.01	1.05	1.15	0.91	0.82	0.82	0.44	0.23	0.08	0.15	0.27	0.24	24	1.15	0.00	0.48
7/30/07	0.45	0.50	0.48	0.24	0.22	0.74	0.36	0.52	0.62	0.79	0.80	0.93	0.86	1.00	0.90	1.02	0.75	0.76	0.38	0.19	0.12	0.14	0.17	0.20	24	1.02	0.12	0.55
7/31/07	0.58	0.56	0.45	0.61	0.62	0.44	0.46	0.74	1.00	1.09	1.10	1.12	1.22	1.14	1.11	1.16	1.09	0.93	0.65	0.38	0.22	0.24	0.75	0.60	24	1.22	0.22	0.76
hr max	0.91	0.98	1.48	1.29	1.13	2.65	1.12	2.66	1.21	3.22	4.04	1.41	1.28	1.33	4.62	1.18	4.41	1.04	0.82	0.60	1.25	0.93	1.23	0.99				
hr min	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.21	0.32	0.18	0.25	0.26	0.28	0.31	0.72	0.48	0.43	0.30	0.27	0.12	0.06	0.06	0.00	0.00				
average	0.28	0.32	0.33	0.31	0.38	0.45	0.36	0.55	0.64	0.91	0.90	0.88	0.96	0.99	1.13	0.91	0.93	0.65	0.46	0.28	0.24	0.28	0.29	0.30				

monthly max hr	monthly min hr	monthly ave hr
4.62	0.00	0.57
7/25/07	7/3/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	715
possible hours	744
data capture	96.1%

Basin Electric - Gettysburg S.D. Monitoring Program
July-07
degC
2mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
7/1/07	17.0	17.0	16.9	16.1	15.5	15.7	17.5	19.8	22.0	23.7	25.0	26.1	27.2	27.8	27.9	28.3	28.3	27.5	25.4	24.1	23.1	20.9	21.0	20.8	24	28.3	15.5	22.3
7/2/07	20.0	19.9	19.4	18.6	17.8	17.2	20.1	21.8	23.3	23.2	23.3	23.2	23.8	24.7	26.1	27.3	27.5	27.5	26.4	24.6	22.1	20.7	20.4	19.7	24	27.5	17.2	22.4
7/3/07	18.8	18.6	18.3	17.4	17.9	18.5	17.9	18.0	19.3	18.9	18.5	20.2	22.0	24.8	26.5	26.4	25.4	26.0	25.4	24.1	21.6	19.6	18.6	18.5	24	26.5	17.4	20.9
7/4/07	18.4	18.0	17.1	17.1	16.7	16.7	18.4	20.4	22.2	23.9	25.2	26.1	26.6	27.2	27.6	27.6	27.4	26.9	25.7	24.2	22.2	20.9	19.8	19.5	24	27.6	16.7	22.3
7/5/07	19.5	19.3	19.0	18.2	17.4	17.9	20.6	22.5	24.4	26.2	26.6	26.8	26.9	27.0	27.2	26.9	26.5	25.8	24.4	22.3	20.2	18.1	17.2	17.0	24	27.2	17.0	22.4
7/6/07	16.1	15.4	15.1	14.8	14.1	14.7	17.8	20.6	22.8	24.3	25.4	26.3	27.3	28.0	28.8	28.9	28.6	28.1	26.7	24.1	22.5	21.6	21.3	20.5	24	28.9	14.1	22.2
7/7/07	19.4	19.5	19.8	19.7	19.7	19.8	20.4	23.3	25.7	28.5	30.5	31.7	35.0	36.6	37.7	36.8	35.6	34.1	31.1	28.0	26.5	25.1	24.9	24.7	24	37.7	19.4	27.3
7/8/07	24.8	24.1	22.4	22.5	22.3	22.4	21.8	20.9	20.7	20.4	20.3	20.6	23.0	24.1	24.6	24.6	24.7	24.7	23.4	21.6	19.4	17.7	16.9	16.4	24	24.8	16.4	21.8
7/9/07	16.4	15.1	14.4	13.5	14.3	15.3	16.6	18.9	21.4	23.1	24.2	25.3	25.9	26.7	26.8	27.4	27.4	26.7	24.8	23.4	21.7	19.5	19.6	19.2	24	27.4	13.5	21.2
7/10/07	18.6	17.1	15.8	14.5	13.0	12.8	13.9	15.0	16.3	17.7	19.0	19.7	19.8	20.4	21.1	21.3	21.1	20.5	19.3	17.7	14.8	13.0	12.2	13.2	24	21.3	12.2	17.0
7/11/07	12.6	12.1	11.6	10.8	10.1	10.6	12.7	16.1	18.5	19.6	20.7	21.5	22.2	23.0	23.1	23.3	23.8	23.4	22.0	19.8	18.4	16.5	14.6	13.4	24	23.8	10.1	17.5
7/12/07	13.0	13.9	15.1	15.5	14.9	14.1	14.2	16.5	19.6	22.1	22.2	23.8	24.9	20.9	23.8	18.2	24.3	23.4	22.4	20.3	17.4	14.9	13.5	13.1	24	24.9	13.0	18.4
7/13/07	12.6	12.3	11.8	11.7	12.3	12.6	15.2	18.4	21.6	24.1		27.0	28.2	29.0	29.2	29.5	29.5	29.5	29.3	26.8	22.5	21.2	19.7	19.4	23	29.5	11.7	21.5
7/14/07	18.4	18.6	16.4	15.7	15.1	15.3	18.0	21.1	23.5	25.3	26.6	27.8	28.0	29.2	29.3	29.4	28.7	27.5	26.2	23.9	20.1	18.0	17.6	17.0	24	29.4	15.1	22.4
7/15/07	16.1	15.9	15.4	14.8	14.4	14.3	15.5	19.6	22.9	23.7	24.2	25.5	27.0	28.1	28.9	29.0	29.1	29.0	28.0	24.6	22.1	20.7	19.4	19.7	24	29.1	14.3	22.0
7/16/07	20.0	19.4	19.0	18.5	17.8	17.7	20.7	22.8	25.0	26.9	28.0	27.7	27.4	27.3	27.6	29.8	30.4	30.0	29.1	26.7	24.2	21.9	20.5	20.0	24	30.4	17.7	24.1
7/17/07	19.3	18.3	17.5	16.6	16.7	16.9	17.9	19.7	22.7	25.4	26.9	28.9	30.4	31.1	30.9	30.9	31.3	30.6	28.8	26.6	25.3	24.5	23.3	22.7	24	31.3	16.6	24.3
7/18/07	22.5	21.7	21.3	21.0	20.7	20.7	20.7	20.7	21.2	22.1	23.2	24.6	25.9	25.8	25.6	24.8	23.9	22.0	21.7	20.9	20.4	19.4	17.7	16.7	24	25.9	16.7	21.9
7/19/07	15.9	15.7	16.5	16.0	15.3	14.7	15.9	18.0	20.4	22.7	24.4	25.6	26.3	26.8	27.2	27.2	26.9	25.9	24.6	21.6	18.2	16.4	15.8	15.6	24	27.2	14.7	20.6
7/20/07	16.1	15.9	15.1	15.1	15.4	15.7	17.5	19.8	22.3	24.8	26.2	27.5	28.4	28.9	29.4	29.6	29.3	28.1	26.2	24.2	21.8	20.8	20.2	19.9	24	29.6	15.1	22.4
7/21/07	19.3	18.9	18.9	19.3	19.0	19.3	19.5	21.7	24.3	26.9	29.0	31.3	33.0	34.3	35.1	36.0	36.6	35.3	34.0	31.8	30.0	28.8	28.5	27.7	24	36.6	18.9	27.4
7/22/07	27.0	26.2	25.4	24.3	23.3	22.3	23.0	23.1	23.3	24.7	28.0	31.5	34.0	35.8	36.7	37.1	37.1	36.7	35.1	31.0	27.7	26.2	24.9	23.7	24	37.1	22.3	28.7
7/23/07	22.4	21.1	20.2	20.0	19.9	20.9		25.9		31.2	33.1	35.0	35.9	36.6	37.0	37.1	36.7	35.3	33.8	31.1	28.5	27.4	26.4	25.7	22	37.1	19.9	29.1
7/24/07	24.1	22.7	22.4	22.2	21.9	21.4	23.1	26.3	28.5	28.4		31.4	32.5	33.4	34.1	34.3	34.3	33.7	32.5	30.5	28.6	27.0	26.3	25.2	23	34.3	21.4	28.0
7/25/07	23.9	23.2	23.1	22.7	22.5	21.2	22.7	25.1	27.3	29.7	32.0	34.7	36.0	36.6	37.0	37.1	37.2	36.6	34.8	31.6	29.2	29.3	28.6	27.6	24	37.2	21.2	29.6
7/26/07	26.8	26.3	25.2	23.4	22.1	20.7	21.1						22.0			32.6	22.6	22.9	22.3	21.5	19.3	17.6	17.0	16.5	17	32.6	16.5	22.3
7/27/07	15.8	15.4	14.9	14.3	14.2	13.6	15.1	17.5	21.8	23.3	24.5		26.0	26.7	26.8	27.4	26.9	25.2	24.2	22.6	20.5	19.5	19.2	19.0	23	27.4	13.6	20.6
7/28/07	18.7	18.0	17.3	17.1	17.0	16.9	17.6	19.3	21.6	24.6	25.9	26.8	27.8	28.6	29.2	29.5	30.0	28.6	28.2	25.0	21.0	18.1	18.9	18.7	24	30.0	16.9	22.7
7/29/07	17.1	17.0	16.8	16.0	15.8	15.7	17.7	21.7	25.0	26.8	28.0	29.0	29.9	30.5	31.1	31.4	31.3	30.6	29.0	26.0	22.9	22.6	21.6	20.4	24	31.4	15.7	23.9
7/30/07	18.5	17.8	17.9	17.9	17.5	17.4	19.1	21.7	23.9	26.4	28.0	29.1	30.1	30.7	31.5	32.0	32.0	31.5	30.1	27.8	25.6	24.4	23.5	22.3	24	32.0	17.4	24.9
7/31/07	22.0	21.9	21.5	21.0	20.3	20.1	21.0	23.2	25.8	28.1	29.9	31.0	32.0	32.5	32.7	33.1	32.9	32.4	31.3	29.4	26.8	25.5	24.6	24.2	24	33.1	20.1	26.8
hr max	27.0	26.3	25.4	24.3	23.3	22.4	23.1	26.3	28.5	31.2	33.1	35.0	36.0	36.6	37.7	37.1	37.2	36.7	35.1	31.8	30.0	29.3	28.6	27.7				
hr min	12.6	12.1	11.6	10.8	10.1	10.6	12.7	15.0	16.3	17.7	18.5	19.7	19.8	20.4	21.1	18.2	21.1	20.5	19.3	17.7	14.8	13.0	12.2	13.1				
average	19.1	18.6	18.1	17.6	17.3	17.2	18.4	20.6	22.7	24.6	25.7	27.1	27.9	28.8	29.4	29.5	29.3	28.6	27.3	25.1	22.7	21.2	20.4	19.9				

monthly max hr	monthly min hr	monthly ave hr
37.7	10.1	23.2
7/7/07	7/11/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	732
possible hours	744
data capture	98.4%

Basin Electric - Gettysburg S.D. Monitoring Program
July-07
degC
10mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
7/1/07	17.5	17.5	17.3	16.5	15.9	15.9	17.4	19.5	21.6	23.2	24.3	25.5	26.7	27.4	27.7	28.2	28.2	27.8	26.0	24.5	23.6	21.7	21.7	21.3	24	28.2	15.9	22.4
7/2/07	20.5	20.4	19.8	19.3	18.7	18.0	20.0	21.3	22.6	22.7	23.1	23.2	23.7	24.3	25.3	26.7	27.3	27.5	26.8	25.3	23.6	22.0	21.1	20.6	24	27.5	18.0	22.7
7/3/07	19.9	19.6	19.2	18.7	18.3	19.0	19.1	19.0	19.7	19.1	18.7	20.2	21.5	24.2	26.3	26.2	25.5	26.1	26.0	25.1	24.4	22.8	23.3	22.9	24	26.3	18.3	21.9
7/4/07	21.6	21.9	20.2	18.5	17.9	17.6	18.4	20.0	21.5	23.1	24.4	25.3	25.9	26.6	27.1	27.5	27.6	27.3	26.8	25.7	24.7	23.6	23.5	22.6	24	27.6	17.6	23.3
7/5/07	22.2	21.9	21.5	20.7	19.0	19.5	20.7	22.2	24.0	25.8	26.0	26.3	26.4	26.6	26.8	26.8	26.7	26.3	25.4	24.2	22.1	20.5	19.5	18.7	24	26.8	18.7	23.3
7/6/07	18.2	17.6	17.1	16.6	16.7	17.1	18.3	20.6	22.3	23.7	24.8	25.6	26.7	27.5	28.4	28.9	28.9	28.5	27.5	25.4	23.6	22.5	22.1	21.1	24	28.9	16.6	22.9
7/7/07	20.0	20.0	20.3	20.1	20.1	20.3	20.7	23.3	25.5	28.2	30.4	32.0	35.2	37.0	38.2	38.1	37.3	36.1	33.7	31.1	28.9	28.4	28.8	25.8	24	38.2	20.0	28.3
7/8/07	25.3	24.5	23.6	23.7	22.5	22.5	21.8	20.9	20.8	20.6	20.5	20.4	22.2	23.3	24.1	24.2	24.4	24.5	23.8	22.2	20.3	19.1	18.4	17.5	24	25.3	17.5	22.1
7/9/07	17.1	16.0	15.4	14.9	15.1	15.6	16.5	18.3	20.6	22.1	23.1	24.2	25.0	25.9	26.4	27.0	27.2	27.0	25.5	24.1	22.3	20.1	19.9	19.5	24	27.2	14.9	21.2
7/10/07	18.9	17.5	16.2	14.8	13.3	13.1	13.9	14.8	15.8	17.0	18.1	18.7	18.8	19.4	20.0	20.5	20.5	20.2	19.5	18.4	16.4	15.6	15.1	14.6	24	20.5	13.1	17.1
7/11/07	13.4	12.9	12.6	11.9	11.5	11.2	12.4	15.4	17.7	18.6	19.5	20.3	21.2	22.0	22.4										15	22.4	11.2	16.2
7/12/07									19.0	21.6	22.7	23.8	25.4	18.6	27.0	19.3		23.4	22.9	21.8	19.3	17.3	16.1	15.5	15	27.0	15.5	20.9
7/13/07	14.8	14.5	14.3	14.1	13.6	13.4	15.4	18.1	20.9	23.2	25.1	25.9	27.1	27.9	28.4	29.0	29.2	29.4	29.3	28.4	26.2	24.6	22.1	21.6	24	29.4	13.4	22.4
7/14/07	21.6	20.5	18.5	18.3	17.9	18.2	17.9	20.5	22.7	24.4	25.7	26.9	27.5	28.4	28.8	29.0	28.8	27.8	26.8	25.0	22.5	19.8	19.2	18.5	24	29.0	17.9	23.1
7/15/07	17.9	17.9	17.5	17.1	16.5	16.3	16.0	19.4	22.4	23.3	23.8	24.6	25.9	27.0	27.8	28.3	28.8	28.8	28.6	25.8	23.2	21.8	20.5	20.5	24	28.8	16.0	22.5
7/16/07	20.6	20.0	19.6	19.4	19.0	18.8	20.7	22.6	24.6	26.4	27.5	27.5	26.8	26.8	27.2	29.4	30.4	30.4	29.8	28.0	25.0	22.4	20.9	20.3	24	30.4	18.8	24.3
7/17/07	19.8	19.1	18.5	17.7	17.6	17.5	17.8	19.2	21.9	24.6	26.3	28.1	29.6	30.4	30.6	30.9	31.4	30.9	29.5	27.4	26.0	24.9	23.7	23.0	24	31.4	17.5	24.4
7/18/07	22.8	22.1	21.8	21.3	20.9	20.8	20.8	20.8	21.3	21.9	22.9	24.1	25.2	25.6	25.5	24.8	24.0	22.3	21.9	21.4	20.9	20.2	19.2	17.8	24	25.6	17.8	22.1
7/19/07	16.9	16.8	17.3	17.0	16.6	15.8	16.0	17.8	20.0	22.1	23.6	24.6	25.2	25.6	26.2	26.6	26.6	26.1	25.3	23.2	20.1	18.3	17.3	16.6	24	26.6	15.8	20.9
7/20/07	16.8	16.5	15.8	15.6	15.9	16.1	17.4	19.5	21.7	24.1	25.3	26.5	27.3	27.8	28.5	29.0	29.0	28.1	26.6	24.8	22.4	21.3	20.6	20.2	24	29.0	15.6	22.4
7/21/07	19.6	19.1	19.2	19.5	19.2	19.4	19.6	21.4	23.6	26.1	28.1	30.4	32.1	33.5	34.5	35.6	36.6	35.7	34.5	32.4	30.6	29.3	28.9	28.1	24	36.6	19.1	27.4
7/22/07	27.4	26.7	25.8	25.1	24.4	23.1	23.4	23.0	23.1	24.4	27.2	30.6	33.1	35.0	36.3	36.9	37.3	37.2	36.9	32.4	29.3	27.5	26.2	25.1	24	37.3	23.0	29.1
7/23/07	24.6	23.1	22.3	21.7	21.1					30.7	32.5	34.4	35.2	35.9	36.5	37.0	37.0	36.3	34.6	32.2	29.7	28.2	26.9	26.2	20	37.0	21.1	30.3
7/24/07	24.6	23.4	23.0	22.8	22.6	22.1	23.3	26.1	28.2			30.4	31.5	32.5	33.5	33.8	34.2	34.0	33.2	31.5	29.4	27.7	26.9	25.7	22	34.2	22.1	28.2
7/25/07	24.5	23.8	23.8	23.5	23.2	21.8	22.8	24.8	26.8			34.7	36.0	36.6		36.7	37.2	37.2	36.0	33.4	30.4	29.9	29.1	28.1	21	37.2	21.8	29.5
7/26/07	27.4	26.9	25.9	23.8	22.2	21.1	21.7						20.8				22.1	22.4	21.9	22.1	22.2	21.8	20.8	20.3	16	27.4	20.3	22.7
7/27/07	19.4	18.5	18.2	17.8	17.5	17.3	16.6	17.0	20.3	21.6	22.6	23.2	24.8	25.6	25.9	26.3	26.3	25.5	24.5	23.2	21.4	20.3	19.9	19.7	24	26.3	16.6	21.4
7/28/07	19.5	19.1	18.4	17.9	17.7	17.7	17.9	19.2	21.0	23.6	24.8	25.8	26.7	27.5	28.2	28.5	29.2	28.7	28.7	27.1	23.9	20.7	20.4	19.9	24	29.2	17.7	23.0
7/29/07	18.9	18.5	18.1	17.4	17.0	16.7	17.7	21.1	24.2	25.8	26.9	27.7	28.5	29.3	30.0	30.6	30.8	30.5	29.6	27.3	24.3	23.4	22.3	21.0	24	30.8	16.7	24.1
7/30/07	19.3	18.7	18.8	18.6	18.3	18.1	19.0	21.1	23.0	25.3	26.6	27.8	28.6	29.4	30.2	31.0	31.3	31.1	30.2	28.2	26.2	24.9	24.0	22.7	24	31.3	18.1	24.7
7/31/07	22.5	22.4	21.9	21.4	20.6	20.4	20.8	22.7	25.0	27.1	28.7	29.7	30.7	31.2	31.6	32.2	32.4	32.2	31.5	29.9	27.5	26.1	25.1	24.7	24	32.4	20.4	26.6
hr max	27.4	26.9	25.9	25.1	24.4	23.1	23.4	26.1	28.2	30.7	32.5	34.7	36.0	37.0	38.2	38.1	37.3	37.2	36.9	33.4	30.6	29.9	29.1	28.1				
hr min	13.4	12.9	12.6	11.9	11.5	11.2	12.4	14.8	15.8	17.0	18.1	18.7	18.8	18.6	20.0	19.3	20.5	20.2	19.5	18.4	16.4	15.6	15.1	14.6				
average	20.5	19.9	19.4	18.9	18.4	18.1	18.8	20.3	22.1	23.6	24.8	26.3	27.1	28.0	28.6	29.3	29.5	29.0	28.1	26.4	24.3	22.9	22.1	21.3				

monthly max hr	monthly min hr	monthly ave hr
38.2	11.2	23.7
7/7/07	7/11/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	709
possible hours	744
data capture	95.3%

Basin Electric - Gettysburg S.D. Monitoring Program
July-07
degC
50mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
7/1/07	18.3	18.3	17.8	17.1	16.2	16.2	17.2	19.0	21.0	22.5	23.6	24.7	26.0	26.7	27.2	27.8	27.8	27.7	26.2	24.8	23.9	22.6	22.2	21.7	24	27.8	16.2	22.4
7/2/07	20.9	21.0	20.5	20.1	19.7	19.5	20.0	20.8	22.0	22.1	22.7	22.9	23.4	23.9	24.7	26.1	26.9	27.1	26.6	25.6	24.6	23.2	21.9	21.3	24	27.1	19.5	22.8
7/3/07	20.9	20.5	19.7	19.9	19.3	19.0	19.4	20.2	20.2	19.4	19.9	20.2	21.2	23.6	25.7	25.7	25.1	25.7	25.8	25.8	25.7	25.2	24.9	24.9	24	25.8	19.0	22.4
7/4/07	24.9	23.7	23.1	22.6	21.5	20.5	19.1	19.6	20.9	22.5	23.7	24.7	25.3	26.0	26.5	27.1	27.3	27.1	27.0	26.6	26.1	25.7	25.6	25.2	24	27.3	19.1	24.3
7/5/07	24.3	24.5	24.6	23.7	22.5	23.2	23.6	22.3	23.6	25.3	25.3	25.7	25.8	26.1	26.3	26.4	26.4	26.1	25.5	25.1	24.4	23.1	22.0	21.5	24	26.4	21.5	24.5
7/6/07	20.9	20.5	21.0	21.1	21.1	20.9	20.5	20.5	21.9	23.2	24.2	25.0	26.0	26.9	27.9	28.4	28.6	28.6	28.2	27.2	25.7	24.3	23.7	22.6	24	28.6	20.5	24.1
7/7/07	21.9	21.9	21.9	21.6	21.8	22.0	22.3	23.2	25.1	27.7	30.0	31.8	34.9	36.8	38.4	38.8	38.4	37.8	35.6	33.3	31.1	31.4	31.6	27.7	24	38.8	21.6	29.5
7/8/07	25.9	24.7	25.0	24.5	22.5	22.2	21.6	20.7	20.7	20.6	20.4	20.1	21.6	22.7	23.6	23.7	23.9	24.2	23.6	22.3	21.0	20.5	19.9	19.2	24	25.9	19.2	22.3
7/9/07	17.9	17.0	16.4	16.1	16.3	16.3	16.8	17.8	20.1	21.5	22.4	23.5	24.3	25.3	25.9	26.5	26.7	26.7	26.0	24.7	23.1	20.8	20.6	20.1	24	26.7	16.1	21.4
7/10/07	19.1	17.7	16.4	14.8	13.3	13.0	13.6	14.3	15.2	16.3	17.2	17.7	17.9	18.5	19.2	19.7	19.9	19.7	19.2	18.5	17.5	17.2	17.0	16.7	24	19.9	13.0	17.1
7/11/07	16.6	16.0	15.0	14.6	14.6	14.5	14.1	15.2	17.1	17.9	18.7	19.5	20.4	21.1	21.7										15	21.7	14.1	17.1
7/12/07									19.0	21.4	22.3	23.8	24.2	16.5	27.0	19.2		23.0	22.8	22.1	21.1	20.3	19.1	19.3	15	27.0	16.5	21.4
7/13/07	19.2	18.2	18.1	18.1	17.6	16.5	16.7	17.7	20.2	22.5		25.1	26.2	27.0	27.7	28.4	28.8	29.0	29.0	28.9	28.5	27.8	26.8	26.9	23	29.0	16.5	23.7
7/14/07	26.5	23.7	21.3	20.5	19.6	19.5	19.3	20.0	22.1	23.7	25.0	26.1	26.8	27.7	28.2	28.4	28.3	27.5	26.8	25.5	24.1	21.3	21.2	21.1	24	28.4	19.3	23.9
7/15/07	21.0	20.8	20.7	20.2	19.9	19.7	18.9	20.3	21.8	22.6	23.1	23.8	25.0	26.1	27.2	27.7	28.3	28.5	28.5	26.9	25.9	25.0	24.2	23.3	24	28.5	18.9	23.7
7/16/07	22.8	22.6	21.9	23.0	24.3	24.4	24.3	23.5	24.2	25.9	27.1	27.0	26.1	26.2	26.5	28.6	29.7	30.0	29.8	28.8	25.7	22.6	21.0	20.5	24	30.0	20.5	25.3
7/17/07	20.1	19.7	19.3	18.9	18.8	18.5	17.6	18.7	21.3	23.9	25.6	27.4	28.8	29.6	30.1	30.5	31.0	30.7	29.5	27.9	26.4	25.0	23.8	23.0	24	31.0	17.6	24.4
7/18/07	22.8	22.3	22.1	21.3	20.7	20.6	20.5	20.5	21.0	21.5	22.4	23.4	24.5	25.1	25.1	24.3	23.6	22.3	21.7	21.5	21.1	20.6	20.2	19.7	24	25.1	19.7	22.0
7/19/07	18.5	18.2	18.1	17.5	17.1	16.3	16.2	17.5	19.5	21.6	22.9	23.9	24.5	24.9	25.5	25.9	26.1	25.9	25.5	24.0	21.9	20.0	18.8	18.4	24	26.1	16.2	21.2
7/20/07	18.2	17.6	17.0	17.0	17.1	16.9	17.3	18.8	20.9	23.1	24.2	25.4	26.1	26.7	27.4	28.0	28.1	27.4	26.1	24.7	22.8	21.6	20.9	20.4	24	28.1	16.9	22.2
7/21/07	19.7	19.1	19.2	19.4	19.2	19.2	19.3	20.8	22.7	25.0	27.0	29.2	30.9	32.3	33.4	34.7	35.8	35.4	34.5	33.0	31.5	29.9	29.2	28.5	24	35.8	19.1	27.0
7/22/07	27.7	27.0	26.2	25.6	25.2	24.8	23.8	22.4	22.7	23.7	26.1	29.5	32.0	34.0	35.4	36.4	37.0	37.0	36.8	33.1	30.1	28.0	28.0	29.0	24	37.0	22.4	29.2
7/23/07	29.3	28.3	26.9	25.5	25.8	26.2	26.1	26.1	28.2	30.2	32.0	33.7	34.6	35.4	36.0	36.6	36.6	36.1	34.5	33.0	31.3	29.5	27.7	26.9	24	36.6	25.5	30.7
7/24/07	25.7	25.4	25.2	24.8	24.9	25.2	25.4	26.0	27.7	26.9	28.5	29.4	30.5	31.6	32.6	33.0	33.5	33.4	33.0	31.9	30.0	28.5	27.7	26.6	24	33.5	24.8	28.6
7/25/07	25.8	25.7	25.5	25.1	24.4	23.2	23.1	24.3	26.1			34.6	36.0	36.5		35.9	36.6	36.9	36.1	34.9	32.8	30.6	29.6	28.6	21	36.9	23.1	30.1
7/26/07	27.9	27.3	26.8	24.2	21.9	21.0	22.0						21.4			21.8	22.5	22.8	22.3	22.0	20.7	19.3	19.4	18.9	17	27.9	18.9	22.5
7/27/07	17.4	16.8	16.2	15.8	15.7	15.6	15.5	17.3	20.9	22.3	23.3		24.1	24.9	25.2	25.6	25.8	25.2	24.4	23.1	21.9	21.0	20.4	20.2	23	25.8	15.5	20.8
7/28/07	20.0	19.6	19.0	18.8	18.4	18.3	18.1	18.9	20.5	22.8	24.1	25.0	26.0	26.8	27.5	27.9	28.6	28.4	28.4	27.8	26.2	24.5	23.9	23.5	24	28.6	18.1	23.5
7/29/07	23.0	22.4	21.4	20.7	20.4	20.3	21.3	21.6	23.8	25.0	26.1	26.9	27.6	28.4	29.2	29.8	30.1	29.9	29.2	28.1	26.4	24.6	23.3	22.2	24	30.1	20.3	25.1
7/30/07	21.4	21.0	20.6	20.5	20.3	20.0	19.5	20.5	22.3	24.4	25.6	26.7	27.6	28.4	29.2	29.9	30.3	30.3	29.7	28.4	26.9	25.8	24.7	23.6	24	30.3	19.5	24.9
7/31/07	23.4	22.9	22.4	21.8	21.0	20.6	20.6	22.0	24.1	26.1	27.7	28.5	29.6	30.0	30.4	31.1	31.5	31.6	31.2	30.2	28.5	26.6	25.7	25.1	24	31.6	20.6	26.4
hr max	29.3	28.3	26.9	25.6	25.8	26.2	26.1	26.1	28.2	30.2	32.0	34.6	36.0	36.8	38.4	38.8	38.4	37.8	36.8	34.9	32.8	31.4	31.6	29.0				
hr min	16.6	16.0	15.0	14.6	13.3	13.0	13.6	14.3	15.2	16.3	17.2	17.7	17.9	16.5	19.2	19.2	19.9	19.7	19.2	18.5	17.5	17.2	17.0	16.7				
average	22.1	21.5	21.0	20.5	20.0	19.8	19.8	20.4	21.9	23.2	24.3	25.7	26.4	27.2	28.0	28.5	29.1	28.7	28.1	27.0	25.6	24.2	23.5	22.9				

monthly max hr	monthly min hr	monthly ave hr
38.8	13.0	24.1
7/7/07	7/10/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	714
possible hours	744
data capture	96.0%

Basin Electric - Gettysburg S.D. Monitoring Program
July-07
degC
100mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
7/1/07	19.1	19.0	18.2	17.7	16.8	16.7	17.2	18.6	20.4	22.0	23.1	24.2	25.5	26.2	26.7	27.3	27.3	27.3	26.1	24.7	23.7	22.6	22.3	22.0	24	27.3	16.7	22.3
7/2/07	21.0	21.4	20.9	20.3	20.0	19.8	20.0	20.3	21.5	21.6	22.2	22.5	22.9	23.3	24.2	25.6	26.4	26.7	26.2	25.4	24.7	23.8	22.6	22.3	24	26.7	19.8	22.7
7/3/07	22.6	22.4	21.9	23.9	21.9	18.9	19.5	21.6	21.4	20.1	21.1	20.8	21.4	23.1	25.2	25.2	24.6	25.2	25.4	25.6	25.6	25.1	24.8	25.0	24	25.6	18.9	23.0
7/4/07	25.0	23.8	23.4	23.4	22.6	21.6	20.3	19.4	20.4	22.0	23.2	24.2	24.8	25.5	26.0	26.6	26.8	26.7	26.5	26.3	25.9	25.6	25.5	25.2	24	26.8	19.4	24.2
7/5/07	24.7	24.8	24.7	24.3	22.9	24.1	24.5	23.6	23.2	24.8	24.8	25.2	25.3	25.6	25.8	25.8	25.9	25.6	25.2	24.8	24.4	23.6	22.9	22.3	24	25.9	22.3	24.5
7/6/07	22.2	21.8	21.8	21.7	21.4	21.3	21.6	21.4	21.4	22.7	23.7	24.5	25.5	26.4	27.4	28.0	28.2	28.3	28.1	27.7	27.3	26.6	26.2	25.1	24	28.3	21.3	24.6
7/7/07	24.9	24.3	25.0	24.3	23.8	23.9	25.5	25.1	25.0	27.3	29.6	31.5	34.5	36.5	38.0	38.6	38.5	38.3	36.5	34.3	32.1	33.0	32.6	28.0	24	38.6	23.8	30.5
7/8/07	26.0	24.7	27.3	24.5	22.1	21.8	21.2	20.3	20.3	20.3	20.0	19.7	21.1	22.2	23.1	23.2	23.4	23.6	23.2	22.1	21.0	20.4	20.0	19.5	24	27.3	19.5	22.1
7/9/07	18.8	18.7	18.2	18.0	17.3	17.5	17.6	17.5	19.6	20.9	21.8	22.9	23.8	24.8	25.4	25.9	26.2	26.3	25.8	25.0	23.5	21.2	21.7	20.7	24	26.3	17.3	21.6
7/10/07	19.0	17.6	16.2	14.5	13.0	12.7	13.2	13.8	14.6	15.7	16.5	17.1	17.3	17.9	18.6	19.1	19.3	19.1	18.7	18.1	17.5	17.2	17.2	16.8	24	19.3	12.7	16.7
7/11/07	17.1	16.6	15.3	14.9	15.2	15.4	15.6	15.7	16.6	17.3	18.1	18.9	19.8	20.5	21.1										15	21.1	14.9	17.2
7/12/07									19.2	21.6	22.2	23.8		23.1	27.0	19.1		22.5	22.2	21.8	21.0	20.3	19.3	19.3	14	27.0	19.1	21.6
7/13/07	19.1	18.6	18.5	18.4	18.2	18.1	18.5	18.1	19.6	21.9	23.6	24.5	25.5	26.3	27.1	27.8	28.2	28.5	28.6	28.5	28.4	28.4	27.9	27.5	24	28.6	18.1	23.7
7/14/07	26.9	24.6	21.9	20.8	19.7	20.5	19.5	19.7	21.6	23.1	24.4	25.5	26.2	27.0	27.6	27.8	27.8	27.0	26.3	25.2	24.0	22.0	21.4	21.2	24	27.8	19.5	23.8
7/15/07	20.9	20.8	20.7	20.5	20.3	20.6	19.8	20.4	21.3	22.1	22.6	23.2	24.3	25.5	26.6	27.1	27.7	28.0	28.1	26.8	26.3	26.0	25.7	25.1	24	28.1	19.8	23.8
7/16/07	24.8	24.1	23.9	25.9	27.2	27.1	28.6	25.1	23.7	25.4	26.6	26.5	25.5	25.5	25.9	28.0	29.1	29.4	29.4	28.6	25.7	22.4	20.8	20.5	24	29.4	20.5	25.8
7/17/07	20.2	20.1	20.8	21.1	21.5	20.5	18.3	18.3	20.8	23.3	25.0	26.8	28.2	29.0	29.5	29.9	30.4	30.2	29.0	27.7	26.3	24.7	23.5	22.7	24	30.4	18.3	24.5
7/18/07	22.6	22.5	22.2	21.2	20.4	20.4	20.1	20.0	20.6	21.0	21.8	22.9	23.9	24.6	24.6	23.8	23.1	22.0	21.3	21.2	21.1	21.0	21.1	20.8	24	24.6	20.0	21.8
7/19/07	19.8	19.2	18.4	17.6	17.3	16.7	16.6	17.3	19.0	21.0	22.3	23.2	23.7	24.3	24.9	25.3	25.5	25.3	25.0	23.8	22.6	21.6	21.2	21.1	24	25.5	16.6	21.4
7/20/07	20.8	19.9	19.0	19.4	18.7	18.4	18.1	18.5	20.3	22.4	23.5	24.6	25.4	26.0	26.8	27.3	27.5	26.8	25.6	24.5	22.9	22.0	21.4	20.7	24	27.5	18.1	22.5
7/21/07	19.8	19.3	19.2	19.2	19.1	18.9	19.0	20.2	22.1	24.4	26.4	28.4	30.2	31.6	32.8	34.1	35.2	35.0	34.3	33.1	31.9	30.3	29.3	28.5	24	35.2	18.9	26.8
7/22/07	27.7	27.1	26.5	25.6	25.3	25.1	23.9	22.0	22.2	23.2	25.6	28.9	31.4	33.4	34.8	35.7	36.3	36.4	36.2	32.8	30.3	28.0	30.5	30.3	24	36.4	22.0	29.1
7/23/07	29.6	28.8	27.7	27.0	26.6					29.7	31.4	33.1	34.0	34.8	35.4	35.9	36.0	35.7	34.4	33.3	32.2	31.3	28.9	28.0	20	36.0	26.6	31.7
7/24/07	27.8	27.9	27.6	26.9	27.1	28.3	28.8	28.7	27.9			28.7	29.7	30.9	31.9	32.3	32.8	32.8	32.7	32.1	30.5	29.7	28.5	27.7	22	32.8	26.9	29.6
7/25/07	26.8	26.3	26.2	25.9	25.5	24.3	24.2	24.3	25.5			34.4	35.8	36.3		35.3	36.0	36.2	35.8	34.9	33.5	31.0	29.7	28.7	21	36.3	24.2	30.3
7/26/07	28.0	27.3	26.7	24.2	21.5	20.7	22.3						20.2				21.6	21.9	21.4	21.8	22.4	22.4	21.5	21.4	16	28.0	20.2	22.8
7/27/07	20.8	19.7	19.6	18.9	18.8	18.2	17.5	17.2	19.8	21.0	22.0	22.7	23.5	24.3	24.6	25.0	25.2	24.8	23.9	22.8	21.8	21.4	20.8	20.7	24	25.2	17.2	21.5
7/28/07	20.6	20.2	19.5	19.9	19.4	19.1	19.2	19.2	20.1	22.3	23.5	24.5	25.4	26.2	26.8	27.4	28.1	27.8	27.9	27.5	26.2	25.1	25.0	25.1	24	28.1	19.1	23.6
7/29/07	24.7	23.8	22.8	22.1	22.3	22.1	22.7	22.3	23.3	24.3	25.4	26.2	26.9	27.7	28.6	29.1	29.4	29.4	28.8	28.1	27.0	25.7	24.5	23.8	24	29.4	22.1	25.5
7/30/07	22.5	21.9	21.4	21.2	20.8	20.4	20.7	20.8	21.7	23.8	25.0	26.0	26.9	27.8	28.5	29.3	29.6	29.8	29.2	28.2	27.2	26.5	25.3	24.2	24	29.8	20.4	24.9
7/31/07	23.6	22.9	22.6	22.0	21.3	20.8	20.4	21.5	23.5	25.4	27.0	27.8	28.9	29.4	29.8	30.5	30.9	31.0	30.8	30.0	28.8	27.0	25.9	25.3	24	31.0	20.4	26.1
hr max	29.6	28.8	27.7	27.0	27.2	28.3	28.8	28.7	27.9	29.7	31.4	34.4	35.8	36.5	38.0	38.6	38.5	38.3	36.5	34.9	33.5	33.0	32.6	30.3				
hr min	17.1	16.6	15.3	14.5	13.0	12.7	13.2	13.8	14.6	15.7	16.5	17.1	17.3	17.9	18.6	19.1	19.3	19.1	18.7	18.1	17.5	17.2	17.2	16.8				
average	22.9	22.3	21.9	21.5	20.9	20.5	20.5	20.4	21.3	22.5	23.7	25.1	25.9	26.9	27.4	28.1	28.5	28.3	27.8	26.9	25.9	24.9	24.3	23.7				

monthly max hr	monthly min hr	monthly ave hr
38.6	12.7	24.3
7/7/07	7/10/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	708
possible hours	744
data capture	95.2%

Basin Electric - Gettysburg S.D. Monitoring Program
July-07
degC
10-2

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
7/1/07	0.53	0.48	0.41	0.40	0.37	0.21	-0.15	-0.34	-0.45	-0.54	-0.67	-0.64	-0.52	-0.39	-0.22	-0.11	-0.11	0.32	0.51	0.41	0.53	0.85	0.72	0.49	24	0.85	-0.67	0.09
7/2/07	0.43	0.44	0.42	0.63	0.91	0.80	-0.10	-0.53	-0.71	-0.50	-0.15	0.09	-0.07	-0.34	-0.73	-0.60	-0.20	0.04	0.40	0.68	1.41	1.32	0.72	0.92	24	1.41	-0.73	0.22
7/3/07	1.10	1.03	0.94	1.34	0.37	0.52	1.15	0.92	0.37	0.17	0.17	0.01	-0.43	-0.62	-0.28	-0.22	0.04	0.06	0.53	1.07	2.86	3.21	4.69	4.40	24	4.69	-0.62	0.98
7/4/07	3.23	3.93	3.10	1.41	1.22	0.95	-0.01	-0.43	-0.75	-0.80	-0.83	-0.77	-0.68	-0.64	-0.48	-0.10	0.18	0.47	1.07	1.46	2.52	2.74	3.74	3.07	24	3.93	-0.83	0.98
7/5/07	2.72	2.64	2.51	2.45	1.60	1.59	0.06	-0.33	-0.40	-0.44	-0.60	-0.53	-0.54	-0.40	-0.35	-0.07	0.20	0.52	0.93	1.92	1.84	2.39	2.30	1.68	24	2.72	-0.60	0.90
7/6/07	2.16	2.18	1.99	1.75	2.61	2.43	0.50	-0.09	-0.43	-0.55	-0.61	-0.71	-0.65	-0.46	-0.37	-0.06	0.29	0.42	0.85	1.24	1.10	0.92	0.77	0.67	24	2.61	-0.71	0.66
7/7/07	0.56	0.55	0.49	0.41	0.42	0.41	0.28	-0.05	-0.21	-0.32	-0.11	0.32	0.13	0.38	0.53	1.23	1.73	2.01	2.60	3.06	2.40	3.32	3.82	1.06	24	3.82	-0.32	1.04
7/8/07	0.50	0.42	1.13	1.21	0.25	0.06	0.08	0.06	0.18	0.27	0.23	-0.16	-0.77	-0.79	-0.46	-0.39	-0.31	-0.12	0.39	0.63	0.96	1.36	1.45	1.13	24	1.45	-0.79	0.30
7/9/07	0.72	0.90	0.98	1.46	0.76	0.34	-0.16	-0.64	-0.76	-0.96	-1.13	-1.14	-0.90	-0.74	-0.37	-0.39	-0.24	0.27	0.65	0.66	0.64	0.62	0.32	0.33	24	1.46	-1.14	0.05
7/10/07	0.29	0.40	0.36	0.30	0.30	0.24	-0.01	-0.26	-0.54	-0.67	-0.84	-0.95	-0.93	-0.98	-1.06	-0.80	-0.51	-0.29	0.20	0.69	1.64	2.59	2.88	1.37	24	2.88	-1.06	0.14
7/11/07	0.84	0.86	0.95	1.18	1.48	0.60	-0.38	-0.69	-0.80	-1.05	-1.12	-1.19	-1.01	-1.03	-0.77										15	1.48	-1.19	-0.14
7/12/07									-0.58	-0.45	0.54	0.00	0.50	-2.32	3.21	1.09		0.00	0.53	1.42	1.96	2.39	2.59	2.42	15	3.21	-2.32	0.89
7/13/07	2.30	2.16	2.56	2.46	1.33	0.80	0.16	-0.30	-0.71	-0.89		-1.12	-1.13	-1.13	-0.77	-0.50	-0.30	-0.10	-0.01	1.61	3.66	3.36	2.48	2.27	23	3.66	-1.13	0.79
7/14/07	3.28	1.92	2.15	2.66	2.79	2.86	-0.06	-0.60	-0.76	-0.82	-0.90	-0.89	-0.59	-0.78	-0.44	-0.37	0.01	0.28	0.63	1.11	2.39	1.77	1.67	1.47	24	3.28	-0.90	0.78
7/15/07	1.84	1.98	2.10	2.35	2.07	2.05	0.52	-0.15	-0.51	-0.37	-0.42	-0.85	-1.14	-1.08	-1.02	-0.68	-0.33	-0.11	0.62	1.16	1.12	1.05	1.15	0.83	24	2.35	-1.14	0.51
7/16/07	0.65	0.63	0.59	0.86	1.15	1.03	-0.07	-0.20	-0.40	-0.56	-0.44	-0.25	-0.57	-0.49	-0.41	-0.42	-0.04	0.38	0.69	1.35	0.86	0.55	0.37	0.38	24	1.35	-0.57	0.24
7/17/07	0.50	0.71	1.00	1.08	0.96	0.55	-0.12	-0.45	-0.80	-0.76	-0.65	-0.79	-0.80	-0.77	-0.31	0.03	0.11	0.33	0.61	0.79	0.63	0.40	0.43	0.26	24	1.08	-0.80	0.12
7/18/07	0.34	0.43	0.53	0.29	0.22	0.13	0.05	0.04	0.05	-0.12	-0.35	-0.50	-0.65	-0.20	-0.06	-0.03	0.07	0.27	0.19	0.41	0.46	0.86	1.46	1.13	24	1.46	-0.65	0.21
7/19/07	0.97	1.11	0.82	1.01	1.35	1.13	0.11	-0.23	-0.39	-0.56	-0.75	-1.00	-1.13	-1.13	-0.98	-0.67	-0.29	0.18	0.74	1.57	1.88	1.92	1.46	1.00	24	1.92	-1.13	0.34
7/20/07	0.77	0.66	0.66	0.51	0.46	0.33	-0.03	-0.37	-0.57	-0.67	-0.89	-1.03	-1.09	-1.03	-0.84	-0.64	-0.32	0.05	0.35	0.59	0.64	0.53	0.39	0.31	24	0.77	-1.09	-0.05
7/21/07	0.25	0.21	0.23	0.22	0.22	0.09	0.03	-0.36	-0.65	-0.79	-0.90	-0.90	-0.90	-0.80	-0.63	-0.35	-0.07	0.36	0.52	0.61	0.62	0.47	0.43	0.42	24	0.62	-0.90	-0.07
7/22/07	0.41	0.43	0.44	0.87	1.16	0.80	0.36	-0.18	-0.13	-0.38	-0.88	-0.96	-0.89	-0.77	-0.49	-0.18	0.23	0.54	1.83	1.46	1.60	1.26	1.29	1.43	24	1.83	-0.96	0.39
7/23/07	2.15	2.04	2.02	1.73	1.17					-0.49	-0.63	-0.63	-0.65	-0.71	-0.46	-0.10	0.33	0.98	0.87	1.09	1.14	0.78	0.55	0.54	20	2.15	-0.71	0.59
7/24/07	0.51	0.67	0.62	0.59	0.69	0.72	0.12	-0.19	-0.34			-1.02	-0.95	-0.92	-0.68	-0.48	-0.09	0.30	0.73	0.92	0.76	0.71	0.60	0.55	22	0.92	-1.02	0.17
7/25/07	0.57	0.62	0.69	0.73	0.67	0.65	0.10	-0.29	-0.52			0.05	0.02	0.04		-0.37	0.03	0.61	1.19	1.75	1.24	0.58	0.54	0.54	21	1.75	-0.52	0.45
7/26/07	0.57	0.51	0.71	0.42	0.10	0.33	0.58						-1.26				-0.52	-0.52	-0.36	0.64	2.84	4.25	3.80	3.76	16	4.25	-1.26	0.99
7/27/07	3.62	3.11	3.30	3.51	3.34	3.71	1.54	-0.54	-1.52	-1.70	-1.94		-1.18	-1.15	-0.90	-1.05	-0.60	0.26	0.35	0.50	0.87	0.76	0.67	0.67	23	3.71	-1.94	0.68
7/28/07	0.79	1.02	1.06	0.83	0.68	0.74	0.37	-0.14	-0.61	-1.02	-1.16	-1.08	-1.06	-1.05	-1.01	-0.98	-0.84	0.14	0.56	2.12	2.84	2.63	1.53	1.19	24	2.84	-1.16	0.31
7/29/07	1.80	1.53	1.38	1.39	1.23	0.97	0.01	-0.59	-0.81	-0.99	-1.16	-1.30	-1.35	-1.27	-1.11	-0.84	-0.52	-0.06	0.56	1.23	1.40	0.77	0.65	0.61	24	1.80	-1.35	0.15
7/30/07	0.78	0.88	0.85	0.76	0.77	0.63	-0.07	-0.59	-0.94	-1.14	-1.34	-1.31	-1.42	-1.31	-1.23	-1.00	-0.76	-0.37	0.12	0.48	0.61	0.53	0.45	0.45	24	0.88	-1.42	-0.17
7/31/07	0.52	0.51	0.44	0.37	0.32	0.23	-0.13	-0.52	-0.86	-1.06	-1.21	-1.33	-1.34	-1.28	-1.08	-0.89	-0.53	-0.16	0.21	0.56	0.68	0.52	0.51	0.47	24	0.68	-1.34	-0.21
hr max	3.62	3.93	3.30	3.51	3.34	3.71	1.54	0.92	0.37	0.27	0.54	0.32	0.50	0.38	3.21	1.23	1.73	2.01	2.60	3.06	3.66	4.25	4.69	4.40				
hr min	0.25	0.21	0.23	0.22	0.10	0.06	-0.38	-0.69	-1.52	-1.70	-1.94	-1.33	-1.42	-2.32	-1.23	-1.05	-0.84	-0.52	-0.36	0.41	0.46	0.40	0.32	0.26				
average	1.19	1.17	1.18	1.17	1.03	0.89	0.16	-0.29	-0.54	-0.65	-0.69	-0.71	-0.77	-0.81	-0.47	-0.34	-0.12	0.24	0.64	1.11	1.47	1.51	1.48	1.19				

monthly max hr	monthly min hr	monthly ave hr
4.69	-2.32	0.39
7/3/07	7/12/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	707
possible hours	744
data capture	95.0%

Basin Electric - Gettysburg S.D. Monitoring Program
July-07
degC
50-10

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
7/1/07	0.78	0.76	0.45	0.53	0.38	0.25	-0.22	-0.47	-0.60	-0.66	-0.71	-0.75	-0.69	-0.68	-0.50	-0.48	-0.48	-0.09	0.29	0.27	0.28	0.88	0.48	0.46	24	0.88	-0.75	-0.02
7/2/07	0.42	0.61	0.68	0.85	0.98	1.52	-0.06	-0.55	-0.59	-0.56	-0.43	-0.31	-0.36	-0.47	-0.61	-0.58	-0.42	-0.37	-0.18	0.35	1.07	1.19	0.73	0.68	24	1.52	-0.61	0.15
7/3/07	1.02	0.85	0.51	1.19	1.02	0.00	0.37	1.26	0.59	0.28	1.20	0.00	-0.38	-0.66	-0.57	-0.53	-0.37	-0.40	-0.13	0.62	1.30	2.39	1.57	2.00	24	2.39	-0.66	0.55
7/4/07	3.30	1.82	2.83	4.18	3.59	2.81	0.75	-0.42	-0.58	-0.60	-0.66	-0.65	-0.61	-0.61	-0.55	-0.41	-0.32	-0.22	0.17	0.95	1.37	2.02	2.13	2.61	24	4.18	-0.66	0.95
7/5/07	2.07	2.62	3.06	2.97	3.52	3.68	2.92	0.07	-0.47	-0.52	-0.61	-0.56	-0.59	-0.55	-0.49	-0.43	-0.34	-0.26	0.17	0.91	2.36	2.58	2.49	2.77	24	3.68	-0.61	1.14
7/6/07	2.67	2.86	3.91	4.57	4.35	3.78	2.21	-0.08	-0.49	-0.57	-0.61	-0.63	-0.66	-0.66	-0.52	-0.43	-0.24	0.02	0.68	1.85	2.11	1.80	1.62	1.47	24	4.57	-0.66	1.21
7/7/07	1.91	1.93	1.62	1.48	1.65	1.73	1.58	-0.02	-0.42	-0.46	-0.38	-0.16	-0.22	-0.14	0.15	0.73	1.06	1.64	1.94	2.21	2.13	3.03	2.80	1.86	24	3.03	-0.46	1.15
7/8/07	0.57	0.15	1.46	0.76	-0.08	-0.23	-0.21	-0.22	-0.14	-0.01	-0.10	-0.31	-0.59	-0.62	-0.50	-0.47	-0.46	-0.38	-0.15	0.15	0.71	1.39	1.48	1.63	24	1.63	-0.62	0.16
7/9/07	0.79	1.03	1.03	1.17	1.20	0.65	0.28	-0.45	-0.51	-0.63	-0.68	-0.71	-0.67	-0.65	-0.49	-0.51	-0.50	-0.22	0.47	0.66	0.75	0.70	0.75	0.59	24	1.20	-0.71	0.17
7/10/07	0.19	0.21	0.18	0.02	0.01	-0.03	-0.26	-0.45	-0.65	-0.76	-0.95	-0.98	-0.93	-0.90	-0.86	-0.75	-0.66	-0.53	-0.30	0.05	1.11	1.60	1.84	2.11	24	2.11	-0.98	-0.07
7/11/07	3.15	3.02	2.41	2.63	3.08	3.31	1.75	-0.25	-0.59	-0.71	-0.85	-0.82	-0.82	-0.86	-0.71										15	3.31	-0.86	0.92
7/12/07									-0.04	-0.29	-0.43	0.05	-1.26	-2.08	0.01	-0.10		-0.39	-0.13	0.38	1.75	3.07	3.08	3.77	15	3.77	-2.08	0.49
7/13/07	4.38	3.74	3.77	3.93	3.99	3.06	1.31	-0.44	-0.75	-0.70		-0.75	-0.83	-0.82	-0.67	-0.54	-0.47	-0.39	-0.28	0.52	2.36	3.19	4.70	5.28	23	5.28	-0.83	1.46
7/14/07	4.82	3.16	2.75	2.13	1.73	1.29	1.33	-0.49	-0.57	-0.72	-0.73	-0.74	-0.65	-0.72	-0.64	-0.60	-0.42	-0.29	-0.05	0.47	1.54	1.46	1.96	2.58	24	4.82	-0.74	0.78
7/15/07	3.09	2.92	3.21	3.06	3.39	3.42	2.97	0.86	-0.63	-0.66	-0.70	-0.80	-0.87	-0.85	-0.66	-0.60	-0.51	-0.33	-0.11	1.17	2.64	3.26	3.72	2.80	24	3.72	-0.87	1.24
7/16/07	2.13	2.65	2.28	3.67	5.30	5.60	3.64	0.90	-0.45	-0.47	-0.45	-0.45	-0.73	-0.66	-0.76	-0.76	-0.64	-0.41	-0.07	0.79	0.63	0.23	0.08	0.16	24	5.60	-0.76	0.93
7/17/07	0.29	0.61	0.88	1.19	1.21	0.98	-0.14	-0.50	-0.61	-0.71	-0.66	-0.70	-0.73	-0.76	-0.51	-0.37	-0.35	-0.23	0.00	0.52	0.41	0.04	0.06	-0.02	24	1.21	-0.76	0.00
7/18/07	-0.01	0.22	0.27	0.02	-0.13	-0.18	-0.30	-0.33	-0.30	-0.43	-0.54	-0.65	-0.76	-0.52	-0.46	-0.42	-0.36	0.03	-0.16	0.11	0.27	0.41	1.05	1.85	24	1.85	-0.76	-0.06
7/19/07	1.68	1.38	0.76	0.44	0.52	0.48	0.15	-0.30	-0.45	-0.56	-0.73	-0.71	-0.75	-0.77	-0.72	-0.65	-0.49	-0.25	0.18	0.79	1.79	1.69	1.53	1.82	24	1.82	-0.77	0.28
7/20/07	1.39	1.03	1.22	1.46	1.19	0.79	-0.13	-0.65	-0.86	-1.01	-1.12	-1.12	-1.18	-1.17	-1.09	-1.03	-0.89	-0.71	-0.44	-0.04	0.31	0.29	0.28	0.22	24	1.46	-1.18	-0.14
7/21/07	0.08	0.02	0.06	-0.04	-0.03	-0.22	-0.28	-0.64	-0.94	-1.06	-1.12	-1.20	-1.18	-1.21	-1.09	-0.96	-0.80	-0.31	0.03	0.57	0.91	0.62	0.37	0.34	24	0.91	-1.21	-0.34
7/22/07	0.31	0.36	0.40	0.42	0.78	1.80	0.45	-0.54	-0.47	-0.64	-1.03	-1.09	-1.11	-1.01	-0.86	-0.59	-0.35	-0.19	-0.18	0.63	0.75	0.49	1.84	3.95	24	3.95	-1.11	0.17
7/23/07	4.78	5.21	4.59	3.80	4.72					-0.49	-0.47	-0.66	-0.60	-0.51	-0.51	-0.48	-0.38	-0.22	-0.10	0.78	1.69	1.35	0.79	0.69	20	5.21	-0.66	1.20
7/24/07	1.03	1.99	2.21	1.95	2.36	3.08	2.10	-0.12	-0.42			-0.98	-1.04	-0.94	-0.85	-0.82	-0.65	-0.55	-0.18	0.46	0.58	0.86	0.83	0.85	22	3.08	-1.04	0.53
7/25/07	1.31	1.83	1.63	1.68	1.24	1.41	0.28	-0.51	-0.75			-0.09	-0.09	-0.07		-0.77	-0.64	-0.38	0.12	1.49	2.36	0.67	0.49	0.47	21	2.36	-0.77	0.56
7/26/07	0.54	0.42	0.84	0.40	-0.26	-0.10	0.32						0.64				0.41	0.43	0.37	-0.10	-1.42	-2.59	-1.46	-1.33	16	0.84	-2.59	-0.18
7/27/07	-2.03	-1.75	-1.95	-2.00	-1.79	-1.62	-1.16	0.26	0.63	0.73	0.74		-0.71	-0.71	-0.70	-0.76	-0.53	-0.21	-0.18	0.00	0.54	0.73	0.48	0.52	23	0.74	-2.03	-0.50
7/28/07	0.55	0.57	0.60	0.92	0.70	0.66	0.20	-0.28	-0.51	-0.74	-0.64	-0.71	-0.76	-0.72	-0.72	-0.58	-0.55	-0.36	-0.31	0.69	2.35	3.80	3.46	3.61	24	3.80	-0.76	0.47
7/29/07	4.16	3.91	3.29	3.26	3.41	3.62	3.56	0.51	-0.45	-0.78	-0.82	-0.84	-0.91	-0.92	-0.80	-0.79	-0.71	-0.60	-0.33	0.89	2.15	1.16	1.05	1.21	24	4.16	-0.92	1.01
7/30/07	2.12	2.25	1.84	1.83	2.05	1.90	0.45	-0.57	-0.72	-0.89	-1.01	-1.07	-1.03	-1.02	-1.08	-1.07	-1.00	-0.78	-0.48	0.16	0.74	0.81	0.67	0.82	24	2.25	-1.08	0.21
7/31/07	0.90	0.44	0.48	0.46	0.45	0.22	-0.27	-0.63	-0.87	-0.97	-1.05	-1.17	-1.10	-1.19	-1.18	-1.06	-0.90	-0.63	-0.36	0.23	1.00	0.56	0.57	0.45	24	1.00	-1.19	-0.23
hr max	4.82	5.21	4.59	4.57	5.30	5.60	3.64	1.26	0.63	0.73	1.20	0.05	0.64	-0.07	0.15	0.73	1.06	1.64	1.94	2.21	2.64	3.80	4.70	5.28				
hr min	-2.03	-1.75	-1.95	-2.00	-1.79	-1.62	-1.16	-0.65	-0.94	-1.06	-1.12	-1.20	-1.26	-2.08	-1.18	-1.07	-1.00	-0.78	-0.48	-0.10	-1.42	-2.59	-1.46	-1.33				
average	1.61	1.56	1.58	1.63	1.68	1.51	0.81	-0.18	-0.47	-0.56	-0.58	-0.67	-0.72	-0.78	-0.65	-0.58	-0.45	-0.25	0.01	0.62	1.22	1.32	1.38	1.54				

monthly max hr	monthly min hr	monthly ave hr
5.60	-2.59	0.45
7/16/07	7/26/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	707
possible hours	744
data capture	95.0%

Basin Electric - Gettysburg S.D. Monitoring Program
July-07
degC
100-50

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
7/1/07	0.80	0.77	0.38	0.60	0.53	0.53	0.06	-0.40	-0.55	-0.53	-0.55	-0.51	-0.53	-0.49	-0.48	-0.47	-0.47	-0.39	-0.19	-0.08	-0.18	0.02	0.11	0.25	24	0.80	-0.55	-0.07
7/2/07	0.17	0.38	0.40	0.20	0.30	0.33	0.08	-0.48	-0.51	-0.53	-0.49	-0.48	-0.49	-0.53	-0.56	-0.54	-0.47	-0.47	-0.45	-0.26	0.12	0.58	0.74	1.06	24	1.06	-0.56	-0.08
7/3/07	1.68	1.99	2.22	4.02	2.59	-0.06	0.01	1.35	1.13	0.70	1.27	0.56	0.21	-0.49	-0.50	-0.51	-0.48	-0.48	-0.38	-0.20	-0.12	-0.04	-0.05	0.09	24	4.02	-0.51	0.60
7/4/07	0.02	0.03	0.30	0.75	1.05	1.11	1.18	-0.14	-0.47	-0.49	-0.51	-0.51	-0.51	-0.50	-0.50	-0.49	-0.47	-0.45	-0.41	-0.30	-0.19	-0.09	-0.15	0.01	24	1.18	-0.51	-0.07
7/5/07	0.43	0.33	0.16	0.67	0.42	0.89	0.94	1.36	-0.39	-0.47	-0.53	-0.52	-0.51	-0.52	-0.52	-0.51	-0.50	-0.47	-0.35	-0.29	-0.04	0.51	0.87	0.85	24	1.36	-0.53	0.08
7/6/07	1.33	1.27	0.78	0.52	0.37	0.39	1.17	0.94	-0.41	-0.51	-0.50	-0.49	-0.46	-0.49	-0.50	-0.46	-0.41	-0.30	-0.11	0.50	1.65	2.22	2.52	2.53	24	2.53	-0.51	0.48
7/7/07	3.01	2.34	3.05	2.68	2.02	1.92	3.23	1.88	-0.06	-0.39	-0.39	-0.32	-0.39	-0.33	-0.34	-0.16	0.15	0.55	0.89	1.03	1.04	1.59	1.08	0.38	24	3.23	-0.39	1.02
7/8/07	0.12	0.05	2.30	-0.01	-0.32	-0.40	-0.42	-0.41	-0.38	-0.33	-0.38	-0.42	-0.52	-0.52	-0.50	-0.53	-0.51	-0.51	-0.47	-0.26	-0.06	-0.04	0.16	0.35	24	2.30	-0.53	-0.17
7/9/07	0.90	1.65	1.77	1.86	1.00	1.28	0.80	-0.27	-0.50	-0.59	-0.55	-0.54	-0.53	-0.49	-0.48	-0.51	-0.51	-0.44	-0.17	0.31	0.40	0.35	1.06	0.59	24	1.86	-0.59	0.27
7/10/07	-0.09	-0.12	-0.18	-0.31	-0.30	-0.29	-0.42	-0.54	-0.58	-0.61	-0.66	-0.64	-0.60	-0.62	-0.59	-0.60	-0.57	-0.56	-0.51	-0.40	-0.03	-0.01	0.26	0.12	24	0.26	-0.66	-0.37
7/11/07	0.48	0.63	0.30	0.35	0.57	0.92	1.46	0.52	-0.50	-0.59	-0.57	-0.57	-0.59	-0.57	-0.56										15	1.46	-0.59	0.09
7/12/07									0.22	0.28	-0.12	-0.02		6.63	-0.02	-0.13		-0.57	-0.53	-0.37	-0.11	-0.04	0.16	-0.07	14	6.63	-0.57	0.38
7/13/07	-0.14	0.34	0.40	0.38	0.60	1.62	1.77	0.36	-0.57	-0.60		-0.62	-0.71	-0.70	-0.64	-0.59	-0.56	-0.54	-0.49	-0.40	-0.16	0.64	1.02	0.59	23	1.77	-0.71	0.04
7/14/07	0.46	0.93	0.61	0.33	0.13	1.01	0.23	-0.31	-0.51	-0.59	-0.61	-0.62	-0.61	-0.63	-0.62	-0.60	-0.58	-0.55	-0.46	-0.30	-0.04	0.70	0.20	0.09	24	1.01	-0.63	-0.10
7/15/07	-0.10	0.01	0.00	0.35	0.43	0.82	0.89	0.16	-0.48	-0.57	-0.57	-0.62	-0.69	-0.63	-0.56	-0.61	-0.58	-0.52	-0.42	-0.15	0.41	0.94	1.42	1.72	24	1.72	-0.69	0.03
7/16/07	2.06	1.44	2.04	2.84	2.96	2.78	4.27	1.67	-0.44	-0.52	-0.52	-0.55	-0.60	-0.68	-0.54	-0.60	-0.62	-0.56	-0.38	-0.20	0.00	-0.19	-0.16	0.02	24	4.27	-0.68	0.56
7/17/07	0.14	0.41	1.41	2.25	2.68	2.05	0.72	-0.39	-0.53	-0.61	-0.58	-0.64	-0.67	-0.66	-0.58	-0.61	-0.61	-0.52	-0.45	-0.18	-0.08	-0.29	-0.25	-0.21	24	2.68	-0.67	0.08
7/18/07	-0.19	0.15	0.11	-0.09	-0.35	-0.23	-0.39	-0.45	-0.39	-0.48	-0.53	-0.57	-0.60	-0.58	-0.54	-0.54	-0.53	-0.27	-0.39	-0.29	-0.01	0.30	0.87	1.13	24	1.13	-0.60	-0.20
7/19/07	1.29	1.04	0.26	0.15	0.19	0.38	0.43	-0.19	-0.50	-0.61	-0.61	-0.68	-0.77	-0.60	-0.62	-0.59	-0.62	-0.56	-0.50	-0.17	0.71	1.62	2.40	2.67	24	2.67	-0.77	0.17
7/20/07	2.58	2.32	1.94	2.37	1.66	1.58	0.73	-0.37	-0.55	-0.63	-0.65	-0.72	-0.71	-0.67	-0.66	-0.66	-0.65	-0.61	-0.51	-0.27	0.12	0.42	0.52	0.29	24	2.58	-0.72	0.29
7/21/07	0.13	0.12	0.00	-0.20	-0.11	-0.28	-0.31	-0.51	-0.59	-0.60	-0.64	-0.73	-0.72	-0.71	-0.64	-0.63	-0.57	-0.38	-0.18	0.12	0.33	0.35	0.08	0.04	24	0.35	-0.73	-0.28
7/22/07	-0.03	0.03	0.27	0.05	0.09	0.27	0.11	-0.42	-0.51	-0.53	-0.58	-0.62	-0.68	-0.64	-0.62	-0.68	-0.64	-0.56	-0.53	-0.21	0.28	0.03	2.43	1.24	24	2.43	-0.68	-0.10
7/23/07	0.29	0.46	0.83	1.49	0.74					-0.51	-0.60	-0.65	-0.62	-0.61	-0.58	-0.65	-0.63	-0.41	-0.17	0.27	0.87	1.73	1.15	1.10	20	1.73	-0.65	0.18
7/24/07	2.13	2.49	2.38	2.14	2.18	3.11	3.42	2.72	0.16			-0.72	-0.74	-0.69	-0.67	-0.63	-0.69	-0.60	-0.29	0.19	0.56	1.14	0.84	1.12	22	3.42	-0.74	0.89
7/25/07	1.02	0.66	0.78	0.71	1.12	1.07	1.09	0.03	-0.56			-0.19	-0.17	-0.21		-0.66	-0.62	-0.61	-0.28	0.04	0.68	0.39	0.13	0.12	21	1.12	-0.66	0.22
7/26/07	0.07	-0.01	-0.06	-0.03	-0.38	-0.27	0.26						-1.15				-0.90	-0.95	-0.85	-0.18	1.60	3.16	2.16	2.48	16	3.16	-1.15	0.31
7/27/07	3.40	2.98	3.31	3.12	3.09	2.55	2.07	-0.11	-1.15	-1.33	-1.38		-0.61	-0.61	-0.56	-0.61	-0.57	-0.49	-0.49	-0.37	-0.10	0.43	0.41	0.49	23	3.40	-1.38	0.59
7/28/07	0.64	0.52	0.55	1.11	1.04	0.77	1.03	0.30	-0.42	-0.55	-0.64	-0.57	-0.61	-0.58	-0.62	-0.58	-0.54	-0.51	-0.52	-0.36	0.00	0.62	1.15	1.59	24	1.59	-0.64	0.12
7/29/07	1.66	1.43	1.34	1.45	1.84	1.81	1.47	0.72	-0.48	-0.67	-0.63	-0.66	-0.66	-0.64	-0.61	-0.66	-0.64	-0.58	-0.44	-0.08	0.54	1.15	1.18	1.62	24	1.84	-0.67	0.39
7/30/07	1.13	0.94	0.80	0.76	0.52	0.42	1.27	0.26	-0.55	-0.63	-0.60	-0.65	-0.70	-0.63	-0.64	-0.67	-0.64	-0.58	-0.47	-0.17	0.30	0.78	0.61	0.63	24	1.27	-0.70	0.06
7/31/07	0.15	0.06	0.22	0.20	0.30	0.21	-0.13	-0.54	-0.61	-0.66	-0.71	-0.71	-0.70	-0.68	-0.64	-0.64	-0.62	-0.54	-0.42	-0.15	0.28	0.38	0.26	0.14	24	0.38	-0.71	-0.23
hr max	3.40	2.98	3.31	4.02	3.09	3.11	4.27	2.72	1.13	0.70	1.27	0.56	0.21	6.63	-0.02	-0.13	0.15	0.55	0.89	1.03	1.65	3.16	2.52	2.67				
hr min	-0.19	-0.12	-0.18	-0.31	-0.38	-0.40	-0.42	-0.54	-1.15	-1.33	-1.38	-0.73	-1.15	-0.71	-0.67	-0.68	-0.90	-0.95	-0.85	-0.40	-0.19	-0.29	-0.25	-0.21				
average	0.85	0.85	0.96	1.02	0.90	0.91	0.93	0.24	-0.40	-0.51	-0.51	-0.52	-0.59	-0.34	-0.55	-0.56	-0.55	-0.48	-0.36	-0.11	0.29	0.65	0.77	0.77				

monthly max hr	monthly min hr	monthly ave hr
6.63	-1.38	0.16
7/12/07	7/27/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	706
possible hours	744
data capture	94.9%

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ppb
SO2

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
7/1/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
7/2/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
7/3/07	0.1			0.1	0.1	2.2	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	0.1	0.1	0.1		21	2.2	0.1	0.2
7/4/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.4	1.5	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		23	1.5	0.1	0.2
7/5/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
7/6/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
7/7/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1			22	0.1	0.1	0.1
7/8/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
7/9/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
7/10/07	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	0.1	1.1	1.2	0.1	0.1	2.4	0.1		21	2.4	0.1	0.3
7/11/07	0.1	0.1	0.1	0.1	0.1	0.1	1.1	0.1						0.1	0.1	0.1					0.1	0.1	0.1		14	1.1	0.1	0.2
7/12/07	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	0.1		15	0.1	0.1	0.1
7/13/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2.3						0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		18	2.3	0.1	0.2
7/14/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
7/15/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
7/16/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
7/17/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1		21	0.1	0.1	0.1
7/18/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
7/19/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
7/20/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
7/21/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
7/22/07	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	0.1	0.1									16	0.1	0.1	0.1
7/23/07	0.1	0.1	0.1	0.1	0.1					0.1	0.1	0.1	0.1												9	0.1	0.1	0.1
7/24/07	0.1			0.1	0.1	0.1	0.1	0.1	0.1			0.1	0.1	0.1	0.1								0.1		12	0.1	0.1	0.1
7/25/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1													12	0.1	0.1	0.1
7/26/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1						0.1						0.1		0.1	0.1	0.1		12	0.1	0.1	0.1
7/27/07	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	0.1	0.1	0.1	0.1	0.1	0.1		20	0.1	0.1	0.1
7/28/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
7/29/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
7/30/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
7/31/07	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	0.1	0.1	0.1	0.1	0.1	0.1		20	0.1	0.1	0.1
hr max	0.1	0.1	0.1	0.1	0.1	2.2	1.1	2.3	1.4	1.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.1	1.2	0.1	0.1	2.4	0.1	0.0				
hr min	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0				
average	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	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	0.1	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
2.4	0.1	0.1
7/10/07	7/1/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	624
possible hours	744
data capture	83.9%

Max 3 hr ave.	1.3	7/10/07 22:00
Max 24 hr ave.	0.4	7/10/07 14:00

Basin Electric - Gettysburg S.D. Monitoring Program
July-07
ppb
NOx

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
7/1/07	2.1	2.3	2.2	2.5	2.5	2.5	2.4	2.3	2.0	1.8	1.8	1.7	1.6	1.6	1.7	1.7	1.7	1.7	1.8	1.9	1.9	2.3	2.1		23	2.5	1.6	2.0
7/2/07	2.8	2.9	3.0	3.6	4.0	5.6	3.8	3.5	3.0	3.0	2.6	2.4	2.3	2.2	2.0	1.9	1.9	1.9	2.1	2.2	2.8	3.2	2.8		23	5.6	1.9	2.8
7/3/07	2.9			3.0	3.1	2.2	2.2	2.1	2.4	2.6	2.6	2.3	2.2	2.4	2.4	2.4	2.5	2.7	3.2	4.1	4.5	3.4	2.9		21	4.5	2.1	2.8
7/4/07	2.5	2.7	2.8	2.8	2.7	3.0	3.7	4.1	4.2	3.0	1.8	1.9	2.1	2.4	2.5	2.5	3.0	3.1	3.3	3.7	4.3	5.1	3.1		23	5.1	1.8	3.1
7/5/07	4.2	4.5	4.0	3.6	3.7	3.1	3.3	3.8	2.8	2.2	2.2	2.2	2.1	2.1	2.4	2.6	2.3	2.3	2.5	3.1	3.9	4.1	3.9		23	4.5	2.1	3.1
7/6/07	4.6	4.4	4.3	3.4	2.4	2.2	2.4	2.1	1.7	1.7	2.0	2.4	2.8	3.0	3.7	4.5	5.7	6.5	7.1	5.6	3.7	3.1	2.6		23	7.1	1.7	3.6
7/7/07	2.7	2.6	2.6	2.4	2.3	2.4	2.8	2.9	2.8	2.5	2.7	3.2	3.3	3.7	4.7	4.6	5.5	9.0	11.1	10.9	9.8	6.3			22	11.1	2.3	4.6
7/8/07	4.4	4.7	3.6	3.8	3.5	3.2	2.5	2.3	2.2	2.0	2.1	2.0	1.6	1.6	1.6	1.8	2.0	2.4	2.6	2.5	2.5	2.7	3.2		23	4.7	1.6	2.6
7/9/07	2.3	2.3	2.4	2.5	2.8	2.4	2.4	2.2	1.6	1.5	1.7	1.9	2.4	3.0	3.4	3.5	3.9	3.9	3.7	3.2	3.1	3.0	3.0		23	3.9	1.5	2.7
7/10/07	3.8			2.1	1.8	1.9	2.4	2.3	2.0	1.5	2.0	0.0	0.4	0.1	1.0	2.8	0.0	2.6	2.7	0.8	0.2	5.0	1.0		21	5.0	0.0	1.7
7/11/07	0.0	0.6	0.1	1.2	0.0	0.9	1.5	3.2						2.3	3.9	3.7					1.7	3.4	1.8		14	3.9	0.0	1.7
7/12/07	1.1	0.9	2.6	2.5	2.3	2.0	2.3	2.6									3.2	2.0	1.3	0.9	1.3	2.0	1.3		15	3.2	0.9	1.9
7/13/07	0.7	0.8	1.2	1.2	1.0	1.0	0.8	4.3						1.4	0.4	0.3	0.4	1.7	2.7	2.6	2.3	1.2	1.7		18	4.3	0.3	1.4
7/14/07	0.4	0.0	0.5	1.0	0.6	0.7	0.4	0.0	0.0	0.0	0.0	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	1.0	0.0	0.2
7/15/07	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	1.7	2.8	3.5	1.8	0.0	0.0		23	3.5	0.0	0.4
7/16/07	0.0	0.0	0.0	0.0	0.4	0.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.5	2.9	4.0	2.9	0.8	0.1		23	4.0	0.0	0.6
7/17/07	0.0			0.1	0.1	0.3	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.8	3.2	4.9	5.7	4.7	2.4	0.2	0.0		21	5.7	0.0	1.2
7/18/07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	1.0	1.6		23	1.6	0.0	0.1
7/19/07	0.5	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		23	0.5	0.0	0.0
7/20/07	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0		23	0.3	0.0	0.0
7/21/07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.6	3.6	6.8	9.2	10.2	9.7	7.3	4.4		23	10.2	0.0	2.3
7/22/07	1.4	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	0.3	2.3									16	2.3	0.0	0.3
7/23/07	3.9	3.9	2.4	2.2	1.4					0.0	0.0	0.0	2.7												9	3.9	0.0	1.8
7/24/07	2.3			0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.2	2.1								5.2		12	5.2	0.0	0.8
7/25/07	1.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.2													12	2.2	0.0	0.4
7/26/07	2.0	0.5	0.3	0.4	0.0	0.0	0.0						0.0						0.0		0.7	1.6	1.2		12	2.0	0.0	0.6
7/27/07	2.1	2.0	2.2	1.7	1.5	1.8	1.2	1.3	0.0				1.1	1.2	1.3	1.3	1.3	1.5	1.8	2.1	2.0	2.1	2.0		20	2.2	0.0	1.6
7/28/07	1.3	1.8	3.4	2.8	2.4	2.8	1.9	1.5	1.0	1.2	1.1	0.8	1.2	1.3	1.2	1.3	1.3	1.4	1.3	1.6	1.9	2.6	1.6		23	3.4	0.8	1.7
7/29/07	1.6	1.7	1.5	1.7	1.7	1.7	1.7	1.7	1.2	1.0	1.0	1.1	1.3	1.2	1.2	1.4	1.6	1.6	1.6	1.7	1.7	1.3	1.3		23	1.7	1.0	1.5
7/30/07	1.6	1.5	1.8	1.8	1.8	1.8	1.5	1.4	1.4	1.2	1.3	1.4	1.4	1.6	1.6	1.9	1.8	1.8	1.9	2.1	2.0	1.8	1.9		23	2.1	1.2	1.7
7/31/07	1.9			1.8	1.8	1.8	1.7	1.8	2.0		1.7	1.8	1.9	1.8	1.8	1.9	2.0	2.0	1.7	1.8	2.1	1.8	1.9		20	2.1	1.7	1.8
hr max	4.6	4.7	4.3	3.8	4.0	5.6	3.8	4.3	4.2	3.0	2.7	3.2	3.3	3.7	4.7	4.6	5.7	9.0	11.1	10.9	9.8	7.3	5.2	0.0				
hr min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
average	1.8	1.6	1.6	1.6	1.4	1.5	1.4	1.6	1.2	1.1	1.1	1.1	1.1	1.2	1.5	1.8	1.9	2.5	2.8	2.9	2.6	2.4	1.9	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
11.10	0.00	1.70
7/7/07	7/10/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	624
possible hours	744
data capture	83.9%

Basin Electric - Gettysburg S.D. Monitoring Program
July-07
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NO

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
7/1/07	0.6	0.7	0.7	0.7	0.8	0.8	1.0	1.0	1.0	0.9	0.8	0.7	0.8	0.9	1.1	1.0	1.0	0.9	0.8	0.7	0.7	0.8	0.6		23	1.1	0.6	0.8
7/2/07	0.7	0.7	0.7	0.7	0.7	1.2	1.3	1.3	1.2	1.2	1.0	0.8	0.8	0.8	0.8	0.8	0.7	0.9	0.9	0.8	0.8	0.7	0.7		23	1.3	0.7	0.9
7/3/07	0.6			0.7	0.7	1.3	0.7	0.8	1.0	0.9	1.0	1.1	1.1	1.1	1.1	1.0	1.3	1.3	1.8	2.1	2.1	1.0	0.7		21	2.1	0.6	1.1
7/4/07	0.8	0.7	0.7	0.8	0.7	0.9	1.3	1.6	1.5	1.3	0.9	1.2	1.3	1.4	1.6	1.6	2.1	2.3	2.3	2.3	1.7	1.4	1.2		23	2.3	0.7	1.4
7/5/07	0.8	0.8	0.8	0.7	0.7	1.1	1.2	1.5	1.4	1.2	1.2	1.3	1.3	1.4	1.8	1.9	1.8	1.6	1.8	1.8	1.4	0.7	0.8		23	1.9	0.7	1.3
7/6/07	0.8	0.7	0.7	0.7	0.7	0.9	1.1	1.0	0.9	1.0	1.4	1.6	1.9	2.3	2.9	3.5	4.5	5.2	5.7	4.0	2.5	1.7	1.1		23	5.7	0.7	2.0
7/7/07	0.7	0.8	0.9	0.7	0.8	0.8	1.0	1.2	1.2	1.0	1.1	1.5	2.0	2.3	3.2	3.3	4.0	7.4	9.1	8.4	5.7	2.1			22	9.1	0.7	2.7
7/8/07	1.6	0.9	1.1	1.1	1.1	1.0	0.9	0.9	1.0	0.9	1.0	1.1	0.8	0.7	1.0	1.2	1.3	1.4	1.6	1.3	1.1	0.8	0.8		23	1.6	0.7	1.1
7/9/07	0.7	0.6	0.7	0.7	0.7	0.7	1.1	1.1	0.9	0.7	1.1	1.3	1.5	2.3	2.5	2.8	3.0	3.1	2.7	2.0	1.6	1.3	1.1		23	3.1	0.6	1.5
7/10/07	1.0			0.8	0.8	0.8	1.1	1.1	1.2	0.0	0.0	2.3	0.7	0.0	1.4	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0		21	2.3	0.0	0.5
7/11/07	0.3	0.7	0.0	0.0	0.7	0.0	0.0	0.0						2.4	3.8	3.5					0.1	0.0	0.0		14	3.8	0.0	0.8
7/12/07	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4									2.5	1.3	0.5	0.0	0.0	0.0	0.0		15	2.5	0.0	0.3
7/13/07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3						0.6	0.0	0.0	0.0	0.7	1.6	0.8	0.0	0.0	0.0		18	2.3	0.0	0.3
7/14/07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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
7/15/07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.6	1.8	0.0	0.0	0.0		23	1.8	0.0	0.2
7/16/07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.4	2.0	0.6	0.0	0.0		23	2.0	0.0	0.2
7/17/07	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.0	3.5	3.8	2.7	0.3	0.0	0.0		21	3.8	0.0	0.6
7/18/07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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
7/19/07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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
7/20/07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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
7/21/07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.3	5.1	7.6	8.3	7.7	5.1	2.5		23	8.3	0.0	1.7
7/22/07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2									16	1.2	0.0	0.1
7/23/07	0.0	0.0	0.0	0.0	0.0					0.0	0.0	0.0	1.6												9	1.6	0.0	0.2
7/24/07	0.0			0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	1.1								2.8		12	2.8	0.0	0.3
7/25/07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9													12	0.9	0.0	0.1
7/26/07	0.2	0.0	0.0	0.0	0.0	0.0	0.0						0.0						0.0		0.0	0.0	0.0		12	0.2	0.0	0.0
7/27/07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				0.3	0.4	0.5	0.5	0.5	0.6	0.3	0.2	0.2	0.2	0.2		20	0.6	0.0	0.2
7/28/07	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.5	0.6	0.7	0.7	0.7	0.7	0.8	0.6	0.3	0.2	0.2		23	0.8	0.2	0.4
7/29/07	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.6	0.6	0.7	0.8	1.0	0.9	0.8	0.7	0.6	0.2	0.3		23	1.0	0.2	0.4
7/30/07	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.6	0.7	0.9	1.1	1.1	1.2	1.2	1.2	1.3	1.2	1.0	0.7	0.7		23	1.3	0.2	0.7
7/31/07	0.6			0.3	0.2	0.2	0.3	0.5	0.7		0.7	1.0	1.1	1.2	1.2	1.2	1.3	1.3	1.0	0.9	0.8	0.7	0.7		20	1.3	0.2	0.8
hr max	1.6	0.9	1.1	1.1	1.1	1.3	1.3	2.3	1.5	1.3	1.4	2.3	2.0	2.4	3.8	3.5	4.5	7.4	9.1	8.4	7.7	5.1	2.8	0.0				
hr min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
average	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.5	0.4	0.5	0.6	0.6	0.7	1.0	1.0	1.2	1.6	1.8	1.7	1.1	0.7	0.5	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
9.1	0.0	0.7
7/7/07	7/10/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	624
possible hours	744
data capture	83.9%

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July-07
ppb
NO2

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
7/1/07	1.7	1.6	1.8	1.9	1.9	1.9	1.7	1.5	1.4	1.1	1.1	0.9	0.9	0.9	0.8	0.9	0.9	0.9	1.2	1.3	1.4	1.8	1.6		23	1.9	0.8	1.4
7/2/07	2.3	2.3	2.5	2.9	3.6	4.5	2.8	2.3	2.0	1.9	1.9	1.8	1.7	1.5	1.3	1.4	1.3	1.2	1.4	1.6	2.2	2.7	2.4		23	4.5	1.2	2.2
7/3/07	2.5			2.6	2.5	1.6	1.5	1.6	1.8	1.8	1.9	1.4	1.4	1.5	1.4	1.4	1.9	1.7	1.9	2.1	2.5	2.6	2.3		21	2.6	1.4	1.9
7/4/07	1.9	2.0	2.3	2.3	2.2	2.4	2.3	2.6	2.6	2.1	1.2	1.0	1.3	1.0	1.0	1.0	1.0	1.1	1.2	1.8	3.0	4.2	2.4		23	4.2	1.0	1.9
7/5/07	3.6	3.8	3.4	2.8	2.9	2.6	2.4	2.4	1.8	1.2	1.2	1.3	1.0	0.9	0.9	1.0	0.9	1.0	1.1	1.7	2.8	3.4	3.1		23	3.8	0.9	2.1
7/6/07	3.9	3.8	3.8	2.9	1.7	1.7	1.5	1.3	1.4	1.0	0.9	0.9	0.8	0.9	1.0	1.0	0.9	1.1	1.1	1.1	1.6	1.7	1.6		23	3.9	0.8	1.6
7/7/07	1.7	1.8	1.8	1.7	1.9	1.8	2.0	1.9	1.9	1.8	1.6	1.5	1.3	1.4	1.2	1.1	1.4	1.7	2.2	2.6	3.4	4.0			22	4.0	1.1	1.9
7/8/07	2.8	3.6	2.7	2.8	2.9	2.6	1.8	1.6	1.4	1.3	1.3	1.3	1.0	0.8	0.7	0.9	0.9	1.0	1.2	1.5	1.6	2.0	2.4		23	3.6	0.7	1.7
7/9/07	1.7	1.9	1.8	2.1	2.3	1.8	1.6	1.3	1.0	0.8	0.9	1.0	1.1	1.2	0.9	1.0	0.9	1.0	1.2	1.5	1.7	2.1	2.1		23	2.3	0.8	1.4
7/10/07	2.9			1.4	1.3	1.4	1.4	1.2	1.1	1.3	2.0	1.4	2.3	2.7	0.3	3.4	3.9	2.9	1.5	0.4	5.2	8.2	4.2		21	8.2	0.3	2.4
7/11/07	2.0	0.0	3.2	3.3	3.7	5.0	1.0	3.6						0.2	0.2	0.3					1.8	3.6	2.2		14	5.0	0.0	2.1
7/12/07	1.3	1.2	2.9	2.7	2.5	2.3	2.5	2.1									1.0	1.0	1.0	1.2	1.6	2.2	1.8		15	2.9	1.0	1.8
7/13/07	1.3	1.2	1.5	1.4	1.3	1.4	1.2	2.4						1.0	1.0	0.9	1.0	1.3	1.4	2.0	3.2	3.6	4.5		18	4.5	0.9	1.8
7/14/07	3.3	2.7	3.3	3.7	3.5	3.2	2.5	1.8	1.7	1.6	1.3	1.3	1.5	1.2	1.3	1.3	1.3	1.4	1.2	1.4	1.9	2.1	2.3		23	3.7	1.2	2.0
7/15/07	2.1	2.0	1.8	1.7	1.9	2.2	2.5	1.7	1.2	1.1	1.1	1.4	1.1	1.3	1.4	1.3	1.3	1.6	1.6	1.9	2.0	2.1	2.3		23	2.5	1.1	1.7
7/16/07	2.1	2.3	2.3	2.3	2.9	3.2	2.9	2.6	2.1	1.9	1.8	1.7	1.7	1.8	1.7	1.3	1.4	1.5	1.7	2.1	2.3	2.3	2.7		23	3.2	1.3	2.1
7/17/07	2.6			2.8	2.8	3.0	2.7	2.5	2.2	1.9	1.7	1.5	1.3	1.4	1.3	1.3	1.4	1.6	1.9	2.1	2.4	2.3	2.4		21	3.0	1.3	2.1
7/18/07	2.2	2.2	2.2	2.6	2.3	2.1	2.0	1.9	1.9	1.7	1.4	1.4	1.2	1.2	1.3	1.3	1.4	1.8	2.0	2.7	3.3	3.6	4.3		23	4.3	1.2	2.1
7/19/07	3.2	2.7	2.2	2.2	2.5	2.7	2.3	1.7	1.6	1.4	1.2	1.1	1.2	1.1	1.2	1.1	1.4	1.3	1.2	1.5	2.0	2.2	2.0		23	3.2	1.1	1.8
7/20/07	2.2	2.1	2.0	1.9	1.9	1.8	1.9	2.2	1.9	1.6	1.4	1.4	1.3	1.3	1.2	1.3	1.3	1.4	1.3	1.5	1.6	1.7	1.8		23	2.2	1.2	1.7
7/21/07	2.1	2.2	2.4	2.2	2.3	2.3	2.2	2.1	2.0	1.8	1.8	1.7	1.7	1.5	1.6	1.5	1.6	1.6	2.0	2.4	2.3	2.1	2.1		23	2.4	1.5	2.0
7/22/07	2.0	2.0	2.2	2.4	2.3	2.6	2.4	2.3	2.3	2.0	1.9	1.7	1.6	1.4	1.2	1.4									16	2.6	1.2	2.0
7/23/07	4.3	5.9	4.9	4.8	4.1					1.7	1.6	1.3	1.4												9	5.9	1.3	3.3
7/24/07	2.4			2.1	1.9	2.1	1.9	1.9	1.9			1.5	1.3	1.3	1.3								2.4		12	2.4	1.3	1.8
7/25/07	2.6	2.5	2.2	2.3	2.3	2.5	2.2	2.3	2.2	2.3	1.9	1.7													12	2.6	1.7	2.3
7/26/07	1.9	2.1	2.4	2.5	1.9	2.2	2.2						1.9						1.8		3.4	4.4	4.0		12	4.4	1.8	2.6
7/27/07	4.7	4.6	4.7	4.3	4.2	4.2	3.0	2.8	1.7				1.0	1.1	1.1	1.0	1.0	1.2	1.6	2.1	2.1	2.2	2.2		20	4.7	1.0	2.5
7/28/07	1.5	1.9	3.4	2.7	2.4	2.8	1.9	1.4	0.9	1.2	1.1	0.9	0.8	0.9	0.9	0.9	0.8	0.9	0.9	1.3	1.8	2.5	1.7		23	3.4	0.8	1.5
7/29/07	1.7	1.6	1.5	1.7	1.8	1.7	1.6	1.5	1.2	1.1	1.0	0.9	0.8	0.9	0.8	0.8	0.8	0.8	0.9	1.1	1.3	1.3	1.3		23	1.8	0.8	1.2
7/30/07	1.5	1.6	1.8	1.8	1.8	1.8	1.4	1.3	1.3	1.1	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.9	1.2	1.3	1.3	1.4		23	1.8	0.7	1.2
7/31/07	1.6			1.8	1.9	1.8	1.7	1.5	1.6		1.2	1.1	1.0	1.0	1.0	0.9	0.9	1.0	1.0	1.1	1.4	1.5	1.5		20	1.9	0.9	1.3
hr max	4.7	5.9	4.9	4.8	4.2	5.0	3.0	3.6	2.6	2.3	2.0	1.8	2.3	2.7	1.7	3.4	3.9	2.9	2.2	2.7	5.2	8.2	4.5	0.0				
hr min	1.3	0.0	1.5	1.4	1.3	1.4	1.0	1.2	0.9	0.8	0.8	0.8	0.8	0.2	0.2	0.3	0.8	0.8	0.9	0.4	1.3	1.3	1.3	0.0				
average	2.4	2.4	2.6	2.5	2.4	2.4	2.0	2.0	1.7	1.5	1.4	1.3	1.3	1.2	1.1	1.2	1.3	1.3	1.4	1.6	2.3	2.7	2.4	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
8.2	0.0	1.9
7/10/07	7/11/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	624
possible hours	744
data capture	83.9%

Basin Electric - Gettysburg S.D. Monitoring Program
July-07
ppb
O3

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
7/1/07	34.5	36.5	36.4	32.4	29.0	27.8	27.3	28.0	29.6	31.3	32.5	33.6	35.0	36.4	37.2	36.5	36.5	37.5	35.7	34.4	33.9	28.8	32.4		23	37.5	27.3	33.2
7/2/07	26.9	25.7	23.9	20.6	16.9	11.0	17.6	21.4	25.3	25.9	27.7	28.6	30.7	34.0	35.8	37.9	38.3	38.8	37.3	32.8	27.0	22.1	22.4		23	38.8	11.0	27.3
7/3/07	17.1		32.3	10.9	9.2	29.6	31.2	31.3	27.4	25.1	29.3	34.6	33.4	41.1	47.3	48.0	45.3	46.8	45.1	35.1	29.1	28.1	29.2		22	48.0	9.2	32.1
7/4/07	30.6	28.8	25.8	22.8	21.3	20.9	21.3	23.9	27.7	36.2	38.8	41.7	41.9	42.4	42.7	42.1	42.7	42.1	39.4	36.0	32.8	20.7	24.9		23	42.7	20.7	32.5
7/5/07	23.3	18.0	20.6	22.8	19.6	20.4	22.6	20.6	32.6	39.1	42.0	46.2	39.0	37.2	36.9	36.3	35.7	35.2	31.6	25.2	20.2	18.3	36.0		23	46.2	18.0	29.5
7/6/07	16.7	17.7	17.2	18.1	17.8	18.0	19.3	27.0	31.6	35.3	37.0	37.9	39.7	40.3	42.0	42.6	42.3	40.0	38.4	34.3	34.6	35.7	36.0		23	42.6	16.7	31.3
7/7/07	30.9	32.4	33.9	33.0	31.6	31.0	28.9	32.0	33.7	37.8	40.3	41.6	48.5	51.5	50.1	46.7	41.6	29.6	20.2	30.8	32.0	32.8	24.7		23	51.5	20.2	35.5
7/8/07	30.6	26.8	29.1	29.1	21.0	16.1	16.2	15.1	15.9	16.6	18.4	20.9	27.4	29.8	30.2	30.4	29.6	31.0	29.4	24.9	19.5	15.3	13.4		23	31.0	13.4	23.3
7/9/07	13.6	12.0	11.3	9.8	11.1	11.8	13.0	14.6	20.5	24.9	27.9	31.3	32.2	33.8	35.6	35.8	35.7	36.0	32.7	30.4	28.2	25.0	23.5		23	36.0	9.8	23.9
7/10/07	23.5		40.6	23.3	23.4	21.7	22.1	23.6	26.0	23.0	21.4	23.4	26.2	24.3	28.2	23.1	27.3	23.9	27.9	28.7	22.0	11.2	13.3		22	40.6	11.2	24.0
7/11/07	14.1	10.7	10.2	6.6	9.2	6.9	7.8	15.6	26.8	29.3	31.0	31.7				32.5	33.1	32.2	29.6	25.5	22.6	19.8	24.4		20	33.1	6.6	21.0
7/12/07	27.7	28.6	17.1	17.7	16.9	13.0	9.4	9.8	19.6	31.8	32.1	34.2		66.4	38.8	39.8	42.4	41.0	38.4	32.4	25.6	19.3	17.2		22	66.4	9.4	28.1
7/13/07	18.6	18.4	15.9	17.3	19.7	20.3	23.5	27.0	30.0	35.4	38.0	39.1	35.9	34.0	32.4	32.2	32.9	34.1	34.3	27.1	21.2	20.1	14.5		23	39.1	14.5	27.0
7/14/07	17.6	23.4	18.1	17.4	16.4	13.8	14.8	21.1	25.5	27.2	28.3	28.0	32.7	28.9	30.4	33.4	35.0	32.8	26.1	22.1	18.9	17.3	18.0		23	35.0	13.8	23.8
7/15/07	13.9	15.0	15.2	15.3	13.7	12.6	7.9	18.9	27.8	29.0	28.8	29.1	30.7	31.7	32.7	33.5	33.8	34.0	33.0	26.3	26.0	24.5	21.6		23	34.0	7.9	24.1
7/16/07	26.7	24.1	22.8	20.6	17.9	15.9	21.1	23.4	26.4	30.4	32.3	34.8	35.9	34.7	35.5	39.1	41.2	41.5	39.7	34.0	32.3	30.8	27.2		23	41.5	15.9	29.9
7/17/07	24.7		35.6	13.2	11.9	9.6	11.2	16.3	22.5	31.4	37.2	41.3	44.5	45.2	45.3	45.5	46.8	26.7	25.2	40.5	42.1	39.5	35.2		22	46.8	9.6	31.4
7/18/07	33.1	30.1	27.3	22.3	26.2	25.3	22.5	21.8	23.9	28.2	32.1	36.3	40.9	42.6	41.5	36.3	34.2	27.3	22.7	19.5	18.1	15.3	13.2		23	42.6	13.2	27.9
7/19/07	10.1	12.5	17.0	16.9	16.4	14.8	14.2	20.1	23.6	27.0	29.5	31.8	33.5	35.5	36.5	37.7	39.6	40.3	40.6	33.9	34.0	30.4	28.1		23	40.6	10.1	27.1
7/20/07	30.3	29.8	28.6	28.7	30.7	31.2	33.1	34.6	37.3	42.0	43.6	45.4	46.9	47.5	47.8	48.3	51.0	52.1	51.7	49.7	48.3	46.0	43.7		23	52.1	28.6	41.2
7/21/07	40.2	37.1	37.2	37.2	34.0	32.1	30.3	30.9	31.7	34.4	38.4	42.4	45.6	46.9	48.1	48.4	48.7	27.8	25.0	22.4	22.1	31.0	36.2		23	48.7	22.1	36.0
7/22/07	32.4	31.1	29.2	27.4	25.8	22.0	21.8	18.8	20.2	22.3	26.9	35.5	41.2	42.1	43.5	44.8									16	44.8	18.8	30.3
7/23/07	16.7	7.6	7.3	6.6	5.2	8.0	11.3	19.7	25.1	28.9	34.5	40.8	42.5												13	42.5	5.2	19.6
7/24/07	33.4		43.1	27.6	26.3	21.9	22.2	24.8	26.5	27.6	37.7	41.2	39.7	41.0	41.4								37.3		15	43.1	21.9	32.8
7/25/07	30.2	28.0	28.2	27.7	28.0	22.0	23.6	27.1	32.5	38.5	44.2	48.4													12	48.4	22.0	31.5
7/26/07	41.5	39.6	34.2	22.7	18.4	30.4	36.7						20.7			22.9		33.9	32.4		20.8	15.9	18.7		14	41.5	15.9	27.8
7/27/07	12.0	10.4	8.3	8.5	10.2	10.3	10.6	15.4	24.6			35.6	38.6	40.8	42.1	43.3	44.9	42.3	37.6	33.0	28.7	25.6	23.7		21	44.9	8.3	26.0
7/28/07	26.1	24.1	16.6	15.4	15.8	15.4	17.4	22.1	28.4	35.1	37.5	38.1	39.0	40.0	41.8	42.0	43.5	41.8	42.9	36.9	31.5	25.9	31.3		23	43.5	15.4	30.8
7/29/07	28.1	28.8	30.2	27.3	25.4	23.4	23.7	28.0	40.1	47.0	48.5	50.1	52.1	54.7	55.8	55.2	54.4	53.0	51.3	47.5	44.5	42.8	40.8		23	55.8	23.4	41.4
7/30/07	31.7	27.5	24.2	21.4	18.5	17.1	19.9	24.5	30.2	37.5	43.0	44.3	45.8	46.9	46.3	46.6	48.1	47.9	47.1	45.1	43.0	41.5	40.4		23	48.1	17.1	36.5
7/31/07	36.4		47.3	30.8	26.9	25.7	24.4	26.3	32.5	38.8	43.7	44.9	45.2	46.3	47.9	48.0	47.2	46.5	46.3	45.2	42.7	41.1	38.7		22	48.0	24.4	39.7
hr max	41.5	39.6	47.3	37.2	34.0	32.1	36.7	34.6	40.1	47.0	48.5	50.1	52.1	66.4	55.8	55.2	54.4	53.0	51.7	49.7	48.3	46.0	43.7	0.0				
hr min	10.1	7.6	7.3	6.6	5.2	6.9	7.8	9.8	15.9	16.6	18.4	20.9	20.7	24.3	28.2	22.9	27.3	23.9	20.2	19.5	18.1	11.2	13.2	0.0				
average	25.6	24.0	25.3	21.0	19.8	19.4	20.2	22.8	27.5	31.6	34.6	37.1	38.1	40.6	40.5	39.6	40.5	37.6	35.6	32.8	29.7	26.8	27.4					

monthly max hr	monthly min hr	monthly ave hr
66.4	5.2	30.1
7/12/07	7/23/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	658
possible hours	744
data capture	88.4%

Max 8 hr ave. 53.3 7/29/07 12:00

Basin Electric - Gettysburg S.D. Monitoring Program
July-07
w/m2
solar

data
channel
w/m2

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	24 hr	total
7/1/07	0	0	0	0	0	41	178	337	506	660	780	842	901	863	749	675	675	315	33	0	0	0	0	0	24	901	7555	7555
7/2/07	0	0	0	0	0	48	188	337	544	464	302	222	283	488	765	716	506	428	241	88	7	0	0	0	24	765	5627	5627
7/3/07	0	0	0	0	0	0	0	21	108	50	95	245	555	889	850	752	468	460	269	100	8	0	0	0	24	889	4869	4869
7/4/07	0	0	0	0	0	38	178	350	518	671	798	873	880	892	838	727	605	444	268	45	0	0	0	0	24	892	8125	8125
7/5/07	0	0	0	0	0	37	172	334	495	661	785	853	901	892	838	730	618	452	275	104	8	0	0	0	24	901	8153	8153
7/6/07	0	0	0	0	0	38	179	354	528	684	810	880	927	913	850	732	608	444	265	98	7	0	0	0	24	927	8316	8316
7/7/07	0	0	0	0	0	24	104	333	506	696	708	684	919	905	848	609	595	443	144	31	0	0	0	0	24	919	7547	7547
7/8/07	0	0	0	0	0	6	19	66	85	69	90	308	752	812	669	609	524	439	159	55	8	0	0	0	24	812	4668	4668
7/9/07	0	0	0	0	0	27	154	318	462	672	781	847	864	859	505	590	573	373	110	10	0	0	0	0	24	864	7146	7146
7/10/07	0	0	0	0	0	34	172	323	519	630	784	843	765	796	809	673	547	433	215	96	6	0	0	0	24	843	7643	7643
7/11/07	0	0	0	0	0	36	172	339	514		795	813	504	769	629	611	607	463	254	99	7	0	0	0	23	813	6613	6613
7/12/07	0	0	0	0	0	7	27	88	180	296	594	473	802	871	801	553	628	435	256	93	6	0	0	0	24	871	6110	6110
7/13/07	0	0	0	0	0	26	153	320	493	639		837	881	875	828	734	597	430	257	91	5	0	0	0	23	881	7165	7165
7/14/07	0	0	0	0	0	28	148	312	478	622	718	817	654	831	731	719	562	405	242	87	4	0	0	0	24	831	7357	7357
7/15/07	0	0	0	0	0	29	102	258	490	422	470	731	879	860	808	720	584	415	241	87	5	0	0	0	24	879	7100	7100
7/16/07	0	0	0	0	0	23	153	234	408	578	552	526	687	611	579	712	567	387	218	69	0	0	0	0	24	712	6301	6301
7/17/07	0	0	0	0	0	29	111	251	448	622	660	786	860	853	668	567	547	395	195	17	0	0	0	0	24	860	7011	7011
7/18/07	0	0	0	0	0	9	37	50	94	214	390	502	603	374	299	232	159	130	110	28	4	0	0	0	24	603	3235	3235
7/19/07	0	0	0	0	0	27	139	296	471	633	760	843	889	876	818	724	592	425	248	86	4	0	0	0	24	889	7831	7831
7/20/07	0	0	0	0	0	31	155	313	464	621	729	818	856	853	811	726	584	413	234	74	0	0	0	0	24	856	7679	7679
7/21/07	0	0	0	0	0	23	70	256	456	606	728	804	840	822	782	674	564	295	177	58	0	0	0	0	24	840	7155	7155
7/22/07	0	0	0	0	0	6	48	129	127	301	672	803	851	833	776	681	544	382	214	54	0	0	0	0	24	851	6421	6421
7/23/07	0	0	0	0	0	17	110	252	418	574	698	781	830	819	754	670	518	310	219	63	0	0	0	0	24	830	7031	7031
7/24/07	0	0	0	0	0	15	97	239	404	506	688	778	833	816	766	664	531	372	206	65	0	0	0	0	24	833	6980	6980
7/25/07	0	0	0	0	0	15	98	250	419	579	703	786	835	825	775	676	550	391	216	55	0	0	0	0	24	835	7173	7173
7/26/07	0	0	0	0	0	0	7						273			223	184	184	117	63	0	0	0	0	17	273	1051	1051
7/27/07	0	0	0	0	0	18	125	286	514	618	765		806	786	607	739	513	198	103	34	0	0	0	0	23	806	6109	6109
7/28/07	0	0	0	0	0	7	50	192	395	611	731	809	830	823	802	633	633	324	219	65	0	0	0	0	24	830	7124	7124
7/29/07	0	0	0	0	0	16	103	276	459	615	743	822	868	861	808	707	569	404	224	66	0	0	0	0	24	868	7540	7540
7/30/07	0	0	0	0	0	18	125	279	456	625	747	788	827	792	779	710	608	430	219	63	0	0	0	0	24	827	7466	7466
7/31/07	0	0	0	0	0	13	108	267	445	602	727	812	792	805	777	686	541	372	210	54	0	0	0	0	24	812	7210	7210
hr max	0	0	0	0	0	48	188	354	544	696	810	880	927	913	850	752	675	463	275	104	8	0	0	0	monthly	monthly	monthly	
hr min	0	0	0	0	0	0	0	21	85	50	90	222	273	374	299	223	159	130	33	0	0	0	0	0	max hr	Max24hr	Total	
average	0	0	0	0	0	22	112	255	413	536	648	721	772	809	744	651	545	380	205	64	3	0	0	0	927	8316	207311	
																									7/6/07	7/6/07		

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	734
possible hours	744
data capture	98.7%

Basin Electric - Gettysburg S.D. Monitoring Program
July-07
mmhg
BP

data
channel
mmhg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
7/1/07	707.2	706.9	706.9	707.0	707.2	707.4	707.7	707.6	707.6	707.4	707.2	707.0	706.5	706.4	706.2	705.8	705.8	705.1	704.9	704.9	705.8	706.9	705.0	705.2	24	708	704.9	706.5
7/2/07	705.4	705.3	705.1	705.3	705.4	705.4	705.4	705.5	705.8	706.3	706.6	706.1	706.5	706.4	705.9	705.7	705.8	705.9	706.0	706.0	706.3	706.5	706.2	706.1	24	707	705.1	705.9
7/3/07	705.7	705.1	705.2	705.0	705.1	706.7	708.3	706.9	707.2	709.1	708.6	706.8	706.7	706.9	707.1	707.3	707.5	707.6	707.7	707.9	707.9	708.0	707.9	708.0	24	709	705.0	707.1
7/4/07	708.1	708.7	708.7	708.4	708.5	708.8	709.2	709.3	709.5	709.5	709.5	709.7	709.8	709.7	709.5	709.3	709.1	708.8	708.5	708.5	708.5	708.9	709.3	709.6	24	710	708.1	709.1
7/5/07	709.7	709.9	709.8	709.8	710.0	710.0	709.9	710.2	710.4	710.5	710.6	710.7	710.8	710.8	710.6	710.5	710.3	710.3	710.4	710.7	710.8	711.0	711.1	711.1	24	711	709.7	710.4
7/6/07	711.2	711.3	711.2	711.1	711.1	711.0	710.9	710.8	710.6	710.5	710.0	709.6	708.9	708.3	707.9	707.3	706.7	706.3	706.0	705.6	705.0	704.9	704.6	704.4	24	711	704.4	708.6
7/7/07	704.1	703.7	703.0	702.3	701.8	701.4	701.1	700.9	700.6	700.3	700.0	699.9	699.5	699.0	698.4	698.1	697.8	697.4	697.5	698.1	698.7	698.9	699.1	699.5	24	704	697.4	700.0
7/8/07	700.3	700.7	699.1	699.6	700.1	701.4	701.5	701.8	701.3	702.8	703.4	703.6	704.1	704.3	704.1	703.8	703.8	703.8	703.7	704.0	704.6	705.2	705.5	705.3	24	706	699.1	702.8
7/9/07	705.2	704.9	704.9	705.3	705.8	705.9	705.9	706.3	706.3	706.0	705.5	705.0	704.6	704.0	703.6	703.0	702.5	701.5	700.8	700.2	701.7	701.5	702.0	702.6	24	706	700.2	704.0
7/10/07	703.2	703.6	704.2	704.8	705.5	706.3	706.7	707.3	707.5	707.7	707.9	708.2	708.3	708.2	708.2	708.3	708.4	708.5	708.7	708.9	709.3	709.8	710.0	710.1	24	710	703.2	707.5
7/11/07	710.1	710.2	710.1	710.1	710.2	710.5	710.7	710.8	710.8	710.7	710.6	710.4	710.0	709.6	709.3	709.0	708.6	708.3	708.1	708.0	708.1	708.5	708.7	708.9	24	711	708.0	709.6
7/12/07	708.9	708.8	708.6	708.5	708.6	708.7	708.9	709.2	709.4	709.5	709.6	709.6	709.5	709.5	709.3	709.3	709.1	708.9	708.9	709.1	709.6	710.0	710.3	710.4	24	710	708.5	709.3
7/13/07	710.2	710.0	709.8	709.6	709.6	709.6	709.3	708.9	708.5	708.1	707.9	707.5	707.0	706.6	706.3	705.8	705.3	704.8	704.1	703.8	703.8	704.1	704.3	704.4	24	710	703.8	707.1
7/14/07	704.5	704.8	705.0	705.2	705.4	705.6	705.8	706.0	706.3	706.4	706.4	706.4	706.1	705.9	705.7	705.5	705.3	705.3	705.4	705.6	705.7	705.9	706.1	706.3	24	706	704.5	705.7
7/15/07	706.4	706.4	706.4	706.3	706.2	706.5	706.7	706.5	706.1	705.9	706.0	706.0	705.7	705.2	704.8	704.5	704.1	703.8	703.5	703.1	703.0	703.1	703.1	703.3	24	707	703.0	705.1
7/16/07	703.4	703.1	702.8	702.6	702.6	702.8	702.7	703.0	703.4	703.5	703.7	704.3	704.4	704.0	703.6	703.1	702.9	702.7	702.8	703.1	703.1	703.4	703.5	703.4	24	704	702.6	703.2
7/17/07	703.5	703.5	703.2	703.0	702.9	702.9	703.1	703.2	703.4	703.7	703.8	703.9	703.8	703.7	703.5	703.2	703.0	702.8	702.7	703.3	703.8	704.3	704.7	703.9	24	705	702.7	703.5
7/18/07	704.0	703.9	703.9	704.0	703.8	704.5	704.7	704.4	705.0	705.1	705.6	705.6	705.2	705.1	705.3	705.8	705.9	705.9	706.1	706.3	706.3	706.8	706.9	706.8	24	707	703.8	705.3
7/19/07	707.2	707.3	707.8	708.2	708.5	709.0	709.4	709.8	710.2	710.2	710.1	710.1	709.7	709.4	709.2	709.0	708.6	708.3	708.3	708.4	708.6	709.0	709.2	709.1	24	710	707.2	708.9
7/20/07	708.7	708.7	708.9	709.0	709.2	709.2	709.2	709.1	708.9	708.8	708.7	708.4	708.1	707.7	707.4	707.0	706.8	706.6	706.5	706.6	706.7	707.0	707.1	707.1	24	709	706.5	708.0
7/21/07	707.1	706.9	706.7	706.5	706.3	706.1	706.1	706.0	705.8	705.5	705.1	704.8	704.6	704.2	704.0	703.8	703.5	703.3	703.2	703.5	703.9	704.4	704.9	705.1	24	707	703.2	705.1
7/22/07	705.1	705.0	705.1	705.5	705.4	705.3	706.1	706.7	707.3	707.3	706.9	706.8	706.6	706.2	706.1	706.1	706.0	705.9	705.9	706.3	706.8	707.1	707.2	707.1	24	707	705.0	706.2
7/23/07	707.2	707.1	707.1	707.3	707.4	709.9	846.7	710.0	847.1	707.9	707.9	707.7	707.5	707.2	706.8	706.4	706.1	705.9	705.8	705.9	706.1	706.3	706.2	706.2	24	847	705.8	718.7
7/24/07	706.1	705.9	705.8	705.8	705.5	705.4	705.7	705.5	705.8	708.2	845.1	705.2	705.0	704.5	704.1	703.8	703.5	703.2	703.0	702.9	702.8	702.9	702.9	703.0	24	845	702.8	710.5
7/25/07	703.0	702.8	702.8	702.6	702.6	702.9	703.0	702.9	702.8	702.7	702.5	702.2	701.9	701.6	701.2	700.9	700.5	700.2	700.1	700.1	700.1	700.6	700.9	700.8	24	703	700.1	701.7
7/26/07	700.5	700.4	700.6	700.9	701.9	702.6	702.9						704.0			704.0	704.0	704.0	704.0	704.0	705.0	705.0	705.0	705.0	17	705	700.4	703.2
7/27/07	705.0	706.0	706.0	706.0	706.0	707.0	707.0	707.0	708.6	709.6	709.7	709.5	709.3	709.0	708.8	708.5	708.3	708.2	708.2	708.3	708.3	708.5	708.6	708.6	24	710	705.0	707.9
7/28/07	708.7	708.7	708.5	708.2	708.3	708.4	708.6	708.5	708.4	708.3	708.1	707.9	707.6	707.3	707.0	706.7	706.5	706.2	706.0	705.9	706.2	706.6	706.6	706.7	24	709	705.9	707.5
7/29/07	706.6	706.4	706.3	706.2	706.2	706.4	706.6	706.9	707.1	707.1	707.1	707.0	706.6	706.4	706.2	705.9	705.7	705.5	705.5	705.7	706.0	706.4	706.4	706.4	24	707	705.5	706.4
7/30/07	706.4	706.3	706.3	706.3	706.4	706.5	706.5	706.6	706.7	706.6	706.6	706.4	706.1	705.8	705.5	705.3	705.1	704.8	704.7	704.9	705.2	705.5	705.7	705.8	24	707	704.7	705.9
7/31/07	705.8	705.6	705.5	705.4	705.3	705.2	705.2	705.2	705.1	705.1	705.1	704.9	704.5	704.1	703.7	703.4	703.3	703.1	702.8	702.8	702.9	703.1	703.2	703.1	24	706	702.8	704.3
hr max	711.2	711.3	711.2	711.1	711.1	711.0	846.7	710.8	847.1	710.7	845.1	710.7	710.8	710.8	710.6	710.5	710.3	710.3	710.4	710.7	710.8	711.0	711.1	711.1				
hr min	700.3	700.4	699.1	699.6	700.1	701.4	701.1	700.9	700.6	700.3	700.0	699.9	699.5	699.0	698.4	698.1	697.8	697.4	697.5	698.1	698.7	698.9	699.1	699.5				
average	706.1	706.1	706.0	706.0	706.1	706.4	711.0	706.8	711.5	707.0	711.5	706.7	706.4	706.2	706.0	705.7	705.5	705.3	705.2	705.2	705.5	705.8	705.9	705.9				

monthly max hr	monthly min hr	monthly ave hr
847	697.4	706.6
7/23/07	7/7/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	737
possible hours	744
data capture	99.1%

Basin Electric - Gettysburg S.D. Monitoring Program
July-07
%
RH

data
channel
%

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
7/1/07	81.5	80.7	84.0	88.9	92.6	92.0	87.5	81.6	75.3	69.0	65.8	61.3	54.5	50.5	48.7	49.8	49.8	56.6	64.2	68.6	72.8	86.1	82.0	82.8	24	92.6	48.7	71.9
7/2/07	86.4	85.9	87.5	90.0	91.7	93.9	86.2	78.9	73.3	77.8	79.0	80.5	78.8	75.9	72.4	67.7	63.5	63.6	69.0	77.0	86.3	91.1	92.9	94.0	24	94.0	63.5	81.0
7/3/07	96.0	96.5	96.9	97.3	97.8	97.2	95.0	90.3	86.8	89.5	88.1	78.2	75.9	66.5	54.4	55.3	62.0	59.7	61.3	71.0	83.2	87.3	87.7	87.8	24	97.8	54.4	81.7
7/4/07	85.8	83.8	85.6	91.9	91.4	86.9	82.6	78.7	74.6	68.3	64.3	56.9	54.0	50.0	48.4	47.5	45.7	48.9	52.2	62.1	72.5	80.7	80.7	82.9	24	91.9	45.7	69.9
7/5/07	83.5	86.4	84.2	82.3	85.4	84.5	76.5	68.7	62.1	55.8	58.5	56.1	53.3	49.2	46.6	45.2	42.7	43.8	50.1	60.5	70.7	77.9	79.9	81.1	24	86.4	42.7	66.0
7/6/07	84.7	85.7	87.8	86.3	87.7	87.7	83.7	73.5	64.3	55.3	49.1	50.7	47.7	45.6	43.4	43.6	45.5	50.8	55.4	65.3	70.4	70.1	70.5	74.3	24	87.8	43.4	65.8
7/7/07	80.2	82.0	83.8	86.9	87.6	86.8	83.7	71.1	62.1	49.9	44.9	44.5	31.5	28.8	24.0	23.6	32.0	36.3	47.6	62.1	70.4	69.4	68.4	67.7	24	87.6	23.6	59.4
7/8/07	70.3	76.9	77.6	74.2	87.7	91.5	92.1	92.7	90.8	87.9	85.2	81.7	69.4	62.1	57.0	57.4	59.4	59.7	67.1	74.8	82.3	88.1	89.8	92.2	24	92.7	57.0	77.8
7/9/07	89.5	92.0	93.0	94.7	94.1	90.9	86.2	80.3	73.7	66.6	56.0	49.9	49.9	49.1	48.3	51.0	52.2	54.5	63.0	68.1	77.4	89.3	87.0	85.1	24	94.7	48.3	72.6
7/10/07	89.6	88.3	89.1	86.4	84.3	83.8	78.4	73.6	68.4	62.9	58.0	54.9	54.0	52.7	49.5	49.4	48.1	50.1	54.2	61.1	75.6	83.2	85.4	82.0	24	89.6	48.1	69.3
7/11/07	83.3	86.4	87.8	90.4	90.8	89.3	84.0	71.6	55.4	49.3	45.4	42.2	39.2	35.5	34.3	35.4	34.4	36.0	42.2	56.4	62.5	68.7	72.4	86.3	24	90.8	34.3	61.6
7/12/07	79.4	75.2	77.2	78.0	79.2	84.4	87.6	85.2	72.3	54.8	47.5	43.4	41.5	41.6	43.1	45.1	43.8	45.0	49.0	57.0	69.7	79.5	85.5	83.5	24	87.6	41.5	64.5
7/13/07	82.3	82.4	85.9	85.9	83.0	80.5	70.3	63.8	61.4	55.3	50.8	47.3	39.6	33.5	32.3	32.2	31.3	30.9	32.2	47.9	67.5	68.8	74.7	76.4	24	85.9	30.9	59.0
7/14/07	78.1	76.2	85.1	86.9	90.7	90.3	85.0	74.9	66.4	60.7	55.4	44.5	43.8	37.4	34.4	33.7	37.3	44.4	48.4	55.3	69.1	79.7	87.7	89.4	24	90.7	33.7	64.8
7/15/07	90.7	89.3	88.7	89.4	91.8	90.6	90.3	79.8	57.0	53.5	52.2	51.6	47.2	43.7	41.1	42.0	38.5	37.1	44.0	61.1	67.7	71.4	77.5	75.2	24	91.8	37.1	65.5
7/16/07	73.9	76.9	81.4	85.3	88.1	89.0	78.9	71.5	63.8	58.4	56.1	56.7	59.5	62.3	61.4	52.4	49.9	50.9	57.2	67.3	77.5	82.3	89.6	90.3	24	90.3	49.9	70.0
7/17/07	90.4	92.4	93.5	95.6	96.3	95.6	93.8	87.5	78.0	69.0	63.7	57.6	50.3	46.5	48.3	48.6	46.2	48.6	54.3	63.3	69.6	74.4	80.4	84.3	24	96.3	46.2	72.0
7/18/07	84.1	86.5	87.9	91.5	92.1	90.7	89.0	86.9	84.6	78.1	72.5	68.4	65.2	65.2	65.6	68.8	70.8	82.5	84.9	87.0	88.8	91.1	93.8	95.5	24	95.5	65.2	82.1
7/19/07	95.1	95.5	93.4	92.7	92.5	93.0	89.4	80.8	67.5	54.8	44.5	38.0	36.0	33.4	32.9	33.1	32.0	31.6	31.7	46.0	62.1	71.5	76.8	77.2	24	95.5	31.6	62.6
7/20/07	74.8	75.1	77.8	78.3	76.0	74.9	69.3	64.6	59.3	51.5	48.7	46.4	42.0	38.1	35.5	34.8	34.0	36.7	41.5	48.9	54.6	58.9	67.8	75.3	24	78.3	34.0	56.9
7/21/07	80.6	83.6	82.6	81.5	84.0	84.6	86.0	81.7	75.6	68.0	60.5	53.9	48.9	45.2	42.6	40.1	36.7	38.3	41.9	50.3	54.4	59.7	59.1	59.8	24	86.0	36.7	62.5
7/22/07	63.0	65.7	68.9	73.3	76.4	81.2	80.2	87.0	86.7	80.9	69.0	54.2	44.9	39.2	33.3	32.2	30.4	30.3	33.1	61.9	78.0	85.7	90.9	94.7	24	94.7	30.3	64.2
7/23/07	95.5	96.4	96.8	97.1	97.4					56.6	50.7	42.0	36.6	33.9	31.1	28.7	29.9	33.1	40.4	44.8	51.1	51.1	62.4	66.5	20	97.4	28.7	57.1
7/24/07	72.8	79.5	83.7	85.9	88.7	91.2	87.2	75.7	67.3			58.6	49.5	45.3	38.9	42.6	42.7	45.2	46.8	53.6	62.1	67.5	69.8	76.3	22	91.2	38.9	65.0
7/25/07	82.0	84.2	83.4	83.5	82.6	88.3	84.2	76.1	66.8	57.4	48.2	37.0	29.9	29.2	28.2	28.0	27.3	27.8	32.1	42.5	48.9	49.8	52.6	56.0	24	88.3	27.3	55.3
7/26/07	58.3	59.8	64.1	80.8	89.2	90.1	81.1						75.0			75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	17	90.1	58.3	74.9
7/27/07	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	60.7	56.2	49.5	44.5	40.1	35.6	35.3	32.5	31.4	39.7	47.5	54.4	64.5	67.9	70.4	69.7	24	75.0	31.4	58.3
7/28/07	69.3	74.2	80.7	83.9	84.4	84.9	83.5	74.6	62.3	50.7	46.9	42.2	39.0	36.2	34.0	33.0	30.4	36.7	35.7	48.1	62.4	74.3	70.7	69.5	24	84.9	30.4	58.7
7/29/07	75.2	74.4	75.4	80.2	84.0	86.2	81.2	69.4	56.6	49.2	43.5	39.3	36.3	31.7	28.5	28.9	29.1	30.2	33.7	43.1	55.3	60.0	66.2	72.4	24	86.2	28.5	55.4
7/30/07	81.6	87.0	90.5	92.4	94.1	95.0	92.2	84.4	76.3	64.6	55.0	50.1	44.9	42.2	40.2	39.3	38.6	39.6	44.9	53.6	61.4	65.3	68.7	74.9	24	95.0	38.6	65.7
7/31/07	80.2	83.4	87.0	89.0	92.0	93.3	91.3	84.3	73.7	63.3	54.4	49.9	46.0	43.7	42.5	40.7	40.6	40.6	43.8	48.9	58.9	65.7	71.2	73.2	24	93.3	40.6	64.9
hr max	96.0	96.5	96.9	97.3	97.8	97.2	95.0	92.7	90.8	89.5	88.1	81.7	78.8	75.9	72.4	75.0	75.0	82.5	84.9	87.0	88.8	91.1	93.8	95.5	monthly	monthly	monthly
hr min	58.3	59.8	64.1	73.3	75.0	74.9	69.3	63.8	55.4	49.2	43.5	37.0	29.9	28.8	24.0	23.6	27.3	27.8	31.7	42.5	48.9	49.8	52.6	56.0	max hr	min hr	ave hr
average	81.1	82.5	84.4	86.3	88.0	88.1	84.4	78.1	69.8	62.6	57.4	52.8	49.2	45.0	42.5	43.1	42.9	45.3	49.8	59.3	68.5	73.9	77.0	79.1	97.8	23.6	66.3
																									7/3/07	7/7/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	731
possible hours	744
data capture	98.3%

Basin Electric - Gettysburg S.D. Monitoring Program
July-07
in
Prcp

data channel in

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr		daily total
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
7/1/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.04	0.01	0	24	0.04		0.06
7/2/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
7/3/07	0	0	0	0	0	1.41	0.06	0.01	0.01	0.01	0.03	0	0	0	0	0	0	0	0	0	0	0	0	0	24	1.41		1.53
7/4/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
7/5/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
7/6/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
7/7/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
7/8/07	0	0	0	0	0	0	0	0.02	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.02		0.03
7/9/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07	0.01	0	0	24	0.07		0.08
7/10/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
7/11/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0.01	0	0	0	0	23	0.01		0.01
7/12/07	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	22	0.00		0.00
7/13/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
7/14/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
7/15/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
7/16/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
7/17/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
7/18/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0	24	0.02		0.02
7/19/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
7/20/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
7/21/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
7/22/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
7/23/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
7/24/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
7/25/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
7/26/07	0	0	0	0	0.11	0.01	0						0			0	0.01	0	0	0	0	0	0	0	17	0.11		0.13
7/27/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
7/28/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
7/29/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
7/30/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
7/31/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
hr max	0.00	0.00	0.00	0.00	0.11	1.41	0.06	0.02	0.01	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.01	0.07	0.04	0.01	0.00				
hr min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
total	0.00	0.00	0.00	0.00	0.11	1.42	0.06	0.03	0.01	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.01	0.08	0.05	0.01	0.00				

monthly max hr	monthly 24h max	monthly TOTAL
1.41	1.53	1.86
7/3/07	7/3/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	734
possible hours	744
data capture	98.7%

Basin Electric - Gettysburg S.D. Monitoring Program
July-07
DegC
StnT

data channel DegC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
7/1/07	21.7	21.6	21.4	21.3	21.2	21.2	21.3	21.5	21.8	22.1	22.6	23.0	23.1	23.4	23.5	23.6	23.6	23.6	23.5	23.3	23.0	22.7	22.3	22.5	24	23.6	21.2	22.5
7/2/07	22.1	21.9	21.8	21.7	21.6	21.5	21.7	22.0	22.5	22.8	22.8	22.8	22.9	23.0	23.2	23.4	23.5	23.6	23.6	23.5	23.3	22.9	22.5	22.6	24	23.6	21.5	22.6
7/3/07	22.2	22.3	22.6	22.0	21.7	22.2	22.2	22.2	22.4	22.6	22.4	22.6	22.8	23.0	23.1	23.1	23.4	23.9	24.3	25.2	24.6	23.2	22.7	22.6	24	25.2	21.7	22.9
7/4/07	22.4	22.4	22.3	22.4	22.5	22.5	22.7	22.7	22.8	23.0	23.2	23.5	23.7	24.2	24.4	24.7	24.9	25.2	25.4	25.1	24.3	23.8	23.4	23.3	24	25.4	22.3	23.5
7/5/07	23.0	22.9	22.9	22.8	22.7	22.6	22.8	23.0	23.4	23.7	23.9	24.0	24.1	24.3	24.5	24.7	24.7	24.7	24.6	24.5	23.9	23.3	23.1	23.1	24	24.7	22.6	23.6
7/6/07	22.9	22.6	22.3	22.2	22.1	22.1	22.4	22.6	22.9	23.3	23.8	24.3	24.7	25.4	26.4	27.4	28.5	28.9	29.0	27.4	25.5	24.3	23.6	23.5	24	29.0	22.1	24.5
7/7/07	23.2	23.0	22.9	22.9	22.8	22.8	22.8	22.9	22.8	23.0	23.6	24.3	24.8	25.5	27.0	26.9	28.2	30.4	30.4	30.9	28.9	26.5	25.4	25.2	24	30.9	22.8	25.3
7/8/07	24.6	23.7	23.4	23.2	23.1	22.9	23.0	23.0	22.9	22.9	22.9	22.9	22.9	23.1	23.4	23.7	23.9	24.1	24.1	23.7	23.4	23.2	23.0	23.1	24	24.6	22.9	23.3
7/9/07	22.8	22.4	22.2	22.3	22.2	22.2	22.3	22.6	22.9	23.1	23.4	23.8	24.4	25.1	25.6	26.0	26.2	26.0	25.4	24.6	24.0	23.3	23.1	23.1	24	26.2	22.2	23.7
7/10/07	22.9	23.0	23.1	22.5	21.9	21.7	21.6	21.8	22.1	23.2	23.9	24.8	25.0	25.2	25.1	24.7	24.3	24.2	24.2	23.9	23.6	24.0	23.5	22.7	24	25.2	21.6	23.5
7/11/07	21.5	20.9	20.8	20.9	20.9	20.7	21.4	23.0	24.0	24.8	25.9	26.6	26.5	26.9	27.4	27.0	27.6	28.2	28.7	27.7	24.6	22.7	21.6	20.9	24	28.7	20.7	24.2
7/12/07	20.1	19.6	19.6	19.5	19.5	19.4	19.4	19.6	21.0	22.1	22.9	23.9	24.5	25.8	26.7	27.1	27.1	26.9	25.8	24.4	23.5	22.5	22.0	21.8	24	27.1	19.4	22.7
7/13/07	21.0	20.7	20.5	20.3	20.0	19.9	20.0	21.4	22.4	22.9	23.9	25.1	27.4	27.4	26.2	25.8	26.0	27.4	27.8	26.9	25.3	23.4	22.4	22.1	24	27.8	19.9	23.6
7/14/07	21.6	21.3	20.9	20.4	20.2	20.1	20.2	20.8	21.4	21.8	22.0	22.2	22.4	22.5	22.5	22.7	22.9	23.0	23.0	22.6	22.3	21.8	21.5	21.6	24	23.0	20.1	21.7
7/15/07	21.1	20.6	20.3	20.1	20.0	20.0	19.8	20.1	20.7	21.2	21.5	21.7	22.0	22.3	22.9	23.8	25.0	26.7	27.9	27.8	26.1	24.0	22.7	22.3	24	27.9	19.8	22.5
7/16/07	21.7	21.4	20.9	20.6	20.4	20.2	20.6	21.0	21.5	21.8	22.3	22.7	22.6	23.2	23.6	24.2	25.3	26.8	27.9	28.3	26.8	24.8	23.1	22.6	24	28.3	20.2	23.1
7/17/07	21.9	21.8	21.8	21.3	20.6	20.4	20.4	20.6	21.1	21.6	21.9	22.3	23.2	25.0	27.0	26.7	30.1	30.4	30.5	30.6	28.2	26.0	23.9	23.1	24	30.6	20.4	24.3
7/18/07	22.5	22.0	21.7	21.5	21.4	21.4	21.3	21.3	21.3	21.3	21.4	21.8	21.9	21.9	22.0	22.6	22.6	22.4	22.1	21.7	21.5	21.2	21.1	21.2	24	22.6	21.1	21.7
7/19/07	20.8	20.4	20.1	19.9	20.0	20.0	20.1	20.2	20.5	21.1	21.4	21.8	22.0	22.3	22.8	23.4	24.0	24.2	23.9	23.2	22.4	21.5	20.9	20.6	24	24.2	19.9	21.6
7/20/07	20.2	20.1	20.1	20.0	19.8	19.8	19.9	20.1	20.6	21.1	21.6	22.0	22.2	22.8	23.5	24.3	24.9	25.2	24.8	24.0	23.0	22.2	21.7	21.7	24	25.2	19.8	21.9
7/21/07	21.4	21.1	21.0	20.9	20.9	20.9	21.0	21.2	21.4	21.7	22.1	22.6	23.5	24.6	25.8	27.1	29.3	30.4	31.3	31.2	31.2	30.4	29.3	27.9	24	31.3	20.9	24.9
7/22/07	26.2	24.5	23.3	22.8	22.5	22.2	21.9	21.8	21.7	21.9	22.1	22.7	23.9	25.0	26.2	28.8	32.2	34.8	36.4	36.8	35.6	33.6	31.3	29.1	24	36.8	21.7	27.0
7/23/07	26.6	24.4	23.1	22.3	21.9					23.0	24.3	26.3	29.1	32.1	34.7	36.8	38.3	39.1	39.1	38.5	36.9	34.5	31.6	29.4	20	39.1	21.9	30.6
7/24/07	27.3	25.9	25.1	23.4	22.7	22.2	22.0	22.1	22.2			23.9	25.0	26.3	28.6	31.1	33.0	34.4	35.0	35.0	34.0	32.3	29.9	28.4	22	35.0	22.0	27.7
7/25/07	26.6	24.8	23.4	22.7	22.3	22.0	21.9	22.1	22.4	24.4	26.5	29.1	32.4	35.8	38.0	39.2	40.3	40.4	40.6	39.7	37.7	35.2	31.7	29.2	24	40.6	21.9	30.4
7/26/07	26.8	24.8	23.9	23.7	23.6	23.6	23.5						25.1				26.2	26.4	25.8	25.6	24.9	24.2	23.6	23.3	16	26.8	23.3	24.7
7/27/07	22.8	22.6	22.6	22.5	22.5	22.5	22.4	22.3	22.9	23.9	25.6	26.4	26.5	25.6	25.2	25.1	25.0	24.9	24.8	24.4	24.1	23.8	23.6	23.6	24	26.5	22.3	24.0
7/28/07	23.4	23.2	23.0	23.0	22.9	22.8	22.8	22.9	23.0	23.3	23.7	24.0	24.4	24.6	24.9	25.1	25.2	25.2	25.1	24.9	24.6	24.1	23.7	23.7	24	25.2	22.8	23.9
7/29/07	23.4	23.1	23.0	22.9	22.9	22.9	22.9	23.0	23.2	23.6	23.9	24.2	24.5	24.7	24.9	25.0	25.1	25.1	25.0	24.8	24.5	24.3	24.1	24.1	24	25.1	22.9	24.0
7/30/07	23.8	23.4	23.2	23.1	23.0	22.9	23.0	23.2	23.4	23.7	24.0	24.3	24.6	24.8	25.0	25.1	25.3	25.3	25.2	25.0	24.8	24.5	24.3	24.4	24	25.3	22.9	24.1
7/31/07	24.1	24.2	24.4	24.0	23.7	23.6	23.5	23.6	23.8	24.2	24.4	24.6	24.8	25.1	25.2	25.3	25.4	25.6	25.3	25.1	24.9	24.6	24.4	24.4	24	25.6	23.5	24.5
hr max	27.3	25.9	25.1	24.0	23.7	23.6	23.5	23.6	24.0	24.8	26.5	29.1	32.4	35.8	38.0	39.2	40.3	40.4	40.6	39.7	37.7	35.2	31.7	29.4				
hr min	20.1	19.6	19.6	19.5	19.5	19.4	19.4	19.6	20.5	21.1	21.4	21.7	21.9	21.9	22.0	22.6	22.6	22.4	22.1	21.7	21.5	21.2	20.9	20.6				
average	23.0	22.5	22.2	21.9	21.7	21.6	21.7	21.9	22.2	22.7	23.2	23.8	24.4	25.0	25.6	26.2	26.8	27.3	27.4	27.1	26.2	25.1	24.2	23.8				

monthly max hr	monthly min hr	monthly ave hr
40.6	19.4	24.1
7/25/07	7/12/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	730
possible hours	744
data capture	98.1%

data
channel
mps

Basin Electric - Gettysburg S.D. Monitoring Program
August-07
mps
10WS

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
8/1/07	6.9	7.1	6.8	6.6	5.4	5.3	3.1	3.2	2.9	4.8	7.7	8.4	9.3	8.2	8.5	7.9	7.9	7.3	5.0	3.6	2.7	2.7	2.2	1.8	24	9.3	1.8	5.6
8/2/07	2.3	1.5	1.4	1.6	3.0	3.0	4.0	2.3	1.1	1.7	2.1	1.7	1.6	1.5	2.3	1.9	1.6	1.7	1.6	0.6	1.9	2.5	4.8	4.1	24	4.8	0.6	2.2
8/3/07	3.6	3.2	4.0	4.4	4.0	4.2	4.1	4.6	5.4	6.1	6.5	6.2	7.3	6.3	6.5	8.6	9.6	9.7	10.3	9.2	7.6	10.1	11.3	11.4	24	11.4	3.2	6.8
8/4/07	10.4	10.2	10.3	8.3	4.8	4.3	4.0	4.3	4.1	3.7	3.4	2.1	2.4	2.5	2.1	2.2	2.6	3.3	2.8	2.8	2.7	1.8	2.3	2.2	24	10.4	1.8	4.2
8/5/07	1.3	1.7	1.7	2.0	2.0	2.5	1.7	2.9	2.4	2.6	2.6	2.9	3.2	3.0	3.2	3.2	2.9	3.7	3.5	3.7	3.5	3.9	3.3	3.7	24	3.9	1.3	2.8
8/6/07	3.5	3.2	3.3	4.1	4.6	4.5	5.2	6.7	7.1	5.6	6.7	6.1	5.4	3.6	3.7	4.4	3.8	3.3	4.3	3.0	2.9	3.2	3.8	3.8	24	7.1	2.9	4.4
8/7/07	3.9	3.9	2.8	2.5	2.6	2.0	1.8	1.9	2.8	3.5	3.4	2.8	4.4	5.4	6.4	7.4	7.5	7.3	5.8	4.7	5.5	4.6	6.5	7.8	24	7.8	1.8	4.5
8/8/07	7.4	3.5	3.2	2.6	3.6	4.6	5.6	7.1	6.3	5.1	6.1	5.7	4.8	4.6	2.8	4.0	5.2	6.3	7.6	4.7	2.1	1.6	1.9	2.3	24	7.6	1.6	4.5
8/9/07	4.1	4.1	4.4	4.3	4.3	3.7	2.4	1.1	1.4	1.1	1.5	1.9	2.6	2.4	2.1	1.5	2.2	3.9	6.1	6.1	5.5	6.6	6.2	5.0	24	6.6	1.1	3.5
8/10/07	4.9	5.1	5.6	3.5	4.7	5.5	5.6	7.0	8.2	9.6	9.1	11.6	10.9	10.4	10.7	9.7	8.1	8.1	6.8	7.6	5.7	8.2	5.9	6.9	24	11.6	3.5	7.5
8/11/07	6.8	6.2	5.0	2.4	4.4	5.4	9.1	6.7	8.4	7.5	5.5	1.8	3.7	5.1	6.2	6.7	6.7	6.7	5.8	4.5	4.3	4.4	3.3	4.7	24	9.1	1.8	5.5
8/12/07	4.6	4.7	3.5	4.3	3.4	3.9	4.4	4.0	2.8	6.0	8.1	3.8	1.6	2.9	5.4	7.1	7.2	6.5	6.2	5.2	4.5	4.6	3.8	5.6	24	8.1	1.6	4.8
8/13/07	6.3	5.8	6.3	6.3	5.6	6.7	5.7	4.8	6.0	7.1	7.5	6.4	5.4	4.7	4.5	4.3	5.9	6.5	4.7	4.4	4.9	5.8	4.1	2.1	24	7.5	2.1	5.5
8/14/07	4.4	4.3	4.0	4.8	4.5	6.2	5.6	4.0	7.6	6.4	5.8	3.8	4.5	4.9	5.5	5.7	6.8	6.9	6.2	5.2	3.7	4.7	5.2	5.2	24	7.6	3.7	5.2
8/15/07	4.3	3.3	2.8	2.9	2.3	2.2	2.5	2.2	2.5	5.3	5.9	4.5	3.9	3.2	2.2	1.6	1.9	3.1	2.9	2.9	1.9	3.3	2.8	3.0	24	5.9	1.6	3.1
8/16/07	2.2	2.2	2.2	1.9	3.0	4.3	4.1	4.1	3.9	3.2	2.5	2.6	2.5	2.3	2.7	3.4	3.6	3.3	2.9	3.6	4.5	4.6	3.9	5.0	24	5.0	1.9	3.3
8/17/07	5.4	5.0	4.4	5.1	4.6	6.1	6.6	7.7	8.2	7.9	6.7	8.7	8.7	10.6	11.3	9.7	10.0	8.5	8.4	8.0	7.3	6.5	8.0	6.2	24	11.3	4.4	7.5
8/18/07	4.8	5.6	5.9	6.4	6.1	6.0	4.9	4.8	3.9	4.1	4.0	4.3	3.9	3.8	4.6	4.3	4.3	5.0	4.1	3.9	4.1	4.0	4.1	4.7	24	6.4	3.8	4.7
8/19/07	4.7	4.7	4.8	5.1	7.2	6.1	5.0	3.8	3.9	4.7	4.6	4.4	3.6	3.2	3.6	4.2	4.9	5.1	5.2	5.0	4.8	4.3	4.9	5.2	24	7.2	3.2	4.7
8/20/07	4.0	1.8	2.8	3.1	7.6	5.5	3.9	4.0	3.4	2.4	2.4	1.7	1.6	1.4	1.0	3.2	4.7	3.8	2.9	2.9	4.2	4.2	3.3	0.4	24	7.6	0.4	3.2
8/21/07	2.3	2.0	3.0	2.2	3.5	3.3	2.7	1.6	1.8	2.0	5.0	7.0	7.6	6.0	3.7	3.3	4.0	3.7	3.0	3.1	3.7	3.9	2.9	3.9	24	7.6	1.6	3.6
8/22/07	4.2	3.8	4.1	4.5	4.3	2.6	2.5	1.6	1.4	2.6	2.8	2.3	0.9	1.4	4.2	1.8	4.3	2.6	2.5	2.2	1.8	1.4	1.6	0.7	24	4.5	0.7	2.6
8/23/07	2.8	2.8	2.2	1.9	2.5	5.2	6.9	8.4	7.4	7.0	7.2	7.0	4.4	4.1	4.1	3.5	3.6	2.8	0.6	1.0	1.3	1.2	1.3	0.6	24	8.4	0.6	3.7
8/24/07	1.6	1.1	3.0	2.9	3.1	2.4	1.7	2.3	3.7	4.4	3.2	2.9	1.7	1.0	1.6	3.3	3.9	4.9	4.5	4.5	4.5	4.0	3.2	3.0	24	4.9	1.0	3.0
8/25/07	1.7	1.2	2.2	2.1	1.8	1.3	1.2	0.8	1.1	2.1	2.3	3.0	3.9	4.3	4.7	5.3	6.0	5.4	4.3	2.9	3.6	3.8	4.4	5.6	24	6.0	0.8	3.1
8/26/07	5.9	5.4	6.4	7.3	7.4	7.1	7.0	7.6	8.5	8.6	8.2	8.3	8.0	8.2	8.4	8.1	7.5	5.7	5.5	4.8	5.1	5.7	5.4	3.9	24	8.6	3.9	6.8
8/27/07	4.3	4.3	4.3	4.4	6.9	7.3	7.5	7.4	5.9	4.6	4.3	5.0	2.4	4.1	7.3	6.8	3.3	3.8	4.3	4.6	3.5	3.3	5.1	3.1	24	7.5	2.4	4.9
8/28/07	4.5	3.6	3.3	2.4	3.5	4.7	5.4	5.6	5.5	5.4	5.1	3.3	4.4	7.0	7.1	6.0	4.0	4.6	5.5	4.9	3.2	2.2	1.1	2.3	24	7.1	1.1	4.4
8/29/07	1.4	2.2	2.2	3.8	3.7	3.3	3.1	2.1	3.3	3.2	3.0	2.2	1.7	2.1	1.6	2.0	2.3	3.1	3.8	3.5	4.1	4.5	4.4	4.4	24	4.5	1.4	3.0
8/30/07	4.1	3.7	3.7	3.8	4.2	4.5	5.4	5.6	6.8	7.4	7.5	8.0	7.7	7.6	7.1	6.7	6.3	5.6	5.3	5.0	5.3	4.6	3.7	4.0	24	8.0	3.7	5.6
8/31/07	4.5	5.2	5.0	5.1	5.1	3.3	1.7	2.2	4.2	4.8	5.8	7.7	8.6	9.0	8.8	8.8	9.0	7.9	7.6	7.6	8.2	8.1	7.6	6.7	24	9.0	1.7	6.4
hr max	10.4	10.2	10.3	8.3	7.6	7.3	9.1	8.4	8.5	9.6	9.1	11.6	10.9	10.6	11.3	9.7	10.0	9.7	10.3	9.2	8.2	10.1	11.3	11.4				
hr min	1.3	1.1	1.4	1.6	1.8	1.3	1.2	0.8	1.1	1.1	1.5	1.7	0.9	1.0	1.0	1.5	1.6	1.7	0.6	0.6	1.3	1.2	1.1	0.4				
average	4.3	3.9	4.0	4.0	4.3	4.4	4.3	4.3	4.6	4.9	5.0	4.8	4.6	4.7	5.0	5.1	5.2	5.2	4.8	4.4	4.1	4.3	4.3	4.2				

monthly max hr	monthly min hr	monthly ave hr
11.6	0.4	4.5
8/10/07	8/20/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
August-07
mps
50WS

data channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
8/1/07	10.5	10.4	10.5	10.2	8.2	8.3	4.7	5.2	5.3	6.5	9.3	10.1	11.0	9.5	9.9	9.3	9.3	9.0	7.1	6.7	6.1	6.0	5.2	3.4	24	11.0	3.4	8.0
8/2/07	4.5	4.1	3.9	3.2	0.8	1.4	3.9	3.0	1.2	2.0	2.3	2.0	2.0	1.6	2.6	2.2	2.0	2.1	1.9	1.0	2.8	6.4	9.1	6.9	24	9.1	0.8	3.0
8/3/07	4.8	6.7	9.1	9.1	8.4	5.4	6.3	6.0	6.0	6.6	7.6	7.0	8.0	6.9	7.8	10.2	12.4	12.6	13.5	12.3	9.9	13.0	15.0	14.7	24	15.0	4.8	9.1
8/4/07	13.4	13.1	13.4	11.1	6.4	5.5	5.1	5.6	5.2	4.3	3.7	2.3	2.7	2.9	2.5	2.6	3.1	3.6	3.1	4.1	4.3	3.1	3.0	2.7	24	13.4	2.3	5.3
8/5/07	1.6	1.9	1.9	2.2	2.2	2.4	1.8	2.9	2.5	2.8	2.9	3.2	3.5	3.4	3.6	3.6	3.4	4.1	5.4	6.7	7.0	7.2	7.1	7.7	24	7.7	1.6	3.8
8/6/07	7.3	7.1	6.4	6.6	6.2	6.0	6.9	8.5	9.1	7.1	8.3	7.6	6.3	4.0	4.2	4.9	4.2	3.8	5.1	4.7	6.1	4.8	5.4	5.1	24	9.1	3.8	6.1
8/7/07	6.4	7.4	5.5	4.6	4.6	4.8	5.3	4.2	3.4	4.1	3.9	3.2	5.0	6.1	7.3	8.8	9.4	9.2	8.4	8.3	9.6	8.1	10.2	11.3	24	11.3	3.2	6.6
8/8/07	10.8	4.5	3.9	4.9	7.0	8.7	8.4	8.7	6.8	5.9	6.6	6.6	5.7	4.8	3.4	5.0	6.4	8.5	10.6	7.8	5.6	4.4	5.3	5.0	24	10.8	3.4	6.5
8/9/07	5.2	7.6	8.4	8.7	9.3	9.1	5.9	1.9	1.5	1.3	1.7	2.2	3.2	3.0	2.5	1.7	2.7	4.6	8.2	10.0	10.9	11.7	11.0	10.6	24	11.7	1.3	6.0
8/10/07	10.7	9.7	8.3	6.4	7.0	7.1	8.3	9.4	10.9	11.5	10.3	14.4	12.9	12.7	13.2	11.9	9.9	10.1	8.6	11.0	8.2	11.6	9.4	10.1	24	14.4	6.4	10.2
8/11/07	10.1	9.6	8.3	3.4	7.7	8.7	11.4	7.8	10.1	9.2	6.5	2.1	4.3	6.1	7.5	8.2	8.4	8.6	7.8	7.5	8.4	8.6	7.4	9.1	24	11.4	2.1	7.8
8/12/07	8.0	8.9	7.1	6.8	5.1	5.7	5.9	5.4	3.1	7.2	9.4	4.1	1.6	3.3	6.1	8.1	8.4	7.7	8.2	8.3	7.8	7.7	7.1	9.8	24	9.8	1.6	6.7
8/13/07	10.6	9.9	10.2	9.9	8.9	9.8	8.4	5.8	6.6	7.5	8.1	7.4	6.8	5.9	5.8	5.5	8.0	9.5	7.5	8.1	8.6	9.2	7.1	3.0	24	10.6	3.0	7.8
8/14/07	6.1	6.8	7.8	8.6	7.7	9.9	7.7	5.4	10.1	8.0	6.7	4.3	5.1	5.8	6.8	7.2	8.5	9.3	8.4	8.1	6.9	8.0	8.6	8.5	24	10.1	4.3	7.5
8/15/07	7.4	6.7	5.2	4.2	3.6	2.7	2.8	2.3	2.9	6.3	7.0	5.2	4.4	3.7	2.7	2.0	2.4	4.2	4.8	5.4	5.4	6.5	6.0	6.2	24	7.4	2.0	4.6
8/16/07	4.8	4.6	5.7	5.4	5.6	6.7	5.5	5.1	4.3	3.5	2.7	2.7	2.8	2.8	3.1	3.9	4.1	4.0	4.2	6.1	8.9	9.3	8.6	9.4	24	9.4	2.7	5.2
8/17/07	9.6	8.5	7.1	8.1	7.6	9.5	9.9	10.7	11.6	10.8	8.8	10.5	11.0	13.4	13.6	11.9	12.5	10.8	11.1	10.9	9.8	8.9	11.1	8.9	24	13.6	7.1	10.3
8/18/07	6.8	7.8	8.3	8.9	8.2	7.9	6.4	6.2	4.8	5.0	4.7	5.0	4.6	4.3	5.7	5.1	5.5	6.5	5.5	5.2	5.7	5.4	5.5	6.0	24	8.9	4.3	6.0
8/19/07	5.9	6.0	5.4	6.3	8.5	7.6	6.1	4.9	4.9	6.2	5.5	5.3	4.0	3.6	4.2	5.0	5.4	6.5	6.6	6.3	6.2	5.7	6.3	6.7	24	8.5	3.6	5.8
8/20/07	5.1	2.3	3.5	4.1	10.1	7.8	5.3	4.8	4.0	2.7	2.7	1.8	1.8	1.6	1.3	3.8	5.9	5.2	3.9	3.8	6.0	6.7	7.2	3.5	24	10.1	1.3	4.4
8/21/07	5.1	5.4	4.0	2.4	0.9	2.2	3.8	5.0	5.3	3.3	7.2	8.2	8.8	7.1	4.3	3.8	4.7	4.5	4.6	6.0	7.9	8.1	5.8	5.3	24	8.8	0.9	5.2
8/22/07	6.9	6.5	7.1	6.2	6.0	4.5	5.2	3.3	2.7	3.7	3.3	2.4	1.4	2.0	5.7	2.9	5.2	4.1	4.3	5.3	5.1	4.5	3.5	2.9	24	7.1	1.4	4.4
8/23/07	2.2	5.1	3.3	4.2	4.1	8.0	9.9	10.9	9.7	9.3	8.6	8.1	5.2	4.8	4.8	4.0	4.4	3.9	1.5	0.7	1.0	0.6	0.9	0.9	24	10.9	0.6	4.8
8/24/07	2.7	4.6	5.6	6.6	6.6	5.9	4.7	3.8	4.2	4.9	3.5	3.3	2.1	1.2	2.2	4.7	5.8	6.3	6.2	5.8	6.0	5.7	4.5	4.5	24	6.6	1.2	4.6
8/25/07	2.6	1.8	3.2	2.7	2.3	2.0	2.6	1.6	1.2	2.3	2.6	3.3	4.2	4.7	5.2	6.1	6.9	6.3	6.0	4.9	8.1	8.6	8.5	10.1	24	10.1	1.2	4.5
8/26/07	10.1	7.3	10.0	11.3	11.3	10.7	10.3	9.9	10.5	10.2	9.8	9.6	9.3	8.8	9.3	9.2	8.1	6.3	7.8	8.6	9.2	9.7	9.1	6.7	24	11.3	6.3	9.3
8/27/07	7.4	6.6	7.0	7.1	9.2	9.5	10.1	9.5	7.5	5.7	5.7	6.0	2.9	5.2	8.9	8.5	4.0	4.6	5.6	6.1	4.5	4.2	6.5	3.9	24	10.1	2.9	6.5
8/28/07	5.9	4.4	4.2	3.0	4.4	6.0	7.1	7.0	7.1	7.0	5.8	3.9	5.5	8.4	8.7	7.8	5.8	6.3	7.5	7.3	5.7	4.6	3.6	3.3	24	8.7	3.0	5.8
8/29/07	2.3	1.7	0.7	3.8	4.6	6.0	6.6	3.8	3.9	3.7	3.3	2.6	2.0	2.4	1.9	2.2	2.6	3.6	5.5	7.2	8.6	9.6	10.2	9.3	24	10.2	0.7	4.5
8/30/07	8.5	6.7	6.8	6.4	7.2	6.7	8.6	7.6	7.4	7.8	8.2	9.0	8.9	8.8	8.1	7.7	7.2	6.0	7.8	9.7	10.0	7.1	5.9	7.7	24	10.0	5.9	7.7
8/31/07	9.1	9.4	9.1	9.5	9.0	6.4	3.3	3.4	4.7	5.3	6.4	8.9	10.0	10.5	10.3	10.5	11.0	10.1	10.7	11.1	11.8	11.9	11.8	10.1	24	11.9	3.3	8.9
hr max	13.4	13.1	13.4	11.3	11.3	10.7	11.4	10.9	11.6	11.5	10.3	14.4	12.9	13.4	13.6	11.9	12.5	12.6	13.5	12.3	11.8	13.0	15.0	14.7				
hr min	1.6	1.7	0.7	2.2	0.8	1.4	1.8	1.6	1.2	1.3	1.7	1.8	1.4	1.2	1.3	1.7	2.0	2.1	1.5	0.7	1.0	0.6	0.9	0.9				
average	6.9	6.6	6.5	6.3	6.4	6.5	6.4	5.8	5.8	5.9	5.9	5.6	5.4	5.5	5.9	6.1	6.4	6.5	6.7	6.9	7.2	7.3	7.3	6.9				

monthly max hr	monthly min hr	monthly ave hr
15.0	0.6	6.4
8/3/07	8/23/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
August-07
mps
100WS

data channel mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
8/1/07	13.5	12.8	13.1	13.4	11.0	10.8	6.2	5.7	5.9	7.7	9.9	10.7	11.5	10.0	10.4	9.9	9.9	9.8	8.5	8.0	7.4	7.9	7.2	6.2	24	13.50	5.70	9.48
8/2/07	6.1	5.6	5.7	5.1	2.9	1.4	1.7	1.2	1.0	2.0	2.3	2.0	1.8	1.6	2.5	2.3	2.1	2.2	1.7	1.0	2.8	7.5	8.9	7.1	24	8.9	1.0	3.3
8/3/07	7.9	10.9	12.3	12.5	12.1	10.8	10.4	8.7	6.2	6.3	7.1	6.6	8.2	6.8	7.4	10.0	12.5	13.1	15.3	13.9	11.6	14.9	17.4	16.8	24	17.4	6.2	10.8
8/4/07	15.3	15.1	15.5	12.7	7.3	6.4	5.6	5.8	5.4	4.5	4.0	2.5	2.8	3.0	2.7	2.7	3.0	3.8	3.2	4.0	4.4	3.3	3.3	2.6	24	15.5	2.5	5.8
8/5/07	1.7	2.0	1.8	2.3	2.5	3.6	2.0	2.8	2.5	2.7	2.8	3.3	3.4	3.3	3.4	3.5	3.4	4.1	5.5	7.4	8.2	9.2	8.0	7.4	24	9.2	1.7	4.0
8/6/07	7.3	9.0	9.3	9.0	7.7	7.5	8.1	9.6	10.2	7.7	8.9	8.2	6.4	4.1	4.2	5.0	4.2	3.8	5.4	5.0	5.8	4.4	4.9	4.6	24	10.2	3.8	6.7
8/7/07	5.7	7.6	7.3	6.6	6.9	7.4	7.9	6.7	5.3	4.4	4.0	3.3	4.7	6.1	7.3	8.9	10.1	10.2	10.5	11.3	13.3	11.6	13.7	14.2	24	14.2	3.3	6.1
8/8/07	12.7	5.3	4.3	6.9	8.3	9.0	10.6	8.9	6.7	5.6	5.8	6.2	6.4	5.3	3.6	5.2	6.7	9.3	12.1	9.6	7.1	6.1	5.5	4.4	24	12.7	3.6	7.2
8/9/07	4.2	8.0	11.1	12.2	12.0	11.6	8.6	4.2	1.9	1.4	1.7	2.3	3.3	3.2	2.7	2.1	2.5	4.7	9.2	12.8	13.2	15.9	12.3	10.4	24	15.9	1.4	7.1
8/10/07	10.0	9.6	11.3	9.2	9.4	11.9	13.6	12.6	14.2	13.3	11.0	15.8	14.3	13.8	14.3	13.2	11.3	11.4	8.6	12.1	9.1	14.0	13.5	13.1	24	15.8	8.6	12.1
8/11/07	13.4	12.2	9.8	4.8	9.5	10.8	14.5	9.6	11.1	9.5	6.8	2.2	4.6	6.5	8.0	8.8	9.1	9.2	9.0	9.2	11.3	12.7	11.4	12.5	24	14.5	2.2	9.4
8/12/07	10.1	11.0	10.0	9.0	7.4	7.9	8.2	5.9	3.5	7.6	9.6	4.1	1.7	3.5	6.2	8.2	8.7	8.1	9.3	10.5	10.7	10.6	11.3	13.9	24	13.9	1.7	8.2
8/13/07	14.5	13.8	13.7	13.1	10.0	11.7	10.8	6.5	5.9	7.2	8.6	7.7	7.1	6.1	6.0	5.8	8.7	10.7	9.2	10.4	11.7	12.1	9.6	4.5	24	14.5	4.5	9.4
8/14/07	7.3	8.3	9.0	11.5	11.1	12.5	10.1	5.8	11.3	9.0	6.9	4.7	5.1	6.0	7.1	7.5	9.0	9.9	9.5	9.9	8.9	11.2	12.3	12.2	24	12.5	4.7	9.0
8/15/07	10.8	10.3	8.4	5.6	5.3	2.9	2.6	2.5	4.0	6.6	7.4	5.4	4.6	3.6	2.8	2.1	2.5	4.4	5.0	5.9	7.1	9.0	9.2	10.0	24	10.8	2.1	5.8
8/16/07	8.2	7.2	7.9	7.1	7.7	7.8	7.0	5.5	4.6	3.7	2.8	2.6	2.8	2.7	3.2	4.0	4.3	4.1	4.5	6.0	9.0	9.1	9.7	11.0	24	11.0	2.6	5.9
8/17/07	12.9	12.5	10.1	10.4	10.5	12.5	11.9	12.6	13.3	13.0	10.2	11.6	12.6	15.6	14.5	12.5	13.3	12.1	12.7	13.1	12.1	11.1	13.4	11.1	24	15.6	10.1	12.3
8/18/07	8.2	9.4	9.8	11.1	10.0	9.3	7.6	7.0	5.3	5.3	4.9	5.2	4.7	5.0	5.9	6.0	5.3	6.2	5.0	5.2	5.3	6.1	5.7	6.8	24	11.1	4.7	6.7
8/19/07	6.7	6.3	7.2	7.1	10.7	8.8	7.3	4.9	5.6	5.8	5.8	5.5	4.4	3.8	4.2	5.2	6.4	6.9	7.0	6.8	6.7	6.0	6.6	7.2	24	10.7	3.8	6.4
8/20/07	5.5	2.4	3.6	4.5	13.3	9.8	6.2	5.2	4.2	2.8	2.9	1.8	1.6	1.5	1.4	4.1	6.3	5.6	4.0	4.3	6.4	8.1	9.4	6.7	24	13.3	1.4	5.1
8/21/07	6.8	5.8	4.2	2.5	0.7	1.5	3.4	4.9	6.7	5.1	7.6	8.6	9.2	7.3	4.4	4.0	5.0	4.9	4.9	6.5	8.8	8.5	6.0	6.5	24	9.2	0.7	5.6
8/22/07	7.5	7.5	7.1	5.9	5.6	4.1	5.2	5.5	4.4	4.2	3.0	2.2	1.6	2.3	6.1	3.5	5.3	5.0	5.7	5.5	4.9	3.8	3.9	3.2	24	7.5	1.6	4.7
8/23/07	2.0	7.1	5.2	5.6	5.1	10.4	12.6	13.0	11.8	11.4	9.5	8.4	5.5	5.0	5.1	4.1	4.6	4.2	1.7	0.7	0.7	0.6	0.8	0.9	24	13.0	0.6	5.7
8/24/07	2.6	5.9	9.4	10.4	10.0	8.9	7.4	5.9	4.9	5.1	3.7	3.4	1.9	1.2	2.4	4.9	6.5	7.5	6.8	8.0	7.7	7.0	5.6	6.1	24	10.4	1.2	6.0
8/25/07	3.1	3.2	3.4	2.7	1.1	1.2	2.2	1.8	1.1	2.4	2.7	3.2	4.1	4.4	5.0	5.5	6.5	6.7	7.1	6.2	6.6	8.4	9.4	9.8	24	9.8	1.1	4.5
8/26/07	9.5	13.3	15.1	14.5	14.5	13.8	13.2	12.1	11.2	10.5	10.3	10.2	10.1	9.4	10.1	10.2	8.7	6.8	7.9	10.9	12.2	12.9	12.5	10.4	24	15.1	6.8	11.3
8/27/07	10.8	9.5	9.9	7.8	10.1	11.8	11.2	10.3	8.4	6.3	6.1	7.4	3.2	5.0	9.4	9.1	4.2	4.8	5.7	6.2	5.0	4.6	7.0	4.1	24	11.8	3.2	7.4
8/28/07	5.6	5.2	4.8	3.3	4.5	6.5	7.2	7.3	7.4	7.2	6.7	4.2	6.3	9.1	9.3	8.9	7.4	7.5	8.8	8.6	6.9	5.8	4.0	3.8	24	9.3	3.3	6.5
8/29/07	3.0	2.1	0.7	3.2	4.1	5.3	7.2	5.8	4.4	3.9	3.5	2.7	2.1	2.5	1.9	2.1	2.7	3.6	6.0	7.9	8.8	8.3	7.7	6.7	24	8.8	0.7	4.4
8/30/07	7.0	6.9	7.2	7.8	7.4	8.0	8.1	8.1	6.9	7.3	8.7	9.7	9.7	9.7	9.1	8.8	8.5	6.4	7.7	8.6	8.0	10.5	12.1	11.1	24	12.1	6.4	8.5
8/31/07	11.0	11.6	11.5	11.6	11.2	9.3	6.7	4.1	4.8	5.1	6.5	9.1	10.5	11.0	10.3	10.8	11.5	11.5	13.0	14.2	14.9	14.7	13.3	10.0	24	14.9	4.1	10.3
hr max	15.3	15.1	15.5	14.5	14.5	13.8	14.5	13.0	14.2	13.3	11.0	15.8	14.3	15.6	14.5	13.2	13.3	13.1	15.3	14.2	14.9	15.9	17.4	16.8				
hr min	1.7	2.0	0.7	2.3	0.7	1.2	1.7	1.2	1.0	1.4	1.7	1.8	1.6	1.2	1.4	2.1	2.1	2.2	1.7	0.7	0.7	0.6	0.8	0.9				
average	8.1	8.3	8.4	8.0	8.1	8.2	7.9	6.8	6.5	6.3	6.2	5.8	5.7	5.8	6.2	6.4	6.8	7.0	7.4	8.1	8.3	8.9	8.9	8.2				

monthly max hr	monthly min hr	monthly ave hr
17.4	0.6	7.3
8/3/07	8/23/07	

Validated by: Roger L. Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
August-07
Deg
10mWD

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count
8/1/07	179	185	187	187	190	189	208	236	343	355	17	21	13	9	5	5	5	360	5	356	348	344	41	100	24
8/2/07	87	74	42	319	224	240	256	285	312	310	313	308	237	240	215	266	233	227	150	118	134	125	119	148	24
8/3/07	159	167	177	182	172	157	156	161	162	161	157	161	171	167	158	158	154	155	149	148	129	133	137	135	24
8/4/07	129	127	132	123	97	91	83	71	72	56	59	45	2	13	11	31	51	70	62	84	87	102	130	131	24
8/5/07	160	170	142	156	169	165	126	148	155	148	143	180	163	168	152	142	114	115	124	100	93	129	134	132	24
8/6/07	121	94	87	96	93	103	109	100	93	89	93	117	134	131	88	76	80	81	118	126	145	179	211	233	24
8/7/07	256	295	327	358	4	42	45	55	60	87	83	115	156	143	141	146	143	136	135	142	137	122	143	143	24
8/8/07	158	240	85	106	133	146	140	153	162	158	161	159	175	169	196	250	288	317	346	13	36	46	77	139	24
8/9/07	176	190	212	223	230	228	281	29	10	330	289	233	214	212	195	155	138	125	136	142	143	145	153	156	24
8/10/07	153	158	177	176	166	172	175	177	176	176	176	182	179	181	183	179	178	180	158	152	120	55	96	116	24
8/11/07	144	143	137	56	197	10	57	56	66	78	89	346	332	342	350	345	350	356	0	2	10	15	32	21	24
8/12/07	36	30	48	48	51	45	47	35	33	105	107	157	258	347	107	132	134	120	116	117	120	102	114	139	24
8/13/07	144	141	146	143	152	150	147	144	159	166	173	191	221	220	226	249	292	319	342	348	352	5	2	322	24
8/14/07	350	358	356	7	31	30	91	47	71	84	86	49	46	49	81	87	88	86	88	81	65	88	101	103	24
8/15/07	108	109	89	62	63	25	23	12	346	336	354	4	14	40	35	17	353	355	0	17	56	31	47	65	24
8/16/07	76	70	40	44	36	47	50	54	61	75	63	107	102	113	114	117	110	132	135	121	121	119	106	108	24
8/17/07	107	104	95	84	90	99	100	77	83	96	81	88	50	67	99	98	108	98	88	90	90	89	97	96	24
8/18/07	41	56	80	82	106	113	103	106	96	103	94	83	82	54	52	54	43	40	45	46	41	48	48	50	24
8/19/07	52	50	59	66	61	67	58	50	63	45	62	71	66	74	49	50	60	71	79	81	90	86	80	93	24
8/20/07	98	101	134	123	156	149	341	13	28	352	326	345	92	156	229	268	307	316	316	305	298	323	319	44	24
8/21/07	338	326	265	261	228	203	167	77	46	42	328	358	13	23	39	48	68	72	83	95	103	141	178	178	24
8/22/07	189	201	217	204	200	230	278	16	197	267	289	316	234	209	195	249	360	63	59	94	83	32	12	40	24
8/23/07	319	274	67	348	347	335	350	353	352	6	18	19	5	352	342	317	331	344	309	262	266	253	291	335	24
8/24/07	333	36	52	55	59	61	77	78	82	92	94	116	168	246	270	321	294	4	39	58	69	81	57	63	24
8/25/07	25	132	200	244	313	334	17	12	92	122	138	148	166	159	151	151	150	171	177	170	155	143	148	157	24
8/26/07	157	166	178	183	183	187	186	183	185	188	183	183	178	170	175	174	171	167	157	151	149	140	134	112	24
8/27/07	122	116	134	153	31	66	78	85	102	77	72	85	130	30	19	35	28	13	32	37	29	30	11	26	24
8/28/07	39	59	53	49	28	22	35	31	35	38	64	19	359	6	11	12	7	8	6	14	4	3	33	350	24
8/29/07	295	303	284	287	288	281	314	315	314	322	334	342	340	39	62	91	105	143	132	135	138	145	153	151	24
8/30/07	154	155	157	160	162	160	156	160	160	163	171	174	178	177	177	177	173	167	157	159	159	163	167	174	24
8/31/07	185	185	185	184	186	158	100	114	142	152	127	130	130	135	147	141	140	127	124	124	129	138	152	159	24

Validated by:	Roger L Thompson	Date:	9/5/07
Analyst:	Denise Hazelman	Date:	9/5/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
August-07
Deg
50mWD

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count
8/1/07	179	185	188	189	190	190	215	245	343	358	18	22	14	10	7	7	7	1	5	4	5	9	28	53	24
8/2/07	57	56	48	36	44	275	255	286	333	331	326	312	240	244	211	260	232	224	153	139	105	101	116	155	24
8/3/07	168	173	182	183	176	166	161	163	164	163	158	162	172	167	158	159	155	156	150	149	131	135	138	136	24
8/4/07	131	128	133	125	101	94	86	74	74	57	62	47	1	11	13	31	51	70	64	85	91	96	132	139	24
8/5/07	163	173	145	156	171	165	130	153	159	149	145	180	161	166	153	146	118	115	123	104	96	127	134	136	24
8/6/07	131	106	95	102	97	107	112	102	94	91	95	117	136	133	89	81	83	84	119	130	139	169	189	221	24
8/7/07	265	303	346	20	31	49	50	59	63	85	87	121	156	145	142	148	143	137	138	143	142	132	144	145	24
8/8/07	157	216	101	135	142	149	143	154	164	159	162	159	176	170	195	251	288	316	347	16	44	61	74	118	24
8/9/07	160	184	207	217	227	236	260	339	2	333	275	224	217	211	187	152	138	126	138	142	143	145	154	156	24
8/10/07	155	158	173	178	165	170	176	177	176	177	176	183	179	181	183	179	179	180	159	152	131	57	97	117	24
8/11/07	145	145	144	147	216	14	60	57	67	78	88	351	333	344	352	346	350	358	2	7	11	16	24	29	24
8/12/07	41	40	50	51	57	51	54	39	35	106	108	156	273	348	106	133	135	121	116	116	118	105	122	140	24
8/13/07	144	143	148	145	153	151	151	147	160	167	173	191	222	221	227	250	293	319	344	350	356	7	3	351	24
8/14/07	7	18	10	10	30	33	89	56	70	85	87	49	49	50	79	85	90	88	89	83	73	92	102	107	24
8/15/07	112	116	109	77	75	36	25	10	343	336	355	6	17	43	36	18	357	360	7	31	52	43	60	67	24
8/16/07	74	81	75	77	53	51	55	55	62	78	87	110	107	113	115	120	112	135	137	124	122	120	106	108	24
8/17/07	106	107	104	92	96	100	107	81	86	97	82	89	53	69	101	99	108	100	89	92	92	92	99	100	24
8/18/07	49	58	81	86	109	115	106	107	100	105	94	85	81	57	54	57	46	43	47	49	45	52	51	53	24
8/19/07	54	52	61	68	63	68	61	51	64	47	63	72	69	75	52	52	61	72	79	82	91	87	83	93	24
8/20/07	99	108	141	125	157	153	342	15	31	353	327	351	93	165	233	271	306	318	317	311	315	340	345	359	24
8/21/07	350	351	338	348	279	161	135	102	89	67	335	358	13	25	42	47	67	74	83	93	100	126	148	170	24
8/22/07	196	221	238	234	233	247	280	318	273	279	288	320	220	210	194	236	1	62	67	84	90	75	80	101	24
8/23/07	5	321	357	352	346	337	352	355	354	8	20	21	7	354	343	319	332	348	342	299	305	270	328	6	24
8/24/07	345	40	63	73	75	77	92	88	86	95	94	119	165	234	265	325	291	6	40	59	71	82	64	67	24
8/25/07	41	127	187	217	296	318	352	8	105	121	140	150	166	159	153	153	152	173	176	169	156	148	151	156	24
8/26/07	157	166	177	183	182	185	184	183	185	187	184	183	179	171	174	174	171	168	159	152	149	142	137	124	24
8/27/07	129	123	138	151	32	67	79	86	102	81	71	88	128	33	20	36	30	15	34	38	30	33	13	28	24
8/28/07	40	59	53	49	30	21	36	31	36	40	66	20	1	7	13	15	10	11	8	18	24	30	46	23	24
8/29/07	21	16	315	293	293	295	317	324	313	325	335	346	346	46	73	94	114	145	135	136	140	151	155	156	24
8/30/07	158	161	160	161	160	161	158	160	162	164	172	174	178	177	177	177	174	167	159	157	158	163	169	176	24
8/31/07	182	184	184	182	184	180	157	138	145	151	130	132	131	137	149	143	142	129	125	126	131	139	151	159	24

Validated by:	Roger L Thompson	Date:	9/5/07
Analyst:	Denise Hazelman	Date:	9/5/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
August-07
Deg
100WD

data channel Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count
8/1/07	187	191	191	193	194	199	226	265	353	4	23	26	20	16	12	12	12	5	9	8	10	15	27	41	24
8/2/07	56	58	47	46	53	44	241	292	36	4	334	317	236	242	209	263	237	223	162	182	119	105	116	163	24
8/3/07	181	190	191	191	188	180	178	177	170	169	164	168	177	171	162	163	159	160	154	154	137	140	142	140	24
8/4/07	134	133	138	131	109	102	94	81	81	63	67	53	5	14	15	38	54	73	70	90	98	104	138	149	24
8/5/07	168	180	155	163	176	177	155	167	167	152	151	181	159	168	159	151	126	121	126	112	100	129	136	130	24
8/6/07	123	104	101	112	106	117	120	110	101	99	101	124	142	140	96	92	89	92	123	135	145	172	202	238	24
8/7/07	277	304	6	31	33	47	53	60	70	90	96	128	160	149	147	152	147	142	144	149	150	143	148	150	24
8/8/07	160	206	138	151	156	162	155	160	169	163	168	164	180	178	202	255	290	320	350	22	50	67	83	109	24
8/9/07	150	183	198	216	228	231	244	274	309	306	266	227	226	215	191	156	147	132	143	148	151	152	161	164	24
8/10/07	165	170	178	184	173	179	184	183	181	182	180	187	184	186	188	184	185	186	165	157	143	63	103	124	24
8/11/07	150	155	159	179	222	18	66	63	73	84	93	359	336	347	355	349	352	1	6	13	18	20	29	37	24
8/12/07	48	49	55	57	65	62	65	49	43	111	114	161	270	351	112	137	139	126	121	122	122	116	133	148	24
8/13/07	154	153	156	156	162	158	157	153	166	172	178	195	228	227	233	256	296	323	347	353	2	12	11	13	24
8/14/07	29	41	27	23	33	42	91	71	74	91	92	53	55	57	82	89	96	94	95	90	84	100	109	116	24
8/15/07	123	131	131	106	109	71	36	2	331	339	359	10	23	50	40	24	3	5	14	37	55	55	68	71	24
8/16/07	80	89	84	78	70	58	65	62	68	85	97	115	119	121	122	127	119	142	141	132	130	130	122	120	24
8/17/07	112	112	114	106	109	111	119	93	98	104	90	96	59	75	107	105	113	106	95	98	99	100	106	109	24
8/18/07	63	67	89	95	117	123	114	115	109	112	99	91	86	64	59	63	52	50	54	56	53	59	57	60	24
8/19/07	60	56	66	72	69	75	68	56	71	52	69	77	76	81	59	57	66	78	83	88	98	94	90	98	24
8/20/07	105	120	152	133	167	158	343	18	33	356	330	355	103	179	224	280	308	321	319	316	323	344	349	357	24
8/21/07	349	354	346	356	277	136	134	104	97	88	345	2	17	32	46	50	73	80	89	98	103	132	162	194	24
8/22/07	217	235	243	240	231	252	284	302	293	299	298	338	219	216	199	237	4	59	68	86	97	78	82	116	24
8/23/07	28	333	8	353	348	342	355	358	359	13	25	27	13	359	347	325	336	350	343	312	323	214	318	19	24
8/24/07	349	51	74	84	85	90	103	103	97	105	103	125	171	221	266	326	295	12	45	64	77	86	74	77	24
8/25/07	64	126	167	199	256	229	11	28	141	127	144	155	169	163	158	159	158	178	181	175	165	163	164	168	24
8/26/07	169	178	186	191	190	191	190	189	190	192	190	187	183	176	179	179	176	172	164	158	156	153	149	142	24
8/27/07	145	138	148	164	38	73	85	93	107	90	76	90	128	39	25	42	40	22	39	43	38	38	19	36	24
8/28/07	46	65	56	53	36	24	40	36	41	46	71	24	5	12	19	21	18	19	14	26	31	34	47	44	24
8/29/07	49	44	343	300	297	301	319	324	317	329	341	348	353	54	84	113	124	150	142	143	147	158	163	169	24
8/30/07	169	172	171	175	174	173	169	167	168	169	176	179	183	182	182	183	180	173	165	166	171	177	182	189	24
8/31/07	191	191	190	190	192	195	186	164	154	152	138	138	137	142	153	147	146	135	131	133	137	146	159	168	24

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
August-07
Deg
10sigT

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
8/1/07	6.8	7.9	8.0	8.1	8.5	8.1	45.2	12.8	23.4	8.7	9.4	11.1	8.8	11.1	9.1	9.2	9.2	7.2	6.1	4.9	3.8	5.4	20.7	12.2	24	45.2	3.8	11.1
8/2/07	9.0	6.1	9.3	22.0	3.4	6.3	4.0	10.1	19.3	32.0	34.1	45.4	36.5	49.2	19.3	50.9	47.8	27.1	10.4	23.7	20.6	30.6	4.7	5.1	24	50.9	3.4	22.0
8/3/07	4.6	4.4	3.8	5.0	5.2	5.0	6.5	6.6	7.5	7.2	7.6	8.4	9.6	8.3	8.0	7.0	7.2	6.8	7.1	7.1	7.4	6.9	8.2	6.6	24	9.6	3.8	6.8
8/4/07	7.0	7.3	7.3	7.6	9.3	8.4	9.1	7.8	8.7	10.0	14.5	18.5	18.7	20.0	24.6	20.1	14.3	12.8	14.7	6.9	5.4	13.3	10.0	14.7	24	24.6	5.4	12.1
8/5/07	18.3	11.5	12.9	10.5	11.0	7.9	12.6	11.2	13.5	15.8	30.3	22.5	21.3	21.1	16.0	14.2	20.2	10.1	6.3	14.0	9.2	9.5	6.5	6.6	24	30.3	6.3	13.9
8/6/07	7.5	8.3	7.0	9.6	8.4	8.8	8.6	9.4	8.5	9.8	8.8	8.4	10.9	14.3	18.1	13.3	16.2	13.7	8.4	5.6	5.1	5.5	3.8	4.6	24	18.1	3.8	9.3
8/7/07	6.1	5.4	6.4	3.7	3.2	6.4	5.5	9.7	12.3	9.9	15.4	22.6	11.7	11.4	12.2	9.4	8.1	6.8	6.3	5.9	6.3	8.2	6.6	10.5	24	22.6	3.2	8.8
8/8/07	6.5	21.4	14.7	8.6	6.9	6.8	6.1	7.6	8.0	8.1	9.3	8.7	10.0	12.7	29.0	15.8	13.2	8.4	8.1	6.4	8.0	7.4	5.5	10.4	24	29.0	5.5	10.3
8/9/07	3.3	5.5	5.3	4.7	4.6	3.9	29.0	16.6	20.7	34.8	34.5	34.4	26.0	23.1	58.0	52.1	22.7	10.5	7.1	5.8	6.0	5.9	6.4	6.3	24	58.0	3.3	17.8
8/10/07	5.9	6.0	9.6	13.6	8.8	6.0	6.7	7.6	7.2	7.4	9.3	8.7	8.9	9.4	9.7	9.2	9.2	8.5	7.1	9.7	37.0	11.0	8.4	8.5	24	37.0	5.9	9.7
8/11/07	6.9	7.9	8.9	43.0	39.2	11.7	9.0	10.4	10.4	11.5	12.3	42.3	13.8	15.1	10.3	10.0	9.2	8.0	7.1	4.8	5.6	5.4	7.5	5.9	24	43.0	4.8	13.2
8/12/07	7.4	6.8	7.9	8.6	10.8	8.6	9.5	9.3	24.8	12.1	9.9	22.0	48.5	20.2	18.2	9.9	10.3	8.7	7.1	6.3	5.8	6.8	8.2	6.2	24	48.5	5.8	12.2
8/13/07	6.0	6.3	6.4	6.3	6.8	6.6	32.6	8.8	8.6	8.7	9.6	14.3	13.7	11.8	11.0	11.2	12.9	7.3	6.3	6.4	6.4	7.6	14.4	46.8	24	46.8	6.0	11.5
8/14/07	5.5	5.7	5.7	7.0	19.7	9.2	27.8	46.0	16.1	13.4	11.6	18.4	18.3	12.2	10.0	10.3	10.2	8.6	7.7	8.1	8.6	8.3	7.4	7.3	24	46.0	5.5	12.6
8/15/07	7.3	9.9	13.9	10.4	11.3	11.4	8.9	8.9	10.7	8.6	9.4	14.4	15.4	20.5	28.5	38.1	39.2	8.6	4.3	5.4	17.1	21.5	7.7	7.8	24	39.2	4.3	14.1
8/16/07	14.9	13.2	9.4	9.9	6.4	7.7	8.3	9.7	11.1	14.1	18.9	25.0	26.9	37.7	22.7	17.6	10.7	9.6	5.6	3.5	6.5	6.3	6.0	6.6	24	37.7	3.5	12.8
8/17/07	6.6	7.3	10.1	35.2	8.0	10.4	25.9	14.2	14.1	35.9	11.4	8.2	10.2	11.8	8.5	8.5	8.3	9.1	8.2	8.1	8.3	8.3	8.6	9.6	24	35.9	6.6	12.3
8/18/07	23.5	10.7	11.5	9.5	8.3	7.8	8.3	8.3	9.4	8.7	10.5	9.7	10.0	9.6	8.9	9.6	8.3	8.1	8.6	7.5	7.8	9.5	8.0	8.1	24	23.5	7.5	9.6
8/19/07	8.0	8.4	8.2	8.8	8.5	9.0	9.0	9.2	9.7	7.9	11.2	9.6	11.7	11.8	11.8	9.3	8.8	9.9	8.8	8.4	8.9	8.1	8.3	8.1	24	11.8	7.9	9.2
8/20/07	9.7	17.6	39.6	16.6	14.1	45.5	11.1	7.7	12.1	19.7	23.8	51.3	33.5	41.7	37.4	24.8	11.7	7.1	5.5	4.1	4.0	4.3	28.8	22.6	24	51.3	4.0	20.6
8/21/07	6.7	9.1	9.8	9.3	7.7	4.8	4.8	18.7	11.8	26.5	9.3	9.0	10.3	10.8	18.0	19.4	15.4	12.5	6.5	7.3	8.9	6.0	11.0	3.0	24	26.5	3.0	10.7
8/22/07	3.6	3.1	3.2	2.7	2.6	18.5	17.1	30.5	38.7	14.6	10.4	13.2	40.6	16.4	9.9	17.0	12.3	9.6	10.4	10.4	13.2	13.6	6.9	33.4	24	40.6	2.6	14.7
8/23/07	6.0	21.8	20.4	11.5	16.2	7.1	7.1	7.4	7.2	6.6	7.6	10.7	16.2	19.3	16.2	25.4	12.1	8.7	19.6	10.1	16.6	3.1	7.6	16.9	24	25.4	3.1	12.6
8/24/07	14.6	13.3	4.8	5.3	6.4	7.0	11.5	13.6	10.7	10.6	16.1	28.5	25.9	25.2	15.6	26.5	18.7	7.1	8.8	8.0	9.0	7.9	11.7	9.5	24	28.5	4.8	13.2
8/25/07	11.8	26.3	12.7	9.6	11.7	11.1	7.6	21.7	53.9	35.3	31.2	18.1	13.4	12.1	13.4	11.0	8.9	9.3	6.7	4.8	4.6	5.9	6.5	6.2	24	53.9	4.6	14.7
8/26/07	6.0	6.0	6.2	7.4	7.3	7.9	8.0	7.8	9.1	9.9	9.6	9.7	10.2	9.4	8.2	8.6	8.4	7.9	6.7	6.3	6.3	6.4	6.6	8.4	24	10.2	6.0	7.8
8/27/07	8.3	8.1	8.7	38.2	10.8	13.3	9.4	9.4	14.1	42.0	20.7	26.3	17.4	17.4	8.6	9.2	11.5	11.4	10.0	12.9	14.3	10.3	7.0	9.0	24	42.0	7.0	14.5
8/28/07	8.4	9.3	9.7	11.9	7.6	10.2	7.0	7.4	8.3	9.2	14.9	10.3	7.1	8.2	8.7	7.6	7.2	6.5	7.1	5.9	2.5	6.2	10.0	3.9	24	14.9	2.5	8.1
8/29/07	15.6	4.5	5.7	3.6	3.0	7.3	4.4	8.5	9.1	14.2	18.1	46.9	43.4	38.8	39.2	38.7	25.1	17.7	5.9	4.0	4.4	4.7	5.4	5.4	24	46.9	3.0	15.6
8/30/07	5.1	5.5	5.2	6.3	6.2	6.0	6.1	6.6	7.4	8.5	8.8	8.6	10.1	11.3	10.4	11.2	8.3	7.8	6.3	5.5	5.8	5.7	5.2	5.1	24	11.3	5.1	7.2
8/31/07	6.8	6.0	6.4	6.1	6.2	29.9	17.1	11.2	9.3	9.5	12.4	10.1	9.4	10.7	10.1	9.1	7.7	7.4	6.7	6.8	6.5	6.0	6.3	6.0	24	29.9	6.0	9.3
hr max	23.5	26.3	39.6	43.0	39.2	45.5	45.2	46.0	53.9	42.0	34.5	51.3	48.5	49.2	58.0	52.1	47.8	27.1	19.6	23.7	37.0	30.6	28.8	46.8				
hr min	3.3	3.1	3.2	2.7	2.6	3.9	4.0	6.6	7.2	6.6	7.6	8.2	7.1	8.2	8.0	7.0	7.2	6.5	4.3	3.5	2.5	3.1	3.8	3.0				
average	8.5	9.4	9.6	11.6	9.3	10.3	12.4	12.1	14.1	15.2	14.9	19.2	18.3	17.8	17.1	17.2	14.0	9.8	7.9	7.6	9.0	8.6	8.7	10.4				

monthly max hr	monthly min hr	monthly ave hr
58.0	2.5	12.2
8/9/07	8/28/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
August-07
Deg
50sigT

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
8/1/07	4.4	5.4	4.9	5.1	5.4	4.5	40.0	9.2	24.3	6.1	7.2	9.2	6.8	9.2	7.3	7.4	7.4	4.9	3.7	1.8	1.2	0.9	4.2	4.3	24	40.0	0.9	7.7
8/2/07	2.5	1.9	2.4	3.0	28.6	26.7	3.5	6.8	24.2	23.7	26.4	30.5	33.9	44.6	14.6	42.3	43.1	20.3	9.6	18.8	8.4	5.1	2.8	3.6	24	44.6	1.9	17.8
8/3/07	2.3	1.5	1.8	2.4	2.2	2.0	2.2	3.8	4.7	4.8	5.3	6.3	7.5	6.5	5.5	4.4	4.7	4.7	4.7	4.6	5.7	5.0	6.4	5.1	24	7.5	1.5	4.3
8/4/07	5.7	5.7	5.2	6.1	6.9	6.4	7.4	5.2	6.1	7.5	10.5	15.1	16.2	15.4	15.2	16.5	12.9	8.7	10.7	5.8	3.4	8.1	9.0	9.6	24	16.5	3.4	9.1
8/5/07	14.1	8.9	11.8	8.2	8.3	5.1	12.0	6.9	10.9	11.2	20.0	16.3	15.7	18.0	11.1	11.1	15.8	8.4	3.5	10.9	4.0	5.7	2.8	2.5	24	20.0	2.5	10.1
8/6/07	3.5	2.7	3.3	5.6	6.1	6.0	6.8	7.2	6.0	7.0	5.8	6.2	9.9	11.5	14.9	11.5	11.3	10.1	6.1	3.4	3.4	2.9	3.8	4.7	24	14.9	2.7	6.7
8/7/07	3.9	3.8	4.9	2.9	2.3	3.6	2.0	3.8	8.7	7.9	12.0	19.4	9.8	8.8	10.1	7.1	6.0	5.0	4.2	2.8	3.4	5.0	3.5	8.1	24	19.4	2.0	6.2
8/8/07	4.1	30.2	18.9	4.4	4.1	3.2	3.5	5.5	5.4	5.3	7.1	6.3	7.6	10.1	24.8	14.4	12.0	7.1	5.6	3.6	3.1	2.4	3.6	7.7	24	30.2	2.4	8.3
8/9/07	2.7	2.7	2.1	1.7	1.0	0.7	16.0	15.5	20.2	31.4	34.6	34.3	19.4	13.1	55.8	48.8	21.6	7.3	4.9	2.9	2.4	2.9	3.0	2.1	24	55.8	0.7	14.5
8/10/07	1.7	2.3	5.5	8.6	5.3	2.6	3.9	5.7	4.7	5.5	6.4	6.7	6.9	6.8	7.5	7.0	6.6	6.3	4.7	6.7	39.7	8.7	5.3	6.3	24	39.7	1.7	7.1
8/11/07	4.6	5.2	5.9	42.4	22.6	7.1	6.6	8.3	6.9	7.9	8.5	42.4	11.9	12.9	8.6	8.3	7.9	5.5	3.9	3.1	2.3	2.8	2.8	2.8	24	42.4	2.3	10.1
8/12/07	4.5	2.5	3.5	5.7	7.0	5.9	7.2	7.3	24.8	9.3	6.7	18.3	37.3	15.0	14.7	8.7	7.9	6.9	4.8	3.7	3.4	3.4	5.2	3.4	24	37.3	2.5	9.0
8/13/07	2.5	3.1	3.5	3.4	4.2	4.3	24.4	7.1	5.8	6.8	7.2	10.6	11.3	8.1	8.3	9.6	9.9	5.0	4.5	3.1	4.3	4.5	8.1	23.5	24	24.4	2.5	7.6
8/14/07	4.3	3.9	2.5	3.5	9.0	6.9	22.9	29.7	11.3	10.9	8.7	13.4	13.9	8.3	7.1	7.2	8.0	5.4	5.2	4.8	4.7	5.7	4.1	4.2	24	29.7	2.5	8.6
8/15/07	4.2	5.1	7.8	7.7	7.4	8.1	6.2	8.3	7.9	5.5	5.6	10.9	11.7	16.2	19.3	28.6	31.9	6.2	2.6	2.6	6.8	7.7	4.0	3.5	24	31.9	2.6	9.4
8/16/07	4.8	5.6	3.5	4.6	4.5	4.7	5.9	6.5	7.4	10.0	15.3	21.7	18.8	22.3	17.1	13.1	8.3	8.8	4.1	2.6	2.6	2.7	2.8	2.6	24	22.3	2.6	8.3
8/17/07	2.7	3.2	6.3	27.6	4.1	6.1	21.2	10.4	13.6	38.3	8.6	5.9	8.3	10.2	5.0	4.8	5.1	6.6	5.4	5.5	6.2	5.9	5.4	6.4	24	38.3	2.7	9.3
8/18/07	18.3	8.0	7.8	7.1	6.1	6.3	5.9	5.7	7.6	6.0	7.8	7.5	6.8	7.1	7.0	7.2	5.6	5.4	5.7	5.2	5.4	6.9	5.7	5.2	24	18.3	5.2	7.0
8/19/07	5.5	5.8	4.4	6.3	5.0	6.3	6.4	6.8	7.2	5.6	8.2	6.4	8.6	9.8	8.3	6.7	5.5	6.3	5.5	6.0	6.0	5.6	6.0	4.9	24	9.8	4.4	6.4
8/20/07	7.5	19.0	41.1	12.0	8.7	44.6	8.3	5.2	9.8	19.9	18.6	47.3	24.5	36.5	56.7	20.6	9.7	4.5	3.6	3.9	3.0	2.2	2.0	2.3	24	56.7	2.0	17.1
8/21/07	2.8	1.6	2.6	5.8	21.7	14.1	3.9	3.7	3.0	14.1	11.8	5.8	7.7	9.0	14.2	13.4	12.0	9.4	4.6	3.2	5.0	2.6	2.5	3.7	24	21.7	1.6	7.4
8/22/07	3.7	3.1	1.7	2.8	1.7	12.4	6.3	9.3	31.4	9.0	6.5	10.6	39.8	11.6	6.1	14.3	10.2	6.1	5.1	3.8	2.8	3.3	4.5	6.0	24	39.8	1.7	8.8
8/23/07	13.8	10.7	17.9	4.3	5.2	4.9	4.8	5.8	5.1	4.9	5.8	7.9	13.1	14.0	11.8	19.0	11.5	7.2	5.7	13.6	6.9	8.7	9.3	15.0	24	19.0	4.3	9.5
8/24/07	14.6	5.4	3.2	3.8	3.7	4.1	3.8	9.9	7.8	7.2	12.9	26.1	23.0	24.0	12.5	23.6	15.8	5.4	6.6	5.1	6.3	5.8	8.5	6.7	24	26.1	3.2	10.2
8/25/07	9.5	16.7	8.6	9.2	9.8	10.7	3.6	11.3	52.4	25.1	25.3	15.2	10.5	8.1	11.2	7.2	6.2	7.7	4.1	2.3	1.8	3.0	3.7	3.2	24	52.4	1.8	11.1
8/26/07	3.0	2.9	3.3	4.5	4.5	5.3	5.2	5.9	6.2	6.7	7.1	6.7	8.3	7.1	6.2	6.8	6.3	5.1	4.0	3.3	2.9	3.0	3.5	5.7	24	8.3	2.9	5.1
8/27/07	5.3	6.5	5.8	36.5	8.8	9.7	6.5	6.8	11.8	34.3	15.9	22.2	15.9	15.9	6.2	7.0	9.5	9.8	6.5	8.5	11.0	7.7	4.0	6.6	24	36.5	4.0	11.6
8/28/07	5.4	6.2	6.0	9.1	5.5	6.9	4.5	5.3	6.1	6.6	12.8	8.9	4.7	5.8	6.7	5.6	4.1	4.9	4.8	3.6	1.7	2.0	4.0	2.9	24	12.8	1.7	5.6
8/29/07	3.6	6.4	22.3	2.5	1.4	2.0	2.1	5.4	7.0	10.2	13.5	27.0	36.1	23.6	31.6	33.2	22.4	14.3	3.6	1.7	1.0	1.3	1.2	1.7	24	36.1	1.0	11.5
8/30/07	1.2	1.3	1.0	3.1	2.4	2.9	2.8	4.1	5.0	6.1	6.6	6.3	8.1	8.3	8.2	8.1	6.1	5.6	3.3	2.1	1.9	1.8	1.0	2.0	24	8.3	1.0	4.1
8/31/07	2.7	2.8	2.7	1.9	2.2	4.1	7.5	8.1	6.8	6.9	9.8	8.0	8.1	8.7	7.8	7.0	5.8	5.6	4.9	4.9	4.7	3.8	3.3	2.9	24	9.8	1.9	5.5
hr max	18.3	30.2	41.1	42.4	28.6	44.6	40.0	29.7	52.4	38.3	34.6	47.3	39.8	44.6	56.7	48.8	43.1	20.3	10.7	18.8	39.7	8.7	9.3	23.5				
hr min	1.2	1.3	1.0	1.7	1.0	0.7	2.0	3.7	3.0	4.8	5.3	5.8	4.7	5.8	5.0	4.4	4.1	4.5	2.6	1.7	1.0	0.9	1.0	1.7				
average	5.5	6.1	7.2	8.1	7.0	7.7	8.5	7.8	11.6	11.7	11.6	15.5	14.9	13.8	14.2	13.9	11.3	7.2	5.0	5.0	5.3	4.4	4.4	5.5				

monthly max hr	monthly min hr	monthly ave hr
56.7	0.7	8.9
8/20/07	8/9/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
August-07
Deg
100sT

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
8/1/07	3.8	3.6	2.7	2.8	3.4	3.3	25.2	16.1	18.4	5.6	6.5	8.5	7.3	8.8	6.7	7.4	7.4	4.9	2.7	1.6	1.4	1.4	3.2	2.0	24	25.2	1.4	6.4
8/2/07	2.3	1.2	2.0	1.4	2.3	44.2	5.4	16.1	34.0	23.3	21.9	32.8	36.2	37.0	13.9	35.3	29.0	18.6	9.2	17.0	9.1	3.6	1.9	5.7	24	44.2	1.2	16.8
8/3/07	2.3	2.2	2.1	2.2	2.8	2.3	1.3	2.3	4.2	3.9	4.6	5.8	6.7	5.6	5.4	4.3	3.9	3.9	4.0	3.8	4.5	4.2	5.1	3.9	24	6.7	1.3	3.8
8/4/07	4.5	4.4	4.1	4.6	6.5	5.2	6.0	4.6	5.3	6.7	8.4	12.5	16.2	14.6	13.4	18.6	12.8	7.9	8.9	5.5	3.3	6.4	7.8	7.6	24	18.6	3.3	8.2
8/5/07	12.4	9.1	11.5	9.4	8.1	6.8	13.3	7.3	8.9	10.6	23.0	14.7	15.1	15.5	9.4	10.1	14.6	7.8	3.1	8.4	2.8	4.7	1.8	3.3	24	23.0	1.8	9.7
8/6/07	3.4	1.8	2.5	3.6	4.7	5.1	5.6	5.8	5.2	6.3	5.2	5.2	9.4	10.8	13.1	11.9	10.4	11.2	4.5	3.0	3.2	3.4	3.6	4.2	24	13.1	1.8	6.0
8/7/07	6.9	4.1	5.2	2.5	1.4	1.9	1.4	1.4	5.4	7.3	10.5	17.3	10.0	7.7	9.9	6.3	5.0	4.2	2.9	1.8	1.6	2.8	2.2	5.7	24	17.3	1.4	5.2
8/8/07	2.7	24.1	21.2	2.8	2.7	1.8	2.5	4.9	4.9	4.7	5.9	6.0	6.3	9.5	23.7	12.8	11.4	6.6	5.6	3.2	3.0	3.7	3.4	6.7	24	24.1	1.8	7.5
8/9/07	5.8	2.2	3.0	1.9	0.9	0.8	3.1	6.0	26.9	26.4	37.8	30.5	16.8	12.4	40.6	37.7	20.8	6.2	3.8	1.9	2.7	1.8	1.7	1.2	24	40.6	0.8	12.2
8/10/07	1.8	1.8	2.8	7.7	3.4	2.0	3.0	4.5	3.8	5.0	5.6	5.6	6.1	5.9	5.9	5.9	5.1	5.4	3.6	4.8	41.3	7.2	3.8	4.6	24	41.3	1.8	6.1
8/11/07	3.0	3.8	4.6	12.2	16.7	7.8	5.7	7.1	6.3	6.8	7.6	42.8	11.9	11.6	9.2	8.5	7.8	5.6	3.6	2.6	1.7	1.7	1.6	1.8	24	42.8	1.6	8.0
8/12/07	3.3	1.6	2.1	4.3	5.6	5.0	6.2	6.7	23.7	7.5	5.7	15.5	32.1	14.7	13.2	7.6	6.5	5.5	3.0	2.2	1.8	2.9	2.7	1.3	24	32.1	1.3	7.5
8/13/07	1.0	1.4	1.4	2.1	2.4	2.6	10.3	6.2	5.4	5.2	6.1	9.3	10.1	7.6	7.2	8.9	9.0	4.0	3.9	5.0	7.2	3.1	7.5	13.8	24	13.8	1.0	5.9
8/14/07	4.5	1.5	2.5	2.9	5.6	5.8	18.9	21.6	8.4	10.0	8.5	12.0	12.2	7.5	6.2	6.3	7.3	4.3	4.5	3.5	3.7	3.7	2.6	2.7	24	21.6	1.5	6.9
8/15/07	2.8	2.8	4.4	6.3	5.2	10.0	6.4	11.1	6.4	4.7	6.2	9.6	10.7	12.5	16.2	25.4	29.2	6.9	3.1	2.8	4.5	5.3	2.6	2.0	24	29.2	2.0	8.2
8/16/07	3.1	2.8	2.6	3.0	6.7	4.6	5.3	5.8	7.9	9.4	14.2	22.1	19.5	19.2	15.7	10.9	7.4	8.7	3.3	2.4	1.9	1.5	1.7	1.7	24	22.1	1.5	7.6
8/17/07	0.7	1.3	3.9	18.5	4.3	4.4	16.7	9.4	13.3	39.7	8.3	5.1	7.0	9.6	4.4	4.3	4.7	5.5	4.2	4.0	4.8	4.3	4.2	4.9	24	39.7	0.7	7.8
8/18/07	15.8	6.4	5.4	5.0	5.6	5.3	4.9	5.2	7.2	5.7	7.1	6.4	5.4	6.5	5.5	5.6	4.9	4.6	4.7	4.6	4.4	5.9	5.2	4.1	24	15.8	4.1	5.9
8/19/07	4.7	5.0	3.3	5.4	4.1	5.4	5.5	6.4	6.4	4.8	6.9	6.2	7.3	8.9	7.6	5.9	4.9	4.5	4.1	4.6	5.2	4.6	5.3	3.6	24	8.9	3.3	5.4
8/20/07	6.6	26.3	44.5	8.9	6.4	44.1	7.7	4.6	8.2	18.6	15.2	53.3	26.6	34.5	44.4	15.2	9.0	4.1	3.8	4.2	2.8	2.2	1.1	5.1	24	53.3	1.1	16.6
8/21/07	1.9	3.0	1.8	3.8	26.1	6.2	3.8	3.0	1.6	5.6	16.1	6.0	6.8	8.7	11.7	14.3	11.0	8.5	4.2	3.2	4.2	1.6	3.3	4.0	24	26.1	1.6	6.7
8/22/07	4.8	1.9	1.0	1.7	1.7	6.3	5.9	4.8	22.1	8.7	7.7	18.1	33.0	13.2	5.4	16.2	10.3	6.3	3.3	2.7	2.4	2.8	3.3	4.7	24	33.0	1.0	7.8
8/23/07	26.7	7.6	9.6	4.1	5.7	3.6	5.3	6.3	5.9	4.1	5.0	7.2	12.7	13.7	10.7	15.0	10.7	7.2	6.0	9.6	28.7	8.5	13.3	10.5	24	28.7	3.6	9.9
8/24/07	12.6	5.3	2.1	2.1	2.2	2.3	3.1	5.5	7.2	6.9	11.4	20.7	21.9	29.3	10.1	23.6	11.4	4.7	5.9	4.3	4.9	4.7	6.8	5.2	24	29.3	2.1	8.9
8/25/07	7.2	9.2	5.4	10.6	26.3	34.1	3.9	4.3	57.6	22.6	22.7	14.4	10.7	7.6	10.5	6.9	5.4	7.7	3.9	2.2	2.2	2.5	2.3	1.4	24	57.6	1.4	11.7
8/26/07	1.6	1.6	2.1	2.5	2.8	2.8	3.2	4.0	5.0	5.5	5.4	5.2	7.2	6.2	5.9	5.6	5.2	4.5	2.8	1.8	1.5	1.1	1.6	2.5	24	7.2	1.1	3.7
8/27/07	2.2	4.0	3.5	34.0	9.1	8.4	5.4	6.0	10.6	30.0	15.1	19.8	14.6	16.1	5.2	6.3	8.8	9.6	6.1	7.3	9.9	8.2	3.5	5.9	24	34.0	2.2	10.4
8/28/07	4.3	5.4	4.5	7.5	4.2	5.6	4.1	4.3	4.8	5.3	12.7	7.7	5.0	5.6	5.6	5.0	3.3	4.7	4.1	3.0	1.0	1.2	2.9	1.9	24	12.7	1.0	4.7
8/29/07	2.5	6.5	16.4	3.4	1.6	2.1	1.8	2.8	6.1	9.0	11.2	23.7	42.0	21.3	29.5	30.1	19.2	12.1	3.1	1.4	1.0	1.1	1.2	0.9	24	42.0	0.9	10.4
8/30/07	1.0	0.8	0.6	1.2	1.2	0.9	1.1	2.7	4.7	5.3	5.7	5.5	7.4	7.2	7.0	6.5	5.2	4.5	2.4	1.4	1.0	1.1	1.4	2.5	24	7.4	0.6	3.3
8/31/07	2.6	2.4	2.3	2.2	2.6	3.2	3.7	5.4	6.5	6.3	7.3	6.8	7.1	7.9	7.0	6.4	4.9	3.8	2.8	2.9	2.7	2.5	1.9	1.3	24	7.9	1.3	4.3
hr max	26.7	26.3	44.5	34.0	26.3	44.2	25.2	21.6	57.6	39.7	37.8	53.3	42.0	37.0	44.4	37.7	29.2	18.6	9.2	17.0	41.3	8.5	13.3	13.8				
hr min	0.7	0.8	0.6	1.2	0.9	0.8	1.1	1.4	1.6	3.9	4.6	5.1	5.0	5.6	4.4	4.3	3.3	3.8	2.4	1.4	1.0	1.1	1.1	0.9				
average	5.1	5.0	5.8	5.8	5.9	7.9	6.3	6.5	11.0	10.4	10.8	14.7	14.2	12.8	12.3	12.4	9.9	6.6	4.2	4.1	5.5	3.5	3.6	4.1				

monthly max hr	monthly min hr	monthly ave hr
57.6	0.6	7.9
8/25/07	8/30/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
August-07
mps
10VWS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
8/1/07	0.26	0.32	0.29	0.29	0.26	0.27	0.20	0.24	0.22	0.36	0.50	0.57	0.63	0.58	0.62	0.57	0.57	0.59	0.40	0.31	0.26	0.28	0.22	0.12	24	0.63	0.12	0.37
8/2/07	0.13	0.12	0.13	0.17	0.23	0.15	0.24	0.19	0.11	0.23	0.25	0.10	0.12	0.12	0.13	0.26	0.16	0.14	0.12	0.13	0.12	0.14	0.21	0.19	24	0.26	0.10	0.16
8/3/07	0.18	0.14	0.14	0.18	0.14	0.20	0.20	0.21	0.25	0.27	0.30	0.32	0.29	0.23	0.34	0.43	0.56	0.55	0.56	0.51	0.44	0.56	0.67	0.62	24	0.67	0.14	0.35
8/4/07	0.63	0.57	0.59	0.48	0.28	0.26	0.24	0.21	0.25	0.25	0.18	0.22	0.19	0.21	0.15	0.22	0.20	0.20	0.22	0.17	0.14	0.15	0.18	0.19	24	0.63	0.14	0.27
8/5/07	0.15	0.13	0.17	0.16	0.20	0.18	0.17	0.21	0.14	0.18	0.23	0.23	0.19	0.22	0.19	0.19	0.23	0.22	0.21	0.19	0.18	0.21	0.18	0.22	24	0.23	0.13	0.19
8/6/07	0.18	0.16	0.16	0.22	0.23	0.25	0.26	0.32	0.37	0.30	0.31	0.34	0.26	0.25	0.22	0.22	0.22	0.18	0.27	0.17	0.15	0.14	0.27	0.23	24	0.37	0.14	0.24
8/7/07	0.27	0.28	0.25	0.23	0.23	0.14	0.14	0.15	0.21	0.16	0.20	0.17	0.21	0.33	0.30	0.38	0.39	0.37	0.31	0.24	0.28	0.25	0.33	0.39	24	0.39	0.14	0.26
8/8/07	0.34	0.22	0.22	0.16	0.20	0.23	0.27	0.33	0.32	0.29	0.30	0.29	0.19	0.25	0.19	0.27	0.41	0.48	0.57	0.34	0.18	0.13	0.12	0.11	24	0.57	0.11	0.27
8/9/07	0.10	0.17	0.20	0.22	0.24	0.22	0.21	0.20	0.17	0.10	0.10	0.19	0.16	0.13	0.18	0.12	0.14	0.23	0.32	0.28	0.26	0.30	0.28	0.25	24	0.32	0.10	0.20
8/10/07	0.25	0.24	0.22	0.19	0.20	0.17	0.19	0.24	0.26	0.33	0.36	0.45	0.45	0.44	0.42	0.37	0.32	0.29	0.39	0.40	0.37	0.43	0.27	0.31	24	0.45	0.17	0.32
8/11/07	0.31	0.32	0.26	0.20	0.27	0.40	0.48	0.40	0.43	0.46	0.26	0.29	0.29	0.40	0.49	0.47	0.53	0.51	0.48	0.34	0.33	0.32	0.23	0.31	24	0.53	0.20	0.37
8/12/07	0.31	0.31	0.22	0.27	0.23	0.26	0.25	0.29	0.22	0.31	0.38	0.21	0.14	0.28	0.32	0.40	0.41	0.37	0.32	0.27	0.22	0.24	0.21	0.30	24	0.41	0.14	0.28
8/13/07	0.28	0.31	0.32	0.31	0.29	0.32	0.30	0.28	0.35	0.30	0.29	0.28	0.33	0.24	0.24	0.34	0.46	0.50	0.37	0.37	0.40	0.42	0.33	0.20	24	0.50	0.20	0.33
8/14/07	0.35	0.32	0.30	0.35	0.30	0.38	0.28	0.30	0.37	0.32	0.27	0.26	0.32	0.33	0.30	0.31	0.32	0.33	0.30	0.28	0.20	0.22	0.24	0.27	24	0.38	0.20	0.30
8/15/07	0.23	0.18	0.18	0.19	0.19	0.21	0.21	0.18	0.23	0.41	0.45	0.36	0.33	0.22	0.21	0.24	0.19	0.29	0.26	0.24	0.16	0.23	0.18	0.17	24	0.45	0.16	0.24
8/16/07	0.13	0.15	0.17	0.16	0.22	0.31	0.24	0.29	0.28	0.23	0.12	0.19	0.15	0.19	0.16	0.20	0.19	0.21	0.18	0.21	0.22	0.24	0.20	0.23	24	0.31	0.12	0.20
8/17/07	0.25	0.25	0.26	0.25	0.22	0.33	0.39	0.39	0.46	0.49	0.38	0.41	0.49	0.58	0.58	0.43	0.56	0.47	0.41	0.43	0.35	0.34	0.44	0.33	24	0.58	0.22	0.40
8/18/07	0.31	0.38	0.36	0.34	0.31	0.30	0.27	0.28	0.25	0.27	0.26	0.27	0.25	0.24	0.31	0.33	0.29	0.35	0.28	0.28	0.32	0.33	0.31	0.32	24	0.38	0.24	0.30
8/19/07	0.29	0.33	0.31	0.28	0.41	0.36	0.33	0.29	0.30	0.33	0.26	0.28	0.20	0.22	0.33	0.28	0.31	0.35	0.28	0.27	0.25	0.27	0.25	0.29	24	0.41	0.20	0.29
8/20/07	0.27	0.18	0.20	0.18	0.40	0.30	0.32	0.29	0.29	0.21	0.28	0.15	0.14	0.19	0.01	0.27	0.35	0.30	0.27	0.25	0.33	0.34	0.30	0.12	24	0.40	0.01	0.25
8/21/07	0.24	0.23	0.24	0.23	0.24	0.15	0.11	0.12	0.15	0.16	0.38	0.54	0.56	0.45	0.20	0.22	0.24	0.20	0.15	0.14	0.18	0.16	0.15	0.10	24	0.56	0.10	0.23
8/22/07	0.15	0.12	0.12	0.12	0.12	0.25	0.22	0.19	0.14	0.22	0.26	0.26	0.06	0.16	0.22	0.17	0.35	0.18	0.16	0.13	0.14	0.14	0.16	0.13	24	0.35	0.06	0.17
8/23/07	0.25	0.23	0.20	0.20	0.25	0.41	0.52	0.60	0.55	0.49	0.48	0.47	0.34	0.39	0.39	0.30	0.29	0.29	0.14	0.13	0.15	0.17	0.16	0.14	24	0.60	0.13	0.31
8/24/07	0.17	0.13	0.17	0.18	0.17	0.16	0.12	0.16	0.24	0.21	0.14	0.18	0.16	0.14	0.18	0.29	0.28	0.38	0.29	0.26	0.25	0.23	0.23	0.20	24	0.38	0.12	0.21
8/25/07	0.19	0.13	0.16	0.17	0.18	0.18	0.16	0.17	0.16	0.20	0.20	0.20	0.17	0.24	0.25	0.29	0.32	0.24	0.16	0.13	0.18	0.19	0.23	0.27	24	0.32	0.13	0.20
8/26/07	0.28	0.25	0.20	0.26	0.28	0.27	0.28	0.26	0.34	0.32	0.31	0.28	0.29	0.26	0.26	0.26	0.27	0.30	0.29	0.23	0.25	0.31	0.32	0.22	24	0.34	0.20	0.27
8/27/07	0.25	0.23	0.25	0.27	0.50	0.44	0.44	0.41	0.32	0.28	0.26	0.29	0.18	0.29	0.46	0.44	0.24	0.30	0.30	0.30	0.27	0.26	0.39	0.25	24	0.50	0.18	0.32
8/28/07	0.32	0.24	0.26	0.21	0.27	0.34	0.36	0.36	0.39	0.38	0.28	0.29	0.38	0.47	0.53	0.44	0.34	0.34	0.45	0.39	0.28	0.23	0.13	0.24	24	0.53	0.13	0.33
8/29/07	0.17	0.19	0.14	0.25	0.24	0.24	0.28	0.20	0.28	0.26	0.27	0.20	0.26	0.14	0.10	0.19	0.17	0.17	0.21	0.17	0.18	0.19	0.20	0.21	24	0.28	0.10	0.20
8/30/07	0.20	0.18	0.18	0.19	0.19	0.19	0.25	0.26	0.26	0.31	0.28	0.28	0.28	0.30	0.28	0.26	0.20	0.23	0.26	0.24	0.24	0.20	0.16	0.13	24	0.31	0.13	0.23
8/31/07	0.21	0.22	0.22	0.22	0.21	0.18	0.14	0.15	0.29	0.24	0.35	0.42	0.49	0.50	0.40	0.45	0.50	0.45	0.41	0.37	0.43	0.38	0.37	0.33	24	0.50	0.14	0.33
hr max	0.63	0.57	0.59	0.48	0.50	0.44	0.52	0.60	0.55	0.49	0.50	0.57	0.63	0.58	0.62	0.57	0.57	0.59	0.57	0.51	0.44	0.56	0.67	0.62				
hr min	0.10	0.12	0.12	0.12	0.12	0.14	0.11	0.12	0.11	0.10	0.10	0.10	0.06	0.12	0.01	0.12	0.14	0.14	0.12	0.13	0.12	0.13	0.12	0.10				
average	0.25	0.23	0.23	0.23	0.25	0.26	0.26	0.26	0.28	0.29	0.29	0.29	0.27	0.29	0.29	0.31	0.32	0.32	0.30	0.26	0.25	0.26	0.26	0.24				

monthly max hr	monthly min hr	monthly ave hr
0.67	0.01	0.27
8/3/07	8/20/07	

Validated by: Roger L. Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
August-07
mps
50VWS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
8/1/07	0.06	0.23	0.32	0.39	0.28	0.30	0.16	0.28	0.23	0.28	0.35	0.46	0.41	0.34	0.34	0.31	0.31	0.43	0.33	0.34	0.32	0.32	0.15	0.06	24	0.46	0.06	0.29
8/2/07	0.16	0.08	0.04	0.03	0.04	0.06	0.07	0.06	0.04	0.17	0.21	-0.05	-0.01	0.11	-0.13	0.12	0.09	0.10	0.05	0.08	0.10	0.32	0.60	0.54	24	0.60	-0.13	0.12
8/3/07	0.47	0.28	-0.05	-0.01	0.09	0.48	0.51	0.41	0.28	0.42	0.30	0.41	0.25	0.26	0.45	0.60	0.75	0.70	0.76	0.67	0.55	0.71	0.80	0.85	24	0.85	-0.05	0.46
8/4/07	0.73	0.80	0.77	0.55	0.30	0.23	0.22	0.17	0.18	0.09	0.05	0.10	0.05	0.12	-0.08	0.20	0.01	0.16	0.17	0.19	0.19	0.16	0.14	0.19	24	0.80	-0.08	0.24
8/5/07	0.04	0.03	0.08	0.10	0.15	0.20	0.09	0.20	0.06	0.07	0.06	0.21	0.16	0.31	0.03	0.07	0.41	0.20	0.27	0.36	0.34	0.43	0.42	0.52	24	0.52	0.03	0.20
8/6/07	0.46	0.30	0.25	0.25	0.22	0.28	0.29	0.36	0.43	0.25	0.40	0.41	0.20	0.21	0.03	0.09	0.09	0.05	0.33	0.28	0.42	0.26	0.13	0.28	24	0.46	0.03	0.26
8/7/07	0.31	0.08	0.14	0.09	0.07	0.06	0.06	0.09	0.16	-0.06	0.11	0.16	0.23	0.29	0.25	0.35	0.52	0.52	0.44	0.46	0.53	0.45	0.57	0.59	24	0.59	-0.06	0.27
8/8/07	0.61	0.18	0.20	0.22	0.39	0.54	0.43	0.43	0.38	0.28	0.40	0.35	0.06	0.26	0.22	0.16	0.25	0.29	0.43	0.33	0.25	0.04	0.02	0.15	24	0.61	0.02	0.29
8/9/07	0.24	0.14	0.50	0.55	0.58	0.60	0.42	0.04	-0.01	0.06	-0.02	0.09	0.07	-0.10	0.15	-0.01	0.16	0.25	0.48	0.55	0.65	0.62	0.61	0.69	24	0.69	-0.10	0.30
8/10/07	0.72	0.68	0.41	0.18	0.45	0.50	0.17	0.15	0.15	0.12	0.26	0.23	0.29	0.21	0.25	0.14	0.14	0.11	0.53	0.61	0.47	0.46	0.36	0.49	24	0.72	0.11	0.34
8/11/07	0.60	0.59	0.51	0.16	0.26	0.43	0.61	0.36	0.37	0.45	0.11	0.41	0.09	0.27	0.30	0.30	0.41	0.39	0.40	0.36	0.40	0.39	0.37	0.40	24	0.61	0.09	0.37
8/12/07	0.30	0.46	0.28	0.23	0.20	0.17	0.20	0.20	0.13	0.37	0.31	0.20	0.01	0.10	0.34	0.41	0.40	0.33	0.35	0.39	0.35	0.34	0.32	0.52	24	0.52	0.01	0.29
8/13/07	0.58	0.52	0.51	0.50	0.47	0.47	0.49	0.29	0.36	0.39	0.21	0.26	0.26	0.26	0.22	0.24	0.26	0.33	0.32	0.39	0.39	0.43	0.32	0.07	24	0.58	0.07	0.36
8/14/07	0.24	0.08	0.12	0.43	0.29	0.49	0.30	0.26	0.42	0.36	0.14	0.09	0.28	0.31	0.20	0.27	0.28	0.30	0.38	0.31	0.23	0.31	0.34	0.36	24	0.49	0.08	0.28
8/15/07	0.34	0.36	0.30	0.18	0.15	0.09	0.07	0.04	0.15	0.14	0.26	0.20	0.23	0.19	0.37	0.13	0.14	0.20	0.24	0.28	0.16	0.26	0.16	0.19	24	0.37	0.04	0.20
8/16/07	0.14	0.12	0.14	0.10	0.12	0.28	0.21	0.24	0.14	0.13	-0.05	0.25	0.10	0.22	0.20	0.10	0.16	0.14	0.28	0.42	0.61	0.63	0.49	0.53	24	0.63	-0.05	0.24
8/17/07	0.49	0.39	0.34	0.38	0.27	0.45	0.57	0.42	0.50	0.57	0.42	0.36	0.39	0.64	0.69	0.54	0.65	0.57	0.47	0.43	0.44	0.37	0.50	0.41	24	0.69	0.27	0.47
8/18/07	0.26	0.35	0.38	0.39	0.31	0.35	0.30	0.32	0.24	0.31	0.23	0.23	0.20	0.23	0.19	0.29	0.18	0.32	0.20	0.26	0.22	0.26	0.27	0.20	24	0.39	0.18	0.27
8/19/07	0.14	0.27	0.25	0.30	0.40	0.33	0.28	0.22	0.19	0.15	0.25	0.10	0.08	0.13	0.27	0.19	0.24	0.26	0.22	0.21	0.24	0.24	0.23	0.27	24	0.40	0.08	0.23
8/20/07	0.21	0.15	0.17	0.22	0.38	0.42	0.24	0.13	0.21	0.05	0.08	-0.05	0.08	0.14	-0.18	0.01	0.23	0.16	0.11	0.04	0.11	0.26	0.34	0.12	24	0.42	-0.18	0.15
8/21/07	0.26	0.36	0.30	0.14	0.05	0.07	0.03	0.02	0.09	0.10	0.30	0.40	0.41	0.33	-0.07	0.19	0.19	0.22	0.18	0.27	0.39	0.50	0.16	0.25	24	0.50	-0.07	0.21
8/22/07	0.20	0.41	0.46	0.39	0.13	0.24	0.23	0.20	0.07	0.18	0.14	0.06	-0.10	0.03	0.17	0.14	0.18	0.15	0.14	0.24	0.21	0.05	0.03	0.05	24	0.46	-0.10	0.17
8/23/07	0.09	0.21	0.13	0.17	0.16	0.30	0.36	0.49	0.45	0.40	0.39	0.26	0.34	0.32	0.10	0.14	0.19	0.21	0.06	0.03	0.05	0.02	0.02	0.04	24	0.49	0.02	0.21
8/24/07	0.09	0.05	0.20	0.22	0.22	0.20	0.14	0.19	0.21	0.29	0.04	0.25	0.22	-0.01	0.08	0.09	0.22	0.28	0.15	0.16	0.19	0.16	0.20	0.14	24	0.29	-0.01	0.17
8/25/07	0.10	0.07	0.07	0.09	0.08	0.11	0.07	0.01	0.07	0.27	0.23	0.17	0.06	0.16	0.16	0.17	0.20	0.24	0.11	0.32	0.57	0.51	0.51	0.59	24	0.59	0.01	0.21
8/26/07	0.64	0.56	0.17	0.06	0.06	0.14	0.13	0.09	0.25	0.23	0.22	0.07	0.29	0.23	0.20	0.21	0.36	0.44	0.46	0.49	0.52	0.58	0.56	0.41	24	0.64	0.06	0.31
8/27/07	0.44	0.37	0.50	0.46	0.44	0.49	0.49	0.39	0.33	0.20	0.21	0.22	0.11	0.22	0.23	0.27	0.14	0.16	0.23	0.21	0.16	0.22	0.26	0.12	24	0.50	0.11	0.29
8/28/07	0.16	0.21	0.19	0.16	0.18	0.23	0.24	0.21	0.23	0.23	0.20	0.18	0.21	0.28	0.36	0.33	0.25	0.23	0.31	0.33	0.18	0.13	0.04	0.09	24	0.36	0.04	0.22
8/29/07	0.07	0.04	0.02	0.00	0.01	0.02	0.19	0.12	0.12	0.13	0.17	-0.02	0.18	0.07	0.09	0.24	0.19	0.08	0.31	0.43	0.54	0.61	0.67	0.66	24	0.67	-0.02	0.21
8/30/07	0.62	0.56	0.51	0.46	0.51	0.44	0.52	0.42	0.30	0.48	0.21	0.06	0.16	0.06	0.12	0.12	0.11	0.35	0.45	0.61	0.65	0.63	0.57	0.24	24	0.65	0.06	0.38
8/31/07	-0.01	0.03	0.09	-0.06	-0.01	0.17	0.20	0.17	0.26	0.23	0.47	0.59	0.70	0.71	0.41	0.50	0.58	0.51	0.51	0.60	0.66	0.68	0.66	0.64	24	0.71	-0.06	0.39
hr max	0.73	0.80	0.77	0.55	0.58	0.60	0.61	0.49	0.50	0.57	0.47	0.59	0.70	0.71	0.69	0.60	0.75	0.70	0.76	0.67	0.66	0.71	0.80	0.85				
hr min	-0.01	0.03	-0.05	-0.06	-0.01	0.02	0.03	0.01	-0.01	-0.06	-0.05	-0.05	-0.10	-0.10	-0.18	-0.01	0.01	0.05	0.05	0.03	0.05	0.02	0.02	0.04				
average	0.31	0.29	0.27	0.24	0.23	0.29	0.27	0.23	0.23	0.24	0.21	0.21	0.19	0.22	0.19	0.22	0.27	0.28	0.31	0.34	0.36	0.37	0.35	0.34				

monthly max hr	monthly min hr	monthly ave hr
0.85	-0.18	0.27
8/3/07	8/20/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
August-07
mps
100VWS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
8/1/07	-0.40	0.49	0.70	0.79	0.51	0.27	0.04	0.16	0.36	0.54	0.59	0.76	0.78	0.53	0.52	0.44	0.44	0.61	0.59	0.57	0.51	0.55	0.45	0.30	24	0.79	-0.40	0.46
8/2/07	0.30	0.26	0.28	0.28	0.14	0.03	0.01	0.03	0.00	0.08	0.15	-0.07	-0.29	0.13	-0.34	-0.04	0.05	0.09	-0.01	0.06	0.12	0.22	0.46	0.03	24	0.46	-0.34	0.08
8/3/07	-0.90	0.33	0.73	0.72	0.11	-1.43	-1.34	-0.76	-0.06	0.17	0.01	0.08	-0.21	-0.19	0.08	0.13	0.16	0.16	0.25	0.25	0.45	0.61	0.50	0.67	24	0.73	-1.43	0.02
8/4/07	0.50	0.60	0.60	0.49	0.34	0.25	0.24	0.21	0.22	0.17	0.10	0.17	0.06	0.18	-0.01	0.29	0.00	0.19	0.20	0.18	0.17	0.19	0.04	0.12	24	0.60	-0.01	0.23
8/5/07	-0.03	-0.08	0.00	-0.01	0.01	-0.04	-0.01	0.00	-0.06	-0.05	-0.04	0.08	0.04	0.12	-0.14	-0.02	0.44	0.12	0.15	0.11	0.05	0.49	0.04	0.34	24	0.49	-0.14	0.06
8/6/07	0.34	0.44	0.38	0.33	0.26	0.29	0.34	0.40	0.42	0.31	0.40	0.40	0.12	0.15	-0.06	0.07	-0.07	0.11	0.32	0.15	0.27	-0.07	0.09	0.04	24	0.44	-0.07	0.23
8/7/07	0.10	0.20	0.40	0.37	0.42	0.39	0.45	0.14	0.14	-0.11	0.04	0.21	0.17	0.10	0.07	0.14	0.40	0.40	0.42	0.36	0.27	0.56	0.57	0.34	24	0.57	-0.11	0.27
8/8/07	0.14	0.05	0.15	0.09	0.14	0.08	0.19	0.06	0.04	0.09	0.07	0.15	-0.39	-0.06	0.25	0.08	0.34	0.37	0.69	0.64	0.43	0.18	0.00	0.18	24	0.69	-0.39	0.17
8/9/07	0.14	-0.26	0.20	-0.09	0.00	0.44	0.50	0.13	0.01	-0.11	-0.08	-0.05	0.04	-0.33	0.15	-0.05	0.18	0.14	0.37	0.51	0.15	0.39	0.08	0.29	24	0.51	-0.33	0.11
8/10/07	0.34	0.39	-0.01	-0.15	-0.31	-1.05	-1.19	-0.67	-1.50	-1.05	-0.47	-0.34	-0.51	-0.56	-0.22	-0.68	-0.57	-0.41	0.18	0.60	0.41	0.77	0.50	0.52	24	0.77	-1.50	-0.25
8/11/07	0.45	0.28	0.18	0.06	0.40	0.78	0.82	0.54	0.46	0.50	-0.07	0.36	0.04	0.38	0.47	0.49	0.57	0.53	0.64	0.64	0.81	0.90	0.86	0.86	24	0.90	-0.07	0.50
8/12/07	0.58	0.77	0.61	0.44	0.29	0.30	0.27	0.30	0.15	0.28	0.15	0.03	-0.02	0.07	0.28	0.26	0.18	0.23	0.32	0.37	0.43	0.37	0.42	0.63	24	0.77	-0.02	0.32
8/13/07	0.02	0.27	0.24	0.13	0.24	0.08	0.13	0.06	0.03	-0.14	-0.49	-0.03	0.19	0.22	0.11	0.16	0.22	0.42	0.62	0.74	0.84	0.83	0.64	0.20	24	0.84	-0.49	0.24
8/14/07	0.26	0.33	0.53	0.77	0.67	0.88	0.44	0.55	0.56	0.35	0.07	0.05	0.38	0.37	0.19	0.28	0.20	0.25	0.42	0.37	0.36	0.46	0.51	0.48	24	0.88	0.05	0.41
8/15/07	0.44	0.59	0.43	0.22	0.25	0.06	0.12	0.08	0.26	0.23	0.33	0.33	0.22	0.25	0.41	0.25	0.23	0.25	0.32	0.42	0.28	0.51	0.41	0.28	24	0.59	0.06	0.30
8/16/07	0.31	0.17	0.32	0.11	0.32	0.38	0.27	0.27	0.21	0.10	0.01	0.31	0.07	0.24	0.22	0.05	0.08	0.12	0.10	0.24	0.48	0.41	0.30	0.65	24	0.65	0.01	0.24
8/17/07	0.70	0.60	0.47	0.30	0.28	0.07	0.55	0.45	0.33	0.63	0.44	0.41	0.58	0.79	0.57	0.46	0.39	0.63	0.51	0.54	0.53	0.47	0.52	0.47	24	0.79	0.07	0.49
8/18/07	0.39	0.48	0.41	0.51	0.29	0.30	0.30	0.28	0.21	0.29	0.24	0.27	0.15	0.32	0.28	0.36	0.25	0.43	0.29	0.35	0.32	0.33	0.36	0.24	24	0.51	0.15	0.32
8/19/07	0.29	0.34	0.28	0.37	0.48	0.38	0.35	0.30	0.25	0.18	0.26	0.09	0.12	0.13	0.31	0.31	0.28	0.25	0.24	0.25	0.20	0.25	0.25	0.22	24	0.48	0.09	0.27
8/20/07	0.21	0.14	0.15	0.08	0.04	0.29	0.40	0.27	0.26	0.04	0.01	-0.18	0.00	0.13	-0.24	0.01	0.23	0.15	0.06	0.08	0.18	0.49	0.65	0.44	24	0.65	-0.24	0.16
8/21/07	0.44	0.45	0.33	0.14	0.01	-0.01	0.00	0.00	0.00	0.17	0.46	0.64	0.51	0.53	-0.12	0.23	0.25	0.27	0.22	0.28	0.36	0.12	0.02	-0.14	24	0.64	-0.14	0.22
8/22/07	0.00	0.02	0.08	0.03	0.00	0.15	0.24	0.34	0.17	0.21	0.04	-0.03	-0.24	0.00	0.16	0.19	0.27	0.21	0.19	-0.02	0.12	0.07	0.00	0.01	24	0.34	-0.24	0.09
8/23/07	0.12	0.38	0.30	0.35	0.25	0.62	0.77	0.82	0.77	0.74	0.55	0.51	0.39	0.29	0.09	0.09	0.26	0.28	0.09	0.00	0.03	0.00	0.01	0.03	24	0.82	0.00	0.32
8/24/07	0.13	0.20	0.41	0.48	0.44	0.41	0.23	0.34	0.22	0.23	-0.08	0.31	0.11	-0.05	0.02	0.03	0.31	0.43	0.31	0.31	0.24	0.18	0.26	0.22	24	0.48	-0.08	0.24
8/25/07	0.10	0.01	0.04	0.07	0.02	0.04	0.09	0.02	-0.02	0.30	0.28	0.11	-0.13	-0.05	-0.02	-0.04	-0.08	-0.14	-0.51	-0.39	0.14	0.13	0.29	0.55	24	0.55	-0.51	0.03
8/26/07	0.51	-1.40	-0.57	0.50	0.45	0.41	0.39	0.09	0.30	0.18	-0.05	-0.41	-0.30	-0.43	-0.64	-0.64	-0.47	-0.06	0.13	0.08	0.10	0.14	0.65	0.63	24	0.65	-1.40	-0.02
8/27/07	0.54	0.50	0.48	0.32	0.68	0.58	0.55	0.44	0.33	0.20	0.25	0.26	0.12	0.29	0.43	0.43	0.20	0.24	0.30	0.35	0.25	0.31	0.42	0.17	24	0.68	0.12	0.36
8/28/07	0.25	0.25	0.19	0.19	0.24	0.40	0.39	0.41	0.31	0.35	0.24	0.28	0.32	0.40	0.55	0.57	0.45	0.46	0.56	0.50	0.41	0.36	0.15	0.06	24	0.57	0.06	0.35
8/29/07	0.07	0.06	0.01	0.01	0.01	0.02	0.00	0.07	0.16	0.08	0.12	-0.08	0.28	0.02	0.11	0.32	0.25	0.02	0.18	0.30	0.41	0.02	0.11	0.29	24	0.41	-0.08	0.12
8/30/07	0.27	0.26	0.27	-0.20	-0.07	0.23	0.39	0.26	0.07	0.14	-0.51	-0.77	-0.42	-0.64	-0.55	-0.60	-0.70	-0.07	0.14	0.34	0.33	-1.00	-1.73	0.10	24	0.39	-1.73	-0.19
8/31/07	0.58	0.62	0.65	0.65	0.50	0.54	-0.15	0.09	0.10	0.07	0.44	0.50	0.70	0.66	0.16	0.38	0.37	0.41	0.51	0.61	0.68	0.66	0.10	0.48	24	0.70	-0.15	0.43
hr max	0.70	0.77	0.73	0.79	0.68	0.88	0.82	0.82	0.77	0.74	0.59	0.76	0.78	0.79	0.57	0.57	0.57	0.63	0.69	0.74	0.84	0.90	0.86	0.86				
hr min	-0.90	-1.40	-0.57	-0.20	-0.31	-1.43	-1.34	-0.76	-1.50	-1.05	-0.51	-0.77	-0.51	-0.64	-0.64	-0.68	-0.70	-0.41	-0.51	-0.39	0.03	-1.00	-1.73	-0.14				
average	0.23	0.25	0.30	0.27	0.24	0.20	0.19	0.18	0.15	0.17	0.11	0.14	0.09	0.13	0.10	0.13	0.16	0.23	0.28	0.32	0.33	0.32	0.26	0.31				

monthly	monthly	monthly
max hr	min hr	ave hr
0.90	-1.73	0.21
8/11/07	8/30/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
August-07
Deg
10SW

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
8/1/07	0.40	0.39	0.38	0.38	0.32	0.29	0.25	0.19	0.20	0.34	0.56	0.62	0.62	0.53	0.52	0.52	0.52	0.45	0.32	0.14	0.10	0.10	0.12	0.06	24	0.62	0.06	0.35
8/2/07	0.09	0.03	0.05	0.08	0.10	0.07	0.11	0.13	0.27	0.38	0.47	0.46	0.50	0.48	0.40	0.42	0.37	0.28	0.18	0.07	0.11	0.14	0.19	0.16	24	0.50	0.03	0.23
8/3/07	0.16	0.14	0.12	0.15	0.18	0.21	0.28	0.37	0.46	0.50	0.51	0.53	0.54	0.49	0.52	0.63	0.72	0.71	0.73	0.66	0.51	0.68	0.76	0.73	24	0.76	0.12	0.47
8/4/07	0.68	0.69	0.71	0.61	0.40	0.30	0.28	0.31	0.31	0.33	0.32	0.32	0.38	0.35	0.31	0.34	0.35	0.30	0.25	0.17	0.11	0.10	0.19	0.19	24	0.71	0.10	0.35
8/5/07	0.16	0.16	0.15	0.15	0.17	0.20	0.17	0.25	0.26	0.33	0.47	0.48	0.49	0.47	0.41	0.35	0.36	0.30	0.18	0.18	0.18	0.21	0.16	0.20	24	0.49	0.15	0.27
8/6/07	0.16	0.15	0.16	0.28	0.35	0.33	0.40	0.46	0.54	0.42	0.47	0.43	0.41	0.38	0.45	0.44	0.42	0.36	0.34	0.15	0.10	0.10	0.11	0.11	24	0.54	0.10	0.31
8/7/07	0.14	0.13	0.15	0.10	0.09	0.06	0.07	0.18	0.28	0.35	0.40	0.45	0.39	0.52	0.54	0.55	0.53	0.51	0.38	0.27	0.34	0.28	0.43	0.55	24	0.55	0.06	0.32
8/8/07	0.55	0.27	0.16	0.12	0.19	0.27	0.37	0.50	0.49	0.42	0.49	0.41	0.42	0.48	0.43	0.36	0.34	0.38	0.52	0.29	0.09	0.07	0.06	0.07	24	0.55	0.06	0.32
8/9/07	0.11	0.13	0.17	0.18	0.18	0.13	0.12	0.21	0.33	0.39	0.40	0.44	0.37	0.38	0.40	0.34	0.31	0.32	0.42	0.35	0.29	0.40	0.40	0.29	24	0.44	0.11	0.29
8/10/07	0.27	0.30	0.36	0.24	0.31	0.35	0.36	0.49	0.54	0.63	0.62	0.69	0.67	0.65	0.70	0.64	0.57	0.50	0.52	0.52	0.56	0.65	0.44	0.51	24	0.70	0.24	0.50
8/11/07	0.48	0.43	0.37	0.17	0.32	0.37	0.71	0.56	0.65	0.59	0.52	0.44	0.42	0.46	0.50	0.48	0.47	0.45	0.39	0.22	0.20	0.22	0.16	0.24	24	0.71	0.16	0.41
8/12/07	0.30	0.27	0.23	0.33	0.27	0.27	0.35	0.32	0.27	0.45	0.59	0.52	0.41	0.41	0.54	0.57	0.54	0.47	0.47	0.32	0.25	0.27	0.26	0.36	24	0.59	0.23	0.38
8/13/07	0.38	0.38	0.42	0.41	0.41	0.49	0.46	0.41	0.51	0.56	0.59	0.52	0.47	0.41	0.33	0.33	0.36	0.40	0.29	0.21	0.27	0.37	0.26	0.14	24	0.59	0.14	0.39
8/14/07	0.12	0.14	0.18	0.22	0.28	0.42	0.53	0.34	0.56	0.52	0.49	0.48	0.51	0.45	0.43	0.49	0.50	0.50	0.45	0.35	0.26	0.32	0.36	0.34	24	0.56	0.12	0.39
8/15/07	0.27	0.22	0.20	0.21	0.19	0.17	0.19	0.18	0.28	0.39	0.45	0.41	0.45	0.42	0.38	0.34	0.27	0.20	0.11	0.10	0.10	0.17	0.14	0.16	24	0.45	0.10	0.25
8/16/07	0.10	0.11	0.09	0.10	0.19	0.29	0.30	0.34	0.33	0.37	0.38	0.47	0.49	0.53	0.45	0.38	0.29	0.28	0.16	0.11	0.19	0.22	0.18	0.31	24	0.53	0.09	0.28
8/17/07	0.33	0.33	0.33	0.35	0.29	0.44	0.43	0.60	0.56	0.58	0.52	0.63	0.67	0.79	0.76	0.66	0.69	0.61	0.64	0.62	0.56	0.49	0.58	0.51	24	0.79	0.29	0.54
8/18/07	0.36	0.40	0.41	0.50	0.48	0.46	0.37	0.35	0.30	0.32	0.30	0.32	0.31	0.32	0.35	0.34	0.32	0.37	0.30	0.30	0.31	0.33	0.31	0.36	24	0.50	0.30	0.35
8/19/07	0.37	0.34	0.36	0.36	0.54	0.49	0.40	0.30	0.33	0.34	0.36	0.34	0.30	0.35	0.36	0.34	0.38	0.41	0.38	0.34	0.35	0.31	0.37	0.37	24	0.54	0.30	0.37
8/20/07	0.30	0.16	0.19	0.22	0.56	0.50	0.28	0.29	0.30	0.34	0.43	0.50	0.29	0.38	0.32	0.35	0.34	0.24	0.12	0.10	0.11	0.10	0.12	0.05	24	0.56	0.05	0.27
8/21/07	0.11	0.10	0.12	0.10	0.13	0.09	0.07	0.11	0.12	0.19	0.35	0.51	0.55	0.54	0.46	0.41	0.40	0.30	0.17	0.10	0.14	0.19	0.11	0.09	24	0.55	0.07	0.23
8/22/07	0.08	0.00	0.00	0.00	0.04	0.13	0.12	0.12	0.14	0.21	0.24	0.36	0.34	0.20	0.33	0.21	0.30	0.15	0.11	0.12	0.10	0.07	0.08	0.07	24	0.36	0.00	0.15
8/23/07	0.11	0.21	0.14	0.11	0.15	0.34	0.51	0.61	0.55	0.49	0.51	0.54	0.52	0.49	0.51	0.38	0.29	0.19	0.06	0.04	0.10	0.09	0.10	0.07	24	0.61	0.04	0.30
8/24/07	0.12	0.08	0.13	0.14	0.16	0.13	0.13	0.27	0.36	0.40	0.40	0.51	0.32	0.22	0.15	0.20	0.28	0.34	0.34	0.37	0.33	0.31	0.24	0.24	24	0.51	0.08	0.26
8/25/07	0.14	0.09	0.15	0.10	0.11	0.10	0.10	0.20	0.36	0.39	0.41	0.42	0.43	0.54	0.54	0.50	0.52	0.43	0.28	0.09	0.16	0.22	0.29	0.38	24	0.54	0.09	0.29
8/26/07	0.42	0.40	0.35	0.39	0.39	0.41	0.41	0.47	0.54	0.55	0.55	0.57	0.56	0.60	0.56	0.57	0.52	0.47	0.40	0.31	0.34	0.36	0.33	0.28	24	0.60	0.28	0.45
8/27/07	0.30	0.33	0.35	0.33	0.51	0.58	0.56	0.49	0.45	0.40	0.36	0.44	0.23	0.32	0.47	0.53	0.28	0.28	0.31	0.33	0.27	0.24	0.34	0.22	24	0.58	0.22	0.37
8/28/07	0.33	0.28	0.26	0.20	0.23	0.34	0.38	0.37	0.40	0.41	0.41	0.25	0.31	0.47	0.46	0.37	0.26	0.30	0.38	0.31	0.10	0.10	0.16	0.09	24	0.47	0.09	0.30
8/29/07	0.09	0.09	0.06	0.12	0.11	0.10	0.12	0.20	0.31	0.40	0.43	0.45	0.35	0.44	0.43	0.36	0.36	0.33	0.25	0.13	0.16	0.18	0.22	0.22	24	0.45	0.06	0.25
8/30/07	0.20	0.18	0.20	0.29	0.30	0.31	0.37	0.45	0.53	0.58	0.60	0.60	0.59	0.60	0.54	0.51	0.49	0.46	0.39	0.32	0.34	0.31	0.23	0.17	24	0.60	0.17	0.40
8/31/07	0.19	0.19	0.19	0.20	0.19	0.16	0.10	0.22	0.38	0.42	0.50	0.60	0.66	0.64	0.62	0.61	0.61	0.57	0.53	0.51	0.56	0.54	0.51	0.47	24	0.66	0.10	0.42
hr max	0.68	0.69	0.71	0.61	0.56	0.58	0.71	0.61	0.65	0.63	0.62	0.69	0.67	0.79	0.76	0.66	0.72	0.71	0.73	0.66	0.56	0.68	0.76	0.73				
hr min	0.08	0.00	0.00	0.00	0.04	0.06	0.07	0.11	0.12	0.19	0.24	0.25	0.23	0.20	0.15	0.20	0.26	0.15	0.06	0.04	0.09	0.07	0.06	0.05				
average	0.25	0.23	0.23	0.23	0.26	0.28	0.30	0.33	0.38	0.42	0.45	0.47	0.45	0.46	0.46	0.44	0.42	0.38	0.33	0.26	0.24	0.26	0.26	0.26				

monthly max hr	monthly min hr	monthly ave hr
0.79	0.00	0.34
8/17/07	8/22/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
August-07
Deg
50SW

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
8/1/07	0.41	0.46	0.37	0.36	0.33	0.27	0.42	0.28	0.29	0.48	0.83	0.94	1.00	1.00	0.94	0.88	0.88	0.67	0.43	0.16	0.11	0.11	0.17	0.13	24	1.00	0.11	0.50
8/2/07	0.12	0.10	0.08	0.07	0.06	0.09	0.10	0.09	0.24	0.61	0.80	0.78	0.93	0.80	0.62	0.75	0.67	0.50	0.28	0.10	0.13	0.29	0.09	0.12	24	0.93	0.06	0.35
8/3/07	0.10	0.25	0.11	0.16	0.27	0.19	0.18	0.38	0.56	0.63	0.71	0.71	0.70	0.71	0.80	0.92	0.96	0.97	1.00	0.84	0.66	0.91	1.05	0.96	24	1.05	0.10	0.61
8/4/07	0.94	0.98	0.94	0.84	0.55	0.44	0.39	0.37	0.40	0.43	0.52	0.50	0.64	0.59	0.51	0.58	0.54	0.52	0.42	0.21	0.18	0.17	0.31	0.30	24	0.98	0.17	0.51
8/5/07	0.27	0.23	0.26	0.23	0.23	0.23	0.24	0.38	0.37	0.53	0.72	0.78	0.80	0.87	0.71	0.62	0.67	0.56	0.16	0.21	0.17	0.21	0.17	0.17	24	0.87	0.16	0.41
8/6/07	0.12	0.19	0.19	0.31	0.48	0.42	0.56	0.63	0.71	0.59	0.60	0.61	0.73	0.59	0.75	0.73	0.68	0.51	0.45	0.15	0.10	0.17	0.19	0.14	24	0.75	0.10	0.44
8/7/07	0.14	0.12	0.22	0.14	0.10	0.08	0.10	0.22	0.40	0.46	0.70	0.80	0.65	0.87	0.83	0.79	0.72	0.68	0.47	0.27	0.34	0.38	0.47	0.69	24	0.87	0.08	0.44
8/8/07	0.66	0.37	0.30	0.24	0.23	0.20	0.39	0.70	0.67	0.56	0.73	0.59	0.57	0.71	0.82	0.68	0.66	0.51	0.70	0.38	0.14	0.08	0.00	0.18	24	0.82	0.00	0.46
8/9/07	0.20	0.26	0.08	0.08	0.07	0.07	0.27	0.20	0.37	0.62	0.58	0.63	0.62	0.56	0.75	0.72	0.66	0.53	0.53	0.35	0.18	0.39	0.37	0.17	24	0.75	0.07	0.39
8/10/07	0.14	0.20	0.41	0.39	0.36	0.34	0.40	0.59	0.62	0.79	0.81	0.92	0.90	0.86	0.91	0.82	0.71	0.65	0.63	0.58	0.95	0.88	0.53	0.67	24	0.95	0.14	0.63
8/11/07	0.60	0.47	0.43	0.36	0.51	0.51	0.93	0.80	0.84	0.88	0.73	0.95	0.69	0.86	0.83	0.78	0.69	0.65	0.51	0.30	0.23	0.28	0.22	0.29	24	0.95	0.22	0.60
8/12/07	0.39	0.17	0.24	0.46	0.41	0.35	0.49	0.43	0.44	0.56	0.87	0.93	0.62	0.70	0.91	1.04	0.88	0.77	0.54	0.37	0.28	0.31	0.38	0.36	24	1.04	0.17	0.54
8/13/07	0.30	0.37	0.44	0.41	0.49	0.57	0.62	0.62	0.75	0.79	0.82	0.80	0.75	0.64	0.61	0.60	0.59	0.53	0.40	0.26	0.34	0.45	0.32	0.24	24	0.82	0.24	0.53
8/14/07	0.14	0.13	0.18	0.22	0.33	0.44	0.73	0.42	0.74	0.73	0.70	0.82	0.97	0.71	0.63	0.69	0.67	0.58	0.57	0.45	0.33	0.43	0.40	0.42	24	0.97	0.13	0.52
8/15/07	0.36	0.30	0.28	0.24	0.18	0.20	0.27	0.25	0.38	0.53	0.71	0.69	0.79	0.74	0.79	0.63	0.45	0.30	0.14	0.11	0.18	0.27	0.22	0.21	24	0.79	0.11	0.38
8/16/07	0.20	0.20	0.17	0.18	0.24	0.32	0.37	0.44	0.50	0.51	0.57	0.81	0.96	1.04	0.88	0.74	0.57	0.41	0.21	0.10	0.08	0.13	0.16	0.25	24	1.04	0.08	0.42
8/17/07	0.30	0.35	0.42	0.46	0.29	0.48	0.58	0.74	0.66	0.80	0.72	0.88	0.87	1.05	1.01	0.81	0.93	0.84	0.78	0.83	0.75	0.67	0.71	0.64	24	1.05	0.29	0.69
8/18/07	0.46	0.47	0.50	0.65	0.69	0.66	0.50	0.49	0.45	0.40	0.42	0.48	0.46	0.44	0.45	0.46	0.42	0.48	0.42	0.40	0.45	0.42	0.42	0.43	24	0.69	0.40	0.48
8/19/07	0.45	0.42	0.38	0.42	0.61	0.63	0.54	0.38	0.37	0.41	0.44	0.45	0.45	0.54	0.53	0.51	0.51	0.51	0.47	0.47	0.39	0.40	0.46	0.43	24	0.63	0.37	0.47
8/20/07	0.37	0.24	0.23	0.24	0.86	0.70	0.38	0.38	0.50	0.54	0.65	0.76	0.45	0.61	0.50	0.63	0.61	0.32	0.18	0.18	0.16	0.19	0.15	0.12	24	0.86	0.12	0.41
8/21/07	0.13	0.09	0.10	0.11	0.09	0.11	0.04	0.00	0.13	0.25	0.43	0.70	0.91	0.88	0.80	0.73	0.66	0.49	0.20	0.14	0.20	0.17	0.19	0.20	24	0.91	0.00	0.32
8/22/07	0.22	0.08	0.08	0.08	0.18	0.36	0.19	0.24	0.23	0.29	0.33	0.45	0.42	0.26	0.37	0.21	0.45	0.20	0.17	0.16	0.16	0.11	0.12	0.09	24	0.45	0.08	0.23
8/23/07	0.11	0.34	0.21	0.21	0.21	0.45	0.70	0.89	0.80	0.73	0.86	0.73	0.93	0.93	0.81	0.63	0.48	0.30	0.10	0.04	0.08	0.01	0.01	0.07	24	0.93	0.01	0.44
8/24/07	0.28	0.09	0.20	0.25	0.27	0.21	0.20	0.33	0.47	0.57	0.70	0.89	0.70	0.36	0.27	0.39	0.40	0.45	0.46	0.46	0.47	0.45	0.34	0.28	24	0.89	0.09	0.40
8/25/07	0.19	0.13	0.16	0.14	0.11	0.13	0.13	0.21	0.59	0.68	0.69	0.75	0.81	0.87	0.88	0.81	0.76	0.60	0.29	0.19	0.12	0.26	0.34	0.37	24	0.88	0.11	0.43
8/26/07	0.39	0.39	0.39	0.38	0.40	0.45	0.44	0.51	0.64	0.71	0.75	0.67	0.83	0.81	0.76	0.68	0.66	0.58	0.43	0.30	0.33	0.33	0.34	0.38	24	0.83	0.30	0.52
8/27/07	0.41	0.44	0.43	0.40	0.76	0.73	0.72	0.71	0.69	0.57	0.48	0.60	0.34	0.43	0.58	0.68	0.39	0.34	0.40	0.42	0.40	0.30	0.40	0.31	24	0.76	0.30	0.50
8/28/07	0.37	0.35	0.29	0.23	0.27	0.44	0.46	0.46	0.48	0.55	0.57	0.38	0.41	0.69	0.67	0.48	0.32	0.42	0.53	0.36	0.16	0.12	0.08	0.11	24	0.69	0.08	0.38
8/29/07	0.09	0.07	0.01	0.07	0.06	0.01	0.18	0.22	0.45	0.65	0.78	0.84	0.68	0.74	0.77	0.73	0.62	0.57	0.28	0.13	0.07	0.07	0.10	0.11	24	0.84	0.01	0.35
8/30/07	0.09	0.08	0.15	0.33	0.24	0.30	0.32	0.54	0.77	0.82	0.76	0.77	0.79	0.82	0.76	0.68	0.60	0.54	0.41	0.20	0.23	0.18	0.10	0.29	24	0.82	0.08	0.45
8/31/07	0.16	0.16	0.21	0.12	0.12	0.18	0.19	0.28	0.54	0.72	0.86	0.98	1.01	1.02	0.94	0.90	0.80	0.75	0.61	0.65	0.66	0.56	0.50	0.44	24	1.02	0.12	0.56
hr max	0.94	0.98	0.94	0.84	0.86	0.73	0.93	0.89	0.84	0.88	0.87	0.98	1.01	1.05	1.01	1.04	0.96	0.97	1.00	0.84	0.95	0.91	1.05	0.96				
hr min	0.09	0.07	0.01	0.07	0.06	0.01	0.04	0.00	0.13	0.25	0.33	0.38	0.34	0.26	0.27	0.21	0.32	0.20	0.10	0.04	0.07	0.01	0.00	0.07				
average	0.29	0.27	0.27	0.28	0.32	0.34	0.39	0.43	0.52	0.59	0.67	0.73	0.72	0.73	0.72	0.69	0.63	0.54	0.42	0.32	0.29	0.31	0.30	0.31				

monthly max hr	monthly min hr	monthly ave hr
1.05	0.00	0.46
8/3/07	8/8/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
August-07
Deg
100SW

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
8/1/07	1.00	0.69	0.35	0.18	0.29	0.28	0.57	0.39	0.42	0.44	0.91	1.20	1.30	1.17	1.12	1.05	1.05	0.74	0.34	0.11	0.08	0.08	0.15	0.14	24	1.30	0.08	0.59
8/2/07	0.10	0.10	0.09	0.11	0.13	0.11	0.08	0.07	0.19	0.72	0.97	0.90	1.02	0.95	0.69	1.00	0.87	0.56	0.23	0.11	0.13	0.28	0.11	0.44	24	1.02	0.07	0.42
8/3/07	0.40	0.53	0.11	0.17	0.65	0.35	0.35	0.62	0.51	0.44	0.44	0.61	0.84	0.76	0.52	0.55	0.47	0.48	0.57	0.49	0.62	0.91	0.95	0.90	24	0.95	0.11	0.55
8/4/07	1.02	1.02	0.95	0.84	0.61	0.46	0.41	0.36	0.44	0.49	0.63	0.57	0.72	0.75	0.64	0.74	0.64	0.62	0.48	0.23	0.24	0.25	0.36	0.27	24	1.02	0.23	0.57
8/5/07	0.27	0.23	0.20	0.20	0.24	0.33	0.16	0.26	0.34	0.48	0.71	0.85	0.79	0.91	0.65	0.68	0.82	0.59	0.20	0.42	0.24	0.17	0.11	0.18	24	0.91	0.11	0.42
8/6/07	0.13	0.09	0.20	0.31	0.48	0.46	0.59	0.66	0.78	0.66	0.67	0.63	0.73	0.66	0.74	0.80	0.65	0.60	0.49	0.15	0.13	0.33	0.16	0.11	24	0.80	0.09	0.47
8/7/07	0.24	0.23	0.24	0.14	0.09	0.09	0.08	0.20	0.38	0.47	0.80	0.98	0.72	0.91	0.91	0.73	0.65	0.70	0.41	0.26	0.40	0.36	0.34	0.48	24	0.98	0.08	0.45
8/8/07	0.25	0.53	0.34	0.19	0.17	0.14	0.18	0.43	0.62	0.42	0.60	0.53	0.68	0.92	1.00	0.89	0.88	0.62	0.69	0.31	0.17	0.15	0.02	0.20	24	1.00	0.02	0.46
8/9/07	0.13	0.65	0.32	0.16	0.00	0.23	0.24	0.23	0.30	0.51	0.61	0.81	0.80	0.69	1.06	0.92	0.75	0.57	0.53	0.30	0.28	0.33	0.17	0.27	24	1.06	0.00	0.45
8/10/07	0.27	0.22	0.84	0.88	0.93	0.96	0.91	0.92	0.85	1.04	1.08	1.56	1.46	1.35	1.39	1.19	1.08	1.04	0.39	2.19	1.13	0.92	0.51	0.63	24	2.19	0.22	0.99
8/11/07	0.44	0.32	0.28	0.42	0.77	0.55	0.88	0.89	0.92	1.04	0.71	0.89	0.87	0.99	0.94	0.91	0.88	0.75	0.49	0.28	0.12	0.15	0.17	0.19	24	1.04	0.12	0.62
8/12/07	0.38	0.12	0.20	0.46	0.47	0.37	0.55	0.44	0.46	0.59	0.95	0.97	0.78	0.80	1.08	1.06	0.89	0.74	0.46	0.31	0.25	0.31	0.38	0.24	24	1.08	0.12	0.55
8/13/07	0.08	0.22	0.24	0.23	0.28	0.20	0.39	0.53	0.55	0.78	0.93	1.07	1.00	0.83	0.84	0.75	0.72	0.62	0.37	0.20	0.22	0.30	0.27	0.29	24	1.07	0.08	0.50
8/14/07	0.24	0.28	0.10	0.17	0.33	0.33	1.01	1.97	0.91	0.86	0.75	0.96	1.09	0.82	0.77	0.78	0.76	0.60	0.59	0.43	0.39	0.39	0.33	0.40	24	1.97	0.10	0.64
8/15/07	0.33	0.22	0.34	0.30	0.17	0.17	0.24	0.20	0.44	0.67	0.86	0.85	0.98	0.84	0.96	0.78	0.54	0.38	0.19	0.09	0.23	0.31	0.21	0.28	24	0.98	0.09	0.44
8/16/07	0.24	0.27	0.18	0.18	0.29	0.39	0.39	0.43	0.47	0.54	0.64	0.96	1.14	1.28	1.15	0.93	0.66	0.41	0.18	0.19	0.11	0.22	0.28	0.10	24	1.28	0.10	0.48
8/17/07	0.14	0.30	0.42	0.52	0.56	2.40	0.79	0.80	0.75	0.90	0.73	0.85	0.90	1.06	1.07	0.85	1.01	0.86	0.78	0.78	0.80	0.61	0.73	0.63	24	2.40	0.14	0.80
8/18/07	0.55	0.48	0.50	0.56	0.80	0.70	0.56	0.52	0.49	0.45	0.48	0.55	0.52	0.53	0.49	0.55	0.46	0.49	0.46	0.41	0.42	0.44	0.43	0.45	24	0.80	0.41	0.51
8/19/07	0.48	0.47	0.37	0.43	0.62	0.71	0.58	0.44	0.42	0.47	0.54	0.47	0.51	0.63	0.62	0.54	0.58	0.47	0.47	0.46	0.38	0.42	0.47	0.42	24	0.71	0.37	0.50
8/20/07	0.36	0.25	0.20	0.32	1.00	0.51	0.46	0.38	0.57	0.57	0.68	0.90	0.42	0.76	0.60	0.76	0.80	0.37	0.24	0.22	0.19	0.22	0.08	0.11	24	1.00	0.08	0.46
8/21/07	0.11	0.08	0.11	0.11	0.08	0.09	0.00	0.00	0.00	0.28	0.45	0.79	1.08	1.06	0.96	0.86	0.83	0.62	0.21	0.18	0.27	0.22	0.32	0.45	24	1.08	0.00	0.38
8/22/07	0.00	0.08	0.13	0.09	0.00	0.44	0.29	0.36	0.42	0.41	0.27	0.39	0.40	0.30	0.42	0.26	0.49	0.22	0.19	0.06	0.15	0.10	0.03	0.05	24	0.49	0.00	0.23
8/23/07	0.13	0.44	0.27	0.29	0.29	0.44	0.68	0.84	0.83	0.66	0.89	0.87	1.13	1.04	1.00	0.73	0.58	0.37	0.14	0.03	0.07	0.00	0.04	0.08	24	1.13	0.00	0.49
8/24/07	0.32	0.16	0.23	0.27	0.31	0.23	0.26	0.30	0.47	0.59	0.70	1.08	0.82	0.46	0.35	0.79	0.55	0.39	0.44	0.44	0.49	0.49	0.37	0.28	24	1.08	0.16	0.45
8/25/07	0.23	0.14	0.17	0.15	0.10	0.14	0.11	0.14	0.55	0.83	0.85	0.76	0.73	0.74	0.88	0.72	0.51	0.78	0.53	0.63	0.16	0.18	0.26	0.12	24	0.88	0.10	0.43
8/26/07	0.19	1.12	1.07	0.44	0.54	0.52	0.59	0.77	0.97	1.03	1.03	0.97	1.22	0.98	1.01	0.92	0.88	0.68	0.23	0.14	0.17	0.22	0.14	0.26	24	1.22	0.14	0.67
8/27/07	0.34	0.39	0.37	0.38	0.89	0.82	0.72	0.76	0.73	0.72	0.53	0.66	0.39	0.42	0.56	0.73	0.38	0.34	0.36	0.41	0.41	0.32	0.34	0.32	24	0.89	0.32	0.51
8/28/07	0.34	0.38	0.25	0.22	0.24	0.45	0.41	0.46	0.50	0.56	0.62	0.40	0.38	0.78	0.79	0.41	0.29	0.39	0.50	0.38	0.12	0.09	0.13	0.11	24	0.79	0.09	0.38
8/29/07	0.10	0.09	0.04	0.05	0.03	0.08	0.01	0.16	0.45	0.73	0.86	1.00	0.89	0.89	0.98	0.84	0.77	0.55	0.25	0.17	0.08	0.08	0.16	0.13	24	1.00	0.01	0.39
8/30/07	0.14	0.13	0.12	0.45	0.38	0.20	0.15	0.31	0.60	0.74	0.92	0.95	1.06	1.05	0.94	0.91	0.73	0.63	0.23	0.17	0.15	0.84	0.22	0.72	24	1.06	0.12	0.53
8/31/07	0.35	0.23	0.11	0.10	0.20	0.33	0.58	0.23	0.33	0.58	0.89	1.08	1.11	1.07	0.76	0.90	0.79	0.66	0.52	0.58	0.58	0.44	0.21	0.17	24	1.11	0.10	0.53
hr max	1.02	1.12	1.07	0.88	1.00	2.40	1.01	1.97	0.97	1.04	1.08	1.56	1.46	1.35	1.39	1.19	1.08	1.04	0.78	2.19	1.13	0.92	0.95	0.90				
hr min	0.00	0.08	0.04	0.05	0.00	0.08	0.00	0.00	0.00	0.28	0.27	0.39	0.38	0.30	0.35	0.26	0.29	0.22	0.14	0.03	0.07	0.00	0.02	0.05				
average	0.30	0.34	0.30	0.30	0.39	0.43	0.43	0.49	0.54	0.63	0.73	0.84	0.85	0.85	0.84	0.79	0.71	0.58	0.39	0.36	0.30	0.33	0.27	0.30				

monthly max hr	monthly min hr	monthly ave hr
2.40	0.00	0.51
8/17/07	8/9/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
August-07
degC
2mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
8/1/07	23.8	23.6	22.8	22.1	21.8	21.5	21.3	21.3	21.7	22.7	25.5	28.1	28.9	29.3	29.4	29.1	29.1	27.4	25.2	21.3	18.7	16.5	15.3	15.3
8/2/07	15.5	15.9	14.8	13.2	12.0	12.1	14.7	19.1	22.2	25.1	26.6	27.1	27.8	28.6	29.4	29.6	29.5	29.1	27.9	25.5	22.7	20.5	20.1	19.4
8/3/07	18.6	18.2	17.5	18.3	18.3	18.4	19.1	21.1	23.4	23.7	23.9	24.5	25.2	24.0	23.3	21.9	20.1	18.4	18.0	17.8	16.9	15.9	15.8	15.6
8/4/07	15.7	14.9	15.0	15.1	15.0	14.8	14.6	14.5	14.9	15.3	15.7	16.3	17.4	18.4	19.4	20.5	20.3	19.8	19.3	17.3	15.9	15.9	16.7	16.5
8/5/07	16.2	16.2	16.2	16.1	16.3	16.0	16.1	16.6	17.3	18.6	22.1	24.0	25.9	27.9	28.4	28.9	29.4	28.8	26.6	24.4	23.3	22.4	21.3	21.0
8/6/07	20.0	19.2	18.7	18.9	19.2	19.4	20.0	20.8	21.0	20.7	20.4	21.4	24.4	24.8	25.6	26.5	27.0	27.1	25.7	23.7	21.2	20.4	19.9	19.4
8/7/07	19.2	18.9	19.5	18.7	17.5	16.9	16.6	19.5	23.0	25.9	27.6	29.0	28.9	29.9	30.3	30.1	28.7	27.6	25.8	23.7	22.9	22.0	22.4	22.7
8/8/07	22.2	20.7	19.0	19.4	19.6	20.0	20.3	21.4	22.7	23.2	24.8	24.8	26.2	28.1	29.5	30.5	30.1	28.8	27.1	23.1	20.1	19.7	18.6	17.3
8/9/07	17.5	17.8	17.4	17.0	16.9	16.5	17.6	20.1	22.5	25.6	28.2	30.3	31.8	32.7	33.3	33.5	33.2	32.1	30.0	26.9	24.2	23.6	22.5	21.0
8/10/07	20.6	20.3	20.4	20.2	20.0	20.5	20.6	22.0	22.8	27.7	29.9	31.1	31.3	31.3	31.0	31.1	31.2	30.7	29.2	27.0	24.8	21.9	20.8	22.5
8/11/07	22.1	21.2	20.6	18.8	20.6	19.8	19.2	20.2	22.3	24.7	26.4	27.7	28.8	29.6	29.5	29.2	28.5	27.2	25.5	22.4	19.3	17.4	15.1	13.8
8/12/07	14.1	12.7	12.0	12.6	12.5	12.3	12.6	13.3	14.1	15.0	18.9	21.6	22.2	23.6	25.6	26.5	26.8	26.0	24.5	21.9	19.5	17.7	17.2	18.1
8/13/07	18.0	17.8	17.9	17.6	17.4	17.8	18.2	20.0	22.9	25.6	28.1	30.1	31.5	32.4	32.5	34.2	34.8	32.9	29.8	26.5	25.0	24.2	22.5	20.6
8/14/07	19.1	18.8	18.9	19.0	18.6	18.6	18.7	18.9	18.0	18.0	20.8	23.1	24.1	23.2	24.3	26.5	26.2	24.5	22.5	20.1	18.0	17.4	17.1	16.8
8/15/07	15.9	15.6	15.6	15.7	15.7	15.9	15.8	16.1	17.6	20.8	23.1	25.0	26.7	27.9	28.7	28.9	28.7	27.3	25.4	22.4	20.6	19.1	18.9	18.7
8/16/07	17.9	17.8	15.4	14.4	14.7	14.1	13.3	14.2	15.5	17.6	20.0	22.7	24.4	25.4	26.1	26.2	25.6	25.4	24.0	20.3	18.8	18.1	16.2	16.5
8/17/07	16.3	17.4	17.8	15.7	15.1	14.6	14.8	14.2	14.6	15.2	16.0	16.5	15.6	16.0	18.9	20.3	21.4	21.3	19.5	18.1	17.8	17.1	16.8	15.7
8/18/07	14.6	13.8	13.7	14.1	15.7	15.9	16.0	16.2	16.6	17.1	17.5	17.5	17.8	17.9	17.6	17.6	18.0	17.2	16.5	16.3	16.2	16.5	16.4	16.1
8/19/07	15.6	15.2	14.7	14.4	14.1	13.9	13.9	13.9	13.9	14.2	14.3	14.7	14.9	15.8	16.2	16.0	16.2	15.8	15.3	14.8	14.7	14.6	14.6	14.5
8/20/07	14.6	14.8	14.8	14.8	15.0	15.9	15.6	15.7	16.6	17.8	20.2	21.9	21.8	23.0	23.5	25.0	25.4	24.5	23.5	21.1	18.2	16.9	15.8	15.7
8/21/07	15.0	13.3	12.2	11.6	11.6	11.5	13.4	16.0	17.5	19.5	17.7	21.8	22.1	23.5	23.9	24.0	23.9	22.9	21.0	17.6	15.5	15.5	14.6	14.0
8/22/07	14.1	13.8	13.7	14.2	14.1	14.7	15.8	17.7	18.4	20.1	21.8	23.3	24.4	24.3	23.5	22.8	23.3	20.4	19.3	18.4	16.4	15.6	15.3	15.7
8/23/07	15.6	15.5	15.1	15.4	15.3	14.8	14.9	14.9	15.0	14.8	17.1	19.8	21.9	22.3	22.3	22.2	21.4	20.0	19.1	17.4	15.1	14.7	12.9	11.9
8/24/07	11.2	10.4	9.5	8.8	9.0	8.7	9.8	12.3	15.1	16.6	18.7	20.7	20.4	20.1	19.6	16.5	14.0	13.8	13.0	12.6	12.2	12.1	11.9	11.7
8/25/07	11.8	11.9	12.0	11.5	11.0	11.0	10.7	11.9	14.0	15.9	16.7	18.0	18.7	19.8	20.7	21.1	21.6	21.6	19.3	15.4	14.7	15.1	15.3	15.8
8/26/07	15.9	16.0	16.7	17.3	17.3	17.3	17.7	19.4	21.7	24.1	26.1	27.7	29.3	30.2	30.5	29.7	28.8	28.2	26.6	24.3	23.2	22.3	21.7	21.2
8/27/07	21.5	21.7	21.7	21.5	21.9	21.7	21.8	21.7	21.6	21.8	21.9	21.9	22.8	22.0	18.0	16.2	17.2	17.6	17.3	16.7	16.6	16.6	15.9	15.5
8/28/07	15.3	15.1	14.7	14.4	14.3	14.2	14.0	13.9	14.0	14.1	14.5	14.8	15.2	15.8	17.0	16.2	16.1	16.5	16.5	14.6	11.9	10.9	11.4	9.9
8/29/07	9.2	8.9	9.1	9.8	10.2	10.0	10.5	13.0	15.8	18.4	20.1	20.5	20.7	21.2	21.4	21.8	21.9	21.6	19.6	16.1	14.7	14.0	13.9	13.8
8/30/07	13.3	12.7	13.0	14.1	14.4	14.6	15.1	16.7	19.1	21.9	23.8	25.2	26.3	27.1	28.0	28.4	28.0	27.0	24.8	22.3	21.0	19.9	18.8	18.3
8/31/07	18.2	18.0	17.7	17.1	16.8	16.1	15.1	17.7	21.1	23.2	26.0	28.3	29.7	30.3	30.3	30.2	29.9	28.4	26.2	24.3	23.2	22.1	21.1	20.5
hr max	23.8	23.6	22.8	22.1	21.9	21.7	21.8	22.0	23.4	27.7	29.9	31.1	31.8	32.7	33.3	34.2	34.8	32.9	30.0	27.0	25.0	24.2	22.5	22.7
hr min	9.2	8.9	9.1	8.8	9.0	8.7	9.8	11.9	13.9	14.1	14.3	14.7	14.9	15.8	16.2	16.0	14.0	13.8	13.0	12.6	11.9	10.9	11.4	9.9
average	16.7	16.4	16.1	15.9	15.9	15.8	16.1	17.2	18.6	20.2	21.8	23.2	24.1	24.7	25.1	25.2	25.0	24.2	22.7	20.5	18.8	18.0	17.3	17.0

valid hr count	daily max hr	daily min hr	daily ave hr
24	29.4	15.3	23.4
24	29.6	12.0	22.0
24	25.2	15.6	19.9
24	20.5	14.5	16.6
24	29.4	16.0	21.7
24	27.1	18.7	21.9
24	30.3	16.6	23.6
24	30.5	17.3	23.2
24	33.5	16.5	24.7
24	31.3	20.0	25.4
24	29.6	13.8	22.9
24	26.8	12.0	18.4
24	34.8	17.4	24.9
24	26.5	16.8	20.5
24	28.9	15.6	21.1
24	26.2	13.3	19.4
24	21.4	14.2	16.9
24	18.0	13.7	16.4
24	16.2	13.9	14.8
24	25.4	14.6	18.8
24	24.0	11.5	17.5
24	24.4	13.7	18.4
24	22.3	11.9	17.1
24	20.7	8.7	13.7
24	21.6	10.7	15.6
24	30.5	15.9	23.1
24	22.8	15.5	19.7
24	17.0	9.9	14.4
24	21.9	8.9	15.7
24	28.4	12.7	20.6
24	30.3	15.1	23.0

monthly max hr	monthly min hr	monthly ave hr
34.8	8.7	19.8
8/13/07	8/24/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
August-07
degC
10mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
8/1/07	24.3	24.0	23.1	22.4	22.0	21.6	21.5	21.7	22.6	22.7	24.8	27.2	28.0	28.2	28.3	28.3	28.3	27.4	25.9	23.5	22.0	20.4	19.0	19.5	24	28.3	19.0	24.0
8/2/07	19.3	18.7	18.5	18.2	17.4	18.2	16.7	19.0	21.8	24.3	25.6	26.1	26.8	27.6	28.2	28.7	28.9	28.8	28.7	27.3	25.2	23.1	22.0	20.6	24	28.9	16.7	23.3
8/3/07	19.8	19.4	18.6	19.1	19.1	19.1	19.4	20.9	23.0	23.5	23.6	24.2	24.5	23.5	22.9	21.6	19.8	18.3	18.0	17.8	16.8	15.9	15.9	15.7	24	24.5	15.7	20.0
8/4/07	15.7	15.0	15.1	15.2	15.0	14.8	14.5	14.4	14.7	14.9	15.1	15.7	16.7	17.7	18.8	19.8	19.8	19.3	18.9	17.7	16.8	16.6	16.8	16.4	24	19.8	14.4	16.5
8/5/07	16.1	16.1	16.1	16.1	16.2	15.9	15.9	16.3	16.8	18.0	21.0	22.7	24.5	26.7	27.7	28.4	29.0	29.0	27.6	25.3	24.1	23.0	21.9	21.5	24	29.0	15.9	21.5
8/6/07	20.6	19.9	19.5	19.1	19.2	19.4	19.9	20.6	20.9	20.5	20.2	21.0	23.7	24.2	24.6	25.6	26.2	26.6	25.6	24.3	22.2	21.6	21.2	20.7	24	26.6	19.1	22.0
8/7/07	20.9	19.9	20.2	20.2	19.5	18.8	17.8	19.7	22.6	25.2	26.7	28.2	28.5	29.0	29.6	29.7	28.9	28.0	26.3	24.4	23.5	22.7	22.8	22.9	24	29.7	17.8	24.0
8/8/07	22.5	21.4	20.4	20.4	20.1	20.3	20.4	21.0	22.3	22.8	24.0	24.5	25.5	27.0	28.6	29.6	29.7	29.0	27.5	24.3	22.1	21.8	21.0	19.6	24	29.7	19.6	23.6
8/9/07	19.1	19.0	17.9	17.3	17.3	17.0	17.9	19.7	21.9	24.8	27.4	29.5	30.8	31.9	32.8	33.3	33.3	32.9	30.7	27.7	25.2	24.3	23.1	21.7	24	33.3	17.0	24.9
8/10/07	21.3	21.0	21.0	20.9	20.6	20.8	20.7	21.8	23.0	27.1	29.0	30.2	30.4	30.1	30.1	30.4	30.8	30.5	29.3	27.3	25.4	22.1	21.2	22.8	24	30.8	20.6	25.3
8/11/07	22.3	21.5	21.1	20.3	21.7	20.3	19.3	19.8	21.7	23.9	25.4	26.7	27.5	28.3	28.4	28.4	28.0	27.1	25.9	23.6	20.7	18.7	16.7	15.1	24	28.4	15.1	23.0
8/12/07	14.7	13.3	12.5	12.9	12.8	12.6	12.8	13.2	13.8	14.6	17.6	20.2	21.4	22.6	24.6	25.8	26.3	26.0	24.9	22.7	20.4	18.3	18.0	18.5	24	26.3	12.5	18.4
8/13/07	18.4	18.1	18.2	17.8	17.6	17.8	18.2	19.6	22.1	24.7	26.9	28.7	30.2	31.3	32.0	33.9	35.2	33.6	30.8	27.9	25.9	24.7	23.1	22.4	24	35.2	17.6	25.0
8/14/07	20.7	19.8	19.5	19.5	19.0	18.8	18.9	19.0	18.0	17.8	19.9	21.8	22.7	22.3	24.0	25.8	25.9	24.6	22.8	20.6	18.9	18.0	17.5	17.2	24	25.9	17.2	20.5
8/15/07	16.4	16.1	16.0	15.7	15.7	15.8	15.5	15.7	17.0	19.9	22.1	23.7	25.5	27.0	28.0	28.5	28.4	27.7	26.8	25.0	22.8	20.7	20.1	20.0	24	28.5	15.5	21.3
8/16/07	19.4	19.1	17.4	16.6	15.8	14.7	13.4	14.0	15.0	16.8	19.1	21.6	23.2	24.4	25.3	25.7	25.6	25.8	25.1	22.6	20.1	19.1	17.5	17.3	24	25.8	13.4	19.8
8/17/07	17.0	17.8	18.0	16.4	15.5	14.9	15.1	14.2	14.9	15.5	15.8	16.0	15.4	15.5	18.1	19.6	20.9	21.3	19.7	18.3	17.9	17.2	16.8	15.9	24	21.3	14.2	17.0
8/18/07	14.7	13.8	13.7	14.0	15.8	15.9	16.0	16.2	16.5	16.9	17.2	17.2	17.4	17.7	17.4	17.4	17.8	17.1	16.4	16.2	16.2	16.4	16.3	16.0	24	17.8	13.7	16.3
8/19/07	15.5	15.1	14.7	14.4	14.1	13.9	13.8	13.8	13.8	13.9	14.1	14.2	14.5	15.4	16.0	15.8	15.8	15.6	15.2	14.7	14.6	14.6	14.6	14.5	24	16.0	13.8	14.7
8/20/07	14.5	14.7	14.8	14.8	15.0	16.1	15.6	15.5	16.1	17.1	19.1	20.9	21.5	22.4	23.0	24.2	24.9	24.5	24.6	24.3	22.1	21.5	19.8	18.7	24	24.9	14.5	19.4
8/21/07	18.9	17.7	17.4	17.8	16.4	15.3	17.7	16.8	17.5	19.7	17.9	20.5	20.8	22.3	22.8	23.2	23.3	22.9	21.7	19.6	17.6	16.7	16.5	16.7	24	23.3	15.3	19.1
8/22/07	17.1	17.6	18.6	18.1	17.0	16.8	16.5	17.7	18.3	19.7	21.1	22.2	24.0	24.2	23.5	22.7	22.9	21.1	20.2	19.7	18.8	18.1	17.4	17.7	24	24.2	16.5	19.6
8/23/07	17.8	16.6	16.4	16.5	16.3	15.1	15.1	15.0	14.9	14.9	16.4	18.6	20.4	21.0	20.8	21.0	20.8	20.1	19.8	19.4	18.0	18.4	18.1	15.9	24	21.0	14.9	17.8
8/24/07	14.9	12.1	11.3	10.3	10.3	10.0	10.5	12.1	14.4	15.8	17.6	19.5	19.9	19.8	19.6	17.5	14.2	13.8	13.1	12.7	12.4	12.3	12.0	11.8	24	19.9	10.0	14.1
8/25/07	11.8	11.9	12.0	11.7	11.1	11.0	10.6	11.6	13.5	15.0	15.9	16.9	17.7	18.4	19.3	20.0	20.9	21.2	19.7	17.3	16.3	15.9	15.8	16.2	24	21.2	10.6	15.5
8/26/07	16.2	16.3	17.1	17.7	17.6	17.6	17.9	19.1	21.1	23.1	25.0	26.4	28.0	29.1	29.6	29.0	28.3	28.1	26.9	24.9	23.7	22.7	22.1	21.5	24	29.6	16.2	22.9
8/27/07	21.8	21.8	21.8	21.7	22.0	21.7	21.8	21.6	21.6	21.7	21.9	21.8	22.6	21.7	17.8	15.9	17.1	17.5	17.2	16.6	16.5	16.6	15.8	15.5	24	22.6	15.5	19.7
8/28/07	15.2	15.0	14.6	14.4	14.2	14.2	14.0	13.8	13.8	13.9	14.1	14.6	15.0	16.2	16.8	16.4	16.2	16.6	16.7	15.1	13.8	13.2	13.1	13.2	24	16.8	13.1	14.8
8/29/07	11.9	12.7	13.3	11.7	11.3	11.4	11.1	12.7	15.0	17.3	18.8	19.6	20.0	20.4	20.8	21.2	21.4	21.4	20.2	17.6	16.0	15.0	14.7	14.5	24	21.4	11.1	16.3
8/30/07	14.2	13.5	13.6	14.3	14.6	14.7	15.2	16.5	18.4	20.9	22.7	23.9	25.0	25.8	27.0	27.5	27.4	26.9	25.1	22.9	21.5	20.4	19.4	19.0	24	27.5	13.5	20.4
8/31/07	19.0	18.7	18.4	17.7	17.5	16.9	16.1	17.3	20.3	22.0	24.7	27.1	28.5	29.2	29.4	29.5	29.6	28.4	26.6	24.7	23.7	22.4	21.4	20.9	24	29.6	16.1	22.9
hr max	24.3	24.0	23.1	22.4	22.0	21.7	21.8	21.8	23.0	27.1	29.0	30.2	30.8	31.9	32.8	33.9	35.2	33.6	30.8	27.9	25.9	24.7	23.1	22.9				
hr min	11.8	11.9	11.3	10.3	10.3	10.0	10.5	11.6	13.5	13.9	14.1	14.2	14.5	15.4	16.0	15.8	14.2	13.8	13.1	12.7	12.4	12.3	12.0	11.8				
average	17.8	17.3	17.1	16.9	16.7	16.5	16.4	17.1	18.3	19.6	21.0	22.3	23.2	23.9	24.4	24.7	24.7	24.2	23.2	21.5	20.0	19.1	18.4	18.1				

monthly max hr	monthly min hr	monthly ave hr
35.2	10.0	20.1
8/13/07	8/24/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
August-07
degC
50mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
8/1/07	24.6	24.2	23.3	22.6	22.0	21.8	21.6	23.0	24.4	22.6	24.1	26.4	27.1	27.3	27.5	27.5	27.5	27.0	26.0	25.1	24.4	23.6	22.4	21.4	24	27.5	21.4	24.5
8/2/07	22.6	22.5	21.6	21.1	20.2	20.2	20.2	21.2	21.7	23.6	24.8	25.4	26.1	26.9	27.5	28.0	28.4	28.4	28.4	28.0	27.7	25.7	26.3	25.8	24	28.4	20.2	24.7
8/3/07	25.2	22.7	22.0	21.5	21.4	21.0	20.4	20.8	22.4	22.9	23.0	23.5	23.6	22.8	22.2	21.1	19.2	18.0	17.8	17.5	16.5	15.7	15.6	15.4	24	25.2	15.4	20.5
8/4/07	15.5	14.8	14.9	15.0	14.7	14.5	14.2	14.0	14.2	14.4	14.5	15.1	16.1	17.1	18.2	19.2	19.3	18.8	18.4	17.7	17.2	16.8	16.5	16.1	24	19.3	14.0	16.1
8/5/07	15.9	15.9	15.9	15.8	15.9	15.7	15.6	16.0	16.5	17.5	20.2	22.1	23.8	25.9	27.1	27.8	28.6	28.6	27.9	26.3	25.0	23.6	22.9	22.8	24	28.6	15.6	21.4
8/6/07	22.7	21.6	20.3	19.2	19.0	19.2	19.7	20.2	20.4	20.1	19.9	20.6	23.1	23.7	24.0	24.9	25.5	26.0	25.1	24.4	23.3	23.8	23.3	23.2	24	26.0	19.0	22.2
8/7/07	24.1	23.1	21.2	21.1	20.7	20.7	20.8	21.2	22.3	24.6	26.1	27.6	27.9	28.2	28.8	28.9	28.3	27.6	26.3	25.0	24.3	23.4	23.1	23.0	24	28.9	20.7	24.5
8/8/07	22.6	21.7	21.9	21.4	20.8	21.1	20.4	20.5	21.6	22.2	23.3	23.9	24.8	26.1	27.9	29.1	29.4	29.2	27.8	25.0	24.1	23.8	23.4	22.8	24	29.4	20.4	24.0
8/9/07	22.3	21.3	19.6	19.2	19.8	21.1	20.7	20.0	21.4	24.3	26.8	28.8	30.2	31.3	32.2	32.9	32.9	32.7	30.5	28.4	27.2	25.5	24.1	23.6	24	32.9	19.2	25.7
8/10/07	24.0	22.9	22.0	21.8	21.6	21.4	21.0	21.5	22.9	26.3	28.0	29.2	29.3	28.9	29.0	29.4	30.0	29.8	28.9	27.3	25.7	22.1	21.5	22.9	24	30.0	21.0	25.3
8/11/07	22.2	21.6	21.6	21.9	23.3	20.8	19.0	19.3	21.0	23.1	24.7	25.9	26.7	27.4	27.6	27.7	27.4	26.8	25.9	24.5	22.2	20.1	18.1	16.6	24	27.7	16.6	23.1
8/12/07	15.2	14.4	13.2	12.9	12.7	12.5	12.5	12.8	13.3	13.9	16.6	19.4	20.8	21.8	23.7	24.8	25.5	25.4	24.6	22.9	21.0	18.8	18.7	19.1	24	25.5	12.5	18.2
8/13/07	18.9	18.5	18.5	18.0	17.6	17.8	18.0	19.0	21.2	23.7	25.8	27.7	29.5	30.7	31.8	34.0	35.5	34.2	31.5	29.2	26.8	25.0	23.6	22.7	24	35.5	17.6	25.0
8/14/07	22.7	22.9	22.4	20.8	19.7	19.1	18.8	18.8	17.8	17.4	19.2	21.0	21.8	21.6	23.6	25.1	25.5	24.4	22.8	20.9	19.4	18.5	17.9	17.5	24	25.5	17.4	20.8
8/15/07	16.8	16.6	16.3	15.5	15.5	15.4	15.1	15.5	16.6	18.7	21.2	22.9	24.8	26.3	27.4	27.9	28.0	27.8	27.5	26.7	25.3	22.1	21.1	21.0	24	28.0	15.1	21.3
8/16/07	19.9	19.8	19.4	19.2	17.5	14.8	13.2	13.5	14.4	16.1	18.5	20.9	22.5	23.7	24.7	25.1	25.2	25.4	25.2	24.5	23.1	22.1	19.8	18.4	24	25.4	13.2	20.3
8/17/07	17.9	18.3	18.1	16.9	16.0	15.0	15.6	14.2	15.0	15.4	15.5	15.5	15.0	15.0	17.4	18.9	20.2	20.9	19.5	18.1	17.7	17.0	16.6	15.8	24	20.9	14.2	16.9
8/18/07	14.5	13.6	13.4	13.8	15.5	15.6	15.7	16.0	16.3	16.6	16.9	16.9	17.0	17.2	17.0	17.0	17.3	16.7	16.1	16.0	16.0	16.2	16.1	15.8	24	17.3	13.4	16.0
8/19/07	15.3	14.9	14.4	14.1	13.8	13.6	13.6	13.5	13.4	13.5	13.6	13.7	14.0	14.6	15.2	15.1	15.3	15.1	14.8	14.4	14.3	14.3	14.3	14.3	24	15.3	13.4	14.3
8/20/07	14.3	14.5	14.5	14.5	14.9	16.0	15.4	15.1	15.5	16.4	18.2	20.2	21.1	21.9	22.5	23.6	24.5	24.6	24.9	24.7	25.0	24.1	22.8	20.4	24	25.0	14.3	19.6
8/21/07	22.0	22.4	22.5	22.4	21.7	20.5	21.7	21.8	20.6	20.3	18.6	19.5	19.8	21.3	22.0	22.6	22.7	22.5	21.8	21.0	19.6	19.3	19.5	20.1	24	22.7	18.6	21.1
8/22/07	20.6	21.5	22.8	21.8	21.6	22.4	19.0	18.4	18.7	19.7	20.7	21.6	23.5	23.9	23.2	22.8	22.5	21.2	20.8	21.2	21.4	20.9	20.0	19.9	24	23.9	18.4	21.3
8/23/07	19.9	17.8	17.8	17.5	16.7	15.3	15.1	14.8	14.6	14.6	15.8	17.7	19.5	20.1	19.8	20.2	20.3	20.1	19.9	19.6	19.4	19.1	19.0	18.1	24	20.3	14.6	18.0
8/24/07	17.3	15.2	12.3	11.4	11.3	10.9	11.4	11.9	13.9	15.2	16.9	18.8	19.4	19.3	19.4	17.8	14.1	13.5	12.8	12.5	12.1	12.0	11.8	11.5	24	19.4	10.9	14.3
8/25/07	11.5	11.6	11.7	11.7	11.5	11.2	10.9	11.6	13.0	14.4	15.3	16.2	16.9	17.5	18.4	19.1	20.0	20.6	19.6	19.3	19.4	17.4	16.6	16.8	24	20.6	10.9	15.5
8/26/07	16.7	16.8	17.7	18.0	17.8	17.7	17.8	18.7	20.4	22.3	24.0	25.4	26.9	28.0	28.5	28.0	27.5	27.5	26.9	25.5	24.2	23.2	22.4	21.8	24	28.5	16.7	22.7
8/27/07	22.1	21.8	21.8	21.9	21.9	21.5	21.6	21.5	21.4	21.3	21.4	21.5	22.2	21.3	17.5	15.5	16.4	16.9	16.8	16.4	16.3	16.4	15.6	15.2	24	22.2	15.2	19.4
8/28/07	15.0	14.8	14.3	14.1	14.0	13.9	13.7	13.5	13.4	13.4	13.6	14.1	14.5	14.0	16.3	16.2	16.1	16.5	16.5	15.3	15.0	14.8	14.5	14.5	24	16.5	13.4	14.7
8/29/07	14.0	14.1	14.2	14.1	14.2	14.2	13.3	12.7	14.5	16.5	18.0	18.9	19.3	19.8	20.3	20.6	20.9	20.9	20.2	19.3	19.1	18.4	17.5	17.2	24	20.9	12.7	17.2
8/30/07	17.0	16.6	16.3	15.2	15.2	15.1	15.5	16.3	17.7	20.1	21.6	22.8	23.8	24.7	25.9	26.5	26.6	26.3	25.1	24.0	22.6	21.7	21.5	21.5	24	26.6	15.1	20.8
8/31/07	21.2	20.7	19.9	19.4	19.3	18.5	17.5	17.2	19.6	21.3	23.9	26.1	27.5	28.1	28.3	28.6	28.8	27.9	26.5	24.9	23.8	22.6	21.6	21.3	24	28.8	17.2	23.1
hr max	25.2	24.2	23.3	22.6	23.3	22.4	21.7	23.0	24.4	26.3	28.0	29.2	30.2	31.3	32.2	34.0	35.5	34.2	31.5	29.2	27.7	25.7	26.3	25.8				
hr min	11.5	11.6	11.7	11.4	11.3	10.9	10.9	11.6	13.0	13.4	13.6	13.7	14.0	14.0	15.2	15.1	14.1	13.5	12.8	12.5	12.1	12.0	11.8	11.5				
average	19.2	18.7	18.3	17.9	17.7	17.4	17.1	17.2	18.1	19.1	20.3	21.6	22.5	23.1	23.7	24.1	24.2	23.9	23.1	22.1	21.3	20.3	19.6	19.2				

monthly max hr	monthly min hr	monthly ave hr
35.5	10.9	20.4
8/13/07	8/24/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
August-07
degC
100mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
8/1/07	24.6	24.1	23.4	23.1	22.3	22.4	22.0	23.5	24.7	22.3	23.6	25.8	26.5	26.7	26.9	26.9	26.9	26.5	25.7	25.1	24.7	24.3	23.1	22.7	24	26.9	22.0	24.5
8/2/07	23.2	22.8	22.3	22.1	21.4	20.8	20.8	21.6	21.6	23.1	24.2	24.8	25.4	26.3	26.9	27.4	27.8	27.9	27.9	27.6	27.3	26.4	26.2	26.3	24	27.9	20.8	24.7
8/3/07	25.3	23.9	23.3	22.7	22.1	21.5	21.4	21.5	21.9	22.4	22.5	23.0	23.1	22.2	21.7	20.6	18.8	17.6	17.4	17.2	16.2	15.3	15.3	15.1	24	25.3	15.1	20.5
8/4/07	15.1	14.4	14.6	14.6	14.3	14.1	13.9	13.7	13.9	14.0	14.1	14.6	15.6	16.6	17.7	18.7	18.7	18.3	17.9	17.2	16.7	16.3	16.0	15.8	24	18.7	13.7	15.7
8/5/07	15.6	15.6	15.6	15.6	15.7	16.1	15.9	16.3	16.4	17.3	19.8	21.4	23.2	25.3	26.5	27.3	28.0	28.1	27.5	26.2	25.6	24.3	23.8	23.7	24	28.1	15.6	21.3
8/6/07	23.2	22.5	21.1	19.5	18.9	19.1	19.5	19.8	19.9	19.7	19.6	20.2	22.5	23.1	23.4	24.3	24.9	25.5	24.5	24.0	23.1	23.6	24.3	24.2	24	25.5	18.9	22.1
8/7/07	24.5	23.9	21.9	21.6	21.8	22.5	23.2	23.4	22.9	24.2	25.5	27.0	27.3	27.5	28.2	28.3	27.8	27.1	26.1	25.4	25.3	24.1	23.6	23.0	24	28.3	21.6	24.8
8/8/07	22.8	21.6	21.6	21.6	21.4	21.9	20.7	20.1	21.1	21.7	22.7	23.4	24.3	25.5	27.3	28.6	28.9	28.7	27.4	24.9	24.2	24.0	23.8	24.5	24	28.9	20.1	23.9
8/9/07	23.7	22.8	21.4	21.5	23.1	23.2	22.5	21.4	21.5	23.8	26.3	28.2	29.6	30.7	31.7	32.3	32.4	32.2	30.1	28.7	28.3	27.0	25.4	25.0	24	32.4	21.4	26.4
8/10/07	27.5	26.2	23.5	22.5	22.9	22.1	21.6	21.4	22.8	25.7	27.4	28.6	28.6	28.3	28.3	28.7	29.4	29.3	28.6	27.1	25.5	22.3	22.4	22.9	24	29.4	21.4	25.6
8/11/07	22.4	22.5	22.3	22.8	23.8	21.6	18.6	18.8	20.4	22.5	24.0	25.3	26.1	26.8	27.0	27.2	26.9	26.3	25.5	24.4	22.8	21.1	19.2	17.1	24	27.2	17.1	23.1
8/12/07	15.3	14.8	13.7	12.8	12.5	12.3	12.3	12.4	12.8	13.4	16.0	18.8	20.2	21.2	23.0	24.2	24.8	24.8	24.1	22.8	21.3	19.4	19.6	20.1	24	24.8	12.3	18.0
8/13/07	20.2	19.4	19.3	18.7	18.4	18.3	18.1	18.5	20.7	23.1	25.1	27.1	28.9	30.2	31.3	33.5	35.0	33.9	31.3	29.3	27.1	25.1	23.7	22.6	24	35.0	18.1	25.0
8/14/07	24.2	24.6	23.5	22.5	20.8	19.3	18.5	18.3	17.3	16.9	18.6	20.4	21.2	21.0	23.1	24.5	24.9	23.9	22.3	20.6	19.3	18.7	18.4	18.1	24	24.9	16.9	20.9
8/15/07	17.3	17.6	17.1	15.9	16.0	15.3	14.9	15.4	16.6	18.5	20.7	22.3	24.1	25.8	26.8	27.4	27.5	27.3	27.1	26.5	25.9	22.5	21.6	22.0	24	27.5	14.9	21.3
8/16/07	20.8	20.5	20.8	21.0	18.5	14.5	12.8	13.1	13.9	15.7	18.0	20.3	22.0	23.1	24.1	24.5	24.7	24.9	24.8	24.3	22.9	22.4	21.5	20.5	24	24.9	12.8	20.4
8/17/07	19.8	19.8	18.4	18.4	17.4	16.4	17.0	14.4	15.2	15.4	15.2	14.9	14.5	14.5	16.7	18.2	19.6	20.4	19.1	17.8	17.4	16.6	16.3	15.6	24	20.4	14.4	17.0
8/18/07	14.2	13.3	13.2	13.8	15.3	15.3	15.4	15.7	16.0	16.3	16.6	16.6	16.7	16.9	16.7	16.7	16.9	16.4	15.9	15.7	15.7	16.0	15.8	15.5	24	16.9	13.2	15.7
8/19/07	15.0	14.6	14.1	13.8	13.6	13.4	13.3	13.2	13.2	13.2	13.3	13.4	13.7	14.2	14.7	14.6	14.7	14.5	14.3	14.1	14.0	14.0	14.0	14.0	24	15.0	13.2	14.0
8/20/07	14.0	14.2	14.2	14.3	15.9	16.0	15.2	14.8	15.2	15.8	17.2	19.5	20.6	21.3	22.0	23.1	24.0	24.2	24.4	24.4	24.9	24.2	23.4	21.8	24	24.9	14.0	19.4
8/21/07	23.4	22.8	22.7	22.5	21.9	21.7	22.2	22.4	22.2	21.0	19.4	19.2	19.2	20.7	21.4	22.0	22.2	22.0	21.4	20.7	19.8	19.6	20.1	21.4	24	23.4	19.2	21.3
8/22/07	21.8	22.7	23.6	24.0	24.1	23.7	20.9	20.4	20.0	20.0	20.6	21.3	23.1	23.5	22.7	22.7	22.0	21.2	21.4	21.7	21.5	21.5	21.3	21.1	24	24.1	20.0	22.0
8/23/07	20.4	19.1	18.7	17.4	16.4	15.2	14.9	14.4	14.2	14.3	15.3	17.1	18.9	19.4	19.2	19.7	19.8	19.6	19.5	19.4	19.1	18.7	18.8	18.4	24	20.4	14.2	17.8
8/24/07	17.7	16.4	12.9	12.5	12.4	12.0	12.2	11.9	13.4	14.6	16.4	18.2	18.8	18.8	18.9	17.6	14.1	13.0	12.3	12.1	11.7	11.7	11.4	11.2	24	18.9	11.2	14.3
8/25/07	11.2	11.5	11.7	11.9	11.5	11.4	11.1	11.5	12.5	13.8	14.7	15.7	16.4	16.9	17.8	18.6	19.4	20.0	19.3	19.2	19.3	19.0	18.6	19.0	24	20.0	11.1	15.5
8/26/07	18.2	18.3	18.6	18.3	18.1	17.9	17.9	18.4	19.8	21.7	23.3	24.7	26.2	27.3	27.9	27.4	26.9	27.0	26.7	25.9	24.7	23.8	23.2	22.6	24	27.9	17.9	22.7
8/27/07	23.1	22.4	22.4	23.3	21.7	21.3	21.4	21.2	21.1	21.0	21.0	21.0	21.7	20.9	17.2	15.2	16.0	16.5	16.4	16.1	16.0	16.1	15.3	15.0	24	23.3	15.0	19.3
8/28/07	14.7	14.5	14.1	13.9	13.7	13.7	13.4	13.2	13.1	13.1	13.3	13.8	14.2	14.8	15.8	15.8	15.8	16.1	16.1	15.0	14.8	14.7	14.4	14.4	24	16.1	13.1	14.4
8/29/07	14.2	14.2	14.3	14.4	14.5	14.4	14.1	13.8	14.0	15.9	17.4	18.3	18.8	19.2	19.7	20.1	20.3	20.4	19.8	19.2	18.9	18.6	18.3	18.2	24	20.4	13.8	17.1
8/30/07	18.4	18.3	18.2	17.4	16.6	16.9	16.6	16.4	17.2	19.4	21.0	22.2	23.1	24.1	25.3	25.9	26.0	25.8	25.0	24.5	23.6	22.5	22.0	21.9	24	26.0	16.4	21.2
8/31/07	21.4	21.0	20.4	20.3	20.3	20.0	18.4	18.0	19.2	20.7	23.4	25.4	26.7	27.4	27.7	28.0	28.2	27.4	26.3	24.9	23.8	22.6	22.1	22.1	24	28.2	18.0	23.2
hr max	27.5	26.2	23.6	24.0	24.1	23.7	23.2	23.5	24.7	25.7	27.4	28.6	29.6	30.7	31.7	33.5	35.0	33.9	31.3	29.3	28.3	27.0	26.2	26.3				
hr min	11.2	11.5	11.7	11.9	11.5	11.4	11.1	11.5	12.5	13.1	13.3	13.4	13.7	14.2	14.7	14.6	14.1	13.0	12.3	12.1	11.7	11.7	11.4	11.2				
average	19.8	19.4	18.8	18.5	18.3	17.9	17.4	17.4	17.9	18.7	19.9	21.0	22.0	22.6	23.1	23.5	23.7	23.4	22.8	22.0	21.3	20.5	20.1	19.9				

monthly	monthly	monthly
max hr	min hr	ave hr
35.0	11.1	20.4
8/13/07	8/25/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
August-07
degC
10-2

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
8/1/07	0.45	0.41	0.37	0.29	0.20	0.16	0.17	0.44	0.85	0.02	-0.66	-0.91	-0.98	-1.16	-1.06	-0.79	-0.79	-0.01	0.68	2.18	3.28	3.90	3.77	4.21	24	4.21	-1.16	0.63
8/2/07	3.87	2.74	3.78	5.00	5.44	6.10	1.97	-0.12	-0.46	-0.76	-0.99	-1.00	-0.98	-0.97	-1.15	-0.88	-0.61	-0.30	0.79	1.80	2.47	2.66	1.84	1.37	24	6.10	-1.15	1.32
8/3/07	1.23	1.18	1.08	0.79	0.83	0.70	0.24	-0.21	-0.39	-0.21	-0.33	-0.34	-0.71	-0.51	-0.37	-0.28	-0.32	-0.07	0.04	0.03	-0.01	0.02	0.07	0.06	24	1.23	-0.71	0.11
8/4/07	0.06	0.10	0.18	0.14	0.04	-0.03	-0.07	-0.12	-0.24	-0.39	-0.56	-0.60	-0.73	-0.68	-0.63	-0.66	-0.50	-0.49	-0.33	0.41	0.96	0.70	0.11	-0.03	24	0.96	-0.73	-0.14
8/5/07	-0.09	-0.09	-0.07	-0.07	-0.08	-0.07	-0.20	-0.37	-0.44	-0.68	-1.12	-1.28	-1.43	-1.21	-0.66	-0.48	-0.32	0.19	0.94	0.96	0.83	0.64	0.62	0.45	24	0.96	-1.43	-0.17
8/6/07	0.59	0.78	0.73	0.17	-0.03	-0.03	-0.08	-0.13	-0.14	-0.18	-0.19	-0.33	-0.71	-0.52	-0.99	-0.96	-0.87	-0.50	-0.12	0.65	0.93	1.19	1.36	1.28	24	1.36	-0.99	0.08
8/7/07	1.73	1.04	0.69	1.51	2.04	1.98	1.21	0.17	-0.41	-0.72	-0.87	-0.85	-0.36	-0.88	-0.71	-0.42	0.12	0.36	0.52	0.67	0.56	0.69	0.38	0.27	24	2.04	-0.88	0.36
8/8/07	0.31	0.74	1.48	1.02	0.52	0.31	0.07	-0.34	-0.41	-0.36	-0.74	-0.33	-0.65	-1.14	-0.90	-0.92	-0.44	0.13	0.48	1.18	1.96	2.10	2.41	2.25	24	2.41	-1.14	0.36
8/9/07	1.62	1.22	0.52	0.35	0.32	0.52	0.29	-0.40	-0.63	-0.75	-0.82	-0.82	-0.95	-0.85	-0.49	-0.25	0.10	0.84	0.64	0.78	1.00	0.69	0.58	0.65	24	1.62	-0.95	0.17
8/10/07	0.73	0.64	0.53	0.73	0.61	0.30	0.16	-0.12	0.13	-0.62	-0.83	-0.84	-0.94	-1.13	-0.93	-0.72	-0.42	-0.18	0.10	0.29	0.62	0.23	0.42	0.35	24	0.73	-1.13	-0.04
8/11/07	0.23	0.29	0.56	1.56	1.14	0.44	0.05	-0.36	-0.57	-0.77	-1.03	-0.97	-1.28	-1.26	-1.11	-0.86	-0.51	-0.10	0.40	1.24	1.44	1.24	1.57	1.30	24	1.57	-1.28	0.11
8/12/07	0.67	0.59	0.53	0.27	0.29	0.26	0.12	-0.10	-0.33	-0.39	-1.33	-1.42	-0.81	-1.05	-1.06	-0.79	-0.44	0.04	0.44	0.74	0.88	0.63	0.79	0.42	24	0.88	-1.42	-0.04
8/13/07	0.32	0.33	0.30	0.24	0.17	0.04	0.02	-0.40	-0.81	-0.94	-1.23	-1.37	-1.30	-1.09	-0.54	-0.29	0.40	0.68	1.03	1.36	0.87	0.49	0.60	1.83	24	1.83	-1.37	0.03
8/14/07	1.56	1.08	0.62	0.52	0.34	0.26	0.20	0.11	0.03	-0.18	-0.91	-1.30	-1.49	-0.85	-0.32	-0.69	-0.26	0.04	0.26	0.55	0.86	0.60	0.44	0.36	24	1.56	-1.49	0.08
8/15/07	0.45	0.51	0.36	0.01	-0.01	-0.07	-0.24	-0.33	-0.57	-0.93	-1.05	-1.24	-1.17	-0.90	-0.68	-0.45	-0.26	0.39	1.42	2.54	2.16	1.64	1.22	1.30	24	2.54	-1.24	0.17
8/16/07	1.52	1.29	2.05	2.23	1.17	0.58	0.10	-0.21	-0.52	-0.77	-0.89	-1.11	-1.16	-1.01	-0.85	-0.57	0.07	0.36	1.09	2.38	1.37	1.00	1.27	0.75	24	2.38	-1.16	0.42
8/17/07	0.66	0.39	0.26	0.63	0.38	0.26	0.25	0.09	0.27	0.25	-0.16	-0.49	-0.17	-0.50	-0.77	-0.68	-0.44	-0.03	0.21	0.18	0.13	0.09	0.06	0.23	24	0.66	-0.77	0.05
8/18/07	0.13	0.01	0.00	-0.01	0.07	0.05	-0.01	-0.07	-0.10	-0.17	-0.31	-0.33	-0.41	-0.27	-0.20	-0.28	-0.20	-0.13	-0.10	-0.06	-0.04	-0.04	-0.04	-0.04	24	0.13	-0.41	-0.11
8/19/07	-0.05	-0.05	-0.05	-0.06	-0.05	-0.05	-0.07	-0.12	-0.15	-0.28	-0.25	-0.41	-0.44	-0.41	-0.17	-0.17	-0.40	-0.22	-0.12	-0.09	-0.06	-0.06	-0.05	-0.05	24	-0.05	-0.44	-0.16
8/20/07	-0.05	-0.07	-0.06	-0.03	0.01	0.25	0.00	-0.25	-0.53	-0.73	-1.15	-0.96	-0.25	-0.62	-0.49	-0.81	-0.46	0.04	1.10	3.15	3.90	4.59	4.04	3.03	24	4.59	-1.15	0.57
8/21/07	3.94	4.37	5.20	6.20	4.79	3.79	4.37	0.78	-0.01	0.25	0.20	-1.29	-1.33	-1.24	-1.14	-0.79	-0.57	-0.05	0.66	2.05	2.14	1.16	1.91	2.65	24	6.20	-1.33	1.59
8/22/07	3.03	3.81	4.82	3.93	2.94	2.02	0.70	0.06	-0.18	-0.36	-0.69	-1.09	-0.42	-0.07	-0.03	-0.09	-0.41	0.66	0.88	1.29	2.41	2.56	2.14	1.99	24	4.82	-1.09	1.25
8/23/07	2.21	1.05	1.31	1.11	1.03	0.31	0.21	0.08	-0.08	0.06	-0.67	-1.22	-1.44	-1.38	-1.46	-1.19	-0.59	0.09	0.70	1.99	2.93	3.67	5.21	3.98	24	5.21	-1.46	0.75
8/24/07	3.73	1.63	1.79	1.50	1.32	1.24	0.70	-0.17	-0.68	-0.79	-1.10	-1.12	-0.54	-0.33	-0.01	1.02	0.15	-0.01	0.05	0.13	0.13	0.13	0.11	0.08	24	3.73	-1.12	0.37
8/25/07	0.04	-0.01	0.00	0.27	0.10	0.09	-0.04	-0.27	-0.48	-0.90	-0.82	-1.04	-1.09	-1.39	-1.37	-1.07	-0.79	-0.33	0.35	1.84	1.59	0.87	0.54	0.37	24	1.84	-1.39	-0.15
8/26/07	0.32	0.30	0.35	0.35	0.31	0.32	0.18	-0.26	-0.66	-0.96	-1.15	-1.25	-1.32	-1.16	-0.91	-0.75	-0.50	-0.11	0.27	0.59	0.50	0.41	0.34	0.35	24	0.59	-1.32	-0.19
8/27/07	0.33	0.11	0.12	0.23	0.08	-0.01	-0.02	-0.03	-0.06	-0.10	-0.04	-0.06	-0.23	-0.26	-0.22	-0.24	-0.19	-0.11	-0.07	-0.05	-0.05	-0.05	-0.06	-0.06	24	0.33	-0.26	-0.04
8/28/07	-0.06	-0.06	-0.08	-0.08	-0.07	-0.06	-0.07	-0.10	-0.20	-0.24	-0.42	-0.26	-0.21	0.32	-0.24	0.15	0.09	0.12	0.18	0.56	1.96	2.33	1.70	3.24	24	3.24	-0.42	0.35
8/29/07	2.70	3.82	4.21	1.88	1.06	1.39	0.60	-0.36	-0.78	-1.14	-1.23	-0.91	-0.66	-0.81	-0.59	-0.65	-0.56	-0.24	0.59	1.59	1.33	1.00	0.79	0.76	24	4.21	-1.23	0.57
8/30/07	0.82	0.81	0.65	0.22	0.19	0.12	0.11	-0.12	-0.72	-0.95	-1.14	-1.30	-1.38	-1.31	-1.03	-0.87	-0.53	-0.11	0.27	0.56	0.50	0.50	0.62	0.75	24	0.82	-1.38	-0.14
8/31/07	0.83	0.72	0.68	0.61	0.65	0.80	0.95	-0.44	-0.82	-1.14	-1.27	-1.20	-1.20	-1.11	-0.96	-0.67	-0.37	0.03	0.38	0.48	0.43	0.35	0.32	0.35	24	0.95	-1.27	-0.07
hr max	3.94	4.37	5.20	6.20	5.44	6.10	4.37	0.78	0.85	0.25	0.20	-0.06	-0.17	0.32	-0.01	1.02	0.40	0.84	1.42	3.15	3.90	4.59	5.21	4.21				
hr min	-0.09	-0.09	-0.08	-0.08	-0.08	-0.07	-0.24	-0.44	-0.82	-1.14	-1.33	-1.42	-1.49	-1.39	-1.46	-1.19	-0.87	-0.50	-0.33	-0.09	-0.06	-0.06	-0.06	-0.06				
average	1.09	0.96	1.06	1.02	0.83	0.71	0.38	-0.12	-0.33	-0.51	-0.77	-0.89	-0.86	-0.83	-0.71	-0.55	-0.35	0.03	0.44	1.03	1.23	1.16	1.13	1.11				

monthly max hr	monthly min hr	monthly ave hr
6.20	-1.49	0.26
8/21/07	8/14/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
August-07
degC
50-10

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
8/1/07	0.31	0.15	0.20	0.19	0.06	0.11	0.16	1.24	1.81	-0.18	-0.68	-0.84	-0.89	-0.87	-0.83	-0.75	-0.75	-0.36	0.12	1.61	2.44	3.28	3.35	1.88	24	3.35	-0.89	0.45
8/2/07	3.23	3.85	3.11	2.92	2.74	1.98	3.50	2.17	-0.10	-0.68	-0.73	-0.71	-0.72	-0.73	-0.76	-0.70	-0.53	-0.35	-0.29	0.67	2.45	2.53	4.35	4.97	24	4.97	-0.76	1.34
8/3/07	5.37	3.35	3.42	2.43	2.29	1.96	1.02	-0.13	-0.65	-0.55	-0.62	-0.67	-0.81	-0.70	-0.66	-0.54	-0.56	-0.35	-0.24	-0.26	-0.32	-0.30	-0.22	-0.22	24	5.37	-0.81	0.50
8/4/07	-0.26	-0.27	-0.20	-0.23	-0.29	-0.32	-0.35	-0.38	-0.45	-0.53	-0.58	-0.55	-0.60	-0.58	-0.56	-0.58	-0.54	-0.54	-0.51	-0.02	0.35	0.17	-0.33	-0.33	24	0.35	-0.60	-0.35
8/5/07	-0.22	-0.22	-0.22	-0.22	-0.24	-0.25	-0.25	-0.30	-0.30	-0.42	-0.76	-0.65	-0.68	-0.77	-0.64	-0.56	-0.45	-0.39	0.37	1.01	0.96	0.58	1.01	1.37	24	1.37	-0.77	-0.09
8/6/07	2.13	1.71	0.78	0.12	-0.14	-0.15	-0.20	-0.46	-0.46	-0.42	-0.30	-0.47	-0.65	-0.56	-0.63	-0.66	-0.65	-0.54	-0.49	0.09	1.12	2.19	2.11	2.52	24	2.52	-0.66	0.25
8/7/07	3.24	3.14	1.01	0.93	1.17	1.83	3.06	1.47	-0.26	-0.53	-0.63	-0.59	-0.65	-0.86	-0.84	-0.81	-0.53	-0.40	-0.03	0.63	0.75	0.74	0.31	0.04	24	3.24	-0.86	0.51
8/8/07	0.10	0.27	1.44	0.97	0.75	0.73	-0.07	-0.54	-0.62	-0.60	-0.75	-0.57	-0.67	-0.87	-0.64	-0.43	-0.23	0.19	0.21	0.75	2.05	1.98	2.46	3.26	24	3.26	-0.87	0.38
8/9/07	3.25	2.23	1.67	1.86	2.58	4.14	2.80	0.31	-0.52	-0.49	-0.56	-0.70	-0.62	-0.57	-0.55	-0.40	-0.37	-0.27	-0.15	0.72	2.04	1.21	0.99	1.90	24	4.14	-0.70	0.85
8/10/07	2.70	1.91	1.00	0.87	0.97	0.64	0.27	-0.33	-0.11	-0.82	-1.00	-1.01	-1.09	-1.19	-1.09	-1.00	-0.84	-0.65	-0.39	-0.04	0.22	-0.03	0.29	0.03	24	2.70	-1.19	-0.03
8/11/07	-0.05	0.14	0.45	1.58	1.56	0.57	-0.26	-0.54	-0.72	-0.79	-0.73	-0.79	-0.85	-0.87	-0.84	-0.64	-0.53	-0.35	-0.02	0.89	1.46	1.42	1.46	1.49	24	1.58	-0.87	0.13
8/12/07	0.49	1.08	0.66	-0.01	-0.10	-0.10	-0.22	-0.38	-0.52	-0.62	-0.98	-0.78	-0.61	-0.74	-0.89	-0.92	-0.85	-0.64	-0.34	0.25	0.62	0.46	0.68	0.58	24	1.08	-0.98	-0.16
8/13/07	0.55	0.41	0.28	0.19	0.05	-0.08	-0.21	-0.55	-0.84	-0.97	-1.12	-1.03	-0.69	-0.53	-0.20	0.10	0.31	0.59	0.70	1.33	0.90	0.34	0.51	0.30	24	1.33	-1.12	0.01
8/14/07	1.99	3.09	2.94	1.31	0.72	0.23	-0.14	-0.24	-0.28	-0.44	-0.69	-0.83	-0.85	-0.79	-0.45	-0.67	-0.42	-0.17	-0.03	0.26	0.54	0.46	0.35	0.33	24	3.09	-0.85	0.26
8/15/07	0.38	0.51	0.33	-0.17	-0.25	-0.36	-0.40	-0.28	-0.39	-1.21	-0.85	-0.83	-0.78	-0.71	-0.64	-0.57	-0.44	0.05	0.67	1.78	2.48	1.40	1.01	0.96	24	2.48	-1.21	0.07
8/16/07	0.56	0.66	1.94	2.57	1.68	0.11	-0.27	-0.48	-0.59	-0.65	-0.62	-0.72	-0.68	-0.69	-0.59	-0.55	-0.40	-0.38	0.13	1.82	2.95	3.00	2.31	1.16	24	3.00	-0.72	0.51
8/17/07	0.92	0.47	0.12	0.60	0.47	0.10	0.46	-0.02	0.15	-0.03	-0.32	-0.53	-0.45	-0.56	-0.71	-0.69	-0.74	-0.37	-0.15	-0.16	-0.17	-0.20	-0.22	-0.17	24	0.92	-0.74	-0.09
8/18/07	-0.19	-0.29	-0.26	-0.21	-0.27	-0.28	-0.28	-0.22	-0.22	-0.28	-0.33	-0.33	-0.44	-0.47	-0.36	-0.42	-0.51	-0.36	-0.25	-0.23	-0.21	-0.20	-0.21	-0.23	24	-0.19	-0.51	-0.29
8/19/07	-0.23	-0.24	-0.25	-0.25	-0.25	-0.24	-0.25	-0.28	-0.31	-0.43	-0.43	-0.50	-0.51	-0.79	-0.82	-0.64	-0.56	-0.49	-0.40	-0.29	-0.31	-0.23	-0.22	-0.22	24	-0.22	-0.82	-0.38
8/20/07	-0.22	-0.22	-0.23	-0.23	-0.13	-0.11	-0.23	-0.37	-0.61	-0.68	-0.81	-0.75	-0.44	-0.58	-0.50	-0.54	-0.34	0.07	0.34	0.44	2.88	2.61	2.99	1.70	24	2.99	-0.81	0.17
8/21/07	3.03	4.69	5.05	4.55	5.25	5.27	3.96	5.06	3.10	0.60	0.76	-0.93	-1.00	-0.93	-0.75	-0.60	-0.59	-0.38	0.13	1.34	1.97	2.63	3.03	3.44	24	5.27	-1.00	2.03
8/22/07	3.52	3.85	4.20	3.68	4.60	5.64	2.47	0.64	0.48	-0.06	-0.35	-0.61	-0.45	-0.30	-0.30	0.15	-0.41	0.17	0.60	1.51	2.58	2.73	2.51	2.26	24	5.64	-0.61	1.63
8/23/07	2.10	1.22	1.46	0.96	0.37	0.17	-0.02	-0.23	-0.33	-0.25	-0.65	-0.91	-0.94	-0.89	-1.03	-0.77	-0.45	-0.02	0.12	0.20	1.36	0.69	0.83	2.22	24	2.22	-1.03	0.22
8/24/07	2.40	3.16	0.94	1.05	1.02	0.94	0.87	-0.24	-0.59	-0.61	-0.69	-0.73	-0.53	-0.45	-0.25	0.30	-0.04	-0.37	-0.33	-0.25	-0.24	-0.23	-0.27	-0.28	24	3.16	-0.73	0.19
8/25/07	-0.27	-0.29	-0.28	0.02	0.41	0.18	0.32	-0.01	-0.53	-0.64	-0.62	-0.68	-0.71	-0.91	-0.87	-0.89	-0.87	-0.67	-0.07	2.00	3.11	1.47	0.78	0.66	24	3.11	-0.91	0.03
8/26/07	0.51	0.49	0.60	0.27	0.18	0.11	-0.02	-0.45	-0.72	-0.82	-1.02	-1.01	-1.09	-1.09	-1.06	-0.98	-0.80	-0.58	-0.04	0.57	0.54	0.42	0.30	0.28	24	0.60	-1.09	-0.23
8/27/07	0.28	0.01	-0.02	0.17	-0.11	-0.17	-0.17	-0.19	-0.22	-0.35	-0.41	-0.37	-0.39	-0.44	-0.37	-0.43	-0.66	-0.61	-0.40	-0.30	-0.25	-0.23	-0.25	-0.23	24	0.28	-0.66	-0.25
8/28/07	-0.25	-0.24	-0.27	-0.25	-0.26	-0.25	-0.26	-0.28	-0.36	-0.43	-0.53	-0.42	-0.42	-2.13	-0.46	-0.18	-0.16	-0.19	-0.18	0.20	1.14	1.52	1.40	1.30	24	1.52	-2.13	-0.08
8/29/07	2.15	1.40	0.89	2.45	2.89	2.77	2.22	0.02	-0.56	-0.76	-0.85	-0.70	-0.72	-0.63	-0.52	-0.57	-0.49	-0.51	0.00	1.69	3.12	3.42	2.78	2.73	24	3.42	-0.85	0.93
8/30/07	2.82	3.13	2.72	0.92	0.60	0.40	0.30	-0.23	-0.70	-0.82	-1.03	-1.10	-1.12	-1.09	-1.10	-0.94	-0.81	-0.58	0.02	1.06	1.14	1.35	2.07	2.46	24	3.13	-1.12	0.39
8/31/07	2.14	2.04	1.51	1.71	1.85	1.60	1.45	-0.06	-0.66	-0.74	-0.82	-1.00	-1.09	-1.10	-1.07	-0.92	-0.81	-0.53	-0.12	0.15	0.11	0.11	0.22	0.43	24	2.14	-1.10	0.18
hr max	5.37	4.69	5.05	4.55	5.25	5.64	3.96	5.06	3.10	0.60	0.76	-0.33	-0.39	-0.30	-0.20	0.30	0.31	0.59	0.70	2.00	3.12	3.42	4.35	4.97				
hr min	-0.27	-0.29	-0.28	-0.25	-0.29	-0.36	-0.40	-0.55	-0.84	-1.21	-1.12	-1.10	-1.12	-2.13	-1.10	-1.00	-0.87	-0.67	-0.51	-0.30	-0.32	-0.30	-0.33	-0.33				
average	1.37	1.33	1.13	0.99	0.97	0.88	0.62	0.12	-0.23	-0.52	-0.64	-0.72	-0.71	-0.79	-0.68	-0.57	-0.52	-0.32	-0.03	0.63	1.22	1.14	1.17	1.18				

monthly max hr	monthly min hr	monthly ave hr
5.64	-2.13	0.29
8/22/07	8/28/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	744
possible hours	744
data capture	*100.0%*

Basin Electric - Gettysburg S.D. Monitoring Program
August-07
degC
100-50

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
8/1/07	0.00	-0.09	0.11	0.50	0.27	0.60	0.34	0.49	0.31	-0.27	-0.55	-0.62	-0.60	-0.61	-0.60	-0.60	-0.60	-0.54	-0.34	-0.02	0.29	0.69	0.72	1.31
8/2/07	0.60	0.26	0.63	0.97	1.30	0.68	0.61	0.46	-0.05	-0.51	-0.63	-0.63	-0.64	-0.60	-0.54	-0.62	-0.56	-0.51	-0.49	-0.34	-0.31	0.75	-0.10	0.56
8/3/07	0.13	1.23	1.24	1.16	0.63	0.42	0.99	0.75	-0.45	-0.49	-0.51	-0.54	-0.59	-0.55	-0.53	-0.46	-0.43	-0.34	-0.32	-0.34	-0.36	-0.35	-0.32	-0.35
8/4/07	-0.37	-0.38	-0.36	-0.40	-0.42	-0.32	-0.31	-0.30	-0.33	-0.41	-0.49	-0.56	-0.53	-0.54	-0.53	-0.54	-0.54	-0.52	-0.51	-0.44	-0.44	-0.43	-0.47	-0.32
8/5/07	-0.26	-0.26	-0.25	-0.23	-0.27	0.43	0.24	0.28	-0.18	-0.21	-0.45	-0.65	-0.64	-0.58	-0.57	-0.57	-0.56	-0.54	-0.39	-0.08	0.56	0.67	0.89	0.83
8/6/07	0.45	0.82	0.83	0.27	-0.16	-0.16	-0.21	-0.33	-0.46	-0.42	-0.28	-0.39	-0.56	-0.55	-0.62	-0.58	-0.58	-0.53	-0.55	-0.40	-0.21	-0.15	0.97	0.99
8/7/07	0.37	0.80	0.71	0.49	1.09	1.83	2.31	2.24	0.53	-0.47	-0.57	-0.59	-0.55	-0.61	-0.60	-0.57	-0.53	-0.50	-0.19	0.43	1.01	0.69	0.50	0.07
8/8/07	0.13	-0.12	-0.25	0.24	0.56	0.79	0.39	-0.43	-0.52	-0.52	-0.55	-0.50	-0.55	-0.62	-0.58	-0.53	-0.54	-0.41	-0.37	-0.17	0.11	0.20	0.34	1.68
8/9/07	1.35	1.50	1.76	2.35	3.24	2.04	1.87	1.38	0.12	-0.51	-0.53	-0.60	-0.61	-0.56	-0.54	-0.56	-0.55	-0.50	-0.37	0.27	1.05	1.53	1.30	1.45
8/10/07	3.51	3.37	1.52	0.69	1.31	0.68	0.58	-0.07	-0.04	-0.55	-0.62	-0.68	-0.70	-0.67	-0.66	-0.65	-0.61	-0.55	-0.38	-0.19	-0.11	0.23	0.91	-0.02
8/11/07	0.12	0.88	0.72	0.91	0.53	0.76	-0.38	-0.52	-0.58	-0.59	-0.65	-0.61	-0.59	-0.58	-0.57	-0.55	-0.54	-0.52	-0.43	-0.10	0.57	1.00	1.03	0.47
8/12/07	0.05	0.42	0.53	-0.13	-0.27	-0.23	-0.29	-0.42	-0.50	-0.54	-0.67	-0.67	-0.60	-0.62	-0.61	-0.65	-0.65	-0.60	-0.46	-0.09	0.29	0.59	0.89	1.07
8/13/07	1.28	0.91	0.78	0.72	0.81	0.52	0.05	-0.50	-0.55	-0.62	-0.69	-0.64	-0.58	-0.53	-0.47	-0.46	-0.44	-0.28	-0.18	0.12	0.24	0.08	0.11	-0.06
8/14/07	1.55	1.67	1.05	1.67	1.06	0.21	-0.24	-0.41	-0.45	-0.50	-0.62	-0.61	-0.63	-0.58	-0.52	-0.57	-0.59	-0.46	-0.43	-0.28	-0.08	0.28	0.54	0.57
8/15/07	0.54	1.01	0.80	0.37	0.57	-0.10	-0.21	-0.03	-0.03	-0.15	-0.55	-0.57	-0.63	-0.57	-0.59	-0.56	-0.53	-0.47	-0.39	-0.20	0.60	0.39	0.48	1.06
8/16/07	0.91	0.77	1.42	1.82	0.96	-0.31	-0.36	-0.45	-0.48	-0.49	-0.52	-0.58	-0.57	-0.56	-0.57	-0.57	-0.55	-0.53	-0.43	-0.13	-0.16	0.31	1.76	2.03
8/17/07	1.95	1.45	0.29	1.42	1.43	1.36	1.47	0.18	0.11	-0.04	-0.36	-0.58	-0.50	-0.45	-0.69	-0.74	-0.61	-0.53	-0.43	-0.37	-0.33	-0.37	-0.31	-0.18
8/18/07	-0.26	-0.29	-0.21	-0.05	-0.23	-0.37	-0.30	-0.27	-0.28	-0.28	-0.29	-0.30	-0.30	-0.33	-0.30	-0.29	-0.40	-0.31	-0.28	-0.28	-0.27	-0.26	-0.27	-0.26
8/19/07	-0.26	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.28	-0.29	-0.28	-0.29	-0.30	-0.31	-0.37	-0.49	-0.53	-0.62	-0.59	-0.47	-0.32	-0.31	-0.30	-0.29	-0.29
8/20/07	-0.29	-0.28	-0.29	-0.27	1.00	-0.04	-0.22	-0.30	-0.33	-0.58	-1.06	-0.61	-0.51	-0.53	-0.52	-0.50	-0.51	-0.44	-0.46	-0.30	-0.13	0.09	0.59	1.36
8/21/07	1.49	0.43	0.19	0.13	0.19	1.22	0.55	0.52	1.62	0.66	0.72	-0.33	-0.60	-0.62	-0.61	-0.58	-0.57	-0.51	-0.42	-0.24	0.26	0.28	0.57	1.27
8/22/07	1.16	1.23	0.84	2.22	2.46	1.30	1.95	2.02	1.21	0.28	-0.09	-0.34	-0.47	-0.48	-0.46	-0.12	-0.46	-0.02	0.59	0.57	0.15	0.66	1.37	1.10
8/23/07	0.45	1.28	0.89	-0.13	-0.28	-0.08	-0.18	-0.38	-0.40	-0.30	-0.52	-0.57	-0.62	-0.62	-0.58	-0.58	-0.51	-0.46	-0.40	-0.28	-0.29	-0.36	-0.18	0.22
8/24/07	0.37	1.18	0.65	1.19	1.02	1.04	0.78	0.06	-0.48	-0.64	-0.56	-0.59	-0.53	-0.46	-0.48	-0.14	-0.01	-0.41	-0.44	-0.40	-0.39	-0.36	-0.37	-0.27
8/25/07	-0.31	-0.09	0.01	0.17	-0.06	0.14	0.21	-0.12	-0.48	-0.54	-0.56	-0.58	-0.58	-0.58	-0.61	-0.57	-0.56	-0.56	-0.36	-0.12	-0.06	1.63	1.99	2.16
8/26/07	1.50	1.51	0.91	0.34	0.27	0.22	0.05	-0.34	-0.58	-0.62	-0.68	-0.67	-0.69	-0.62	-0.63	-0.61	-0.57	-0.49	-0.11	0.46	0.52	0.62	0.82	0.77
8/27/07	1.03	0.51	0.56	1.41	-0.16	-0.23	-0.23	-0.24	-0.25	-0.29	-0.44	-0.46	-0.43	-0.36	-0.28	-0.33	-0.37	-0.39	-0.44	-0.28	-0.26	-0.26	-0.26	-0.26
8/28/07	-0.27	-0.27	-0.25	-0.25	-0.26	-0.27	-0.28	-0.28	-0.31	-0.32	-0.32	-0.33	-0.38	0.81	-0.52	-0.41	-0.25	-0.37	-0.40	-0.31	-0.20	-0.09	-0.04	-0.03
8/29/07	0.16	0.08	0.09	0.23	0.26	0.24	0.72	1.16	-0.46	-0.58	-0.63	-0.58	-0.53	-0.58	-0.54	-0.53	-0.55	-0.54	-0.40	-0.12	-0.26	0.16	0.83	0.99
8/30/07	1.43	1.69	1.89	2.20	1.42	1.75	1.10	0.13	-0.49	-0.64	-0.66	-0.64	-0.71	-0.62	-0.63	-0.61	-0.58	-0.48	-0.11	0.56	0.95	0.76	0.50	0.39
8/31/07	0.27	0.25	0.49	0.87	1.00	1.49	0.90	0.84	-0.46	-0.57	-0.56	-0.67	-0.72	-0.68	-0.63	-0.62	-0.61	-0.48	-0.22	0.01	0.03	0.01	0.47	0.81
hr max	3.51	3.37	1.89	2.35	3.24	2.04	2.31	2.24	1.62	0.66	0.72	-0.30	-0.30	0.81	-0.28	-0.12	-0.01	-0.02	0.59	0.57	1.05	1.63	1.99	2.16
hr min	-0.37	-0.38	-0.36	-0.40	-0.42	-0.37	-0.38	-0.52	-0.58	-0.64	-1.06	-0.68	-0.72	-0.68	-0.69	-0.74	-0.65	-0.60	-0.55	-0.44	-0.44	-0.43	-0.47	-0.35
average	0.61	0.68	0.55	0.66	0.61	0.49	0.38	0.16	-0.18	-0.39	-0.49	-0.55	-0.56	-0.51	-0.55	-0.52	-0.52	-0.46	-0.34	-0.11	0.08	0.28	0.48	0.62

valid hr count	daily max hr	daily min hr	daily ave hr
24	1.31	-0.62	0.01
24	1.30	-0.64	0.01
24	1.24	-0.59	-0.02
24	-0.30	-0.56	-0.44
24	0.89	-0.65	-0.12
24	0.99	-0.62	-0.12
24	2.31	-0.61	0.33
24	1.68	-0.62	-0.09
24	3.24	-0.61	0.66
24	3.51	-0.70	0.26
24	1.03	-0.65	-0.01
24	1.07	-0.67	-0.17
24	1.28	-0.69	-0.02
24	1.67	-0.63	0.07
24	1.06	-0.63	0.01
24	2.03	-0.58	0.11
24	1.95	-0.74	0.13
24	-0.05	-0.40	-0.28
24	-0.26	-0.62	-0.34
24	1.36	-1.06	-0.21
24	1.62	-0.62	0.23
24	2.46	-0.48	0.69
24	1.28	-0.62	-0.20
24	1.19	-0.64	-0.01
24	2.16	-0.61	-0.02
24	1.51	-0.69	0.06
24	1.41	-0.46	-0.11
24	0.81	-0.52	-0.23
24	1.16	-0.63	-0.06
24	2.20	-0.71	0.36
24	1.49	-0.72	0.05

monthly max hr	monthly min hr	monthly ave hr
3.51	-1.06	0.02
8/10/07	8/20/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
August-07
ppb
SO2

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
8/1/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
8/2/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
8/3/07	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	0.1	0.1	0.1		0.1	0.1	0.1	0.1	0.1		22	0.1	0.1	0.1
8/4/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
8/5/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
8/6/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
8/7/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1		21	0.1	0.1	0.1
8/8/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
8/9/07	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	0.1	0.1	0.1	0.1		18	0.1	0.1	0.1
8/10/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
8/11/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1		21	0.1	0.1	0.1
8/12/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
8/13/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
8/14/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1		21	0.1	0.1	0.1
8/15/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
8/16/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
8/17/07	0.1	0.1	0.1	0.1	0.1	0.1	1.1	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	0.1	0.1	0.1		23	1.1	0.1	0.1
8/18/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
8/19/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
8/20/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
8/21/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1		21	0.1	0.1	0.1
8/22/07	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	0.1	0.1	0.1		0.1	0.1	0.1	0.1	0.1		22	0.1	0.1	0.1
8/23/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
8/24/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
8/25/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
8/26/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
8/27/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
8/28/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1		21	0.1	0.1	0.1
8/29/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
8/30/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
8/31/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		23	0.1	0.1	0.1
hr max	0.1	0.1	0.1	0.1	0.1	0.1	1.1	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	0.1	0.1	0.1	0.0				
hr min	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0				
average	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
1.1	0.1	0.1
8/17/07	8/1/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	696
possible hours	744
data capture	93.5%

Max 3 hr ave.	0.4	8/17/07 6:00
Max 24 hr ave.	0.1	8/17/07 6:00

Basin Electric - Gettysburg S.D. Monitoring Program
August-07
ppb
NOx

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
8/1/07	1.8	1.8	1.9	2.1	2.3	2.3	2.7	3.2	4.6	5.2	2.3	1.9	1.9	1.9	2.0	1.9	1.9	2.3	3.5	5.2	7.7	9.4	6.7		23	9.4	1.8	3.3
8/2/07	6.0	4.4	4.1	5.9	6.8	6.0	5.3	4.2	2.8	2.3	1.9	1.6	1.6	1.7	1.7	1.8	1.8	2.0	2.2	8.2	6.8	4.7	3.0		23	8.2	1.6	3.8
8/3/07	3.2	2.8	3.0	2.8	2.8	2.7	2.4	2.3	2.0	1.8	1.8	1.9	1.9	1.8	1.9	2.1	2.7		2.8	2.9	2.4	1.8	2.0		22	3.2	1.8	2.4
8/4/07	1.5	1.1	1.0	1.2	1.6	1.8	1.8	1.8	2.1	2.6	2.7	2.6	2.0	1.5	1.3	1.3	1.4	1.5	1.7	2.1	2.4	2.6	2.3		23	2.7	1.0	1.8
8/5/07	1.5	1.4	1.3	1.4	1.3	1.4	1.5	1.7	1.8	1.8	1.7	1.5	1.3	1.3	1.2	1.3	1.4	1.3	1.8	2.8	3.1	3.0	2.8		23	3.1	1.2	1.7
8/6/07	2.6	2.4	2.5	2.8	3.4	3.3	2.2	1.8	1.9	2.4	2.6	2.1	1.5	1.7	1.8	1.8	1.8	1.7	1.8	2.1	2.4	2.2	2.8		23	3.4	1.5	2.2
8/7/07	2.6			2.5	2.9	3.3	5.2	3.5	2.3	1.7	1.5	1.3	1.4	1.5	1.4	1.3	1.4	1.5	1.8	2.1	2.3	2.3	1.9		21	5.2	1.3	2.2
8/8/07	1.8	2.1	2.3	2.3	2.1	1.8	1.8	1.9	1.8	1.3	1.3	1.3	1.4	1.6	2.3	2.6	2.6	2.7	2.9	3.0	4.2	3.4	3.3		23	4.2	1.3	2.3
8/9/07	2.7	2.8	3.0	3.1	2.9	3.0	3.1	3.1	2.7	2.3	2.3			2.6	3.2				2.8	2.9	2.9	2.7	2.8		18	3.2	2.3	2.8
8/10/07	2.3	2.3	2.4	2.4	2.1	2.3	2.7	2.6	2.5	2.2	2.2	2.3	2.3	2.6	2.8	2.6	2.4	2.8	2.8	3.0	3.0	2.6	2.5		23	3.0	2.1	2.5
8/11/07	2.7	2.8	2.9	3.3	3.0	3.3	2.4	2.1	2.2	1.8			2.2	2.4	2.5	2.7	3.0	2.9	3.1	3.1	2.9	3.0	3.0		21	3.3	1.8	2.7
8/12/07	1.8	2.1	2.3	2.1	1.8	1.8	1.8	1.8	1.7	1.4	1.3	1.3	1.3	1.5	1.7	1.8	1.8	1.9	2.1	2.2	2.3	2.2	2.1		23	2.3	1.3	1.8
8/13/07	1.9	2.1	2.0	2.1	2.2	2.1	2.3	2.2	2.4	2.3	2.3	2.3	2.5	2.7	2.8	2.8	2.9	3.2	3.4	3.4	3.4	4.4	4.1		23	4.4	1.9	2.7
8/14/07	3.3			2.2	2.6	2.1	1.8	1.8	1.8	1.6	1.7	1.8	1.8	1.8	1.8	1.7	1.9	2.1	2.2	2.2	3.1	2.0	2.0		21	3.3	1.6	2.1
8/15/07	2.4	2.4	2.3	2.4	2.4	2.6	2.6	2.5	2.3	1.8	2.0	1.9	1.8	1.8	1.9	2.0	2.1	2.4	2.4	3.1	3.6	2.8	2.3		23	3.6	1.8	2.3
8/16/07	2.0	1.9	2.1	2.2	2.3	1.7	1.5	1.5	1.5	1.5	1.4	1.3	1.3	1.4	1.4	1.7	1.8	1.9	2.0	2.2	1.9	1.8	1.8		23	2.3	1.3	1.7
8/17/07	1.3	1.1	1.1	1.6	2.3	3.2	4.1	3.2	3.4	4.4	3.8	3.1	2.6	2.3	2.3	2.3	2.5	2.1	2.5	2.3	2.3	2.6	2.6		23	4.4	1.1	2.6
8/18/07	2.9	2.8	2.4	2.1	1.8	1.9	1.9	2.0	2.0	2.2	2.3	2.3	2.2	2.3	2.3	2.3	2.2	2.2	2.3	2.2	2.2	2.1	2.3		23	2.9	1.8	2.2
8/19/07	1.8	2.2	2.3	2.0	2.3	2.5	2.7	2.6	2.7	2.6	2.3	2.2	2.3	2.3	2.3	2.2	2.4	2.3	2.2	2.2	2.3	2.5	2.9		23	2.9	1.8	2.4
8/20/07	2.3	2.3	1.9	1.9	1.9	1.9	2.1	2.2	2.1	2.1	1.9	1.9	1.8	1.8	1.9	2.1	2.3	2.3	2.3	2.9	2.6	2.4	2.4		23	2.9	1.8	2.1
8/21/07	2.1			2.0	2.5	2.6	2.3	2.6	3.2	2.9	2.3	1.8	1.6	1.8	1.8	1.9	2.0	2.1	2.3	2.9	2.6	2.0	1.8		21	3.2	1.6	2.2
8/22/07	1.7	1.7	1.8	1.7	1.8	1.8	1.8	1.9	1.9	1.9	1.8	1.7	1.7	1.7	1.8	1.8	1.6		2.1	2.3	2.0	2.5	3.5		22	3.5	1.6	1.9
8/23/07	2.1	1.9	1.9	1.8	1.9	1.6	1.8	2.2	2.4	1.8	1.6	1.3	1.3	1.4	1.7	1.9	1.8	2.1	2.3	2.4	3.5	1.6	1.9		23	3.5	1.3	1.9
8/24/07	1.5	2.3	3.0	2.5	1.8	1.8	1.7	1.5	1.4	1.3	1.4	1.3	1.4	1.6	1.9	2.8	1.5	1.4	1.3	1.4	1.3	1.3	1.3		23	3.0	1.3	1.7
8/25/07	1.5	1.7	1.5	1.4	1.7	2.0	2.0	1.9	1.3	1.2	1.2	1.2	1.0	1.1	1.3	1.3	1.4	1.5	1.5	1.7	1.5	1.5	1.7		23	2.0	1.0	1.5
8/26/07	1.5	1.8	1.8	1.7	1.9	1.8	1.8	1.8	1.8	2.0	2.1	2.2	2.3	2.5	2.6	2.7	2.8	2.7	2.8	2.8	2.4	2.4	2.5		23	2.8	1.5	2.2
8/27/07	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.3	2.3	2.5	2.4	2.3	2.4	2.3	1.8	1.8	1.9	2.0	1.9	1.8	1.8	1.8		23	2.5	1.8	2.2
8/28/07	1.6			1.7	1.7	1.8	1.7	1.6	1.6	1.4	1.3	1.4	1.4	1.2	1.2	1.2	1.5	1.3	1.3	1.5	1.8	2.4	2.2		21	2.4	1.2	1.6
8/29/07	2.0	2.0	1.6	1.3	1.4	1.5	1.8	2.3	1.8	1.3	1.6	2.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.1	1.8	1.8	1.9		23	2.3	1.3	1.8
8/30/07	1.8	1.8	1.8	1.8	1.8	1.7	1.6	1.5	1.4	1.3	1.5	1.8	1.9	1.8	1.9	2.0	2.1	2.3	2.3	2.1	2.0	1.9	1.8		23	2.3	1.3	1.8
8/31/07	1.8	1.7	1.7	1.8	1.8	1.9	2.3	2.0	1.9	1.8	1.8	1.8	1.8	1.8	1.9	2.2	2.0	2.0	2.2	2.1	1.8	1.9	1.9		23	2.3	1.7	1.9
hr max	6.0	4.4	4.1	5.9	6.8	6.0	5.3	4.2	4.6	5.2	3.8	3.1	2.6	2.7	3.2	2.8	3.0	3.2	3.5	8.2	7.7	9.4	6.7	0.0				
hr min	1.3	1.1	1.0	1.2	1.3	1.4	1.5	1.5	1.3	1.2	1.2	1.2	1.0	1.1	1.2	1.2	1.4	1.3	1.3	1.4	1.3	1.3	1.3	0.0				
average	2.2	2.1	2.2	2.2	2.3	2.3	2.4	2.2	2.2	2.1	1.9	1.8	1.8	1.9	2.0	2.0	2.0	2.1	2.3	2.7	2.8	2.6	2.5	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
9.40	1.00	2.20
8/1/07	8/4/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	696
possible hours	744
data capture	93.5%

Basin Electric - Gettysburg S.D. Monitoring Program
August-07
ppb
NO

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
8/1/07	0.5	0.4	0.5	0.4	0.3	0.3	0.4	0.3	0.6	1.3	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.6	0.3	0.5	0.3		23	1.3	0.3	0.6
8/2/07	0.3	0.2	0.2	0.6	0.9	0.7	1.1	1.2	0.7	0.7	0.5	0.3	0.3	0.5	0.7	0.7	0.7	0.7	0.8	1.1	0.5	0.3	0.2		23	1.2	0.2	0.6
8/3/07	0.2	0.2	0.3	0.3	0.2	0.3	0.3	0.4	0.3	0.2	0.3	0.4	0.5	0.3	0.3	0.5	0.4		0.2	0.2	0.2	0.3	0.3		22	0.5	0.2	0.3
8/4/07	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.6	0.7	0.7	0.6	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.3		23	0.7	0.2	0.3
8/5/07	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.4	0.4	0.5	0.5	0.4	0.3	0.3	0.3	0.6	0.6	0.5	0.6	0.5	0.4	0.2	0.2		23	0.6	0.2	0.4
8/6/07	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.6	0.5	0.3	0.3	0.4	0.5	0.6	0.6	0.6	0.4	0.3	0.2	0.2		23	0.6	0.2	0.3
8/7/07	0.2			0.2	0.2	0.2	1.0	0.8	0.5	0.2	0.3	0.3	0.4	0.6	0.5	0.6	0.5	0.6	0.5	0.3	0.3	0.3	0.2		21	1.0	0.2	0.4
8/8/07	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.3	0.2	0.2	0.3	0.6	1.3	1.7	1.7	1.7	1.7	1.6	1.3	1.1	0.8		23	1.7	0.2	0.7
8/9/07	0.7	0.8	0.7	0.8	0.7	0.7	0.9	1.0	1.2	1.2	1.2			1.6	1.9				1.7	1.7	1.3	1.2	1.1		18	1.9	0.7	1.1
8/10/07	0.8	0.7	0.7	0.7	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.2	1.3	1.5	1.6	1.6	1.6	1.7	1.7	1.6	1.4	1.2	0.8		23	1.7	0.6	1.1
8/11/07	0.8	0.9	0.7	0.8	0.8	0.8	0.8	0.8	0.9	0.8			1.2	1.5	1.7	1.7	1.8	1.7	1.5	1.3	1.0	0.7	0.7		21	1.8	0.7	1.1
8/12/07	0.3	0.5	0.7	0.7	0.7	0.7	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.8	1.0	1.1	1.2	1.3	1.2	1.1	0.9	0.7	0.5		23	1.3	0.3	0.8
8/13/07	0.3	0.4	0.4	0.5	0.4	0.3	0.6	0.7	1.0	1.1	1.2	1.2	1.3	1.5	1.7	1.7	1.8	1.8	1.8	1.7	1.3	1.2	1.2		23	1.8	0.3	1.1
8/14/07	0.7			0.6	0.6	0.6	0.5	0.7	0.6	0.6	0.7	0.7	1.0	0.9	0.9	0.9	1.1	1.2	1.3	1.1	0.7	0.7	0.6		21	1.3	0.5	0.8
8/15/07	0.5	0.5	0.7	0.6	0.6	0.7	0.7	0.6	0.7	0.7	0.8	0.9	0.9	1.0	1.2	1.2	1.3	1.3	1.2	1.2	0.8	0.7	0.4		23	1.3	0.4	0.8
8/16/07	0.3	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.3	0.4	0.5	0.4	0.7	0.7	0.8	0.8	1.0	0.9	0.8	0.8	0.5	0.2	0.2		23	1.0	0.2	0.5
8/17/07	0.2	0.2	0.3	0.3	0.3	0.4	1.4	0.7	0.7	0.6	1.1	1.1	0.7	0.7	0.8	0.8	0.8	0.8	0.9	0.7	0.4	0.4	0.6		23	1.4	0.2	0.6
8/18/07	0.7	0.7	0.7	0.5	0.4	0.5	0.8	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.7	0.7	0.8	0.7	0.7	0.5	0.5	0.4	0.5		23	0.8	0.4	0.6
8/19/07	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.7	0.9	0.8	0.9	0.9	1.1	0.7	0.7	0.7	0.7	0.6	0.4	0.3	0.4	0.4		23	1.1	0.3	0.6
8/20/07	0.3	0.3	0.3	0.3	0.5	0.5	0.7	0.8	0.8	0.7	0.8	0.7	0.7	0.7	0.9	1.2	1.2	1.2	1.2	0.9	0.7	0.6	0.5		23	1.2	0.3	0.7
8/21/07	0.3			0.6	0.7	0.7	0.7	1.0	1.2	0.9	0.7	0.7	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.1	0.7	0.5	0.4		21	1.2	0.3	0.8
8/22/07	0.5	0.5	0.5	0.4	0.6	0.6	0.7	0.5	0.4	0.5	0.6	0.7	0.7	0.8	0.7	0.8	0.8		0.8	0.7	0.4	0.3	0.2		22	0.8	0.2	0.6
8/23/07	0.5	0.5	0.5	0.5	0.5	0.3	0.6	0.7	0.7	0.7	0.8	0.7	0.6	0.8	1.2	1.2	1.2	1.2	0.9	0.7	0.6	0.3	0.4		23	1.2	0.3	0.7
8/24/07	0.5	0.7	0.7	0.7	0.7	0.5	0.6	0.6	0.7	0.6	0.6	0.6	0.8	0.7	0.9	1.1	0.5	0.6	0.5	0.5	0.4	0.6	0.7		23	1.1	0.4	0.6
8/25/07	0.6	0.7	0.6	0.5	0.6	0.7	0.7	0.7	0.6	0.5	0.4	0.4	0.4	0.3	0.6	0.7	0.7	0.9	0.8	0.7	0.5	0.5	0.6		23	0.9	0.3	0.6
8/26/07	0.5	0.7	0.7	0.6	0.7	0.6	0.7	0.7	0.8	0.8	1.1	1.1	1.3	1.6	1.7	1.8	1.8	1.7	1.7	1.4	1.2	1.0	1.0		23	1.8	0.5	1.1
8/27/07	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.8	0.8	1.0	1.0	0.9	1.1	1.2	1.1	0.8	0.7	0.7	0.8	0.7	0.7	0.7	0.7		23	1.2	0.7	0.9
8/28/07	0.7			0.6	0.7	0.6	0.7	0.6	0.8	0.7	0.7	0.6	0.7	0.7	0.4	0.3	0.3	0.3	0.3	0.5	0.5	0.7	0.7		21	0.8	0.3	0.6
8/29/07	0.8	0.7	0.7	0.5	0.5	0.5	0.6	1.0	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.9	0.8	0.7	0.4	0.6	0.7		23	1.0	0.4	0.7
8/30/07	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.7	0.7	0.6	0.7	0.9	1.1	1.2	1.2	1.2	1.3	1.4	1.3	0.9	0.8	0.7	0.7		23	1.4	0.6	0.9
8/31/07	0.6	0.5	0.4	0.5	0.5	0.5	0.7	0.7	0.8	0.8	0.8	0.8	1.0	1.2	1.2	1.3	1.2	1.2	1.3	1.0	0.7	0.7	0.8		23	1.3	0.4	0.8
hr max	0.9	0.9	0.9	0.8	0.9	0.8	1.4	1.2	1.2	1.3	1.2	1.2	1.3	1.6	1.9	1.8	1.8	1.8	1.8	1.7	1.4	1.2	1.2	0.0				
hr min	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.0				
average	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.9	0.9	1.0	1.0	1.0	1.0	0.9	0.7	0.6	0.5	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
1.9	0.2	0.7
8/9/07	8/7/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	696
possible hours	744
data capture	93.5%

Basin Electric - Gettysburg S.D. Monitoring Program
August-07
ppb
NO2

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
8/1/07	1.4	1.6	1.7	1.9	2.0	2.1	2.5	2.9	4.2	4.1	1.9	1.6	1.4	1.4	1.5	1.4	1.4	1.7	3.0	4.9	7.5	9.0	6.6		23	9.0	1.4	2.9
8/2/07	6.1	4.4	4.0	5.4	6.1	5.5	4.5	3.3	2.2	1.9	1.6	1.4	1.4	1.3	1.3	1.3	1.3	1.6	1.8	7.2	6.5	4.6	3.0		23	7.2	1.3	3.4
8/3/07	3.2	2.8	2.9	2.8	2.8	2.6	2.3	2.0	1.8	1.8	1.8	1.7	1.7	1.8	1.9	1.8	2.4		2.8	2.9	2.5	1.8	2.1		22	3.2	1.7	2.3
8/4/07	1.6	1.2	1.1	1.2	1.6	1.8	1.7	1.8	1.9	2.3	2.3	2.2	1.7	1.4	1.3	1.3	1.3	1.5	1.6	2.0	2.4	2.6	2.3		23	2.6	1.1	1.7
8/5/07	1.6	1.5	1.4	1.4	1.4	1.3	1.4	1.6	1.6	1.4	1.4	1.3	1.3	1.2	1.0	1.0	1.1	1.1	1.5	2.6	2.9	2.9	2.7		23	2.9	1.0	1.6
8/6/07	2.6	2.4	2.6	2.8	3.4	3.3	2.1	1.7	1.8	2.3	2.3	1.9	1.3	1.4	1.5	1.5	1.4	1.4	1.5	1.9	2.3	2.2	2.7		23	3.4	1.3	2.1
8/7/07	2.6			2.6	3.0	3.3	4.3	3.0	2.0	1.6	1.4	1.3	1.3	1.2	1.2	1.2	1.3	1.2	1.6	1.9	2.2	2.1	2.0		21	4.3	1.2	2.0
8/8/07	1.8	2.1	2.4	2.3	2.1	1.8	1.7	1.8	1.6	1.4	1.2	1.2	1.3	1.3	1.2	1.3	1.2	1.3	1.4	1.7	3.1	2.5	2.7		23	3.1	1.2	1.8
8/9/07	2.3	2.3	2.5	2.6	2.4	2.5	2.4	2.3	1.9	1.5	1.3			1.3	1.5				1.3	1.5	1.8	1.8	1.9		18	2.6	1.3	2.0
8/10/07	1.8	1.9	2.1	2.1	1.8	2.0	2.2	2.1	1.9	1.5	1.4	1.3	1.1	1.3	1.4	1.3	1.3	1.4	1.3	1.6	1.8	1.7	1.8		23	2.2	1.1	1.7
8/11/07	2.0	2.2	2.3	2.7	2.4	2.9	1.8	1.4	1.4	1.2			1.1	1.1	1.1	1.3	1.5	1.6	1.9	2.0	2.2	2.5	2.7		21	2.9	1.1	1.9
8/12/07	1.8	1.8	1.9	1.6	1.3	1.3	1.3	1.2	1.2	1.1	0.8	0.9	0.9	0.9	0.8	0.9	0.9	0.9	1.1	1.3	1.5	1.8	1.8		23	1.9	0.8	1.3
8/13/07	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.7	1.7	1.6	1.4	1.4	1.3	1.3	1.3	1.3	1.4	1.6	1.9	2.0	2.3	3.5	3.2		23	3.5	1.3	1.8
8/14/07	2.9			2.0	2.2	1.8	1.5	1.6	1.4	1.3	1.2	1.2	1.2	1.1	1.0	0.8	1.0	1.2	1.3	1.3	2.5	1.8	1.7		21	2.9	0.8	1.5
8/15/07	2.2	2.2	2.1	2.1	2.2	2.3	2.3	2.3	2.0	1.3	1.4	1.3	1.3	1.2	0.9	1.0	1.1	1.3	1.4	2.2	3.0	2.4	2.1		23	3.0	0.9	1.8
8/16/07	1.9	1.9	2.0	2.2	2.2	1.6	1.4	1.3	1.3	1.3	1.3	1.1	1.0	0.9	0.9	0.8	1.0	1.2	1.3	1.7	1.8	1.6	1.7		23	2.2	0.8	1.5
8/17/07	1.2	1.0	1.1	1.5	2.1	3.0	3.9	2.8	3.0	4.0	2.9	2.2	2.1	1.7	1.8	1.7	1.8	1.5	1.8	1.9	2.1	2.4	2.3		23	4.0	1.0	2.2
8/18/07	2.6	2.4	2.1	1.8	1.6	1.7	1.6	1.6	1.6	1.8	1.7	1.7	1.6	1.7	1.8	1.7	1.7	1.7	1.8	1.8	1.9	1.8	2.0		23	2.6	1.6	1.8
8/19/07	1.6	2.1	2.0	1.8	2.0	2.3	2.3	2.1	2.1	1.8	1.7	1.5	1.5	1.6	1.7	1.7	1.8	1.9	1.9	2.0	2.1	2.3	2.7		23	2.7	1.5	1.9
8/20/07	2.2	2.0	1.7	1.7	1.7	1.7	1.7	1.7	1.5	1.5	1.4	1.3	1.3	1.2	1.2	1.3	1.4	1.4	1.5	2.2	2.1	2.1	2.1		23	2.2	1.2	1.6
8/21/07	1.9			1.6	1.9	1.9	1.8	2.0	2.2	2.3	1.7	1.3	1.1	1.0	1.1	1.1	1.1	1.2	1.4	2.0	2.1	1.7	1.8		21	2.3	1.0	1.6
8/22/07	1.4	1.4	1.5	1.4	1.4	1.5	1.6	1.7	1.6	1.6	1.4	1.2	1.1	1.2	1.1	1.2	1.0		1.7	1.9	1.8	2.5	3.4		22	3.4	1.0	1.6
8/23/07	1.8	1.6	1.7	1.5	1.6	1.4	1.5	1.8	1.8	1.3	1.1	0.8	0.8	0.8	0.8	0.9	0.9	1.2	1.6	1.9	3.2	1.5	1.7		23	3.2	0.8	1.4
8/24/07	1.3	1.9	2.5	2.0	1.4	1.6	1.4	1.2	1.0	1.1	1.2	1.1	1.1	1.1	1.2	2.1	1.2	1.2	1.3	1.1	1.1	1.1	1.1		23	2.5	1.0	1.4
8/25/07	1.2	1.3	1.2	1.2	1.4	1.6	1.4	1.3	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9	0.8	0.9	1.2	1.3	1.3	1.3		23	1.6	0.8	1.1
8/26/07	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.3	1.3	1.3	1.3	1.2	1.3	1.2	1.2	1.3	1.2	1.3	1.4	1.6	1.6	1.8	1.8		23	1.8	1.2	1.4
8/27/07	1.7	1.6	1.6	1.6	1.7	1.7	1.4	1.5	1.5	1.6	1.8	1.6	1.5	1.6	1.3	1.3	1.3	1.4	1.5	1.5	1.4	1.4	1.3		23	1.8	1.3	1.5
8/28/07	1.3			1.4	1.3	1.3	1.3	1.3	1.1	1.0	1.1	1.1	1.1	0.9	0.8	1.1	1.3	1.2	1.2	1.3	1.6	2.0	1.6		21	2.0	0.8	1.3
8/29/07	1.4	1.3	1.2	1.1	1.3	1.3	1.5	1.4	1.1	0.9	1.2	1.5	1.3	1.3	1.3	1.2	1.2	1.2	1.3	1.7	1.6	1.6	1.5		23	1.7	0.9	1.3
8/30/07	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.1	1.1	1.0	1.1	1.0	1.0	1.0	0.9	1.0	0.9	1.3	1.4	1.5	1.4	1.4		23	1.5	0.9	1.2
8/31/07	1.3	1.4	1.5	1.4	1.5	1.7	1.9	1.5	1.4	1.3	1.3	1.2	1.1	1.0	1.0	1.0	1.1	1.2	1.4	1.4	1.3	1.4	1.4		23	1.9	1.0	1.3
hr max	6.1	4.4	4.0	5.4	6.1	5.5	4.5	3.3	4.2	4.1	2.9	2.2	2.1	1.8	1.9	2.1	2.4	1.9	3.0	7.2	7.5	9.0	6.6	0.0				
hr min	1.2	1.0	1.1	1.1	1.3	1.3	1.3	1.2	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.8	0.9	1.1	1.1	1.1	1.1	0.0				
average	2.0	1.9	1.9	1.9	2.0	2.0	2.0	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.2	1.3	1.3	1.3	1.6	2.1	2.4	2.3	2.2	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
9.0	0.8	1.7
8/1/07	8/12/07	

Validated by: Roger L. Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	696
possible hours	744
data capture	93.5%

Basin Electric - Gettysburg S.D. Monitoring Program
August-07
ppb
O3

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
8/1/07	37.7	37.8	35.8	32.7	29.4	26.4	22.7	24.8	17.4	16.8	31.5	40.1	42.4	41.8	41.7	41.9	41.9	41.8	36.1	28.0	22.5	15.1	16.6		23	42.4	15.1	31.4
8/2/07	19.9	25.0	26.1	21.3	13.3	16.5	16.1	19.4	25.5	30.9	36.1	39.3	41.9	43.9	45.9	47.5	48.6	47.5	48.5	31.1	30.5	33.6	35.0		23	48.6	13.3	32.3
8/3/07	27.6	26.8	25.4	29.4	31.2	33.2	33.2	34.1	35.8	36.3	36.2	36.6	38.0	36.4	37.7	36.7	30.8	28.1	28.3	29.8	31.7	38.1	38.7		23	38.7	25.4	33.0
8/4/07	38.1	40.9	39.2	36.0	31.3	29.2	29.2	29.9	29.7	27.6	28.4	29.5	32.2	32.6	35.0	35.9	35.2	33.0	32.3	26.9	23.1	19.3	25.6		23	40.9	19.3	31.3
8/5/07	27.2	26.0	25.8	24.1	22.1	22.1	20.8	18.9	20.4	22.1	26.3	31.8	37.6	42.2	46.3	48.8	49.4	49.8	43.5	35.8	34.1	30.3	25.3		23	49.8	18.9	31.8
8/6/07	18.7	18.7	18.2	14.9	13.1	12.4	18.2	22.4	21.9	19.0	16.6	18.5	31.1	29.5	29.9	32.5	34.7	34.0	29.6	24.1	16.4	17.3	18.7		23	34.7	12.4	22.2
8/7/07	23.8		35.5	15.7	14.7	15.9	10.0	22.4	35.8	46.0	50.6	53.9	53.7	54.1	55.4	54.0	51.1	50.0	45.7	40.2	39.2	38.3	39.5		22	55.4	10.0	38.4
8/8/07	43.5	35.9	27.6	25.7	25.7	27.9	29.3	27.1	31.6	33.0	35.7	35.1	35.2	40.3	43.9	46.9	48.7	54.0	57.1	46.7	37.3	40.0	37.1		23	57.1	25.7	37.6
8/9/07	24.2	26.1	22.0	18.0	17.3	14.6	13.6	15.9	24.0	34.1	45.0			58.9	59.0	58.9			52.6	50.0	46.5	45.9	41.4		19	59.0	13.6	35.2
8/10/07	33.1	31.2	33.1	35.4	36.7	33.6	31.2	33.7	37.3	45.0	49.7	52.8	55.2	53.5	52.1	52.6	54.7	52.2	49.6	45.1	41.3	53.8	51.2		23	55.2	31.2	44.1
8/11/07	30.8	26.1	25.5	21.9	27.6	20.7	37.6	40.4	40.8	44.3	49.2	49.6	49.9	50.5	52.7	56.3	58.1	55.6	54.1	46.3	39.1	34.4	30.0		23	58.1	20.7	40.9
8/12/07	20.5	17.8	15.2	15.7	15.7	15.3	15.3	15.1	15.7	16.3	19.6	23.8	26.1	28.4	33.0	37.0	39.3	38.7	37.4	34.6	30.9	20.9	19.3		23	39.3	15.1	24.0
8/13/07	22.8	22.0	22.3	20.0	17.3	16.8	17.9	21.5	26.9	32.6	35.8	37.5	38.5	40.5	41.4	44.0	55.8	59.8	50.5	44.5	42.3	36.9	32.7		23	59.6	16.8	33.9
8/14/07	18.7		35.8	18.9	16.6	19.4	22.9	20.3	18.7	19.2	23.8	28.1	29.0	29.3	36.9	38.3	39.3	38.1	35.0	32.4	27.2	26.0	24.8		22	39.3	16.6	27.2
8/15/07	20.3	18.4	17.3	15.3	13.8	12.4	13.4	13.1	13.5	21.7	25.6	28.6	32.6	38.0	41.0	42.0	39.7	37.0	33.6	30.7	28.5	26.6	27.4		23	42.0	12.4	25.7
8/16/07	26.5	26.4	22.7	20.8	19.2	20.8	18.8	18.8	19.1	20.4	22.6	27.3	33.9	35.7	36.9	37.9	37.5	37.5	35.6	29.1	29.8	31.3	27.1		23	37.9	18.8	27.6
8/17/07	26.3	28.2	28.0	22.8	19.2	15.3	15.0	13.6	16.6	16.0	16.4	16.5	18.4	22.3	24.5	25.4	27.4	29.0	26.5	25.8	24.6	22.7	22.6		23	29.0	13.6	21.9
8/18/07	18.0	19.3	19.8	19.8	23.4	22.9	21.1	19.4	17.5	16.2	16.8	16.9	17.2	17.5	15.8	14.8	14.2	12.4	11.4	11.7	11.4	11.2	11.1		23	23.4	11.1	16.5
8/19/07	14.5	13.7	12.9	12.3	12.1	11.2	10.3	10.6	10.6	11.2	11.4	12.2	12.2	14.0	14.9	14.2	14.1	13.9	13.4	12.4	12.5	11.4	10.2		23	14.9	10.2	12.4
8/20/07	9.1	8.1	7.5	6.5	7.7	14.5	9.2	9.7	14.0	17.6	24.8	30.8	31.9	33.8	35.1	37.1	40.4	38.2	34.2	35.3	27.3	26.0	26.2		23	40.4	6.5	22.8
8/21/07	28.4		32.7	10.6	10.6	11.2	15.8	12.0	10.7	15.7	16.0	27.6	34.0	36.4	37.1	37.9	38.2	37.8	34.5	27.0	25.8	25.2	21.4		22	38.2	10.6	24.8
8/22/07	20.2	20.9	20.8	22.6	21.0	16.3	17.3	18.2	16.6	22.0	26.0	28.5	34.2	33.3	35.1	31.2	35.2	32.8	26.9	24.8	25.1	23.3	18.1		23	35.2	16.3	24.8
8/23/07	15.4	19.0	13.7	16.9	16.8	18.6	20.2	19.8	19.7	21.6	24.8	34.6	37.0	40.8	38.0	38.7	37.3	32.8	27.7	32.4	22.1	33.6	32.5		23	40.8	13.7	26.7
8/24/07	24.8	15.1	12.0	12.9	14.9	13.9	15.8	18.2	21.8	23.4	27.2	32.9	34.6	32.9	30.3	26.1	27.5	21.5	20.4	20.0	19.9	20.1	19.6		23	34.6	12.0	22.0
8/25/07	16.1	16.0	14.9	13.2	9.1	7.1	9.4	15.2	24.1	26.4	28.1	29.3	31.8	32.2	33.3	33.8	34.1	33.9	31.6	22.3	21.5	24.1	21.5		23	34.1	7.1	23.0
8/26/07	20.5	18.3	18.6	20.4	20.5	20.7	20.8	22.1	24.6	27.9	31.0	34.4	37.2	40.8	42.0	41.6	40.6	40.9	37.5	31.3	27.4	23.2	20.5		23	42.0	18.3	28.8
8/27/07	16.6	15.7	15.3	14.5	12.9	13.3	15.6	15.0	15.2	15.4	15.2	16.3	17.8	15.0	12.3	14.5	14.5	14.2	13.6	12.6	12.7	12.8	12.6		23	17.8	12.3	14.5
8/28/07	14.1		34.2	12.4	11.7	11.2	11.8	11.5	12.9	12.8	14.5	14.5	16.0	20.5	24.0	24.9	21.9	23.6	25.2	25.3	20.3	19.2	23.2		22	34.2	11.2	18.4
8/29/07	17.8	21.1	24.9	19.2	13.9	14.9	15.5	19.4	26.0	33.5	37.7	39.3	39.0	40.5	40.9	41.2	41.1	41.2	37.2	28.8	24.9	22.8	23.3		23	41.2	13.9	28.9
8/30/07	23.6	21.2	21.9	23.7	23.1	22.1	23.6	27.0	29.6	31.8	32.7	35.4	36.7	38.4	39.0	40.2	39.6	38.4	34.6	30.9	27.8	26.4	24.3		23	40.2	21.2	30.1
8/31/07	24.2	23.8	23.3	21.8	21.3	19.2	15.0	16.6	24.4	26.9	32.0	39.3	45.3	47.3	47.3	47.7	47.7	44.7	42.6	40.4	39.0	35.5	33.0		23	47.7	15.0	33.0
hr max	43.5	40.9	39.2	36.0	36.7	33.6	37.6	40.4	40.8	46.0	50.6	53.9	55.2	59.9	59.0	58.9	58.1	59.8	57.1	50.0	46.5	53.8	51.2	0.0				
hr min	9.1	8.1	7.5	6.5	7.7	7.1	9.2	9.7	10.6	11.2	11.4	12.2	12.2	14.0	12.3	14.2	14.1	12.4	11.4	11.7	11.4	11.2	10.2	0.0				
average	23.3	22.9	23.5	19.9	18.8	18.4	18.9	20.2	22.5	25.3	28.6	31.4	34.0	36.2	37.4	38.1	38.0	37.1	35.1	30.8	27.8	27.3	26.1	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
59.8	6.5	27.9
8/13/07	8/20/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	705
possible hours	744
data capture	94.8%

Max 8 hr ave. 54.3 8/9/07 14:00

Basin Electric - Gettysburg S.D. Monitoring Program
August-07
w/m2
solar

data
channel
w/m2

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	24 hr	total
8/1/07	0	0	0	0	0	4	9	11	32	226	712	790	819	814	759	659	659	341	172	40	0	0	0	0	24	819	6047	6047
8/2/07	0	0	0	0	0	10	93	241	428	587	712	783	836	823	777	664	523	342	139	11	0	0	0	0	24	836	6968	6968
8/3/07	0	0	0	0	0	6	64	189	264	179	223	239	386	245	208	240	170	79	47	8	0	0	0	0	24	386	2547	2547
8/4/07	0	0	0	0	0	0	12	35	95	164	254	285	397	304	327	333	233	218	170	40	0	0	0	0	24	397	2865	2865
8/5/07	0	0	0	0	0	5	51	141	194	371	649	753	814	800	582	522	472	316	74	7	0	0	0	0	24	814	5751	5751
8/6/07	0	0	0	0	0	0	30	112	80	60	93	142	328	231	496	573	521	354	188	39	0	0	0	0	24	573	3248	3248
8/7/07	0	0	0	0	0	5	78	240	408	564	687	782	509	793	751	618	360	245	88	13	0	0	0	0	24	793	6143	6143
8/8/07	0	0	0	0	0	6	68	180	210	193	406	227	440	659	658	688	535	370	187	38	0	0	0	0	24	688	4865	4865
8/9/07	0	0	0	0	0	6	78	230	408	556	680	770	823	820	761	633	521	352	173	33	0	0	0	0	24	823	6842	6842
8/10/07	0	0	0	0	0	6	45	166	192	565	692	771	824	813	754	659	520	347	188	34	0	0	0	0	24	824	6573	6573
8/11/07	0	0	0	0	0	4	84	247	409	562	690	766	810	799	745	647	497	338	166	32	0	0	0	0	24	810	6795	6795
8/12/07	0	0	0	0	0	0	26	92	149	206	701	792	538	630	761	658	509	344	166	31	0	0	0	0	24	792	5602	5602
8/13/07	0	0	0	0	0	0	59	199	382	518	679	758	811	728	584	607	513	306	116	16	0	0	0	0	24	811	6276	6276
8/14/07	0	0	0	0	0	0	16	51	80	178	474	675	729	431	384	615	472	303	147	23	0	0	0	0	24	729	4577	4577
8/15/07	0	0	0	0	0	0	30	71	154	385	540	614	669	655	607	510	371	229	112	16	0	0	0	0	24	669	4963	4963
8/16/07	0	0	0	0	0	0	39	89	205	332	481	702	777	744	667	484	303	227	104	16	0	0	0	0	24	777	5171	5171
8/17/07	0	0	0	0	0	0	0	16	46	27	189	344	112	337	557	529	440	266	121	9	0	0	0	0	24	557	2994	2994
8/18/07	0	0	0	0	0	0	7	20	29	63	121	131	167	109	80	118	81	46	18	0	0	0	0	0	24	167	989	989
8/19/07	0	0	0	0	0	0	7	22	37	104	104	169	172	273	200	141	134	68	23	0	0	0	0	0	24	273	1453	1453
8/20/07	0	0	0	0	0	0	30	95	212	349	620	657	156	447	374	464	437	276	133	13	0	0	0	0	24	657	4260	4260
8/21/07	0	0	0	0	0	0	32	75	152	118	147	749	773	775	737	558	466	274	133	15	0	0	0	0	24	775	5005	5005
8/22/07	0	0	0	0	0	0	66	67	104	232	366	598	417	210	211	230	337	63	49	13	0	0	0	0	24	598	2964	2964
8/23/07	0	0	0	0	0	0	12	37	90	147	394	638	715	681	750	574	347	170	59	8	0	0	0	0	24	750	4620	4620
8/24/07	0	0	0	0	0	0	45	175	340	378	553	664	305	202	120	40	22	62	36	0	0	0	0	0	24	664	2941	2941
8/25/07	0	0	0	0	0	0	31	137	350	466	405	505	485	684	722	564	478	301	110	6	0	0	0	0	24	722	5245	5245
8/26/07	0	0	0	0	0	0	50	200	371	521	641	726	774	764	694	584	445	266	96	8	0	0	0	0	24	774	6142	6142
8/27/07	0	0	0	0	0	0	11	22	37	61	51	65	128	96	64	86	43	21	7	0	0	0	0	0	24	128	692	692
8/28/07	0	0	0	0	0	0	5	20	69	102	179	69	74	401	204	63	57	56	30	5	0	0	0	0	24	401	1334	1334
8/29/07	0	0	0	0	0	0	50	174	349	507	627	569	423	508	398	468	404	269	96	5	0	0	0	0	24	627	4844	4844
8/30/07	0	0	0	0	0	0	22	133	352	495	620	708	755	733	683	577	433	255	93	5	0	0	0	0	24	755	5864	5864
8/31/07	0	0	0	0	0	0	46	183	348	507	637	717	758	751	690	551	420	240	73	0	0	0	0	0	24	758	5922	5922
hr max	0	0	0	0	0	10	93	247	428	587	712	792	836	823	777	688	659	370	188	40	0	0	0	0	monthly	monthly	monthly
hr min	0	0	0	0	0	0	0	11	29	27	51	65	74	96	64	40	22	21	7	0	0	0	0	0	max hr	Max24hr	Total
average	0	0	0	0	0	2	39	118	212	314	462	554	540	557	526	473	378	237	107	16	0	0	0	0	836	6968	140500
																									8/2/07	8/2/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
August-07
mmhg
BP

data
channel
mmhg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
8/1/07	703	703	703	703	703	703	704	705	705	706	707	707	707	707	707	708	708	708	708	708	708	709	709	709	24	709	703	706
8/2/07	710	710	710	710	710	710	711	711	711	710	711	711	710	710	710	710	709	709	709	709	709	709	709	709	24	711	709	710
8/3/07	709	708	709	708	708	708	708	708	708	708	708	708	707	707	707	706	706	705	705	705	705	705	705	705	24	709	705	707
8/4/07	705	704	703	703	703	703	703	704	704	704	704	704	704	704	704	703	703	703	703	703	703	704	704	703	24	705	703	703
8/5/07	703	703	703	703	703	702	703	703	703	703	703	703	703	703	703	703	702	702	702	702	703	704	704	703	24	704	702	703
8/6/07	703	703	703	703	703	703	703	702	702	702	702	701	701	701	701	701	701	701	701	701	701	702	702	702	24	703	701	702
8/7/07	702	702	702	703	703	703	703	703	703	703	703	704	703	703	703	703	703	702	702	702	702	703	703	702	24	704	702	703
8/8/07	701	702	702	702	702	701	701	701	701	701	701	701	701	701	701	700	700	701	701	702	703	703	703	703	24	703	700	701
8/9/07	704	704	704	704	705	705	705	705	706	706	706	706	706	705	705	705	705	705	705	705	705	705	705	705	24	706	704	705
8/10/07	705	705	705	705	705	705	705	705	704	704	704	704	704	703	703	702	702	701	701	701	701	702	702	702	24	705	701	703
8/11/07	701	701	701	701	701	703	703	704	704	705	705	706	706	706	707	707	707	708	708	709	710	710	711	711	24	711	701	706
8/12/07	711	712	712	712	713	713	713	714	715	713	712	712	713	713	711	710	710	709	709	709	709	710	710	709	24	715	709	711
8/13/07	709	709	708	707	707	707	706	707	706	705	705	705	705	704	704	704	703	704	704	705	705	706	706	707	24	709	703	706
8/14/07	707	707	707	707	707	707	707	708	708	707	708	708	708	707	707	706	706	706	706	705	706	706	706	705	24	708	705	707
8/15/07	704	704	704	704	703	704	704	704	704	705	705	705	705	705	705	705	705	705	705	706	706	707	707	708	24	708	703	705
8/16/07	708	708	708	708	709	709	710	710	710	710	711	710	710	710	709	709	709	709	709	709	709	709	710	710	24	711	708	709
8/17/07	710	710	710	710	710	710	710	710	710	710	710	710	711	711	709	709	708	708	708	708	708	708	707	707	24	711	707	709
8/18/07	707	706	706	705	704	704	704	704	704	704	704	704	704	704	704	704	704	704	704	703	704	704	704	704	24	707	703	704
8/19/07	704	704	705	704	703	703	704	705	705	705	705	705	704	704	704	704	703	703	703	703	703	703	703	702	24	705	702	704
8/20/07	702	703	702	702	699	698	700	700	700	701	701	701	701	702	702	702	702	702	702	702	702	703	703	703	24	703	698	701
8/21/07	703	703	704	704	704	703	703	703	703	703	704	704	704	704	704	704	704	704	704	704	704	705	705	705	24	705	703	704
8/22/07	705	705	705	705	705	705	705	706	706	706	706	706	706	706	706	705	705	705	704	704	705	704	705	705	24	706	704	705
8/23/07	704	704	703	703	704	704	704	705	705	705	705	705	705	705	705	705	705	705	705	705	705	705	705	705	24	705	703	705
8/24/07	705	705	705	706	706	706	707	707	707	706	706	706	706	706	706	706	707	707	707	707	708	708	708	708	24	708	705	706
8/25/07	708	708	708	708	708	708	708	708	709	708	708	708	708	707	707	706	706	705	705	705	705	705	704	704	24	709	704	707
8/26/07	703	703	702	702	702	702	702	702	701	701	701	701	700	700	700	699	699	699	699	699	699	699	700	700	24	703	699	701
8/27/07	699	699	698	698	699	699	699	699	699	700	700	701	702	702	702	702	703	703	704	704	705	705	705	705	24	705	698	701
8/28/07	705	705	705	705	705	705	706	707	707	707	707	708	709	709	709	709	710	710	710	711	711	712	712	712	24	712	705	708
8/29/07	713	713	713	713	713	714	714	714	714	714	715	715	714	714	714	713	713	713	713	713	713	714	714	714	24	715	713	714
8/30/07	714	714	714	713	713	713	713	713	713	712	712	711	711	710	710	709	709	709	709	708	709	709	709	709	24	714	708	711
8/31/07	709	709	709	709	709	709	709	709	709	709	709	709	708	708	707	707	707	706	706	706	706	706	706	706	24	709	706	708
hr max	714	714	714	713	713	714	714	714	715	714	715	715	714	714	714	713	713	713	713	713	713	714	714	714				
hr min	699	699	698	698	699	698	699	699	699	700	700	701	700	700	700	699	699	699	699	699	699	699	700	700				
average	706	706	706	705	705	705	706	706	706	706	706	706	706	706	706	705	705	705	705	705	706	706	706	706				

monthly max hr	monthly min hr	monthly ave hr
715	697.6	705.6
8/12/07	8/20/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
August-07
%
RH

data
channel
%

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
8/1/07	74.3	73.4	76.9	80.7	83.7	86.7	89.6	91.0	90.5	87.5	68.8	50.2	40.2	37.5	34.0	34.3	34.3	34.9	40.4	56.3	67.8	76.7	77.7	77.8	24	91.0	34.0	65.2
8/2/07	67.4	56.7	57.7	70.3	78.5	79.6	74.5	65.5	46.2	32.8	26.1	24.8	24.7	24.0	24.9	24.4	24.2	27.2	28.8	47.6	54.3	55.9	54.2	57.2	24	79.6	24.0	47.0
8/3/07	61.8	63.8	69.5	68.5	70.4	70.1	68.9	67.0	66.4	70.9	71.0	70.1	68.6	76.1	76.0	82.3	86.9	92.8	93.4	95.0	96.1	95.8	95.5	95.9	24	96.1	61.8	78.0
8/4/07	96.0	94.8	92.4	92.2	95.0	97.0	97.2	97.3	97.1	96.0	93.9	90.7	86.1	84.1	79.5	75.9	77.0	79.3	80.5	88.8	94.4	96.0	95.4	96.0	24	97.3	75.9	90.5
8/5/07	97.3	97.9	98.1	98.3	98.4	98.5	98.6	98.6	98.5	97.9	92.3	78.6	69.8	61.3	55.9	54.8	53.7	54.9	64.5	74.5	79.0	82.5	88.4	92.0	24	98.6	53.7	82.7
8/6/07	93.9	94.6	95.4	96.6	97.7	98.0	98.1	97.4	94.5	94.3	96.6	95.0	80.8	80.7	77.6	73.9	72.6	73.2	79.7	87.0	94.3	95.2	93.9	95.5	24	98.1	72.6	89.9
8/7/07	91.4	93.0	96.8	95.3	95.3	95.5	96.3	78.1	60.8	46.0	39.9	33.4	35.3	35.2	33.8	34.8	39.6	41.0	50.7	62.6	66.5	69.7	66.8	68.1	24	96.8	33.4	63.6
8/8/07	73.5	83.2	90.4	90.9	92.1	90.7	88.6	89.3	85.0	83.7	78.4	79.1	75.1	66.8	60.0	53.4	53.5	48.9	46.0	62.1	77.1	80.1	86.1	89.6	24	92.1	46.0	76.0
8/9/07	94.8	94.2	95.5	96.4	96.9	97.1	94.1	87.4	80.7	69.4	55.3	44.8	36.6	29.5	26.6	24.5	25.4	28.3	44.4	55.2	64.4	67.1	74.4	81.0	24	97.1	24.5	65.2
8/10/07	84.6	83.9	76.6	73.4	73.5	72.6	75.0	70.7	68.4	50.5	44.6	43.6	38.7	47.9	53.1	50.1	45.4	54.8	57.0	66.8	75.5	65.9	72.0	78.4	24	84.6	38.7	63.5
8/11/07	86.2	89.0	85.6	87.8	77.7	87.1	81.1	73.2	66.6	59.4	52.4	47.6	47.8	47.2	46.0	45.3	46.8	48.3	50.3	56.1	61.8	66.0	72.8	81.0	24	89.0	45.3	65.1
8/12/07	79.8	84.2	88.4	84.2	81.6	81.4	79.7	78.1	75.0	72.8	59.9	50.0	44.6	41.8	35.3	32.1	31.7	34.9	40.8	52.1	65.8	80.0	83.1	81.2	24	88.4	31.7	64.1
8/13/07	85.4	89.0	90.1	92.9	95.7	96.9	94.4	86.8	77.0	69.8	63.2	58.6	54.1	50.3	47.7	41.0	30.3	35.2	50.6	63.8	71.0	77.2	83.7	88.4	24	96.9	30.3	70.5
8/14/07	93.4	94.2	93.9	92.3	92.7	92.3	88.4	88.2	90.3	87.6	76.7	66.2	61.9	63.0	51.4	42.8	41.6	47.5	56.3	65.6	75.6	79.0	81.1	84.0	24	94.2	41.6	75.3
8/15/07	88.3	91.6	92.5	91.8	92.2	92.8	94.4	95.9	94.0	82.3	71.3	64.5	58.3	51.9	45.6	42.4	46.2	51.5	57.5	66.9	71.1	77.8	77.6	74.3	24	95.9	42.4	73.9
8/16/07	75.4	74.2	82.4	85.2	85.3	78.2	81.9	77.5	72.1	65.3	57.8	48.3	39.7	35.6	33.1	33.2	36.3	37.2	41.6	57.5	67.3	69.9	77.3	70.5	24	85.3	33.1	61.8
8/17/07	66.5	54.3	55.9	79.5	88.4	90.9	93.6	93.6	88.1	85.0	82.6	82.1	82.7	78.3	66.7	64.6	61.2	59.4	64.4	68.1	69.9	73.0	75.4	85.0	24	93.6	54.3	75.4
8/18/07	93.5	97.0	97.8	98.1	97.6	96.7	97.1	97.7	98.0	98.2	98.1	98.0	97.9	97.6	97.5	97.6	96.3	96.7	97.6	98.0	98.2	98.3	98.4	98.5	24	98.5	93.5	97.5
8/19/07	98.6	98.7	98.8	98.9	99.0	99.0	99.1	99.1	99.1	99.0	98.9	98.8	98.2	95.7	91.7	92.2	91.3	92.8	94.6	97.0	97.1	97.9	98.3	98.5	24	99.1	91.3	97.2
8/20/07	98.7	98.8	98.9	98.9	98.9	96.0	96.3	97.3	95.5	89.3	79.4	71.1	74.1	69.0	65.8	65.5	60.6	62.3	67.7	75.3	81.5	81.7	78.8	75.3	24	98.9	60.6	82.4
8/21/07	71.0	76.7	81.5	88.0	86.2	89.2	85.3	81.4	80.2	72.3	78.0	54.6	49.6	43.9	41.8	43.3	45.4	49.0	58.2	73.7	82.0	83.4	87.7	89.4	24	89.4	41.8	70.5
8/22/07	88.6	89.1	89.6	89.3	90.5	90.7	88.6	87.9	87.2	78.5	66.5	54.4	42.4	50.3	55.9	57.3	49.6	58.2	66.2	68.8	72.9	77.6	81.0	83.8	24	90.7	42.4	73.5
8/23/07	85.7	84.7	89.2	87.0	85.6	86.5	83.5	82.0	83.3	86.9	75.3	58.9	48.8	47.4	50.2	52.6	54.8	60.1	70.8	74.1	84.5	79.0	86.4	88.2	24	89.2	47.4	74.4
8/24/07	89.7	91.6	94.1	93.4	92.6	92.9	89.3	86.9	75.3	68.9	60.7	52.0	53.6	55.5	62.0	82.3	91.7	94.4	94.2	93.6	93.7	92.8	93.4	94.8	24	94.8	52.0	82.9
8/25/07	95.6	95.5	95.3	95.0	96.5	97.0	97.2	96.0	81.5	77.3	74.3	70.9	67.0	64.2	60.0	57.9	57.0	57.1	64.3	80.7	85.6	85.4	89.8	87.9	24	97.2	57.0	80.4
8/26/07	89.1	92.5	93.6	93.6	93.8	93.8	93.0	88.4	82.0	75.1	68.8	65.1	61.0	57.8	57.5	59.3	61.9	64.4	71.6	81.7	87.2	91.3	93.8	95.3	24	95.3	57.5	79.7
8/27/07	96.1	96.8	97.2	96.9	96.6	97.3	97.6	97.9	98.1	98.1	97.6	96.6	91.1	91.6	96.1	96.1	93.5	93.4	94.7	97.0	97.6	97.9	98.0	98.2	24	98.2	91.1	96.3
8/28/07	98.4	98.6	98.6	98.7	98.7	98.8	98.9	99.0	98.9	98.7	97.6	95.7	95.5	82.8	70.4	66.5	71.5	72.5	73.1	81.1	90.5	92.2	92.6	94.0	24	99.0	66.5	90.1
8/29/07	95.1	95.9	95.6	95.6	97.2	97.3	96.1	90.4	80.7	66.7	58.1	52.7	51.6	49.6	48.4	47.6	48.3	50.0	59.6	75.9	82.5	85.3	86.8	86.3	24	97.3	47.6	74.7
8/30/07	86.9	88.5	88.0	84.5	84.4	85.2	83.8	77.4	69.0	62.6	61.1	58.1	56.1	54.5	52.8	52.3	53.7	57.3	65.5	75.6	80.8	83.6	86.8	88.1	24	88.5	52.3	72.4
8/31/07	87.4	87.7	88.4	90.2	90.9	92.0	92.4	86.4	76.1	70.3	61.7	52.8	47.9	45.8	46.6	48.8	50.2	57.7	65.8	72.7	76.3	81.2	85.0	86.1	24	92.4	45.8	72.5
hr max	98.7	98.8	98.9	98.9	99.0	99.0	99.1	99.1	99.1	99.0	98.9	98.8	98.2	97.6	97.5	97.6	96.3	96.7	97.6	98.0	98.2	98.3	98.4	98.5				
hr min	61.8	54.3	55.9	68.5	70.4	70.1	68.9	65.5	46.2	32.8	26.1	24.8	24.7	24.0	24.9	24.4	24.2	27.2	28.8	47.6	54.3	55.9	54.2	57.2				
average	86.6	87.2	88.5	89.8	90.4	90.9	90.1	87.2	82.5	77.2	71.2	64.8	60.6	58.6	56.3	55.8	55.9	58.6	64.2	73.3	79.4	81.8	84.3	85.8				

monthly max hr	monthly min hr	monthly ave hr
99.1	24.0	75.9
8/19/07	8/2/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
August-07
in
Prcp

data channel in

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr		daily total
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
8/1/07	0	0	0	0	0	0	0.18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.18		0.18
8/2/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
8/3/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05	0.03	0.16	0.09	0.1	1.04	0.65	24	1.04		2.12
8/4/07	0.11	0.02	0	0	0.01	0.02	0.01	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.11		0.18
8/5/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
8/6/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
8/7/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
8/8/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
8/9/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
8/10/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
8/11/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
8/12/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
8/13/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
8/14/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
8/15/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
8/16/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
8/17/07	0	0	0	0.04	0	0.31	0.89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	24	0.89		1.25
8/18/07	0.36	0.67	0.62	0.07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	24	0.67		1.73
8/19/07	0	0	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.01		0.01
8/20/07	0	0	0.01	0.05	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.05		0.07
8/21/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
8/22/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
8/23/07	0	0	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.01		0.01
8/24/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06	0.18	0.02	0	0	0	0	0.01	0	24	0.18		0.27
8/25/07	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.01		0.01
8/26/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
8/27/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
8/28/07	0	0.01	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.01		0.02
8/29/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
8/30/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
8/31/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
hr max	0.36	0.67	0.62	0.07	0.01	0.31	0.89	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.06	0.18	0.05	0.03	0.16	0.09	0.10	1.04	0.65				
hr min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
total	0.48	0.70	0.63	0.16	0.04	0.33	1.08	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.06	0.18	0.07	0.03	0.16	0.09	0.10	1.05	0.67				

monthly max hr	monthly 24h max	monthly TOTAL
1.04	2.12	5.85
8/3/07	8/3/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
August-07
DegC
StnT

data
channel
DegC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
8/1/07	24.2	24.0	23.9	23.8	23.7	23.6	23.6	23.5	23.4	23.5	23.6	23.9	24.2	24.6	24.7	24.8	24.8	24.8	24.7	24.4	24.1	23.6	23.4	23.3	24	24.8	23.3	24.0
8/2/07	23.2	23.1	23.0	23.0	23.0	23.1	23.1	23.0	23.0	23.3	23.7	24.1	24.4	24.7	24.9	25.1	25.2	25.1	25.0	24.8	24.6	24.3	23.9	23.9	24	25.2	23.0	23.9
8/3/07	23.5	23.2	23.1	23.0	23.0	23.0	23.0	23.0	23.2	23.4	23.6	23.8	23.9	23.9	23.9	23.9	23.9	24.0	23.6	23.4	23.2	23.1	23.0	23.3	24	24.0	23.0	23.4
8/4/07	23.1	23.1	23.0	23.0	22.9	22.8	22.8	22.8	22.8	22.8	22.8	22.7	22.8	23.0	23.2	23.4	23.5	23.5	23.5	23.4	23.2	23.1	23.0	23.2	24	23.5	22.7	23.1
8/5/07	23.0	22.9	22.9	22.9	22.8	22.8	22.8	22.8	22.9	23.0	23.2	23.6	23.9	24.2	24.4	24.6	24.7	24.7	24.6	24.5	24.2	24.1	23.9	24.1	24	24.7	22.8	23.6
8/6/07	23.8	23.6	23.4	23.3	23.2	23.3	23.3	23.3	23.4	23.4	23.4	23.5	23.5	23.7	23.8	24.0	24.2	24.3	24.4	24.3	24.1	23.9	23.7	23.8	24	24.4	23.2	23.7
8/7/07	23.5	23.7	24.1	23.6	23.3	23.2	23.1	23.2	23.3	23.5	23.8	24.1	24.4	24.6	24.7	24.8	24.8	24.8	24.6	24.4	24.2	24.1	23.9	24.1	24	24.8	23.1	24.0
8/8/07	23.9	23.7	23.5	23.4	23.3	23.3	23.3	23.4	23.5	23.5	23.6	23.8	23.9	24.4	24.5	24.7	24.9	25.0	24.8	24.6	24.3	23.9	23.6	23.6	24	25.0	23.3	23.9
8/9/07	23.3	23.2	23.0	23.0	22.9	22.9	22.9	23.0	23.2	23.5	23.9	24.6	25.7	25.6	25.5	25.5	26.2	26.4	25.8	25.2	24.8	24.4	24.1	24.2	24	26.4	22.9	24.3
8/10/07	23.8	23.6	23.4	23.3	23.2	23.2	23.2	23.3	23.4	23.6	23.9	24.2	24.5	24.8	24.9	24.9	25.0	25.0	24.9	24.8	24.6	24.3	24.0	24.1	24	25.0	23.2	24.1
8/11/07	23.9	23.7	23.6	23.4	23.3	23.3	23.3	23.3	23.4	23.6	23.8	24.3	24.6	24.9	25.0	25.1	25.1	25.0	24.9	24.6	24.2	23.8	23.4	23.4	24	25.1	23.3	24.0
8/12/07	23.2	23.1	23.1	23.1	23.0	23.1	23.1	23.1	23.0	23.0	23.0	23.1	23.4	23.7	24.0	24.4	24.5	24.4	24.3	24.2	23.9	23.5	23.3	23.4	24	24.5	23.0	23.5
8/13/07	23.2	23.1	23.0	23.0	22.9	22.9	22.9	23.0	23.2	23.5	23.8	24.1	24.5	24.8	25.1	25.3	25.4	25.4	25.3	25.1	24.8	24.4	24.3	24.3	24	25.4	22.9	24.1
8/14/07	23.9	23.9	24.1	23.6	23.4	23.3	23.2	23.2	23.2	23.1	23.2	23.4	23.7	23.9	24.1	24.1	24.2	24.2	24.1	23.9	23.7	23.4	23.3	23.4	24	24.2	23.1	23.6
8/15/07	23.2	23.0	23.0	23.0	22.9	23.0	23.0	22.9	22.9	23.1	23.4	23.7	23.9	24.2	24.5	24.7	24.8	24.8	24.7	24.5	24.2	23.9	23.6	23.7	24	24.8	22.9	23.7
8/16/07	23.4	23.3	23.1	23.1	23.1	23.1	23.1	23.1	23.0	23.0	23.1	23.3	23.8	24.1	24.3	24.5	24.5	24.4	24.3	24.1	23.7	23.5	23.3	23.3	24	24.5	23.0	23.6
8/17/07	23.2	23.1	23.1	23.1	23.1	23.1	23.2	23.3	23.2	23.2	23.1	23.0	23.0	23.1	23.1	23.1	23.2	23.3	23.3	23.2	23.1	23.0	23.0	23.2	24	23.3	23.0	23.1
8/18/07	23.1	23.1	23.1	23.1	23.0	23.1	23.1	23.0	23.0	22.9	22.9	22.9	23.0	23.1	23.1	23.1	23.1	23.1	23.1	23.0	23.0	23.0	23.0	23.1	24	23.1	22.9	23.0
8/19/07	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	22.9	22.9	22.9	22.9	22.9	23.0	23.1	23.0	22.9	22.9	22.9	22.9	23.0	23.1	24	23.1	22.9	23.0
8/20/07	23.0	23.0	22.9	22.9	23.0	23.0	23.0	22.9	22.9	22.9	23.2	23.5	23.8	23.9	24.1	24.2	24.3	24.3	24.2	24.1	23.8	23.5	23.3	23.3	24	24.3	22.9	23.5
8/21/07	23.1	23.3	23.5	23.3	23.3	23.3	23.2	23.0	23.0	22.9	22.8	23.0	23.2	23.6	23.9	24.1	24.2	24.1	24.0	23.8	23.4	23.2	23.0	23.2	24	24.2	22.8	23.4
8/22/07	23.0	23.0	23.0	23.0	23.0	22.9	22.9	22.8	22.8	22.8	23.0	23.3	23.7	23.8	23.9	23.9	23.9	23.9	23.7	23.5	23.2	23.0	23.0	23.1	24	23.9	22.8	23.3
8/23/07	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.8	22.9	23.1	23.5	23.9	24.0	24.1	24.0	23.8	23.5	23.3	23.0	23.0	23.1	24	24.1	22.8	23.2
8/24/07	23.1	23.2	23.1	23.1	23.0	22.8	22.7	22.8	22.9	22.8	22.9	23.0	23.3	23.5	23.5	23.3	23.1	23.1	23.0	23.0	23.0	23.1	23.1	23.2	24	23.5	22.7	23.1
8/25/07	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.0	22.9	23.0	23.1	23.1	23.2	23.5	23.6	23.8	23.9	23.7	23.5	23.1	23.0	23.0	23.1	24	23.9	22.9	23.2
8/26/07	23.0	23.0	22.9	22.9	22.9	22.9	22.9	22.9	23.1	23.4	23.6	23.9	24.3	24.5	24.7	25.2	25.3	25.0	24.8	24.6	24.3	24.1	24.0	24.2	24	25.3	22.9	23.9
8/27/07	23.9	23.8	23.7	23.7	23.6	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.8	23.7	23.6	23.4	23.4	23.3	23.2	23.2	23.2	23.2	23.4	24	23.9	23.2	23.6
8/28/07	23.3	23.5	23.8	23.4	23.2	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.0	23.0	23.0	22.9	22.9	23.0	23.1	23.2	23.3	23.5	24	23.8	22.9	23.2
8/29/07	23.3	23.2	23.0	22.8	22.7	22.6	22.6	22.9	23.0	23.1	23.2	23.4	23.7	23.9	24.0	24.1	24.1	24.0	23.9	23.6	23.3	23.2	23.2	23.4	24	24.1	22.6	23.3
8/30/07	23.3	23.3	23.3	23.2	23.1	23.1	23.1	23.1	23.1	23.1	23.4	23.7	24.0	24.2	24.4	24.6	24.7	24.9	24.8	24.4	24.1	23.9	23.6	23.8	24	24.9	23.1	23.8
8/31/07	23.5	23.4	23.3	23.2	23.1	23.1	23.1	23.1	23.2	23.4	23.6	23.9	24.3	24.6	24.7	24.9	24.9	24.9	24.8	24.5	24.3	24.1	23.9	24.1	24	24.9	23.1	23.9
hr max	24.2	24.0	24.1	23.8	23.7	23.7	23.7	23.7	23.7	23.7	23.9	24.6	25.7	25.6	25.5	25.5	26.2	26.4	25.8	25.2	24.8	24.4	24.3	24.3				
hr min	22.9	22.9	22.9	22.8	22.7	22.6	22.6	22.8	22.8	22.8	22.8	22.7	22.8	22.9	22.9	23.0	23.0	22.9	22.9	22.9	22.9	22.9	23.0	23.1				
average	23.4	23.3	23.3	23.2	23.1	23.1	23.1	23.1	23.1	23.2	23.3	23.5	23.8	24.0	24.1	24.2	24.3	24.3	24.2	24.0	23.8	23.6	23.4	23.5				

monthly	monthly	monthly
max hr	min hr	ave hr
26.4	22.6	23.6
8/9/07	8/29/07	

Validated by: Roger L Thompson Date: 9/5/07
Analyst: Denise Hazelman Date: 9/5/07

valid hours	744
possible hours	744
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
September-07
mps
10WS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
9/1/07	5.6	6.0	6.4	6.7	7.2	7.7	8.9	10.1	10.5	10.7	9.6	9.3	9.3	7.4	7.7	5.9	5.9	2.2	2.1	1.9	4.4	4.2	3.6	3.8	24	10.7	1.9	6.5
9/2/07	2.3	3.7	2.7	3.4	3.1	2.6	3.6	3.5	5.7	6.5	6.5	6.1	5.7	5.8	6.6	6.9	6.2	4.8	4.8	6.0	6.0	6.2	5.7	5.8	24	6.9	2.3	5.0
9/3/07	4.7	6.3	5.9	4.8	4.6	4.5	6.4	7.0	7.0	5.3	5.2	6.3	6.9	7.3	7.1	5.7	5.3	4.4	3.9	4.1	4.5	4.5	5.6	5.7	24	7.3	3.9	5.5
9/4/07	5.7	6.1	6.4	6.4	6.0	4.9	4.8	2.7	1.5	2.7	4.1	4.7	5.9	6.4	6.5	6.2	5.5	3.8	3.8	5.1	5.4	4.7	5.3	5.9	24	6.5	1.5	5.0
9/5/07	6.5	6.6	6.3	6.3	6.4	6.7	6.3	6.9	8.1	9.0	8.7	8.4	8.1	8.9	8.2	8.0	5.1	2.2	0.8	4.3	7.1	6.0	7.3	7.5	24	9.0	0.8	6.7
9/6/07	6.9	5.7	5.4	5.6	5.8	5.6	4.3	4.5	5.7	4.5	3.6	4.9	2.5	2.0	1.1	1.7	2.7	2.8	2.2	2.5	2.9	3.1	2.9	3.8	24	6.9	1.1	3.9
9/7/07	3.8	4.0	3.5	4.0	4.4	4.6	3.8	5.3	6.3	7.4	7.5	7.3	7.2	6.4	5.4	4.1	3.7	2.4	1.5	2.3	3.3	4.5	5.1	6.1	24	7.5	1.5	4.7
9/8/07	4.7	5.3	3.9	6.0	7.1	6.9	7.6	7.9	8.7	6.6	4.5	5.3	5.6	7.9	10.0	9.9	8.3	6.4	6.6	4.8	4.5	4.1	3.0	1.7	24	10.0	1.7	6.1
9/9/07	2.5	3.3	3.1	2.1	1.0	1.9	2.0	1.1	2.3	2.8	3.6	3.2	3.2	2.3	2.6	2.3	2.7	2.8	2.0	2.6	2.4	2.9	3.5	3.6	24	3.6	1.0	2.6
9/10/07	3.4	3.0	3.0	2.8	3.7	4.0	3.4	3.9	5.1	5.1	5.2	6.4	6.8	7.4	7.9	8.5	8.5	7.5	5.0	4.4	4.5	5.1	5.4	4.0	24	8.5	2.8	5.2
9/11/07	4.3	4.4	3.3	3.4	4.3	4.5	3.2	3.8	6.1	6.9	5.3	4.4	3.8	3.3	2.6	2.5	2.9	2.5	3.3	4.2	4.9	5.0	4.9	4.8	24	6.9	2.5	4.1
9/12/07	5.2	5.8	6.5	6.5	7.6	9.1	9.1	8.1	8.0	8.0	7.1	7.0	6.0	5.7	5.2	4.5	4.0	2.4	1.2	1.1	1.6	1.6	4.0	7.9	24	9.1	1.1	5.6
9/13/07	7.5	8.8	10.0	9.7	9.8	8.8	6.7	8.5	8.6	8.9	9.6	8.0	9.0	10.1	9.2	8.8	8.4	7.7	6.5	3.6	4.1	3.7	4.6	4.2	24	10.1	3.6	7.7
9/14/07	3.6	3.8	4.0	3.6	3.7	3.8	3.8	3.8	5.6	5.1	4.4	3.8	3.1	3.1	2.3	2.0	1.4	1.2	2.2	4.1	4.7	4.9	4.6	4.9	24	5.6	1.2	3.6
9/15/07	4.5	4.4	4.7	5.1	6.2	6.2	5.7	6.0	6.6	8.8	8.9	7.5	6.4	5.4	5.2	3.5	2.7	3.5	4.2	4.7	4.8	4.7	2.5	2.7	24	8.9	2.5	5.2
9/16/07	3.5	2.7	1.0	2.6	4.2	2.4	0.4	0.9	1.7	4.6	5.5	6.4	7.2	7.3	8.1	8.6	7.2	6.3	5.1	4.8	5.4	6.8	5.7	6.4	24	8.6	0.4	4.8
9/17/07	6.5	6.2	6.3	6.8	7.2	6.3	5.7	4.5	4.6	3.3	3.4	3.4	4.1	2.7	2.9	3.7	1.6	2.0	2.0	2.0	2.6	1.2	0.7	2.7	24	7.2	0.7	3.9
9/18/07	2.5	3.5	3.6	7.0	7.4	6.8	6.6	6.8	8.3	7.7	8.4	8.2	7.6	7.7	6.0	5.4	4.3	5.3	4.6	4.0	3.6	3.9	1.9	1.0	24	8.4	1.0	5.5
9/19/07	1.7	2.7	3.3	3.2	2.8	0.8	1.8	2.2	2.9	3.8	3.3	3.6	4.3	5.2	6.3	7.3	8.3	7.5	6.6	4.9	4.1	5.4	8.8	8.8	24	8.8	0.8	4.6
9/20/07	7.4	6.6	5.6	5.5	6.5	6.6	6.6	5.7	5.4	6.7	6.7	6.1	5.0	4.4	4.2	3.9	3.8	2.7	2.0	2.3	3.2	3.4	3.4	3.1	24	7.4	2.0	4.9
9/21/07	4.3	4.8	4.7	5.4	9.3	11.6	9.1	9.2	10.1	10.2	10.4	11.4	11.3	11.1	9.8	8.4	6.4	5.1	2.7	1.7	2.2	1.8	3.1	4.4	24	11.6	1.7	7.0
9/22/07	4.6	4.2	5.1	4.7	5.9	5.9	4.9	6.2	9.4	10.1	10.8	10.3	9.8	9.0	7.9	8.0	8.1	8.7	8.1	6.8	8.0	7.3	7.3	7.1	24	10.8	4.2	7.4
9/23/07	8.8	9.8	9.0	8.4	7.6	7.6	6.7	8.6	11.3	12.2	12.0	11.2	11.0	10.8	11.0	10.0	9.9	9.0	7.6	8.9	9.4	6.6	6.4	5.1	24	12.2	5.1	9.1
9/24/07	4.3	2.5	1.5	2.1	1.2	1.9	3.8	4.0	6.6	8.1	8.7	9.1	9.1	9.7	9.7	9.1	8.2	8.1	7.1	5.8	7.4	7.8	6.8	7.1	24	9.7	1.2	6.2
9/25/07	5.5	5.2	4.4	4.7	4.8	4.2	3.8	3.8	5.1	5.3	5.7	5.3	5.7	5.1	4.6	4.1	3.7	3.7	3.1	3.4	3.5	3.7	5.0	5.5	24	5.7	3.1	4.5
9/26/07	5.5	4.7	4.2	4.6	4.7	4.9	4.3	2.4	4.8	7.8	8.3	8.1	7.4	8.1	8.0	7.4	6.5	3.8	2.7	3.1	1.8	1.4	4.0	4.0	24	8.3	1.4	5.1
9/27/07	3.6	3.7	3.9	4.1	4.6	5.4	4.9	6.4	6.4	6.3	6.0	7.5	8.1	7.9	7.0	5.4	4.5	3.2	1.9	1.2	2.3	3.6	4.3	4.4	24	8.1	1.2	4.9
9/28/07	4.7	4.8	5.7	6.0	5.9	6.4	7.4	8.6	8.4	9.3	8.8	11.6	11.2	11.0	12.6	12.0	12.1	9.0	8.1	8.8	8.8	9.1	7.6	7.1	24	12.6	4.7	8.5
9/29/07	7.6	9.2	9.3	7.9	8.2	8.3	7.6	8.1	9.1	9.1	8.2	7.3	7.1	6.7	6.7	5.1	8.9	6.6	4.9	3.3	3.8	2.6	2.2	5.6	24	9.3	2.2	6.8
9/30/07	6.6	6.0	5.7	5.3	7.4	8.8	8.7	9.4	9.2	9.6	9.3	7.7	8.7	8.7	8.6	7.4	7.1	5.5	4.1	3.9	4.0	3.3	3.0	1.2	24	9.6	1.2	6.6
																									0			
hr max	8.8	9.8	10.0	9.7	9.8	11.6	9.1	10.1	11.3	12.2	12.0	11.6	11.3	11.1	12.6	12.0	12.1	9.0	8.1	8.9	9.4	9.1	8.8	8.8				
hr min	1.7	2.5	1.0	2.1	1.0	0.8	0.4	0.9	1.5	2.7	3.3	3.2	2.5	2.0	1.1	1.7	1.4	1.2	0.8	1.1	1.6	1.2	0.7	1.0				
average	4.9	5.1	4.9	5.2	5.6	5.7	5.4	5.7	6.6	7.1	7.0	7.0	6.9	6.8	6.7	6.2	5.8	4.8	4.0	4.0	4.5	4.4	4.6	4.9				

monthly	monthly	monthly
max hr	min hr	ave hr
12.6	0.4	5.6
9/28/07	9/16/07	

Validated by: Roger L Thompson Date: 10/8/07
Analyst: Denise Hazelman Date: 10/8/07

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
September-07
mps
50WS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
9/1/07	7.4	8.8	10.3	10.8	11.7	12.4	13.8	13.9	13.6	13.7	12.2	11.3	11.9	10.0	10.3	8.3	8.3	3.7	2.9	2.8	6.5	8.0	8.4	8.2	24	13.9	2.8	9.6
9/2/07	5.3	6.7	6.6	5.9	5.4	7.3	8.4	6.6	6.7	7.8	7.6	6.8	6.5	6.8	7.6	8.0	7.3	6.8	8.3	10.4	9.9	10.4	9.4	10.0	24	10.4	5.3	7.6
9/3/07	8.7	11.0	9.3	6.8	8.7	9.3	12.0	10.6	8.7	6.3	5.9	7.6	8.3	8.9	8.8	7.5	7.9	6.5	5.9	6.8	7.0	7.5	9.7	10.8	24	12.0	5.9	8.4
9/4/07	10.3	11.0	11.5	11.5	10.7	9.7	9.1	4.8	1.7	3.1	4.5	5.4	6.5	7.1	7.3	7.2	6.7	5.7	7.9	10.6	11.6	7.7	8.1	10.5	24	11.6	1.7	7.9
9/5/07	11.2	10.9	11.1	11.3	11.2	10.7	9.3	8.9	9.6	11.0	10.7	9.5	9.0	10.7	10.2	10.4	7.2	4.3	3.1	6.2	9.9	8.6	10.1	10.1	24	11.3	3.1	9.4
9/6/07	9.4	8.5	8.4	8.3	8.6	8.8	6.5	5.7	6.8	6.6	6.0	6.9	3.4	2.2	1.2	2.0	3.2	3.5	3.0	4.2	5.0	5.5	5.9	7.0	24	9.4	1.2	5.7
9/7/07	7.8	6.8	6.4	7.5	8.4	8.7	6.8	7.9	7.5	8.7	9.0	8.7	8.5	7.5	6.2	4.8	4.1	2.7	2.4	3.3	5.6	7.3	9.9	11.8	24	11.8	2.4	7.0
9/8/07	8.5	8.6	7.5	8.1	11.3	9.8	10.1	10.3	10.8	7.9	6.0	6.2	6.7	9.9	12.5	12.4	10.2	8.3	8.5	6.2	6.0	6.0	4.3	3.6	24	12.5	3.6	8.3
9/9/07	3.3	4.0	4.5	4.6	3.2	3.1	3.6	2.7	2.6	3.2	4.2	3.5	3.6	2.8	2.9	2.6	3.1	3.6	3.9	4.1	3.9	5.2	5.9	6.7	24	6.7	2.6	3.8
9/10/07	7.1	7.1	6.9	5.5	6.5	7.0	6.3	6.3	5.9	6.0	6.2	7.5	8.1	9.1	10.0	10.8	11.2	10.2	8.3	7.6	10.6	10.7	10.2	8.4	24	11.2	5.5	8.1
9/11/07	8.2	7.5	6.1	6.7	7.4	8.8	7.1	5.5	7.2	8.0	6.0	5.0	4.3	3.9	3.0	3.0	3.2	2.9	5.4	8.4	10.2	9.5	9.1	8.8	24	10.2	2.9	6.5
9/12/07	9.1	9.9	10.6	10.4	11.7	13.4	13.3	10.6	8.7	8.7	7.9	7.9	6.9	6.5	6.0	5.6	5.5	3.5	1.8	1.1	1.9	1.7	5.6	11.2	24	13.4	1.1	7.5
9/13/07	10.4	11.7	13.1	13.0	12.8	11.7	9.1	11.1	10.6	11.1	11.9	9.9	10.9	12.1	11.1	10.8	10.2	9.9	9.1	6.4	8.2	8.2	8.9	7.1	24	13.1	6.4	10.4
9/14/07	7.6	7.7	8.6	7.4	6.8	6.1	7.7	6.3	6.5	5.9	5.1	4.4	3.6	3.3	2.6	2.1	1.4	1.3	2.3	4.6	7.0	10.3	10.3	9.8	24	10.3	1.3	5.8
9/15/07	6.9	7.5	7.7	8.8	9.5	10.4	8.7	7.2	7.0	10.2	10.8	8.5	7.6	6.1	5.5	4.0	2.9	4.3	7.9	10.0	10.5	10.1	7.5	5.4	24	10.8	2.9	7.7
9/16/07	5.5	4.3	1.9	4.0	5.1	3.6	1.3	3.7	4.2	5.0	6.0	7.1	8.1	8.3	9.5	10.2	9.0	8.8	7.7	7.8	8.9	11.3	8.1	10.3	24	11.3	1.3	6.7
9/17/07	10.7	10.1	11.5	12.1	12.8	11.4	10.5	8.9	7.1	5.0	5.7	4.9	6.2	4.1	3.5	4.4	1.8	2.5	2.1	1.6	2.6	1.4	1.6	3.0	24	12.8	1.4	6.1
9/18/07	4.7	7.5	7.2	10.9	10.8	9.8	8.9	8.6	10.3	9.5	10.3	10.2	10.0	10.5	8.2	7.6	6.0	7.2	7.0	7.8	7.6	8.6	5.8	3.0	24	10.9	3.0	8.3
9/19/07	4.3	3.9	2.4	2.6	3.8	3.5	4.3	4.2	3.6	4.1	3.8	4.1	4.9	5.9	7.1	8.9	10.5	10.1	9.6	8.8	6.8	8.9	13.1	12.3	24	13.1	2.4	6.3
9/20/07	10.6	9.5	8.1	8.0	8.9	9.0	9.6	8.0	6.4	8.1	8.7	7.6	5.9	5.4	5.0	4.9	5.2	4.2	3.2	3.6	7.1	8.5	7.6	6.6	24	10.6	3.2	7.1
9/21/07	7.3	9.7	9.2	10.2	12.1	15.4	12.4	12.0	12.6	12.9	12.9	14.0	13.7	13.7	12.0	10.3	7.7	6.5	4.4	2.8	1.4	0.8	2.7	6.6	24	15.4	0.8	9.3
9/22/07	8.0	9.4	10.4	10.9	12.4	11.3	7.5	8.8	12.2	12.5	13.4	13.0	12.4	11.6	10.1	9.9	9.4	10.4	10.5	8.7	10.9	10.1	10.6	10.1	24	13.4	7.5	10.6
9/23/07	12.6	13.6	12.4	11.3	10.4	10.1	8.7	11.3	14.5	15.5	15.4	13.7	13.5	13.3	13.8	13.0	13.1	11.4	9.3	10.5	12.8	9.6	9.3	7.4	24	15.5	7.4	11.9
9/24/07	6.4	4.2	2.4	1.6	0.8	2.4	6.3	6.0	8.4	10.3	11.0	11.3	11.2	12.2	12.3	11.4	10.6	10.4	9.3	7.7	9.5	10.0	8.8	9.2	24	12.3	0.8	8.1
9/25/07	7.3	6.7	5.6	6.2	6.6	6.4	5.9	6.3	6.3	6.2	6.8	6.2	6.7	6.0	5.4	4.8	4.4	5.0	4.9	5.3	5.8	6.7	8.1	10.8	24	10.8	4.4	6.3
9/26/07	10.6	9.6	8.9	9.9	9.5	9.0	8.1	5.2	6.3	9.8	11.1	9.7	8.7	9.7	9.7	9.1	7.8	5.4	4.8	4.4	1.1	1.2	3.5	6.7	24	11.1	1.1	7.5
9/27/07	7.0	6.6	6.3	8.4	9.0	10.1	9.5	9.5	7.9	7.3	6.9	8.9	9.6	9.3	8.1	6.3	5.3	4.0	3.2	1.6	2.3	4.3	6.9	8.7	24	10.1	1.6	7.0
9/28/07	10.2	11.8	12.9	12.2	11.4	11.4	12.8	12.4	10.4	11.1	9.7	12.5	13.3	11.9	15.7	14.8	15.5	10.5	10.1	12.7	11.3	10.4	8.9	8.4	24	15.7	8.4	11.8
9/29/07	9.8	12.2	11.5	10.0	11.1	11.6	10.4	10.1	11.3	11.3	9.9	8.4	8.6	8.6	9.0	7.5	11.7	9.6	8.7	6.4	5.9	5.3	4.2	8.4	24	12.2	4.2	9.2
9/30/07	10.0	9.0	8.2	8.5	10.6	11.9	11.6	12.0	11.8	12.1	11.3	9.4	10.4	10.4	10.3	8.9	8.7	7.5	8.0	8.3	7.6	6.1	5.0	3.0	24	12.1	3.0	9.2
																									0			
hr max	12.6	13.6	13.1	13.0	12.8	15.4	13.8	13.9	14.5	15.5	15.4	14.0	13.7	13.7	15.7	14.8	15.5	11.4	10.5	12.7	12.8	11.3	13.1	12.3				
hr min	3.3	3.9	1.9	1.6	0.8	2.4	1.3	2.7	1.7	3.1	3.8	3.5	3.4	2.2	1.2	2.0	1.4	1.3	1.8	1.1	1.1	0.8	1.6	3.0				
average	8.2	8.5	8.3	8.4	9.0	9.1	8.7	8.2	8.2	8.6	8.6	8.3	8.3	8.3	8.2	7.7	7.3	6.4	6.1	6.4	7.2	7.3	7.6	8.1				

monthly max hr	monthly min hr	monthly ave hr
15.7	0.8	8.0
9/28/07	9/21/07	

Validated by: Roger L Thompson Date: 10/8/07
Analyst: Denise Hazelman Date: 10/8/07

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
September-07
mps
100WS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
9/1/07	11.9	15.3	15.1	15.2	15.1	17.0	17.4	16.7	15.8	14.6	13.1	13.2	13.2	11.9	11.5	8.6	8.6	4.1	3.2	3.1	7.1	9.5	11.1	10.6	24	17.40	3.10	11.79
9/2/07	9.1	10.1	9.3	9.0	7.8	10.0	12.3	10.2	8.3	8.5	7.9	7.3	6.7	7.2	7.9	8.4	7.7	7.6	10.3	14.1	14.0	15.3	13.5	13.2	24	15.3	6.7	9.8
9/3/07	9.8	9.1	9.7	13.1	11.8	12.4	14.4	13.4	9.9	6.5	6.3	8.2	9.1	10.6	10.1	8.5	9.4	8.9	8.5	11.0	12.1	14.4	15.1	13.5	24	15.1	6.3	10.7
9/4/07	12.6	13.0	14.1	13.1	10.6	9.6	6.6	4.9	1.6	3.1	4.6	5.5	6.6	7.3	7.7	7.5	7.2	7.1	9.4	10.3	9.7	9.2	13.1	15.6	24	15.6	1.6	8.8
9/5/07	16.2	16.1	14.6	14.8	15.7	16.7	16.8	15.1	11.8	11.8	11.6	10.4	9.9	11.6	11.7	11.0	8.0	5.3	4.6	7.5	11.9	10.4	12.0	12.1	24	16.8	4.6	12.0
9/6/07	11.2	10.4	10.6	10.5	10.8	11.2	8.4	6.4	7.2	7.6	7.5	9.1	4.0	2.5	1.2	2.0	3.2	3.6	3.0	5.1	6.3	6.6	7.4	7.7	24	11.2	1.2	6.8
9/7/07	8.0	7.4	6.6	8.1	8.7	10.6	10.2	10.6	8.3	9.1	9.4	9.2	9.0	8.0	6.5	5.1	4.3	2.8	2.6	3.4	5.5	7.3	10.3	13.5	24	13.5	2.6	7.7
9/8/07	13.2	12.9	11.0	9.6	14.8	11.6	12.2	12.2	12.2	8.9	6.4	6.5	6.9	11.0	13.9	13.7	11.2	9.3	9.6	7.1	6.9	7.1	5.2	4.1	24	14.8	4.1	9.9
9/9/07	3.5	4.2	4.4	4.5	3.3	2.7	3.2	3.0	2.7	3.2	4.3	3.9	3.7	2.9	3.0	2.5	3.2	3.7	3.8	4.3	4.2	5.6	6.7	7.6	24	7.6	2.5	3.9
9/10/07	8.0	8.0	7.8	7.0	6.8	7.7	7.3	7.4	6.6	6.1	6.4	7.8	8.4	9.5	10.5	11.3	11.6	11.2	10.3	10.3	12.2	13.6	13.4	11.0	24	13.6	6.1	9.2
9/11/07	11.1	10.3	8.5	9.0	9.5	11.3	10.9	7.5	7.7	8.3	6.2	5.3	4.6	4.1	3.3	3.1	3.3	3.0	5.6	8.5	10.8	12.2	12.7	13.1	24	13.1	3.0	7.9
9/12/07	13.8	15.1	15.3	14.5	15.8	17.4	16.2	11.6	8.4	9.6	8.5	8.4	7.3	7.0	6.7	5.9	5.7	3.6	2.0	1.6	2.2	2.3	7.6	13.8	24	17.4	1.6	9.2
9/13/07	12.9	14.0	15.5	15.5	15.1	13.6	11.1	12.7	11.4	11.7	12.7	10.5	11.6	12.7	11.8	11.3	11.0	11.0	10.6	8.6	11.1	10.8	11.6	9.5	24	15.5	8.6	12.0
9/14/07	10.9	11.1	10.7	9.7	8.9	8.6	10.1	8.6	6.9	6.2	5.4	4.7	3.9	3.5	2.9	2.1	1.5	1.4	2.2	4.3	6.5	9.8	9.4	10.1	24	11.1	1.4	6.6
9/15/07	10.1	8.8	9.0	9.8	10.1	10.0	9.5	8.3	8.4	11.3	11.5	9.3	8.1	6.6	5.8	4.1	3.0	4.3	8.6	10.0	10.6	7.2	5.0	6.8	24	11.5	3.0	8.2
9/16/07	5.1	1.4	1.4	2.6	3.1	1.5	2.9	4.2	5.6	5.0	6.0	7.2	8.1	8.4	9.7	10.6	9.5	9.5	9.6	11.0	12.8	11.7	11.9	14.1	24	14.1	1.4	7.2
9/17/07	13.7	13.4	14.4	15.2	16.2	14.7	14.4	12.5	9.8	6.6	6.7	5.6	7.0	5.2	4.2	4.7	1.9	2.3	1.9	1.1	1.9	1.1	2.1	2.8	24	16.2	1.1	7.5
9/18/07	4.8	8.8	11.4	14.6	14.2	12.7	10.8	9.8	11.1	10.3	11.2	10.9	11.4	12.4	9.9	9.2	7.4	9.1	8.9	9.2	9.1	9.1	8.2	5.6	24	14.6	4.8	10.0
9/19/07	6.3	5.1	2.3	2.0	2.8	3.1	3.6	6.0	4.7	4.3	3.8	4.2	5.1	6.2	7.4	9.4	11.0	11.5	11.7	12.2	9.4	11.7	17.2	15.0	24	17.2	2.0	7.3
9/20/07	12.9	12.1	9.3	8.5	9.1	8.7	9.1	8.2	7.9	6.8	9.2	7.9	6.0	5.7	5.3	5.1	5.4	4.5	3.5	3.9	9.1	10.1	10.6	9.2	24	12.9	3.5	7.9
9/21/07	13.5	13.3	12.7	12.5	14.3	17.9	14.4	13.5	13.6	13.8	13.9	14.8	14.5	14.6	12.8	10.9	8.3	7.1	5.3	3.5	1.9	0.9	2.2	5.8	24	17.9	0.9	10.7
9/22/07	8.4	9.5	11.7	14.3	16.9	17.4	17.6	15.8	14.4	13.7	14.1	13.8	13.1	12.5	10.8	11.2	10.9	13.4	14.1	12.0	15.8	15.1	15.5	14.3	24	17.6	8.4	13.6
9/23/07	15.4	16.7	15.9	15.3	15.1	14.2	13.3	15.3	16.5	16.9	16.4	15.2	14.7	14.9	15.1	14.5	15.5	14.9	11.7	11.7	15.2	11.9	11.4	9.3	24	16.9	9.3	14.5
9/24/07	8.3	5.3	3.8	2.7	1.3	2.8	6.8	7.7	9.3	11.4	11.9	12.1	11.9	12.9	13.2	12.4	11.7	11.4	10.7	8.8	10.8	11.3	9.9	10.4	24	13.2	1.3	9.1
9/25/07	8.2	7.7	6.3	7.1	7.8	7.8	7.4	8.0	7.1	6.4	7.2	6.5	7.1	6.2	5.6	5.1	4.6	5.1	5.2	6.7	8.0	9.2	13.3	15.1	24	15.1	4.6	7.4
9/26/07	14.0	13.0	12.8	12.9	12.0	11.0	8.5	6.3	8.1	11.5	12.8	10.1	9.1	10.2	10.1	9.5	8.2	6.1	5.8	4.8	2.2	2.1	3.3	6.1	24	14.0	2.1	8.8
9/27/07	6.3	5.9	6.8	11.3	11.6	13.0	12.4	12.0	9.1	7.6	7.2	9.3	10.1	9.7	8.3	6.6	5.5	4.2	3.3	1.7	2.7	4.0	6.6	8.8	24	13.0	1.7	7.7
9/28/07	10.2	12.4	14.4	15.6	14.0	11.6	13.2	14.6	10.5	10.9	10.2	14.1	15.1	12.9	17.9	16.8	18.3	13.2	11.0	12.9	11.3	12.0	9.9	10.9	24	18.3	9.9	13.1
9/29/07	14.1	16.6	15.3	13.9	14.6	15.8	16.1	15.5	12.9	12.0	10.4	9.0	9.2	9.3	9.6	8.4	13.3	11.4	10.7	10.4	9.8	6.7	6.3	10.6	24	16.6	6.3	11.7
9/30/07	12.3	11.0	9.9	11.1	13.5	14.5	13.3	13.5	13.2	13.1	12.3	10.1	10.8	10.9	10.8	9.5	9.2	8.7	9.9	9.3	7.5	6.0	5.4	3.6	24	14.5	3.6	10.4
																									0			
hr max	16.2	16.7	15.9	15.6	16.9	17.9	17.6	16.7	16.5	16.9	16.4	15.2	15.1	14.9	17.9	16.8	18.3	14.9	14.1	14.1	15.8	15.3	17.2	15.6				
hr min	3.5	1.4	1.4	2.0	1.3	1.5	2.9	3.0	1.6	3.1	3.8	3.9	3.7	2.5	1.2	2.0	1.5	1.4	1.9	1.1	1.9	0.9	2.1	2.8				
average	10.5	10.6	10.4	10.8	11.0	11.2	11.0	10.4	9.4	9.3	9.2	9.0	8.9	8.9	8.8	8.3	8.0	7.3	7.3	7.6	8.6	8.8	9.6	10.1				

monthly	monthly	monthly
max hr	min hr	ave hr
18.3	0.9	9.4
9/28/07	9/21/07	

Validated by: Roger L Thompson Date: 10/8/07
Analyst: Denise Hazelman Date: 10/8/07

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
September-07
Deg
10mWD

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count
9/1/07	168	173	175	174	177	176	178	181	183	188	182	176	184	178	191	212	212	201	186	225	308	323	322	320	24
9/2/07	13	12	11	0	359	9	27	39	59	67	70	73	87	89	104	110	106	92	95	96	101	114	124	135	24
9/3/07	142	153	161	169	181	178	180	183	189	198	178	178	182	177	179	185	180	171	165	165	166	169	174	182	24
9/4/07	186	183	184	183	185	193	200	170	114	58	89	100	121	121	122	140	128	102	94	131	145	160	172	174	24
9/5/07	175	179	181	177	176	173	172	173	176	183	181	176	172	182	182	191	197	221	263	272	3	354	345	357	24
9/6/07	8	5	5	358	3	14	0	359	14	36	51	41	37	63	356	45	42	13	25	328	349	313	324	324	24
9/7/07	317	300	293	292	286	290	277	289	316	326	329	321	328	331	320	316	322	334	28	121	98	115	124	139	24
9/8/07	120	115	107	84	117	76	86	86	90	75	44	57	19	6	11	19	14	12	14	18	20	22	22	18	24
9/9/07	316	306	324	328	347	316	350	14	24	41	37	74	65	59	98	113	130	158	155	192	227	238	261	266	24
9/10/07	286	285	282	254	255	271	253	258	267	270	261	254	261	244	246	243	242	260	256	225	240	263	289	283	24
9/11/07	348	4	346	314	304	334	330	310	350	352	350	351	352	5	356	18	55	90	104	114	123	120	120	125	24
9/12/07	131	141	140	137	145	148	153	160	161	171	173	178	185	182	187	200	226	230	202	147	151	167	317	353	24
9/13/07	350	344	341	340	337	328	327	325	319	315	313	310	311	311	313	320	323	322	323	332	315	311	311	285	24
9/14/07	290	291	283	281	278	276	289	309	341	343	338	342	329	325	321	347	51	240	128	132	140	142	152	161	24
9/15/07	166	161	159	163	161	151	160	164	167	176	182	179	191	182	174	190	162	138	148	146	144	152	134	165	24
9/16/07	173	173	29	183	195	223	228	55	85	115	119	128	140	137	125	128	139	147	125	115	129	148	167	177	24
9/17/07	179	184	180	181	181	187	193	206	193	190	203	240	232	265	176	244	222	346	300	331	307	221	259	306	24
9/18/07	326	337	341	352	1	357	354	350	346	333	328	324	331	325	336	358	348	348	339	319	312	312	302	247	24
9/19/07	351	331	300	298	324	47	43	28	37	61	96	101	84	85	84	96	98	97	108	93	79	93	121	132	24
9/20/07	138	143	152	156	158	158	155	156	173	192	220	246	252	246	227	217	216	214	210	58	61	76	70	94	24
9/21/07	167	182	201	221	324	335	328	321	318	313	303	304	308	312	309	313	309	317	310	261	217	189	172	184	24
9/22/07	184	187	178	177	179	175	167	173	183	186	191	196	200	203	203	184	169	170	171	168	173	174	174	174	24
9/23/07	179	180	180	178	175	174	171	175	181	183	188	182	183	179	185	187	180	173	167	165	252	327	310	326	24
9/24/07	320	310	56	211	259	207	202	222	280	316	322	308	305	308	311	316	313	317	321	317	319	323	318	323	24
9/25/07	319	317	312	309	307	289	280	275	290	295	290	295	281	274	268	257	223	212	177	167	169	169	175	180	24
9/26/07	183	189	191	182	184	201	227	233	283	319	309	311	302	299	298	305	313	325	319	306	298	224	205	206	24
9/27/07	228	225	218	239	274	297	299	313	327	318	316	316	323	318	320	317	306	326	5	59	122	124	127	131	24
9/28/07	133	141	144	142	152	151	152	148	159	161	167	171	175	168	178	178	179	171	163	154	158	165	162	167	24
9/29/07	171	174	174	172	178	177	176	175	179	187	185	182	185	194	205	201	183	198	191	165	170	293	7	12	24
9/30/07	337	339	2	343	330	339	326	331	333	340	336	330	329	334	340	334	332	320	318	314	315	320	335	71	24
																									0

Validated by: Roger L Thompson Date: 10/8/07
Analyst: Denise Hazelman Date: 10/8/07

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
September-07
Deg
50mWD

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count
9/1/07	167	173	176	176	179	177	180	182	183	188	183	178	184	179	192	213	213	198	202	252	329	337	335	333	24
9/2/07	3	15	36	32	27	20	40	47	61	68	71	75	89	91	105	111	107	95	97	96	101	117	128	138	24
9/3/07	146	154	160	168	177	183	183	184	190	196	182	179	181	177	180	185	182	171	167	166	166	170	174	180	24
9/4/07	184	182	184	183	185	192	195	175	118	61	91	101	121	122	123	140	129	109	106	142	150	163	172	175	24
9/5/07	176	177	178	176	176	174	173	173	176	183	181	176	172	181	182	192	198	241	277	290	4	357	347	359	24
9/6/07	11	8	8	2	7	17	8	3	15	37	54	45	40	64	3	42	44	14	31	336	356	345	351	350	24
9/7/07	336	323	317	308	299	297	297	295	316	326	329	322	329	331	320	316	321	335	21	88	82	106	121	139	24
9/8/07	127	122	122	96	121	84	88	89	91	78	47	57	21	6	13	21	16	13	15	18	22	26	26	31	24
9/9/07	0	351	359	9	19	4	14	20	27	40	39	71	66	58	97	115	131	157	154	191	222	239	262	271	24
9/10/07	292	296	296	292	285	287	273	269	268	271	262	255	260	244	246	242	242	260	261	252	265	277	294	299	24
9/11/07	353	5	359	340	329	343	346	327	351	352	351	350	353	6	2	22	53	89	104	110	121	120	122	127	24
9/12/07	132	141	140	140	147	149	153	159	163	172	173	178	184	183	188	200	226	232	220	170	164	201	292	353	24
9/13/07	350	344	340	339	337	328	327	325	319	315	313	309	310	311	314	319	322	322	325	335	325	322	318	305	24
9/14/07	312	310	300	306	305	307	315	319	342	343	339	340	323	320	316	335	44	238	130	135	143	146	155	160	24
9/15/07	165	161	161	160	160	154	160	164	168	178	182	179	192	183	175	190	162	141	145	142	140	149	148	162	24
9/16/07	190	204	210	181	216	262	78	110	108	116	120	129	141	138	126	130	141	148	132	124	134	149	166	177	24
9/17/07	180	185	181	183	183	188	189	200	194	192	203	239	233	272	199	242	224	337	315	344	311	304	350	326	24
9/18/07	335	347	344	356	3	359	356	351	347	332	328	323	331	327	334	358	349	347	340	326	318	319	329	326	24
9/19/07	2	10	356	334	3	34	37	28	42	62	94	100	86	87	85	97	98	99	108	96	86	95	123	133	24
9/20/07	140	144	153	156	159	158	155	156	173	193	219	246	253	246	229	220	218	219	224	41	51	77	79	116	24
9/21/07	169	182	197	221	324	336	329	320	317	312	303	303	307	311	308	311	308	317	324	314	263	236	166	182	24
9/22/07	183	195	187	162	160	176	168	173	185	186	191	197	200	203	203	184	171	171	171	169	174	174	175	176	24
9/23/07	181	182	180	177	175	175	172	176	182	184	189	182	183	180	186	188	180	174	168	166	251	328	311	328	24
9/24/07	323	323	25	161	213	167	200	223	280	315	321	307	304	309	311	316	313	317	321	318	319	323	318	323	24
9/25/07	318	318	314	309	308	292	286	280	291	296	290	294	281	272	268	258	226	214	192	175	170	168	171	178	24
9/26/07	183	184	186	180	181	199	218	240	288	318	309	310	302	298	298	305	312	325	329	331	357	265	216	205	24
9/27/07	216	217	227	259	285	302	305	316	326	318	316	317	323	318	319	317	304	326	1	31	102	123	122	124	24
9/28/07	129	135	141	144	153	153	153	149	160	161	166	172	176	169	178	178	179	171	163	155	159	165	164	168	24
9/29/07	173	175	174	173	177	177	175	174	180	187	186	182	188	195	205	202	183	198	196	173	167	274	339	14	24
9/30/07	341	339	3	343	331	339	325	330	333	340	336	330	329	334	340	334	333	321	325	339	345	351	354	21	24
																									0

Validated by: Roger L Thompson Date: 10/8/07
Analyst: Denise Hazelman Date: 10/8/07

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
September-07
Deg
100WD

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count
9/1/07	177	183	184	184	187	188	190	189	189	192	189	185	190	186	198	218	218	204	209	264	335	342	349	350	24
9/2/07	7	24	46	48	46	42	54	59	68	74	77	81	95	97	111	117	113	102	103	101	106	127	137	152	24
9/3/07	161	169	174	181	191	191	190	191	196	200	191	184	186	184	187	192	188	178	175	177	177	180	185	190	24
9/4/07	191	191	191	191	197	206	216	200	138	70	98	111	126	129	131	145	137	121	122	158	166	174	179	185	24
9/5/07	186	186	187	187	187	186	184	183	182	188	186	181	178	186	189	196	204	250	278	300	9	3	352	4	24
9/6/07	17	16	18	11	16	25	20	12	21	44	62	55	54	73	12	48	50	19	36	342	3	1	6	8	24
9/7/07	348	344	341	324	313	313	316	307	322	329	332	326	333	334	323	321	323	339	27	89	88	113	128	143	24
9/8/07	140	135	137	121	133	97	95	97	98	86	56	64	26	11	18	26	21	17	19	22	27	33	35	41	24
9/9/07	11	4	12	25	43	32	23	31	35	43	44	74	72	62	98	119	135	160	160	198	224	238	263	280	24
9/10/07	298	299	310	309	299	302	291	286	278	276	267	260	264	249	249	246	246	266	270	272	281	293	308	317	24
9/11/07	1	10	6	352	345	353	356	345	354	354	354	353	357	10	7	32	57	94	110	118	127	128	130	134	24
9/12/07	139	146	146	148	154	155	157	163	168	177	178	183	188	189	194	204	230	237	231	200	189	220	298	356	24
9/13/07	352	345	341	340	339	330	329	327	321	318	317	312	313	313	317	323	324	324	328	337	332	331	328	322	24
9/14/07	328	325	319	328	327	329	330	333	345	345	340	340	324	325	310	338	38	230	138	142	151	152	163	167	24
9/15/07	172	172	173	169	170	166	168	172	175	183	186	184	197	188	180	193	169	148	152	149	152	165	172	190	24
9/16/07	228	249	347	245	244	227	151	143	125	123	126	134	145	141	132	136	147	153	141	136	144	163	176	187	24
9/17/07	189	191	191	191	191	196	194	216	211	202	210	240	233	270	211	246	236	330	319	324	308	271	336	315	24
9/18/07	343	356	356	5	12	5	1	354	350	335	330	326	333	331	336	359	351	349	346	338	334	330	339	337	24
9/19/07	26	38	18	324	344	44	59	47	58	69	97	106	93	93	91	103	104	106	113	103	99	105	131	140	24
9/20/07	146	150	159	163	166	166	164	164	181	198	225	250	256	250	237	227	224	225	231	47	50	79	93	141	24
9/21/07	182	190	201	233	327	339	332	323	321	316	306	307	311	314	312	314	311	320	327	323	302	277	181	193	24
9/22/07	187	193	191	191	192	189	182	184	190	191	194	200	204	207	207	189	176	177	177	176	180	181	183	182	24
9/23/07	187	188	186	183	181	181	179	183	187	189	191	188	188	186	190	192	185	180	174	171	255	332	317	334	24
9/24/07	332	343	44	124	150	183	203	229	285	318	324	311	308	313	315	319	317	320	325	322	323	326	322	326	24
9/25/07	322	322	319	314	313	299	295	291	297	300	293	297	284	276	272	262	231	220	202	184	181	178	181	187	24
9/26/07	191	190	191	191	191	209	236	267	299	321	313	314	306	301	301	309	315	328	333	337	329	296	247	216	24
9/27/07	226	228	246	273	296	312	317	326	332	323	319	321	326	321	322	319	307	329	4	35	110	126	128	134	24
9/28/07	138	142	147	151	162	165	164	158	165	166	171	177	180	174	184	184	184	177	168	161	165	171	171	175	24
9/29/07	180	181	179	179	182	182	181	180	186	192	192	187	193	198	209	206	189	202	202	185	178	269	342	19	24
9/30/07	346	344	7	348	336	341	328	333	336	342	338	333	332	336	342	337	335	326	331	344	348	352	358	24	24
																									0

Validated by: Roger L Thompson Date: 10/8/07
Analyst: Denise Hazelman Date: 10/8/07

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
September-07
Deg
10sigT

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
9/1/07	6.0	5.6	5.7	5.9	5.9	6.5	6.8	7.4	8.5	9.5	9.3	8.5	10.0	7.6	9.7	10.8	10.8	10.1	5.9	25.6	3.6	2.9	4.5	4.8	24	25.6	2.9	8.0
9/2/07	16.4	3.9	4.1	3.8	4.4	4.5	5.3	8.2	9.8	11.2	10.4	12.5	11.1	10.6	11.4	10.5	10.2	7.4	6.0	6.5	7.2	6.8	7.0	6.3	24	16.4	3.8	8.1
9/3/07	7.9	6.1	6.0	6.5	5.9	4.8	5.8	7.5	8.9	10.0	9.0	8.6	9.2	8.7	9.4	11.4	9.6	6.2	5.8	5.1	5.4	4.8	5.2	6.2	24	11.4	4.8	7.3
9/4/07	6.9	5.5	6.6	6.4	6.8	6.7	10.4	23.7	27.6	23.0	12.2	13.6	10.2	9.6	9.1	9.3	9.2	7.0	5.2	5.5	5.4	5.5	5.7	5.7	24	27.6	5.2	9.9
9/5/07	5.8	6.7	5.9	4.9	5.1	5.4	5.5	6.5	6.5	9.4	8.6	9.5	9.0	10.3	9.8	10.6	13.2	15.4	51.5	20.6	7.8	10.8	7.4	6.7	24	51.5	4.9	10.5
9/6/07	6.7	5.9	6.4	5.7	6.1	6.7	9.9	7.9	9.6	15.3	7.9	9.6	20.1	39.3	44.4	26.0	10.7	11.0	12.7	7.2	7.4	7.1	7.4	5.0	24	44.4	5.0	12.3
9/7/07	5.6	6.2	5.4	4.8	5.4	6.3	6.5	7.0	8.4	9.4	9.7	11.3	12.1	13.2	17.1	16.8	16.5	14.4	13.9	9.8	7.7	4.0	5.5	6.2	24	17.1	4.0	9.3
9/8/07	7.3	8.6	14.4	48.3	7.8	23.7	8.9	8.9	8.9	9.8	8.7	11.2	9.8	7.7	7.4	7.8	7.4	8.1	7.9	7.2	8.0	8.2	7.7	6.8	24	48.3	6.8	10.9
9/9/07	6.8	4.8	4.3	9.4	31.9	20.4	8.4	19.4	12.7	13.6	12.2	20.4	22.3	24.8	18.7	16.2	13.6	7.2	8.6	7.8	6.6	6.6	7.2	6.1	24	31.9	4.3	12.9
9/10/07	6.1	5.0	4.7	5.3	4.0	5.7	6.1	7.2	8.9	10.9	13.2	13.4	12.8	11.5	11.2	9.5	9.3	10.4	6.5	4.3	5.4	6.5	6.9	9.2	24	13.4	4.0	8.1
9/11/07	6.8	5.9	8.2	7.1	10.0	8.3	8.8	8.5	7.6	8.3	16.0	15.8	19.6	22.6	32.6	25.6	20.3	17.1	7.4	4.9	5.8	6.6	6.5	6.8	24	32.6	4.9	12.0
9/12/07	7.0	6.7	6.5	6.0	6.5	6.2	6.4	7.0	7.1	7.4	9.2	11.5	13.4	14.3	13.8	14.1	8.2	6.4	13.1	11.1	11.3	5.9	30.6	7.8	24	30.6	5.9	9.9
9/13/07	6.7	7.3	7.9	7.7	7.8	8.0	7.7	8.6	9.9	8.8	10.4	13.0	11.7	12.7	12.0	10.6	10.4	9.7	7.6	6.2	5.7	5.6	7.1	5.7	24	13.0	5.6	8.7
9/14/07	6.7	8.1	6.0	5.2	5.9	6.0	5.6	7.4	9.3	14.1	19.4	22.7	34.2	44.2	55.9	52.7	48.8	45.2	6.0	4.3	2.5	4.1	5.2	5.9	24	55.9	2.5	17.7
9/15/07	6.0	6.0	5.7	6.3	6.1	6.1	6.5	6.8	7.2	8.5	9.8	12.3	13.8	15.0	16.5	25.3	14.3	9.4	4.0	5.5	5.5	5.4	21.3	6.8	24	25.3	4.0	9.6
9/16/07	3.8	5.9	27.6	5.6	4.6	5.6	23.5	16.9	13.2	9.9	10.0	10.2	9.3	9.6	8.9	8.4	8.6	7.7	6.8	7.0	8.4	6.3	5.8	6.0	24	27.6	3.8	9.6
9/17/07	6.7	7.5	6.0	5.6	6.1	7.8	7.9	7.6	11.1	13.3	13.7	13.9	15.3	48.7	25.6	22.4	33.3	22.3	37.7	8.4	3.5	24.2	52.1	3.8	24	52.1	3.5	16.9
9/18/07	8.6	5.3	6.2	7.0	6.5	6.3	6.5	6.5	7.0	8.9	8.4	8.1	7.9	8.1	9.3	6.8	7.9	7.8	6.8	6.0	7.3	6.1	17.3	18.9	24	18.9	5.3	8.1
9/19/07	10.3	5.5	5.1	7.3	14.4	42.1	34.8	11.7	9.6	12.5	17.8	18.9	17.5	12.5	12.3	9.5	8.3	7.7	7.6	6.6	8.4	7.4	7.6	6.8	24	42.1	5.1	12.6
9/20/07	7.0	7.1	7.0	6.3	6.7	5.9	6.2	6.8	8.3	10.2	9.4	10.6	14.2	15.8	15.1	14.7	10.7	6.5	11.1	25.2	9.6	5.4	9.9	9.3	24	25.2	5.4	10.0
9/21/07	5.9	6.1	7.9	12.0	9.6	7.4	7.0	7.7	7.7	8.5	9.9	9.6	10.3	10.8	10.6	11.7	11.0	8.8	9.1	8.2	7.9	9.6	5.9	3.4	24	12.0	3.4	8.6
9/22/07	5.1	4.3	3.2	3.7	4.5	5.5	5.8	7.0	8.0	9.5	9.7	10.8	10.9	10.6	10.8	9.1	7.7	6.6	6.6	6.7	6.6	6.1	6.2	6.2	24	10.9	3.2	7.1
9/23/07	7.1	7.2	7.4	7.2	7.0	6.5	6.1	7.0	8.0	8.4	9.7	9.6	10.7	9.8	10.4	10.8	7.8	6.5	6.6	6.6	17.9	9.6	14.3	8.8	24	17.9	6.1	8.8
9/24/07	8.9	15.3	26.5	19.0	23.6	31.0	8.3	8.2	16.8	8.3	8.7	8.6	8.5	8.3	8.3	8.3	8.1	8.3	8.5	8.0	7.7	7.8	7.9	7.8	24	31.0	7.7	11.7
9/25/07	8.6	8.5	8.1	8.5	8.1	7.8	8.8	7.6	9.1	11.9	13.7	13.7	14.6	20.7	20.8	20.4	17.2	9.2	3.4	1.0	2.1	3.8	4.8	4.7	24	20.8	1.0	9.9
9/26/07	5.0	6.8	6.4	5.3	5.5	4.9	4.6	10.5	11.0	8.6	8.5	9.4	11.6	12.7	13.1	10.5	10.4	7.2	3.1	2.8	5.1	9.6	2.9	3.4	24	13.1	2.8	7.5
9/27/07	4.1	3.3	2.6	6.3	7.0	6.5	7.1	7.5	8.2	11.1	11.3	12.2	10.9	12.4	11.6	16.0	13.0	9.2	8.1	25.2	4.9	2.9	3.9	4.5	24	25.2	2.6	8.7
9/28/07	4.6	5.1	5.7	5.9	6.2	6.5	7.2	6.6	7.0	6.7	7.8	7.7	8.6	8.0	8.1	9.8	8.3	6.8	6.4	6.3	6.8	6.5	6.6	6.3	24	9.8	4.6	6.9
9/29/07	6.3	6.8	6.6	6.3	7.0	6.3	6.3	6.1	7.3	8.9	9.8	11.6	11.8	12.0	9.4	8.5	8.7	8.7	9.4	3.5	6.5	49.0	19.8	7.7	24	49.0	3.5	10.2
9/30/07	10.7	11.2	9.0	8.0	10.1	8.4	8.3	8.1	8.3	8.2	7.7	8.2	8.7	8.7	9.4	10.0	9.0	7.5	5.3	4.5	4.0	4.2	18.2	19.0	24	19.0	4.0	8.9
																									0			
hr max	16.4	15.3	27.6	48.3	31.9	42.1	34.8	23.7	27.6	23.0	19.4	22.7	34.2	48.7	55.9	52.7	48.8	45.2	51.5	25.6	17.9	49.0	52.1	19.0				
hr min	3.8	3.3	2.6	3.7	4.0	4.5	4.6	6.1	6.5	6.7	7.7	7.7	7.9	7.6	7.4	6.8	7.4	6.2	3.1	1.0	2.1	2.9	2.9	3.4				
average	7.0	6.6	7.8	8.2	8.2	9.5	8.6	8.9	9.7	10.5	10.7	11.9	13.0	15.4	15.4	14.5	12.8	10.5	10.0	8.6	6.7	8.3	10.6	7.1				

monthly max hr	monthly min hr	monthly ave hr
55.9	1.0	10.0
9/14/07	9/25/07	

Validated by: Roger L Thompson Date: 10/8/07
Analyst: Denise Hazelman Date: 10/8/07

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
September-07
Deg
50sigT

data channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
9/1/07	3.1	2.7	2.8	3.0	3.1	3.3	4.4	5.5	6.5	6.6	7.0	6.0	7.6	5.0	7.8	8.2	8.2	7.6	4.9	13.2	2.7	1.6	1.7	2.6	24	13.2	1.6	5.2
9/2/07	7.2	3.1	2.2	2.9	2.9	2.2	3.0	4.8	7.0	8.1	7.1	9.8	8.0	7.7	8.7	8.3	7.0	5.0	2.8	3.2	4.0	4.5	5.1	3.4	24	9.8	2.2	5.3
9/3/07	4.0	2.8	2.4	2.9	1.7	2.4	2.2	4.7	6.3	7.1	7.1	6.1	7.0	6.0	6.4	9.5	6.4	3.5	2.4	1.5	1.3	1.7	2.2	2.4	24	9.5	1.3	4.2
9/4/07	2.8	1.9	2.9	2.6	2.7	1.9	2.9	19.6	26.4	15.8	8.1	9.7	8.6	7.1	7.4	7.3	6.7	4.8	4.1	2.1	1.7	2.1	2.6	2.5	24	26.4	1.7	6.4
9/5/07	2.5	2.9	2.2	1.4	1.6	1.9	2.1	3.6	4.6	6.8	5.7	6.9	6.5	8.4	7.9	8.0	9.9	10.6	6.8	14.3	5.5	8.8	5.0	4.6	24	14.3	1.4	5.8
9/6/07	4.5	3.5	3.3	3.8	3.9	3.5	7.0	5.5	6.9	8.2	3.9	7.4	14.7	21.0	30.4	21.3	8.8	8.6	10.5	4.6	4.5	4.8	6.3	3.0	24	30.4	3.0	8.3
9/7/07	2.9	3.7	2.9	2.6	1.7	2.0	2.6	3.8	6.5	6.8	7.3	8.7	9.4	10.8	14.7	12.4	12.2	9.8	6.9	11.4	3.1	1.9	2.5	1.9	24	14.7	1.7	6.2
9/8/07	4.5	6.0	7.2	46.1	5.3	19.1	6.9	6.8	6.1	7.4	6.3	9.5	7.2	5.1	5.3	5.4	5.6	6.0	5.6	5.1	5.1	5.5	5.5	2.6	24	46.1	2.6	8.1
9/9/07	5.5	3.0	3.8	1.7	3.2	4.2	3.0	6.4	9.5	10.8	9.4	15.6	18.6	19.6	14.8	14.0	11.8	4.4	2.9	4.6	4.4	3.6	3.5	2.8	24	19.6	1.7	7.5
9/10/07	1.9	2.1	1.7	1.5	1.8	1.5	3.3	4.2	6.7	7.9	10.5	10.5	11.6	8.8	8.9	6.8	6.5	9.2	3.6	3.6	3.0	3.3	3.1	4.4	24	11.6	1.5	5.3
9/11/07	5.9	3.4	3.8	3.7	4.5	3.1	3.1	5.8	5.9	6.2	12.9	14.2	14.2	17.1	25.5	21.7	17.6	12.8	4.7	1.8	2.1	3.1	3.5	4.3	24	25.5	1.8	8.4
9/12/07	4.8	3.5	3.6	3.2	3.8	3.9	4.2	4.6	5.0	5.0	7.9	8.9	10.4	11.0	10.7	10.6	6.1	5.7	6.6	6.2	7.6	11.9	26.8	5.1	24	26.8	3.2	7.4
9/13/07	4.8	5.2	5.9	5.8	5.9	5.9	5.6	6.9	7.9	6.9	8.0	10.0	9.6	10.5	9.0	9.1	8.1	7.0	5.7	3.6	2.6	2.5	3.4	3.9	24	10.5	2.5	6.4
9/14/07	3.8	4.7	2.0	3.4	3.4	5.0	2.7	4.5	7.0	10.9	15.4	18.3	28.6	33.7	45.0	45.9	46.9	49.0	6.8	4.1	1.9	1.1	1.6	2.0	24	49.0	1.1	14.5
9/15/07	2.7	2.3	2.5	3.0	3.5	3.0	3.5	4.5	5.0	6.1	7.4	9.3	11.5	11.9	14.5	21.3	14.1	7.7	1.3	1.8	1.6	1.5	3.3	3.2	24	21.3	1.3	6.1
9/16/07	5.0	5.0	16.7	6.6	4.2	5.6	27.2	3.0	7.7	6.5	7.4	7.8	6.7	7.5	7.6	6.8	7.6	5.2	4.7	5.6	5.7	3.1	3.0	3.1	24	27.2	3.0	7.1
9/17/07	3.7	5.1	2.3	2.6	3.1	3.7	4.0	3.4	6.1	8.5	10.3	9.1	10.8	25.9	43.1	18.5	27.1	17.3	37.5	17.0	4.4	11.6	37.7	2.3	24	43.1	2.3	13.1
9/18/07	1.7	2.2	4.1	3.8	4.2	3.9	4.5	4.7	5.1	6.1	6.0	5.5	6.0	6.0	7.0	4.7	5.4	6.0	4.7	2.7	4.5	2.4	2.9	4.8	24	7.0	1.7	4.5
9/19/07	6.0	3.0	4.5	7.4	5.4	6.2	7.8	7.5	8.7	8.9	13.9	15.6	12.8	9.8	9.3	6.8	5.2	4.6	5.0	3.5	5.3	4.2	5.7	5.2	24	15.6	3.0	7.2
9/20/07	4.6	4.8	4.4	4.0	3.8	3.7	3.7	4.2	6.3	7.9	6.5	7.9	12.2	13.3	13.5	12.7	7.9	5.8	4.4	22.1	4.4	2.6	4.6	6.8	24	22.1	2.6	7.2
9/21/07	3.0	3.4	3.8	9.0	7.8	5.9	4.9	5.9	5.4	5.8	7.8	7.5	8.1	8.6	8.0	9.5	9.0	6.1	3.9	4.9	10.6	52.4	9.4	3.3	24	52.4	3.0	8.5
9/22/07	2.9	2.2	2.7	2.2	1.4	1.6	2.5	4.0	6.7	7.2	7.4	8.4	7.7	7.5	8.6	6.8	5.6	4.3	4.5	4.2	4.5	4.0	4.2	4.6	24	8.6	1.4	4.8
9/23/07	5.3	5.7	5.5	4.8	4.4	4.3	4.4	4.9	6.3	6.5	6.6	7.8	8.3	7.9	9.0	8.6	5.7	4.6	4.8	4.7	15.5	7.3	12.5	6.4	24	15.5	4.3	6.7
9/24/07	6.5	7.6	11.6	31.5	34.1	45.2	4.7	4.8	14.4	5.7	6.1	6.1	5.8	5.7	5.9	6.0	6.2	6.2	6.4	6.2	5.5	5.5	6.4	5.5	24	45.2	4.7	10.4
9/25/07	6.2	6.9	6.8	6.2	5.7	5.2	5.1	3.7	6.3	9.0	9.8	11.7	12.3	17.6	16.8	17.9	14.2	6.6	3.6	1.7	1.7	0.7	0.8	1.1	24	17.9	0.7	7.4
9/26/07	2.5	2.4	3.3	1.7	2.3	1.9	2.0	4.8	9.3	6.8	5.8	6.3	8.9	11.0	11.8	8.6	8.2	5.2	1.7	3.0	21.5	5.5	7.0	2.0	24	21.5	1.7	6.0
9/27/07	1.8	2.5	3.3	3.0	2.8	2.6	3.2	5.0	6.0	9.6	9.0	10.0	9.0	9.8	8.6	13.6	11.1	8.2	4.5	6.8	5.5	2.0	1.7	1.4	24	13.6	1.4	5.9
9/28/07	1.2	1.3	1.4	2.2	2.9	3.1	3.9	4.1	4.5	4.2	5.4	5.5	7.0	5.9	5.9	7.3	6.1	4.6	4.3	3.9	4.5	4.6	4.6	4.2	24	7.3	1.2	4.3
9/29/07	4.0	4.6	4.9	4.5	4.3	3.9	3.4	3.4	5.3	6.2	7.4	9.1	10.1	9.4	6.3	6.4	6.6	5.8	4.4	2.3	3.2	23.7	10.1	5.5	24	23.7	2.3	6.5
9/30/07	8.1	8.0	6.4	4.5	7.3	6.7	6.7	5.9	5.9	5.9	5.4	5.9	7.0	6.5	7.7	8.4	6.8	4.6	2.3	1.7	1.3	1.4	3.2	7.1	24	8.4	1.3	5.6
																									0			
hr max	8.1	8.0	16.7	46.1	34.1	45.2	27.2	19.6	26.4	15.8	15.4	18.3	28.6	33.7	45.0	45.9	46.9	49.0	37.5	22.1	21.5	52.4	37.7	7.1				
hr min	1.2	1.3	1.4	1.4	1.4	1.5	2.0	3.0	4.5	4.2	3.9	5.5	5.8	5.0	5.3	4.7	5.2	3.5	1.3	1.5	1.3	0.7	0.8	1.1				
average	4.1	3.9	4.4	6.1	4.8	5.5	4.8	5.4	7.4	7.5	8.0	9.2	10.2	11.2	12.9	11.7	10.3	8.2	5.7	5.7	5.0	6.3	6.3	3.7				

monthly max hr	monthly min hr	monthly ave hr
52.4	0.7	7.0
9/21/07	9/25/07	

Validated by: Roger L Thompson Date: 10/8/07
Analyst: Denise Hazelman Date: 10/8/07

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
September-07
Deg
100sT

data channel Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
9/1/07	1.7	2.3	2.6	2.7	2.9	3.4	3.5	4.1	4.6	5.2	5.5	5.3	5.8	4.3	6.7	7.7	7.7	7.2	3.5	15.2	2.6	1.6	4.5	3.4	24	15.2	1.6	4.8
9/2/07	4.3	3.5	1.9	1.8	2.4	1.4	2.5	3.3	6.6	6.6	5.8	8.1	7.1	7.4	7.4	7.0	6.1	4.5	1.8	1.5	2.3	3.2	2.9	2.2	24	8.1	1.4	4.2
9/3/07	2.6	1.5	1.3	1.8	2.2	2.2	2.2	3.1	5.4	6.6	6.6	5.7	6.2	5.2	5.9	7.8	5.3	3.5	2.2	1.1	1.2	2.1	2.8	2.7	24	7.8	1.1	3.6
9/4/07	2.3	2.2	2.2	2.6	3.1	1.8	1.9	13.0	32.8	12.7	7.5	7.5	6.9	6.0	6.7	6.8	5.3	2.5	4.9	2.2	1.7	2.2	2.8	2.9	24	32.8	1.7	5.9
9/5/07	2.6	2.2	2.1	1.9	1.8	1.9	1.7	2.9	4.2	5.5	4.8	6.0	5.8	7.0	6.7	6.9	9.0	8.7	4.2	13.0	4.8	8.1	5.3	4.4	24	13.0	1.7	5.1
9/6/07	4.0	2.8	2.7	2.4	2.8	2.6	5.4	5.8	6.6	6.4	2.9	6.0	13.3	28.2	38.9	20.4	8.1	7.0	9.8	4.4	4.4	4.2	5.5	2.2	24	38.9	2.2	8.2
9/7/07	3.7	2.8	2.1	2.5	2.2	1.7	1.7	2.9	5.5	6.0	6.1	7.3	8.1	9.5	12.4	9.6	9.8	9.1	7.0	7.2	3.6	2.3	1.8	0.9	24	12.4	0.9	5.2
9/8/07	1.6	3.7	3.9	46.3	3.7	17.9	5.9	5.9	5.1	7.0	5.4	7.8	6.6	4.5	4.6	4.5	5.0	5.6	5.2	4.5	4.2	4.5	4.9	2.8	24	46.3	1.6	7.1
9/9/07	5.1	3.7	4.5	1.9	3.9	4.5	2.6	3.6	8.3	9.7	8.1	13.2	15.5	17.8	14.5	11.9	10.1	3.3	2.5	4.9	3.7	3.2	2.8	1.7	24	17.8	1.7	6.7
9/10/07	1.7	1.7	1.9	1.4	1.7	2.6	2.6	2.8	5.7	6.6	10.1	9.2	11.2	7.8	8.1	6.2	5.3	8.6	2.9	1.9	2.6	2.5	2.7	3.0	24	11.2	1.4	4.6
9/11/07	5.4	3.1	2.9	2.9	2.7	1.8	3.7	4.0	6.0	6.6	12.3	13.3	14.3	17.9	19.7	21.5	14.9	11.2	4.4	2.2	1.3	1.4	1.1	1.8	24	21.5	1.1	7.4
9/12/07	1.9	1.0	1.4	1.6	1.9	2.4	2.5	3.3	4.3	4.3	6.5	7.3	9.2	9.1	9.9	10.1	5.7	4.8	5.7	9.7	6.6	6.1	12.0	5.4	24	12.0	1.0	5.5
9/13/07	5.3	4.2	4.6	4.7	5.0	4.6	4.3	5.9	7.2	5.7	7.2	8.6	8.6	9.1	7.8	8.2	6.9	5.8	4.9	2.4	2.0	2.3	2.3	3.1	24	9.1	2.0	5.4
9/14/07	3.0	2.3	2.1	1.7	2.0	2.1	1.0	2.6	6.2	9.8	14.0	15.8	29.3	30.7	36.7	45.3	58.0	50.4	6.3	3.7	1.6	1.3	1.2	1.0	24	58.0	1.0	13.7
9/15/07	1.0	1.1	1.0	1.0	1.5	1.6	1.8	3.1	5.0	5.1	6.4	8.4	10.2	10.9	13.9	17.9	13.8	7.3	2.0	1.5	1.4	1.5	2.6	5.4	24	17.9	1.0	5.2
9/16/07	7.7	29.2	23.7	12.3	4.5	42.6	3.5	4.7	3.2	6.0	6.1	6.4	5.3	6.3	5.7	5.7	6.8	4.2	3.4	3.4	3.4	1.8	2.1	3.2	24	42.6	1.8	8.4
9/17/07	3.3	3.0	2.2	2.7	2.4	3.8	3.2	3.7	6.2	6.5	9.1	7.7	8.5	9.6	25.8	16.6	23.1	24.6	31.6	39.0	5.8	14.8	13.0	5.9	24	39.0	2.2	11.3
9/18/07	3.0	4.7	3.7	3.2	3.7	3.8	6.4	5.2	4.4	4.9	4.8	4.6	4.6	4.3	5.6	5.6	5.1	4.9	3.5	2.4	4.2	2.2	2.3	4.2	24	6.4	2.2	4.2
9/19/07	5.5	2.5	6.9	13.0	8.1	5.2	11.5	4.2	5.7	8.9	13.3	14.4	11.6	8.6	7.8	5.6	4.0	3.4	3.7	2.0	4.1	3.7	3.7	3.9	24	14.4	2.0	6.7
9/20/07	3.7	3.5	3.3	2.2	2.5	2.2	2.4	2.8	5.2	6.7	5.3	6.8	11.7	11.3	13.5	12.6	7.4	5.2	3.4	40.1	3.2	3.3	5.0	6.4	24	40.1	2.2	7.1
9/21/07	2.6	2.4	3.5	8.4	7.2	4.7	3.9	5.1	4.4	4.7	6.6	6.1	6.9	8.0	7.2	8.1	9.0	5.5	3.3	4.0	7.6	33.3	5.7	2.7	24	33.3	2.4	6.7
9/22/07	2.1	2.6	2.0	2.1	2.1	2.0	1.8	3.2	4.9	6.1	6.1	7.7	7.7	7.4	8.2	6.2	4.9	3.5	3.2	3.3	3.8	3.6	3.6	4.0	24	8.2	1.8	4.3
9/23/07	4.6	4.4	4.5	4.0	3.3	3.8	3.5	4.3	5.3	4.9	4.9	6.1	6.8	6.8	7.7	7.3	4.8	4.2	3.8	3.7	13.9	5.9	10.4	4.8	24	13.9	3.3	5.6
9/24/07	5.6	7.0	7.6	15.8	28.0	14.2	4.4	3.7	13.5	4.7	5.0	4.8	5.3	5.0	5.0	5.1	5.2	5.0	5.0	5.1	4.7	4.4	5.2	4.6	24	28.0	3.7	7.2
9/25/07	5.0	5.5	6.2	5.2	4.2	3.8	3.6	2.0	4.6	8.1	8.2	10.3	10.7	16.2	15.1	16.2	12.4	6.7	3.4	2.3	1.4	0.9	1.3	1.7	24	16.2	0.9	6.5
9/26/07	2.2	2.2	2.4	2.4	2.3	3.0	2.1	5.0	7.1	6.1	4.3	5.3	7.9	9.9	11.6	8.1	7.3	5.0	1.1	2.8	4.5	4.5	5.7	3.8	24	11.6	1.1	4.9
9/27/07	2.1	1.9	3.9	2.8	2.2	2.0	2.1	3.5	5.6	8.0	7.6	7.8	8.0	8.8	7.5	13.3	10.8	7.6	4.9	6.8	5.2	2.8	1.9	1.2	24	13.3	1.2	5.3
9/28/07	0.9	0.7	0.8	0.9	1.2	1.3	1.8	3.0	3.8	3.3	5.0	5.1	6.2	5.6	5.5	6.1	5.3	3.9	3.2	3.1	3.8	3.7	3.8	3.5	24	6.2	0.7	3.4
9/29/07	3.4	4.1	4.1	3.9	4.0	3.0	1.9	2.3	4.4	4.8	6.2	7.9	9.1	8.5	5.2	5.9	5.0	4.8	3.2	2.6	2.9	20.2	8.6	4.6	24	20.2	1.9	5.4
9/30/07	7.3	6.3	6.7	2.9	4.7	5.7	5.6	4.9	4.7	4.9	4.6	4.9	6.1	6.1	6.5	7.9	5.4	3.3	2.1	1.4	1.3	1.3	5.9	4.6	24	7.9	1.3	4.8
																									0			
hr max	7.7	29.2	23.7	46.3	28.0	42.6	11.5	13.0	32.8	12.7	14.0	15.8	29.3	30.7	38.9	45.3	58.0	50.4	31.6	40.1	13.9	33.3	13.0	6.4				
hr min	0.9	0.7	0.8	0.9	1.2	1.3	1.0	2.0	3.2	3.3	2.9	4.6	4.6	4.3	4.6	4.5	4.0	2.5	1.1	1.1	1.2	0.9	1.1	0.9				
average	3.5	3.9	4.0	5.3	4.0	5.1	3.4	4.1	6.6	6.4	6.9	7.8	9.2	9.9	11.3	10.7	9.6	7.7	4.9	6.6	3.8	5.1	4.4	3.4				

monthly max hr	monthly min hr	monthly ave hr
58.0	0.7	6.1
9/14/07	9/28/07	

Validated by: Roger L Thompson Date: 10/8/07
Analyst: Denise Hazelman Date: 10/8/07

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
September-07
mps
10VWS

data channel mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
9/1/07	0.23	0.19	0.17	0.17	0.19	0.18	0.28	0.37	0.41	0.46	0.36	0.39	0.40	0.27	0.34	0.27	0.27	0.16	0.14	0.16	0.36	0.32	0.29	0.32	24	0.46	0.14	0.28
9/2/07	0.20	0.29	0.21	0.27	0.24	0.20	0.23	0.20	0.34	0.39	0.34	0.36	0.27	0.31	0.31	0.43	0.33	0.23	0.22	0.27	0.28	0.31	0.29	0.29	24	0.43	0.20	0.28
9/3/07	0.24	0.30	0.29	0.19	0.18	0.15	0.21	0.25	0.29	0.22	0.19	0.22	0.27	0.27	0.26	0.27	0.21	0.14	0.20	0.21	0.19	0.16	0.14	0.21	24	0.30	0.14	0.22
9/4/07	0.24	0.24	0.26	0.25	0.25	0.21	0.23	0.21	0.19	0.23	0.21	0.29	0.30	0.37	0.37	0.35	0.32	0.26	0.17	0.26	0.23	0.22	0.18	0.18	24	0.37	0.17	0.25
9/5/07	0.16	0.22	0.22	0.17	0.15	0.18	0.19	0.21	0.25	0.35	0.30	0.30	0.31	0.33	0.34	0.35	0.25	0.19	0.15	0.34	0.51	0.47	0.53	0.50	24	0.53	0.15	0.29
9/6/07	0.45	0.42	0.40	0.40	0.43	0.38	0.33	0.36	0.42	0.33	0.25	0.32	0.20	0.20	0.13	0.17	0.22	0.24	0.22	0.23	0.27	0.27	0.25	0.28	24	0.45	0.13	0.30
9/7/07	0.30	0.28	0.25	0.29	0.31	0.34	0.28	0.37	0.46	0.58	0.59	0.60	0.55	0.46	0.40	0.41	0.27	0.24	0.17	0.12	0.14	0.22	0.23	0.26	24	0.60	0.12	0.34
9/8/07	0.24	0.23	0.22	0.37	0.37	0.38	0.41	0.40	0.47	0.36	0.34	0.35	0.38	0.60	0.70	0.71	0.57	0.50	0.48	0.38	0.31	0.28	0.26	0.19	24	0.71	0.19	0.40
9/9/07	0.23	0.25	0.26	0.22	0.16	0.22	0.24	0.16	0.22	0.22	0.23	0.21	0.28	0.23	0.20	0.15	0.21	0.15	0.14	0.14	0.17	0.20	0.25	0.29	24	0.29	0.14	0.21
9/10/07	0.26	0.23	0.22	0.19	0.23	0.29	0.23	0.29	0.33	0.42	0.39	0.33	0.44	0.39	0.47	0.49	0.50	0.50	0.36	0.25	0.28	0.36	0.41	0.30	24	0.50	0.19	0.34
9/11/07	0.34	0.32	0.29	0.28	0.33	0.36	0.27	0.28	0.45	0.52	0.39	0.31	0.29	0.28	0.20	0.22	0.21	0.15	0.18	0.18	0.22	0.21	0.25	0.24	24	0.52	0.15	0.28
9/12/07	0.29	0.24	0.28	0.32	0.34	0.42	0.44	0.42	0.38	0.26	0.25	0.24	0.27	0.24	0.31	0.21	0.20	0.19	0.13	0.12	0.12	0.12	0.30	0.61	24	0.61	0.12	0.28
9/13/07	0.59	0.65	0.79	0.80	0.83	0.66	0.55	0.69	0.66	0.69	0.78	0.64	0.72	0.80	0.74	0.73	0.68	0.65	0.54	0.34	0.36	0.33	0.38	0.29	24	0.83	0.29	0.62
9/14/07	0.28	0.29	0.29	0.26	0.28	0.28	0.29	0.32	0.41	0.44	0.37	0.25	0.25	0.27	0.20	0.17	0.16	0.13	0.14	0.14	0.15	0.18	0.20	0.21	24	0.44	0.13	0.25
9/15/07	0.16	0.18	0.22	0.20	0.23	0.25	0.29	0.26	0.30	0.30	0.32	0.28	0.28	0.17	0.16	0.19	0.13	0.22	0.19	0.20	0.22	0.20	0.16	0.10	24	0.32	0.10	0.22
9/16/07	0.10	0.12	0.14	0.14	0.17	0.16	0.12	0.12	0.14	0.23	0.24	0.33	0.32	0.37	0.39	0.42	0.38	0.27	0.30	0.26	0.27	0.33	0.21	0.22	24	0.42	0.10	0.24
9/17/07	0.21	0.22	0.21	0.23	0.25	0.28	0.24	0.20	0.21	0.19	0.19	0.23	0.24	0.23	0.20	0.22	0.13	0.19	0.19	0.19	0.22	0.15	0.12	0.24	24	0.28	0.12	0.21
9/18/07	0.27	0.30	0.30	0.48	0.56	0.52	0.49	0.49	0.58	0.60	0.68	0.63	0.62	0.64	0.52	0.42	0.36	0.41	0.39	0.34	0.31	0.33	0.20	0.13	24	0.68	0.13	0.44
9/19/07	0.19	0.26	0.26	0.27	0.24	0.12	0.16	0.17	0.20	0.19	0.21	0.19	0.28	0.22	0.30	0.34	0.40	0.31	0.32	0.25	0.22	0.27	0.46	0.50	24	0.50	0.12	0.26
9/20/07	0.40	0.34	0.26	0.28	0.35	0.26	0.34	0.29	0.25	0.23	0.33	0.38	0.34	0.25	0.26	0.23	0.23	0.17	0.15	0.18	0.17	0.16	0.16	0.14	24	0.40	0.14	0.26
9/21/07	0.14	0.18	0.20	0.25	0.72	0.99	0.75	0.72	0.77	0.85	0.83	0.93	0.92	0.93	0.80	0.66	0.52	0.40	0.26	0.16	0.14	0.09	0.12	0.14	24	0.99	0.09	0.52
9/22/07	0.13	0.13	0.13	0.13	0.16	0.15	0.16	0.17	0.30	0.46	0.44	0.51	0.41	0.36	0.37	0.27	0.35	0.33	0.26	0.30	0.26	0.21	0.22	0.20	24	0.51	0.13	0.27
9/23/07	0.30	0.35	0.32	0.29	0.28	0.22	0.22	0.28	0.47	0.52	0.59	0.43	0.47	0.42	0.48	0.48	0.35	0.29	0.35	0.48	0.59	0.54	0.53	0.41	24	0.59	0.22	0.40
9/24/07	0.38	0.25	0.15	0.16	0.16	0.14	0.18	0.21	0.48	0.69	0.68	0.70	0.68	0.79	0.75	0.76	0.68	0.65	0.59	0.49	0.59	0.63	0.55	0.59	24	0.79	0.14	0.50
9/25/07	0.47	0.44	0.38	0.41	0.36	0.35	0.30	0.32	0.36	0.41	0.44	0.38	0.47	0.38	0.35	0.33	0.23	0.16	0.12	0.12	0.12	0.13	0.12	0.18	24	0.47	0.12	0.31
9/26/07	0.21	0.21	0.19	0.18	0.18	0.20	0.22	0.19	0.38	0.54	0.65	0.62	0.53	0.59	0.61	0.60	0.54	0.34	0.26	0.28	0.17	0.12	0.14	0.12	24	0.65	0.12	0.34
9/27/07	0.16	0.16	0.14	0.23	0.36	0.41	0.37	0.48	0.51	0.48	0.44	0.56	0.67	0.62	0.54	0.43	0.40	0.29	0.22	0.12	0.13	0.15	0.14	0.18	24	0.67	0.12	0.34
9/28/07	0.19	0.20	0.23	0.25	0.26	0.25	0.32	0.43	0.46	0.57	0.46	0.50	0.51	0.61	0.48	0.50	0.49	0.36	0.44	0.53	0.48	0.54	0.45	0.39	24	0.61	0.19	0.41
9/29/07	0.30	0.38	0.33	0.30	0.28	0.25	0.24	0.25	0.36	0.38	0.39	0.36	0.33	0.36	0.26	0.22	0.35	0.31	0.22	0.16	0.17	0.21	0.20	0.38	24	0.39	0.16	0.29
9/30/07	0.49	0.47	0.40	0.43	0.56	0.68	0.65	0.75	0.77	0.78	0.75	0.62	0.67	0.71	0.65	0.61	0.54	0.45	0.34	0.32	0.32	0.29	0.30	0.12	24	0.78	0.12	0.53
																									0			
hr max	0.59	0.65	0.79	0.80	0.83	0.99	0.75	0.75	0.77	0.85	0.83	0.93	0.92	0.93	0.80	0.76	0.68	0.65	0.59	0.53	0.59	0.63	0.55	0.61				
hr min	0.10	0.12	0.13	0.13	0.15	0.12	0.12	0.12	0.14	0.19	0.19	0.19	0.20	0.17	0.13	0.15	0.13	0.13	0.12	0.12	0.12	0.09	0.12	0.10				
average	0.27	0.28	0.27	0.28	0.31	0.32	0.31	0.33	0.39	0.43	0.42	0.42	0.42	0.42	0.40	0.39	0.35	0.30	0.26	0.25	0.27	0.27	0.27	0.27				

monthly max hr	monthly min hr	monthly ave hr
0.99	0.09	0.33
9/21/07	9/21/07	

Validated by: Roger L Thompson Date: 10/8/07
Analyst: Denise Hazelman Date: 10/8/07

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
September-07
mps
50VWS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
9/1/07	0.57	0.36	0.13	0.08	-0.02	0.14	0.13	0.17	0.27	0.36	0.26	0.22	0.32	0.12	0.29	0.36	0.36	0.14	0.13	0.20	0.11	0.24	0.31	0.25	24	0.57	-0.02	0.23
9/2/07	0.13	0.23	0.07	0.13	0.05	0.16	0.18	0.13	0.23	0.43	0.22	0.30	0.15	0.22	0.33	0.47	0.40	0.27	0.37	0.46	0.41	0.48	0.53	0.64	24	0.64	0.05	0.29
9/3/07	0.57	0.67	0.70	0.52	-0.01	0.03	-0.04	0.08	0.33	0.19	0.14	0.02	0.14	0.12	0.20	0.30	0.12	0.35	0.59	0.70	0.75	0.64	0.30	-0.02	24	0.75	-0.04	0.31
9/4/07	0.07	-0.07	0.05	0.00	0.13	0.43	0.55	0.35	0.17	0.15	0.04	0.28	0.20	0.28	0.44	0.37	0.33	0.29	0.39	0.74	0.79	0.67	0.46	0.19	24	0.79	-0.07	0.30
9/5/07	0.13	0.13	-0.05	0.04	0.19	0.49	0.61	0.34	0.14	0.23	0.14	0.26	0.23	0.26	0.32	0.31	0.34	0.34	0.17	0.23	0.43	0.38	0.40	0.35	24	0.61	-0.05	0.27
9/6/07	0.37	0.35	0.36	0.36	0.35	0.36	0.23	0.21	0.28	0.28	0.26	0.22	0.14	0.24	0.00	0.05	0.14	0.15	0.09	0.17	0.27	0.26	0.25	0.29	24	0.37	0.00	0.24
9/7/07	0.25	0.19	0.13	0.17	0.24	0.39	0.21	0.29	0.22	0.26	0.24	0.33	0.25	0.31	0.09	0.30	-0.01	0.15	0.11	0.10	0.05	0.01	0.16	0.75	24	0.75	-0.01	0.22
9/8/07	0.42	0.43	0.48	0.45	0.66	0.52	0.38	0.43	0.51	0.40	0.29	0.22	0.18	0.50	0.49	0.52	0.44	0.45	0.38	0.21	0.23	0.24	0.19	0.10	24	0.66	0.10	0.38
9/9/07	0.05	0.12	0.21	0.19	0.05	0.12	0.03	0.07	0.09	0.07	0.07	0.21	0.24	0.13	0.20	0.10	0.23	0.22	0.22	0.12	0.23	0.28	0.26	0.34	24	0.34	0.03	0.16
9/10/07	0.37	0.28	0.25	0.11	0.13	0.27	0.23	0.29	0.26	0.15	0.34	0.12	0.31	0.39	0.40	0.50	0.51	0.41	0.42	0.46	0.69	0.63	0.47	0.38	24	0.69	0.11	0.35
9/11/07	0.34	0.32	0.29	0.29	0.28	0.35	0.28	0.14	0.25	0.18	0.16	0.18	0.11	0.17	-0.01	0.00	0.15	0.09	0.27	0.51	0.64	0.51	0.51	0.49	24	0.64	-0.01	0.27
9/12/07	0.50	0.51	0.57	0.60	0.68	0.81	0.73	0.68	0.48	0.28	0.19	0.20	0.10	0.18	0.38	0.18	0.22	0.26	0.06	0.05	0.08	0.07	0.19	0.47	24	0.81	0.05	0.35
9/13/07	0.43	0.52	0.49	0.52	0.53	0.48	0.30	0.38	0.56	0.38	0.53	0.41	0.36	0.39	0.40	0.42	0.44	0.35	0.42	0.24	0.39	0.42	0.39	0.20	24	0.56	0.20	0.41
9/14/07	0.29	0.33	0.34	0.22	0.22	0.17	0.31	0.26	0.08	0.14	0.21	0.06	0.28	-0.02	0.16	0.06	0.08	0.05	0.10	0.27	0.46	0.70	0.72	0.74	24	0.74	-0.02	0.26
9/15/07	0.57	0.54	0.58	0.58	0.67	0.63	0.61	0.47	0.45	0.16	0.21	0.11	0.27	-0.01	0.12	0.20	0.12	0.25	0.46	0.66	0.71	0.64	0.50	0.43	24	0.71	-0.01	0.41
9/16/07	0.19	0.29	0.11	0.11	0.12	0.26	0.02	0.02	0.15	0.24	0.26	0.24	0.24	0.58	0.47	0.55	0.56	0.44	0.44	0.41	0.54	0.65	0.57	0.15	24	0.65	0.02	0.32
9/17/07	0.05	0.18	-0.05	-0.02	0.05	0.49	0.50	0.48	0.25	0.22	0.20	0.28	0.28	0.14	0.19	0.16	0.05	0.09	0.08	0.04	0.03	0.07	0.06	0.02	24	0.50	-0.05	0.16
9/18/07	0.10	0.16	0.20	0.41	0.44	0.42	0.35	0.28	0.32	0.33	0.46	0.22	0.39	0.37	0.32	0.35	0.20	0.30	0.24	0.32	0.37	0.41	0.33	0.12	24	0.46	0.10	0.31
9/19/07	0.20	0.16	0.09	0.06	0.03	0.03	0.04	0.10	0.08	0.07	0.15	0.11	0.27	0.08	0.32	0.41	0.45	0.52	0.50	0.36	0.19	0.43	0.72	0.76	24	0.76	0.03	0.26
9/20/07	0.64	0.55	0.44	0.46	0.55	0.56	0.57	0.41	0.25	0.21	0.42	0.30	0.34	0.19	0.26	0.15	0.25	0.17	0.18	0.15	0.27	0.39	0.28	0.26	24	0.64	0.15	0.34
9/21/07	0.55	0.16	0.49	0.65	0.46	0.71	0.48	0.48	0.48	0.53	0.73	0.47	0.57	0.59	0.43	0.24	0.31	0.19	0.19	0.07	0.05	0.03	0.02	-0.04	24	0.73	-0.04	0.37
9/22/07	0.28	0.53	0.31	-0.01	-0.03	0.27	0.68	0.42	0.23	0.39	0.49	0.72	0.53	0.50	0.53	0.26	0.42	0.53	0.51	0.58	0.36	0.28	0.23	0.18	24	0.72	-0.03	0.38
9/23/07	0.09	0.14	0.14	0.21	0.37	0.17	0.39	0.25	0.23	0.31	0.51	0.30	0.36	0.24	0.41	0.46	0.16	0.36	0.63	0.72	0.50	0.44	0.43	0.32	24	0.72	0.09	0.34
9/24/07	0.25	0.13	0.06	0.05	0.04	0.04	0.23	0.31	0.41	0.48	0.38	0.29	0.36	0.40	0.47	0.46	0.44	0.50	0.44	0.34	0.40	0.39	0.38	0.28	24	0.50	0.04	0.31
9/25/07	0.30	0.27	0.18	0.15	0.22	0.27	0.23	0.27	0.14	0.17	0.14	0.02	0.38	0.20	0.21	0.25	0.17	0.14	0.17	0.21	0.44	0.70	0.76	0.02	24	0.76	0.02	0.25
9/26/07	0.01	0.07	0.24	-0.06	0.05	0.52	0.55	0.26	0.15	0.23	0.38	0.24	0.28	0.36	0.38	0.31	0.25	0.16	0.13	0.03	0.03	0.03	0.21	0.29	24	0.55	-0.06	0.21
9/27/07	0.43	0.41	0.35	0.46	0.47	0.44	0.43	0.37	0.21	0.13	0.18	0.19	0.34	0.30	0.09	0.23	0.07	0.13	0.15	0.03	0.02	0.02	0.02	0.02	24	0.47	0.02	0.23
9/28/07	0.09	0.79	0.85	0.76	0.71	0.73	0.85	0.74	0.72	0.80	0.63	0.70	0.60	0.78	0.23	0.34	0.25	0.56	0.72	0.76	0.76	0.83	0.70	0.60	24	0.85	0.09	0.65
9/29/07	0.43	0.36	0.42	0.46	0.23	0.18	0.33	0.35	0.14	0.32	0.23	0.24	0.40	0.38	0.37	0.35	0.22	0.44	0.41	0.32	0.55	0.20	0.13	0.31	24	0.55	0.13	0.32
9/30/07	0.43	0.38	0.28	0.36	0.46	0.55	0.39	0.46	0.50	0.63	0.43	0.36	0.30	0.30	0.30	0.34	0.27	0.27	0.37	0.44	0.39	0.31	0.27	0.02	24	0.63	0.02	0.37
																									0			
hr max	0.64	0.79	0.85	0.76	0.71	0.81	0.85	0.74	0.72	0.80	0.73	0.72	0.60	0.78	0.53	0.55	0.56	0.56	0.72	0.76	0.79	0.83	0.76	0.76				
hr min	0.01	-0.07	-0.05	-0.06	-0.03	0.03	-0.04	0.02	0.08	0.07	0.04	0.02	0.10	-0.02	-0.01	0.00	-0.01	0.05	0.06	0.03	0.02	0.01	0.02	-0.04				
average	0.30	0.32	0.29	0.28	0.28	0.37	0.36	0.32	0.29	0.29	0.30	0.26	0.30	0.29	0.29	0.30	0.26	0.29	0.31	0.33	0.37	0.38	0.36	0.30				

monthly	monthly	monthly
max hr	min hr	ave hr
0.85	-0.07	0.31
9/28/07	9/4/07	

Validated by: Roger L Thompson Date: 10/8/07
Analyst: Denise Hazelman Date: 10/8/07

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
September-07
mps
100VWS

data
channel
mps

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
9/1/07	-0.91	-1.85	-1.28	-1.28	-0.19	-0.16	0.44	0.23	0.21	0.41	0.01	-0.74	0.28	-0.48	-0.13	0.19	0.19	0.16	0.02	0.20	0.39	0.58	0.74	0.71
9/2/07	0.51	0.61	0.50	0.51	0.41	0.60	0.67	0.50	0.31	0.65	0.15	0.39	0.16	0.19	0.27	0.49	0.33	0.29	0.51	0.72	0.52	0.72	0.71	0.35
9/3/07	0.29	0.49	0.05	-1.20	0.66	0.75	0.88	0.66	0.39	0.14	0.18	-0.48	-0.25	-0.73	-0.24	0.42	-0.17	-0.64	-0.34	-0.76	-0.98	-1.89	-1.03	0.54
9/4/07	0.68	0.61	0.82	0.75	0.31	0.28	0.01	0.22	0.07	0.14	-0.04	0.20	0.14	0.09	0.39	0.27	0.35	0.29	0.45	0.15	0.34	-0.05	-1.45	-1.07
9/5/07	-0.47	-0.66	-0.13	-0.27	-0.01	-0.74	-1.32	-1.65	-1.09	-0.03	-0.52	-0.54	-0.61	-0.16	-0.15	0.25	0.37	0.34	0.25	0.38	0.77	0.67	0.67	0.65
9/6/07	0.68	0.67	0.69	0.70	0.67	0.70	0.50	0.35	0.38	0.46	0.41	0.40	0.24	0.22	0.05	0.04	0.20	0.16	0.13	0.33	0.46	0.41	0.50	0.50
9/7/07	0.50	0.32	0.35	0.42	0.39	0.52	0.08	0.47	0.22	0.31	0.29	0.38	0.38	0.61	0.13	0.19	-0.10	0.16	0.12	0.09	0.00	0.00	0.00	0.58
9/8/07	0.62	0.60	0.62	0.37	0.73	0.61	0.29	0.46	0.44	0.45	0.36	0.28	0.26	0.69	0.86	0.88	0.70	0.73	0.66	0.38	0.43	0.40	0.32	0.25
9/9/07	0.21	0.25	0.27	0.28	0.17	0.06	0.15	0.04	0.10	0.03	0.09	0.23	0.20	0.14	0.14	0.07	0.15	0.09	0.05	0.03	0.04	0.00	0.05	0.04
9/10/07	-0.02	0.28	0.04	0.25	0.02	0.13	0.06	0.05	0.24	0.08	0.30	-0.05	0.36	0.23	0.21	0.34	0.26	0.37	0.40	0.47	0.66	0.76	0.69	0.60
9/11/07	0.75	0.67	0.58	0.62	0.60	0.76	0.77	0.39	0.38	0.26	0.28	0.21	0.21	0.30	0.02	0.05	0.11	0.00	0.10	0.40	0.59	0.66	0.70	0.72
9/12/07	0.74	0.78	0.72	0.67	0.15	0.23	0.11	0.19	0.17	-0.66	-0.59	-0.33	-0.19	-0.09	0.04	0.04	0.10	0.19	0.03	0.03	0.07	0.02	0.38	0.85
9/13/07	0.76	0.85	0.89	0.84	0.71	0.76	0.41	0.46	0.85	0.35	0.62	0.45	0.38	0.45	0.46	0.53	0.48	0.40	0.62	0.48	0.69	0.68	0.71	0.38
9/14/07	0.64	0.67	0.54	0.54	0.45	0.43	0.46	0.41	0.13	0.15	0.28	0.11	0.46	-0.09	0.09	0.00	0.30	0.24	0.01	0.08	0.13	0.14	0.23	0.42
9/15/07	0.39	0.30	0.33	0.48	0.50	0.37	0.50	0.20	-0.33	-0.71	-0.42	-0.45	0.10	-0.31	-0.19	0.12	0.01	0.10	0.16	0.31	0.32	0.19	0.08	-0.01
9/16/07	0.28	0.05	0.05	0.10	0.13	0.04	-0.04	-0.01	0.16	0.25	0.17	0.08	0.10	0.51	0.38	0.35	0.37	0.20	0.39	0.50	0.64	0.25	-0.87	-0.28
9/17/07	0.31	0.65	0.76	0.85	0.90	0.80	0.81	0.45	0.30	0.26	0.21	0.18	0.16	0.10	0.14	0.17	-0.02	0.08	0.06	0.01	0.02	0.03	0.07	0.07
9/18/07	0.24	0.61	0.71	0.98	0.93	0.77	0.60	0.52	0.52	0.46	0.62	0.29	0.57	0.70	0.52	0.58	0.37	0.61	0.51	0.54	0.53	0.54	0.59	0.34
9/19/07	0.37	0.28	0.04	0.07	0.11	0.03	0.14	0.29	0.12	0.10	0.25	0.09	0.19	0.05	0.37	0.46	0.36	0.47	0.47	0.56	0.26	0.53	0.94	0.68
9/20/07	0.57	0.43	0.19	0.14	0.28	0.34	0.22	0.14	-0.06	0.21	0.14	0.13	0.34	0.20	0.21	0.03	0.04	0.02	0.04	0.21	0.56	0.56	0.56	0.28
9/21/07	-1.20	0.58	0.62	0.55	0.64	1.01	0.62	0.71	0.58	0.58	0.88	0.44	0.68	0.72	0.45	0.16	0.50	0.20	0.24	0.10	0.03	0.01	0.02	0.17
9/22/07	-0.19	0.52	0.65	0.83	1.05	0.09	-2.34	-1.46	0.33	0.28	0.55	0.63	0.39	0.26	0.42	-0.36	-0.55	-0.97	-1.18	-0.60	-1.49	-1.67	-1.61	-1.46
9/23/07	-0.39	-0.14	-0.52	-1.17	-1.53	-1.53	-1.35	-1.40	-0.36	0.00	0.44	-0.30	-0.25	-0.63	0.13	0.33	-0.69	-1.33	-0.33	0.18	0.66	0.77	0.60	0.56
9/24/07	0.39	0.26	0.09	0.07	0.04	0.06	0.05	0.22	0.43	0.56	0.54	0.29	0.42	0.34	0.52	0.60	0.51	0.66	0.60	0.46	0.50	0.48	0.48	0.38
9/25/07	0.42	0.39	0.26	0.22	0.30	0.32	0.26	0.34	0.12	0.27	0.05	-0.09	0.22	0.18	0.16	0.17	0.06	0.06	0.16	-0.51	-0.78	-1.05	-1.76	-0.42
9/26/07	0.69	0.54	0.72	0.74	0.73	0.20	0.07	0.26	0.25	0.47	0.50	0.20	0.29	0.46	0.45	0.35	0.26	0.26	0.33	0.26	0.05	0.01	0.01	0.00
9/27/07	0.00	0.00	0.16	0.26	0.51	0.69	0.72	0.69	0.39	0.24	0.27	0.13	0.43	0.29	0.06	0.38	-0.03	0.14	0.20	0.02	0.00	0.00	0.00	0.00
9/28/07	0.00	0.00	0.00	0.22	0.31	0.41	0.44	0.11	0.26	0.30	-0.03	-0.66	-0.61	-0.25	-1.06	-0.70	-0.89	-0.82	0.22	0.14	0.29	0.21	0.23	-0.31
9/29/07	-1.21	-1.54	-1.37	-1.28	-1.44	-1.76	-2.17	-1.97	-0.48	0.30	0.12	-0.18	0.08	0.19	0.21	0.20	0.14	0.44	0.44	-0.56	-0.78	0.27	0.35	0.59
9/30/07	0.80	0.68	0.50	0.75	0.80	1.07	0.63	0.73	0.69	0.88	0.68	0.48	0.40	0.23	0.42	0.52	0.36	0.40	0.59	0.62	0.48	0.39	0.36	0.19
hr max	0.80	0.85	0.89	0.98	1.05	1.07	0.88	0.73	0.85	0.88	0.88	0.63	0.68	0.72	0.86	0.88	0.70	0.73	0.66	0.72	0.77	0.77	0.94	0.85
hr min	-1.21	-1.85	-1.37	-1.28	-1.53	-1.76	-2.34	-1.97	-1.09	-0.71	-0.59	-0.74	-0.61	-0.73	-1.06	-0.70	-0.89	-1.33	-1.18	-0.76	-1.49	-1.89	-1.76	-1.46
average	0.22	0.26	0.26	0.23	0.31	0.26	0.09	0.09	0.19	0.24	0.23	0.06	0.18	0.15	0.18	0.24	0.14	0.11	0.20	0.17	0.18	0.15	0.11	0.21

valid hr count	daily max hr	daily min hr	daily ave hr
24	0.74	-1.85	-0.09
24	0.72	0.15	0.46
24	0.88	-1.89	-0.14
24	0.82	-1.45	0.16
24	0.77	-1.65	-0.17
24	0.70	0.04	0.41
24	0.61	-0.10	0.27
24	0.88	0.25	0.52
24	0.28	0.00	0.12
24	0.76	-0.05	0.28
24	0.77	0.00	0.42
24	0.85	-0.66	0.15
24	0.89	0.35	0.59
24	0.67	-0.09	0.28
24	0.50	-0.71	0.09
24	0.64	-0.87	0.16
24	0.90	-0.02	0.31
24	0.98	0.24	0.57
24	0.94	0.03	0.30
24	0.57	-0.06	0.24
24	1.01	-1.20	0.39
24	1.05	-2.34	-0.33
24	0.77	-1.53	-0.34
24	0.66	0.04	0.37
24	0.42	-1.76	-0.03
24	0.74	0.00	0.34
24	0.72	-0.03	0.23
24	0.44	-1.06	-0.09
24	0.59	-2.17	-0.48
24	1.07	0.19	0.57
0			

monthly max hr	monthly min hr	monthly ave hr
1.07	-2.34	0.19
9/30/07	9/22/07	

Validated by: Roger L Thompson Date: 10/8/07
Analyst: Denise Hazelman Date: 10/8/07

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
September-07
Deg
10SW

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
9/1/07	0.40	0.35	0.34	0.37	0.37	0.44	0.49	0.56	0.63	0.67	0.63	0.65	0.65	0.51	0.58	0.43	0.43	0.15	0.08	0.17	0.11	0.11	0.11	0.11	24	0.67	0.08	0.39
9/2/07	0.12	0.12	0.09	0.11	0.11	0.11	0.14	0.28	0.48	0.53	0.53	0.54	0.51	0.50	0.51	0.55	0.48	0.33	0.27	0.37	0.42	0.41	0.39	0.37	24	0.55	0.09	0.34
9/3/07	0.30	0.41	0.42	0.34	0.18	0.16	0.28	0.40	0.45	0.43	0.42	0.47	0.54	0.56	0.52	0.45	0.40	0.32	0.23	0.23	0.27	0.25	0.28	0.23	24	0.56	0.16	0.36
9/4/07	0.24	0.21	0.24	0.23	0.21	0.17	0.14	0.25	0.34	0.37	0.41	0.46	0.50	0.51	0.50	0.48	0.45	0.27	0.15	0.22	0.26	0.27	0.32	0.33	24	0.51	0.14	0.31
9/5/07	0.34	0.34	0.28	0.28	0.30	0.39	0.39	0.47	0.53	0.58	0.57	0.58	0.61	0.61	0.59	0.57	0.40	0.17	0.10	0.37	0.51	0.42	0.51	0.53	24	0.61	0.10	0.44
9/6/07	0.45	0.34	0.31	0.37	0.35	0.35	0.32	0.34	0.40	0.34	0.25	0.39	0.28	0.39	0.24	0.27	0.22	0.19	0.17	0.14	0.13	0.12	0.13	0.17	24	0.45	0.12	0.28
9/7/07	0.16	0.17	0.16	0.18	0.22	0.26	0.18	0.36	0.45	0.55	0.56	0.58	0.56	0.56	0.52	0.48	0.38	0.24	0.09	0.07	0.11	0.14	0.23	0.36	24	0.58	0.07	0.32
9/8/07	0.32	0.40	0.27	0.37	0.46	0.48	0.59	0.66	0.62	0.51	0.35	0.46	0.41	0.56	0.65	0.63	0.55	0.46	0.47	0.35	0.32	0.30	0.20	0.09	24	0.66	0.09	0.44
9/9/07	0.10	0.10	0.11	0.12	0.08	0.10	0.11	0.19	0.31	0.33	0.37	0.41	0.43	0.33	0.33	0.29	0.24	0.22	0.15	0.15	0.10	0.16	0.22	0.19	24	0.43	0.08	0.21
9/10/07	0.19	0.14	0.12	0.11	0.12	0.19	0.15	0.26	0.40	0.45	0.48	0.55	0.57	0.58	0.66	0.67	0.65	0.55	0.29	0.13	0.15	0.29	0.32	0.17	24	0.67	0.11	0.34
9/11/07	0.23	0.24	0.14	0.11	0.16	0.24	0.18	0.30	0.45	0.52	0.52	0.49	0.51	0.49	0.51	0.42	0.36	0.24	0.15	0.16	0.27	0.29	0.31	0.30	24	0.52	0.11	0.32
9/12/07	0.39	0.39	0.44	0.42	0.55	0.59	0.64	0.67	0.63	0.59	0.54	0.56	0.52	0.50	0.51	0.40	0.28	0.13	0.08	0.05	0.08	0.11	0.37	0.59	24	0.67	0.05	0.42
9/13/07	0.52	0.61	0.72	0.74	0.74	0.64	0.48	0.64	0.64	0.63	0.71	0.65	0.69	0.71	0.67	0.64	0.60	0.57	0.45	0.19	0.18	0.16	0.26	0.18	24	0.74	0.16	0.54
9/14/07	0.18	0.20	0.20	0.17	0.19	0.16	0.15	0.29	0.42	0.46	0.51	0.53	0.49	0.53	0.53	0.53	0.44	0.33	0.08	0.06	0.09	0.17	0.21	0.32	24	0.53	0.06	0.30
9/15/07	0.32	0.29	0.32	0.39	0.48	0.40	0.45	0.54	0.55	0.59	0.60	0.59	0.57	0.49	0.51	0.39	0.33	0.28	0.17	0.20	0.23	0.23	0.17	0.11	24	0.60	0.11	0.38
9/16/07	0.10	0.11	0.07	0.09	0.12	0.10	0.06	0.09	0.24	0.36	0.44	0.51	0.53	0.54	0.58	0.58	0.52	0.42	0.33	0.30	0.40	0.44	0.38	0.34	24	0.58	0.06	0.32
9/17/07	0.34	0.34	0.28	0.26	0.31	0.29	0.32	0.27	0.28	0.26	0.21	0.23	0.26	0.28	0.23	0.30	0.24	0.16	0.10	0.09	0.15	0.12	0.07	0.10	24	0.34	0.07	0.23
9/18/07	0.13	0.14	0.22	0.47	0.49	0.44	0.44	0.47	0.54	0.55	0.59	0.55	0.50	0.57	0.43	0.37	0.32	0.42	0.30	0.20	0.18	0.19	0.14	0.08	24	0.59	0.08	0.36
9/19/07	0.11	0.10	0.11	0.12	0.11	0.10	0.09	0.22	0.29	0.39	0.46	0.50	0.51	0.51	0.52	0.52	0.58	0.53	0.43	0.28	0.26	0.32	0.66	0.61	24	0.66	0.09	0.35
9/20/07	0.53	0.49	0.44	0.38	0.49	0.47	0.44	0.44	0.44	0.49	0.51	0.50	0.50	0.42	0.41	0.37	0.28	0.13	0.09	0.11	0.12	0.11	0.15	0.16	24	0.53	0.09	0.35
9/21/07	0.24	0.21	0.21	0.29	0.65	0.77	0.60	0.65	0.66	0.69	0.74	0.74	0.74	0.75	0.69	0.61	0.48	0.38	0.14	0.07	0.07	0.11	0.08	0.10	24	0.77	0.07	0.44
9/22/07	0.12	0.08	0.13	0.15	0.21	0.29	0.32	0.46	0.57	0.65	0.72	0.73	0.69	0.69	0.62	0.52	0.58	0.64	0.50	0.48	0.55	0.46	0.47	0.45	24	0.73	0.08	0.46
9/23/07	0.52	0.61	0.57	0.54	0.51	0.49	0.47	0.57	0.70	0.73	0.77	0.70	0.69	0.69	0.69	0.69	0.61	0.59	0.56	0.68	0.68	0.48	0.47	0.38	24	0.77	0.38	0.60
9/24/07	0.31	0.16	0.08	0.10	0.08	0.10	0.23	0.29	0.48	0.56	0.61	0.62	0.61	0.62	0.63	0.63	0.60	0.58	0.53	0.44	0.51	0.54	0.49	0.48	24	0.63	0.08	0.43
9/25/07	0.41	0.39	0.33	0.34	0.35	0.28	0.25	0.27	0.39	0.46	0.49	0.52	0.56	0.54	0.51	0.48	0.39	0.26	0.08	0.02	0.09	0.16	0.21	0.19	24	0.56	0.02	0.33
9/26/07	0.18	0.19	0.14	0.16	0.14	0.16	0.16	0.19	0.41	0.61	0.59	0.59	0.57	0.60	0.58	0.53	0.47	0.27	0.10	0.09	0.10	0.10	0.10	0.10	24	0.61	0.09	0.30
9/27/07	0.09	0.09	0.08	0.19	0.26	0.31	0.31	0.47	0.50	0.46	0.50	0.60	0.63	0.60	0.52	0.49	0.42	0.24	0.55	0.06	0.06	0.12	0.11	0.14	24	0.63	0.06	0.33
9/28/07	0.19	0.22	0.29	0.34	0.39	0.42	0.53	0.59	0.63	0.67	0.69	0.79	0.76	0.81	0.95	0.80	0.75	0.65	0.59	0.58	0.67	0.71	0.58	0.56	24	0.95	0.19	0.59
9/29/07	0.52	0.61	0.66	0.54	0.47	0.47	0.45	0.49	0.56	0.54	0.53	0.54	0.55	0.53	0.50	0.36	0.52	0.48	0.28	0.12	0.20	0.20	0.17	0.40	24	0.66	0.12	0.45
9/30/07	0.47	0.40	0.36	0.36	0.51	0.65	0.68	0.64	0.65	0.65	0.61	0.56	0.55	0.61	0.59	0.51	0.49	0.37	0.18	0.11	0.11	0.10	0.15	0.05	24	0.68	0.05	0.43
																									0			
hr max	0.53	0.61	0.72	0.74	0.74	0.77	0.68	0.67	0.70	0.73	0.77	0.79	0.76	0.81	0.95	0.80	0.75	0.65	0.59	0.68	0.68	0.71	0.66	0.61				
hr min	0.09	0.08	0.07	0.09	0.08	0.10	0.06	0.09	0.24	0.26	0.21	0.23	0.26	0.28	0.23	0.27	0.22	0.13	0.08	0.02	0.06	0.10	0.07	0.05				
average	0.28	0.28	0.27	0.29	0.32	0.33	0.33	0.41	0.49	0.52	0.53	0.55	0.55	0.55	0.54	0.50	0.45	0.35	0.26	0.22	0.25	0.25	0.28	0.27				

monthly max hr	monthly min hr	monthly ave hr
0.95	0.02	0.38
9/28/07	9/25/07	

Validated by: Roger L Thompson Date: 10/8/07
Analyst: Denise Hazelman Date: 10/8/07

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
September-07
Deg
50SW

data
channel
Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
9/1/07	0.40	0.40	0.37	0.38	0.30	0.44	0.50	0.66	0.76	0.86	0.73	0.75	0.79	0.53	0.67	0.57	0.57	0.22	0.13	0.25	0.17	0.20	0.18	0.21	24	0.86	0.13	0.46
9/2/07	0.24	0.23	0.17	0.19	0.11	0.19	0.21	0.36	0.71	0.72	0.82	0.86	0.79	0.77	0.89	0.85	0.72	0.40	0.24	0.39	0.51	0.49	0.48	0.34	24	0.89	0.11	0.49
9/3/07	0.32	0.36	0.32	0.34	0.21	0.17	0.14	0.38	0.56	0.54	0.52	0.54	0.70	0.62	0.61	0.61	0.41	0.33	0.18	0.13	0.13	0.22	0.37	0.18	24	0.70	0.13	0.37
9/4/07	0.21	0.13	0.24	0.21	0.23	0.20	0.11	0.33	0.52	0.53	0.63	0.85	0.90	0.90	0.88	0.73	0.61	0.32	0.21	0.10	0.11	0.21	0.39	0.37	24	0.90	0.10	0.41
9/5/07	0.34	0.35	0.20	0.26	0.30	0.37	0.33	0.51	0.64	0.72	0.66	0.76	0.83	0.80	0.72	0.72	0.52	0.28	0.18	0.53	0.77	0.59	0.74	0.76	24	0.83	0.18	0.54
9/6/07	0.66	0.40	0.36	0.39	0.45	0.40	0.38	0.50	0.62	0.46	0.26	0.49	0.36	0.71	0.44	0.42	0.34	0.28	0.20	0.17	0.17	0.15	0.16	0.16	24	0.71	0.15	0.37
9/7/07	0.19	0.21	0.18	0.20	0.21	0.20	0.18	0.43	0.78	0.86	0.94	1.01	0.95	1.00	0.85	0.87	0.65	0.46	0.13	0.11	0.07	0.05	0.28	0.21	24	1.01	0.05	0.46
9/8/07	0.37	0.51	0.39	0.57	0.52	0.65	0.84	0.91	0.91	0.74	0.49	0.67	0.56	0.81	0.89	0.93	0.82	0.62	0.64	0.42	0.43	0.36	0.25	0.12	24	0.93	0.12	0.60
9/9/07	0.08	0.12	0.13	0.15	0.07	0.11	0.03	0.19	0.50	0.53	0.62	0.74	0.76	0.57	0.57	0.52	0.39	0.23	0.13	0.15	0.10	0.12	0.21	0.15	24	0.76	0.03	0.30
9/10/07	0.16	0.19	0.17	0.14	0.13	0.20	0.19	0.29	0.56	0.70	0.81	0.88	0.98	1.01	1.01	0.98	0.81	0.76	0.37	0.13	0.11	0.25	0.35	0.17	24	1.01	0.11	0.47
9/11/07	0.30	0.34	0.19	0.13	0.22	0.23	0.23	0.39	0.70	0.78	0.78	0.91	0.83	0.89	0.91	0.77	0.67	0.41	0.21	0.12	0.14	0.27	0.31	0.38	24	0.91	0.12	0.46
9/12/07	0.48	0.42	0.47	0.41	0.58	0.69	0.77	0.88	0.89	0.81	0.82	0.83	0.77	0.71	0.76	0.57	0.46	0.28	0.08	0.08	0.11	0.10	0.56	0.88	24	0.89	0.08	0.56
9/13/07	0.75	0.86	1.08	1.08	1.09	0.93	0.73	1.01	1.01	0.95	1.13	1.09	1.07	1.18	1.12	1.10	0.95	0.83	0.63	0.27	0.23	0.16	0.27	0.28	24	1.18	0.16	0.83
9/14/07	0.26	0.23	0.19	0.19	0.18	0.21	0.19	0.35	0.67	0.86	0.92	0.95	0.97	0.97	1.02	0.95	0.70	0.51	0.17	0.17	0.12	0.08	0.12	0.23	24	1.02	0.08	0.47
9/15/07	0.32	0.22	0.27	0.39	0.46	0.33	0.45	0.65	0.75	0.78	0.82	0.82	0.92	0.83	0.86	0.66	0.61	0.36	0.12	0.19	0.14	0.20	0.30	0.17	24	0.92	0.12	0.48
9/16/07	0.16	0.12	0.11	0.15	0.18	0.19	0.02	0.00	0.25	0.56	0.72	0.81	0.85	0.92	0.89	0.90	0.73	0.56	0.43	0.46	0.53	0.41	0.40	0.39	24	0.92	0.00	0.45
9/17/07	0.31	0.36	0.15	0.19	0.29	0.27	0.28	0.25	0.33	0.33	0.26	0.31	0.29	0.33	0.34	0.42	0.33	0.20	0.11	0.06	0.09	0.12	0.11	0.00	24	0.42	0.00	0.24
9/18/07	0.17	0.22	0.28	0.56	0.67	0.62	0.63	0.65	0.74	0.74	0.85	0.83	0.72	0.84	0.64	0.56	0.48	0.61	0.42	0.19	0.17	0.17	0.14	0.12	24	0.85	0.12	0.50
9/19/07	0.13	0.12	0.10	0.08	0.04	0.10	0.07	0.28	0.39	0.63	0.76	0.92	0.91	0.94	0.94	0.76	0.71	0.66	0.55	0.32	0.32	0.36	0.82	0.78	24	0.94	0.04	0.49
9/20/07	0.69	0.63	0.53	0.48	0.53	0.49	0.49	0.51	0.54	0.69	0.68	0.72	0.82	0.78	0.66	0.56	0.49	0.22	0.13	0.25	0.17	0.14	0.20	0.33	24	0.82	0.13	0.49
9/21/07	0.28	0.28	0.23	0.29	1.02	1.19	0.79	0.89	1.03	1.05	1.19	1.24	1.23	1.25	1.13	0.98	0.83	0.50	0.20	0.10	0.07	0.06	0.07	0.15	24	1.25	0.06	0.67
9/22/07	0.28	0.12	0.22	0.15	0.13	0.38	0.29	0.54	0.74	0.88	0.96	1.01	1.01	0.96	0.81	0.71	0.74	0.76	0.60	0.59	0.65	0.56	0.57	0.56	24	1.01	0.12	0.59
9/23/07	0.60	0.68	0.63	0.65	0.61	0.64	0.64	0.69	0.87	0.89	0.91	0.91	0.96	0.91	0.89	0.98	0.74	0.79	0.71	0.91	0.89	0.63	0.60	0.51	24	0.98	0.51	0.76
9/24/07	0.36	0.18	0.10	0.10	0.10	0.10	0.25	0.29	0.62	0.84	0.86	0.89	0.88	0.91	0.93	0.84	0.85	0.82	0.82	0.63	0.83	0.83	0.68	0.75	24	0.93	0.10	0.60
9/25/07	0.59	0.61	0.50	0.51	0.43	0.32	0.31	0.26	0.60	0.80	0.77	0.85	1.07	1.05	0.92	0.83	0.61	0.37	0.17	0.23	0.21	0.09	0.10	0.30	24	1.07	0.09	0.52
9/26/07	0.19	0.21	0.23	0.13	0.18	0.13	0.10	0.24	0.59	0.91	0.80	0.95	0.99	1.13	0.99	0.83	0.80	0.35	0.14	0.04	0.06	0.04	0.10	0.21	24	1.13	0.04	0.43
9/27/07	0.08	0.08	0.12	0.17	0.21	0.30	0.29	0.58	0.76	0.78	0.87	0.94	1.04	1.05	0.85	0.90	0.73	0.58	0.52	0.04	0.02	0.00	0.00	0.00	24	1.05	0.00	0.45
9/28/07	0.22	0.12	0.15	0.24	0.34	0.35	0.44	0.68	0.82	0.88	0.98	1.09	1.08	1.03	1.07	0.98	0.89	0.81	0.77	0.71	0.81	0.95	0.75	0.71	24	1.09	0.12	0.70
9/29/07	0.65	0.78	0.80	0.69	0.55	0.52	0.48	0.55	0.66	0.66	0.65	0.73	0.88	0.75	0.63	0.48	0.66	0.57	0.32	0.28	0.22	0.42	0.32	0.53	24	0.88	0.22	0.57
9/30/07	0.56	0.69	0.49	0.41	0.61	0.93	0.94	1.02	1.00	1.01	0.91	0.77	0.93	0.95	0.98	0.84	0.71	0.49	0.18	0.09	0.11	0.09	0.12	0.00	24	1.02	0.00	0.62
																									0			

hr max	0.75	0.86	1.08	1.08	1.09	1.19	0.94	1.02	1.03	1.05	1.19	1.24	1.23	1.25	1.13	1.10	0.95	0.83	0.82	0.91	0.89	0.95	0.82	0.88
hr min	0.08	0.08	0.10	0.08	0.04	0.10	0.02	0.00	0.25	0.33	0.26	0.31	0.29	0.33	0.34	0.42	0.33	0.20	0.08	0.04	0.02	0.00	0.00	0.00
average	0.35	0.34	0.31	0.33	0.37	0.40	0.38	0.51	0.68	0.75	0.77	0.84	0.86	0.87	0.83	0.76	0.65	0.49	0.32	0.27	0.28	0.28	0.33	0.33

monthly max hr	monthly min hr	monthly ave hr
1.25	0.00	0.51
9/21/07	9/16/07	

Validated by: Roger L Thompson Date: 10/8/07
Analyst: Denise Hazelman Date: 10/8/07

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
September-07
Deg
100SW

data channel Deg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
9/1/07	1.08	0.54	0.71	0.72	0.71	0.99	1.03	1.18	1.29	1.17	1.20	1.19	1.23	1.03	1.05	0.73	0.73	0.30	0.17	0.36	0.23	0.15	0.08	0.11	24	1.29	0.08	0.75
9/2/07	0.30	0.27	0.18	0.14	0.17	0.09	0.20	0.36	0.85	0.94	0.97	1.03	0.95	0.91	1.00	0.97	0.76	0.37	0.24	0.24	0.46	0.38	0.41	0.37	24	1.03	0.09	0.52
9/3/07	0.24	0.18	0.51	0.81	0.14	0.10	0.10	0.41	0.64	0.57	0.64	0.71	0.97	0.94	0.99	0.88	0.80	0.70	0.60	0.49	0.64	0.42	0.87	0.44	24	0.99	0.10	0.57
9/4/07	0.26	0.20	0.12	0.15	0.31	0.27	0.05	0.43	0.42	0.59	0.63	0.92	1.02	0.94	0.89	0.74	0.63	0.24	0.22	0.22	0.23	0.62	0.75	0.80	24	1.02	0.05	0.49
9/5/07	0.65	0.67	0.46	0.43	0.34	0.51	0.50	0.59	0.80	1.13	1.02	1.08	1.02	1.21	1.26	1.06	0.74	0.37	0.23	0.64	0.77	0.56	0.74	0.72	24	1.26	0.23	0.73
9/6/07	0.64	0.36	0.27	0.28	0.36	0.33	0.37	0.54	0.71	0.54	0.21	0.50	0.37	0.79	0.53	0.53	0.41	0.33	0.22	0.18	0.15	0.19	0.14	0.10	24	0.79	0.10	0.38
9/7/07	0.13	0.27	0.21	0.09	0.14	0.22	0.20	0.39	0.88	0.98	1.11	1.26	1.18	1.20	1.04	0.98	0.82	0.53	0.18	0.14	0.00	0.00	0.00	0.27	24	1.26	0.00	0.51
9/8/07	0.25	0.58	0.33	0.71	0.51	0.79	0.87	0.98	0.99	0.85	0.49	0.72	0.60	0.81	0.86	0.93	0.90	0.68	0.64	0.42	0.38	0.35	0.28	0.11	24	0.99	0.11	0.63
9/9/07	0.11	0.12	0.12	0.13	0.11	0.10	0.11	0.09	0.45	0.59	0.72	0.89	0.87	0.68	0.69	0.59	0.42	0.17	0.09	0.20	0.09	0.00	0.10	0.09	24	0.89	0.00	0.31
9/10/07	0.10	0.21	0.09	0.17	0.16	0.21	0.13	0.17	0.55	0.78	1.09	1.09	1.23	1.33	1.25	1.26	0.99	0.84	0.40	0.23	0.16	0.20	0.38	0.17	24	1.33	0.09	0.55
9/11/07	0.30	0.33	0.20	0.11	0.19	0.15	0.14	0.38	0.76	0.84	0.95	1.14	1.16	1.10	1.14	0.98	0.75	0.48	0.21	0.18	0.09	0.10	0.18	0.28	24	1.16	0.09	0.51
9/12/07	0.36	0.24	0.29	0.24	0.30	0.34	0.30	0.42	0.66	0.87	0.93	1.07	1.02	0.90	0.96	0.71	0.60	0.35	0.10	0.13	0.17	0.09	0.68	0.89	24	1.07	0.09	0.53
9/13/07	0.79	0.90	1.02	1.11	1.14	1.02	0.76	1.12	1.16	1.10	1.45	1.35	1.27	1.35	1.35	1.29	1.12	0.92	0.64	0.32	0.24	0.15	0.19	0.31	24	1.45	0.15	0.92
9/14/07	0.30	0.21	0.17	0.14	0.22	0.21	0.25	0.36	0.76	1.08	1.14	1.21	1.34	1.16	1.38	1.13	0.84	0.63	0.18	0.15	0.14	0.20	0.26	0.22	24	1.38	0.14	0.57
9/15/07	0.19	0.19	0.23	0.13	0.15	0.22	0.23	0.50	0.81	1.08	1.26	1.11	1.28	1.00	0.90	0.80	0.60	0.34	0.15	0.25	0.25	0.17	0.39	0.67	24	1.28	0.13	0.54
9/16/07	0.16	0.11	0.11	0.18	0.17	0.14	0.07	0.07	0.25	0.60	0.79	0.95	0.77	1.10	1.05	0.97	0.74	0.37	0.41	0.42	0.44	0.27	1.02	0.99	24	1.10	0.07	0.51
9/17/07	0.68	0.48	0.22	0.21	0.26	0.25	0.28	0.38	0.40	0.38	0.29	0.34	0.38	0.36	0.48	0.51	0.37	0.24	0.13	0.07	0.11	0.11	0.12	0.11	24	0.68	0.07	0.30
9/18/07	0.23	0.12	0.23	0.36	0.58	0.55	0.60	0.63	0.78	0.78	0.90	0.83	0.73	0.78	0.64	0.59	0.53	0.59	0.38	0.14	0.12	0.09	0.09	0.13	24	0.90	0.09	0.48
9/19/07	0.12	0.15	0.08	0.10	0.12	0.08	0.18	0.31	0.35	0.76	0.99	1.05	1.14	1.13	1.17	0.94	0.80	0.63	0.76	0.23	0.42	0.44	0.70	0.75	24	1.17	0.08	0.56
9/20/07	0.60	0.45	0.26	0.22	0.26	0.24	0.25	0.26	0.73	0.81	0.82	0.86	1.02	0.97	0.84	0.75	0.62	0.27	0.11	0.34	0.12	0.10	0.18	0.44	24	1.02	0.10	0.48
9/21/07	0.84	0.40	0.28	0.41	1.10	1.29	0.86	0.98	1.07	1.20	1.40	1.44	1.46	1.47	1.41	1.13	1.05	0.58	0.24	0.12	0.07	0.06	0.15	0.17	24	1.47	0.06	0.80
9/22/07	0.67	0.11	0.12	0.20	0.12	0.92	0.36	1.06	1.14	1.30	1.33	1.32	1.28	1.16	1.08	1.12	1.01	1.12	1.07	1.00	0.96	0.71	0.78	0.79	24	1.33	0.11	0.86
9/23/07	1.16	1.27	1.23	1.04	0.89	0.73	0.77	0.99	1.43	1.51	1.23	1.49	1.50	1.46	1.46	1.36	1.29	1.07	1.06	0.89	1.68	0.71	0.56	0.54	24	1.68	0.54	1.14
9/24/07	0.31	0.18	0.14	0.17	0.13	0.16	0.28	0.26	0.70	0.89	0.94	0.96	0.99	1.01	0.95	0.93	0.88	0.87	0.90	0.64	0.87	0.86	0.75	0.78	24	1.01	0.13	0.65
9/25/07	0.59	0.66	0.58	0.51	0.42	0.32	0.33	0.21	0.67	0.95	0.94	1.05	1.29	1.34	1.10	1.00	0.77	0.46	0.19	0.47	0.47	0.39	0.40	0.98	24	1.34	0.19	0.67
9/26/07	0.26	0.29	0.30	0.20	0.13	0.37	0.15	0.25	0.63	1.00	0.94	1.09	1.18	1.37	1.27	1.03	0.97	0.37	0.09	0.12	0.10	0.06	0.05	0.06	24	1.37	0.05	0.51
9/27/07	0.00	0.00	0.20	0.28	0.32	0.20	0.23	0.51	0.78	0.87	1.05	1.01	1.27	1.32	1.03	1.14	0.91	0.70	0.51	0.06	0.02	0.00	0.00	0.00	24	1.32	0.00	0.52
9/28/07	0.00	0.00	0.00	0.31	0.33	0.31	0.37	0.29	0.51	0.53	0.88	1.44	1.51	1.18	1.57	1.47	1.51	1.12	0.63	0.33	0.57	0.82	0.66	0.93	24	1.57	0.00	0.72
9/29/07	0.93	1.01	1.04	0.92	0.90	0.75	0.38	0.54	1.08	0.98	1.00	1.03	1.21	1.05	0.72	0.60	1.08	0.64	0.36	0.98	0.75	0.61	0.39	0.60	24	1.21	0.36	0.81
9/30/07	0.62	0.92	0.59	0.25	0.45	1.49	1.00	1.00	1.10	1.15	0.89	0.81	1.14	1.08	1.13	1.03	0.84	0.48	0.12	0.07	0.09	0.09	0.10	0.11	24	1.49	0.07	0.69
																									0			
hr max	1.16	1.27	1.23	1.11	1.14	1.49	1.03	1.18	1.43	1.51	1.45	1.49	1.51	1.47	1.57	1.47	1.51	1.12	1.07	1.00	1.68	0.86	1.02	0.99				
hr min	0.00	0.00	0.00	0.09	0.11	0.08	0.05	0.07	0.25	0.38	0.21	0.34	0.37	0.36	0.48	0.51	0.37	0.17	0.09	0.06	0.00	0.00	0.00	0.00				
average	0.43	0.38	0.34	0.36	0.37	0.45	0.38	0.52	0.78	0.89	0.94	1.03	1.08	1.07	1.04	0.94	0.82	0.56	0.37	0.33	0.36	0.30	0.38	0.43				

monthly max hr	monthly min hr	monthly ave hr
1.68	0.00	0.61
9/23/07	9/7/07	

Validated by: Roger L Thompson Date: 10/8/07
Analyst: Denise Hazelman Date: 10/8/07

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
September-07
degC
2mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
9/1/07	20.1	20.0	19.9	19.9	19.6	19.4	20.1	22.2	24.7	26.7	28.0	30.0	30.7	30.6	32.4	32.7	32.7	32.0	29.9	26.2	23.4	22.0	20.4	19.3	24	32.7	19.3	25.1
9/2/07	19.7	17.7	16.9	15.9	14.6	13.8	13.4	16.5	20.2	22.3	23.7	25.1	26.3	27.3	27.7	28.0	28.0	26.5	23.5	20.9	20.1	19.8	20.4	20.1	24	28.0	13.4	21.2
9/3/07	19.7	19.7	19.3	19.4	18.6	18.0	19.0	21.3	23.9	26.7	28.8	30.9	33.9	34.9	35.7	36.0	35.1	33.0	29.6	26.1	24.3	23.1	23.0	22.1	24	36.0	18.0	25.9
9/4/07	21.6	20.6	20.4	19.9	19.3	18.3	18.3	21.1	23.9	26.0	27.5	29.2	30.8	31.9	32.8	33.3	32.8	30.9	27.0	24.8	23.0	22.1	22.4	21.7	24	33.3	18.3	25.0
9/5/07	21.4	20.9	20.0	19.3	18.8	18.9	18.8	20.8	23.8	26.0	27.8	30.0	31.8	32.9	33.7	34.1	33.8	31.5	29.8	25.7	22.7	21.0	19.6	18.8	24	34.1	18.8	25.1
9/6/07	18.2	17.1	16.2	15.7	15.1	14.5	15.0	16.3	17.0	15.7	14.5	15.1	15.9	18.0	17.9	18.2	17.7	17.3	17.0	16.4	15.0	13.2	12.3	12.2	24	18.2	12.2	15.9
9/7/07	11.4	12.0	11.9	11.0	10.9	10.6	10.5	12.7	15.5	17.4	19.1	20.2	21.0	21.5	21.8	21.9	21.3	20.6	18.4	14.7	12.5	13.0	13.4	14.1	24	21.9	10.5	15.7
9/8/07	14.0	14.3	12.9	12.2	12.6	12.8	11.5	11.2	11.7	12.5	12.1	13.4	13.0	11.3	10.6	10.4	10.8	10.7	10.2	9.8	9.6	8.5	8.3	6.7	24	14.3	6.7	11.3
9/9/07	4.8	4.2	3.9	3.8	3.2	2.6	3.6	6.0	8.8	10.0	10.9	12.2	13.0	12.9	13.1	12.8	12.3	11.7	11.0	10.2	9.5	9.4	9.3	8.4	24	13.1	2.6	8.7
9/10/07	7.9	6.4	5.7	5.0	4.7	5.6	5.3	8.0	11.0	13.4	15.3	16.7	17.9	18.1	19.0	19.3	19.4	19.8	18.0	13.3	11.9	13.7	15.1	13.0	24	19.8	4.7	12.6
9/11/07	11.7	10.8	8.5	6.5	6.7	6.6	5.7	8.0	10.6	12.2	13.3	14.7	15.5	16.4	16.7	17.0	16.9	16.1	13.0	9.4	8.9	8.0	7.4	6.9	24	17.0	5.7	11.1
9/12/07	6.7	6.3	6.9	6.8	6.5	6.6	6.9	8.5	11.9	15.2	17.7	20.0	22.1	23.8	25.6	26.6	26.5	25.1	22.4	18.7	16.9	16.5	16.0	16.0	24	26.6	6.3	15.7
9/13/07	14.3	13.0	11.2	10.0	9.2	7.8	7.0	7.4	8.2	9.1	10.1	11.0	12.2	12.9	13.2	12.7	12.0	11.3	9.3	5.7	4.1	3.6	4.1	2.4	24	14.3	2.4	9.2
9/14/07	1.7	1.6	1.3	0.8	1.1	0.9	0.3	3.6	6.4	8.0	8.8	9.8	10.5	11.4	12.0	12.2	12.3	12.1	9.2	4.2	3.0	2.9	2.9	3.1	24	12.3	0.3	5.8
9/15/07	3.2	2.3	2.1	2.7	3.6	3.5	4.3	7.0	10.1	13.6	15.9	18.2	20.2	21.0	21.8	22.6	22.6	21.6	16.6	13.5	12.4	11.1	9.8	8.7	24	22.6	2.1	12.0
9/16/07	8.0	7.0	5.3	4.8	5.8	4.9	5.6	10.2	15.9	20.4	21.8	23.1	23.3	24.2	25.6	26.2	26.0	23.8	21.4	19.4	18.6	18.3	19.0	19.9	24	26.2	4.8	16.6
9/17/07	19.1	18.8	17.9	17.6	18.1	18.5	17.8	17.8	19.9	21.5	22.0	22.4	21.7	19.4	21.2	20.9	21.2	20.7	18.4	15.7	14.3	12.8	12.5	12.3	24	22.4	12.3	18.4
9/18/07	12.2	12.3	13.8	12.9	11.5	11.4	10.8	10.4	10.5	11.1	11.5	11.3	10.4	10.5	10.7	11.2	11.0	11.7	11.0	9.3	8.8	8.6	7.5	5.4	24	13.8	5.4	10.7
9/19/07	4.9	4.7	5.0	5.3	6.1	6.5	6.4	6.8	9.0	11.9	14.0	15.3	16.6	17.7	18.6	17.8	17.3	15.8	14.0	12.3	12.4	11.5	12.7	14.3	24	18.6	4.7	11.5
9/20/07	15.2	15.1	15.0	15.6	15.7	15.7	15.5	16.3	18.7	22.1	24.1	25.4	26.8	27.6	28.6	28.7	28.3	26.6	22.8	18.4	16.8	16.4	16.3	16.8	24	28.7	15.0	20.4
9/21/07	18.7	19.0	18.3	17.2	14.4	12.5	11.8	12.3	12.0	12.8	14.6	16.4	17.7	18.3	18.7	18.8	18.6	17.5	14.1	11.2	8.5	8.2	7.0	7.0	24	19.0	7.0	14.4
9/22/07	6.3	5.5	5.7	5.8	6.6	7.8	8.5	11.3	15.8	19.5	21.7	25.0	27.8	29.8	31.2	31.7	31.0	29.3	26.8	24.3	23.2	21.9	21.1	20.3	24	31.7	5.5	19.1
9/23/07	20.2	20.3	20.1	19.9	19.6	19.8	19.7	21.1	23.3	25.1	26.8	28.4	29.8	30.9	32.2	32.9	31.6	30.8	29.2	27.8	23.4	17.9	16.7	15.9	24	32.9	15.9	24.3
9/24/07	15.5	15.4	15.0	15.1	15.0	14.9	15.1	15.6	14.1	12.2	12.2	12.8	13.2	13.7	13.1	12.5	11.7	11.3	10.7	9.9	9.6	9.4	9.0	8.6	24	15.6	8.6	12.7
9/25/07	8.7	8.5	8.3	8.1	7.9	7.3	7.2	6.9	8.6	10.5	11.5	13.0	14.7	15.6	16.3	16.6	16.2	14.9	9.6	6.4	6.4	7.1	7.7	6.9	24	16.6	6.4	10.2
9/26/07	6.7	6.6	6.0	6.1	6.6	6.2	5.8	7.9	10.7	13.5	14.1	17.0	18.3	19.2	19.4	18.9	18.5	16.5	13.9	12.8	11.3	9.4	9.8	10.4	24	19.4	5.8	11.9
9/27/07	10.6	10.7	10.8	11.3	12.1	10.7	8.9	9.9	12.0	14.0	15.7	16.9	17.7	18.0	18.0	18.0	17.5		12.9	9.1	7.1	6.2	6.2	6.8	23	18.0	6.2	12.2
9/28/07	7.5	7.2	7.1	7.6	7.7	7.4	8.0	10.5	12.4	15.6	19.1	22.2	23.6	25.5	27.0	28.0	27.1	25.3	23.1	21.8	21.9	21.9	21.0	20.4	24	28.0	7.1	17.5
9/29/07	19.8	20.1	19.7	18.6	18.1	17.7	16.8	17.5	20.4	21.9	24.8	27.2	29.8	30.1	30.8	29.7	28.2	26.4	23.8	19.5	21.1	20.2	18.5	18.6	24	30.8	16.8	22.5
9/30/07	14.5	12.9	12.0	11.8	11.3	10.6	9.8	9.2	9.7	10.5	10.6	11.4	13.3	15.4	16.6	17.0	16.6	15.3	12.1	9.0	7.8	7.4	7.6	6.6	24	17.0	6.6	11.6
																									0			
hr max	21.6	20.9	20.4	19.9	19.6	19.8	20.1	22.2	24.7	26.7	28.8	30.9	33.9	34.9	35.7	36.0	35.1	33.0	29.9	27.8	24.3	23.1	23.0	22.1				
hr min	1.7	1.6	1.3	0.8	1.1	0.9	0.3	3.6	6.4	8.0	8.8	9.8	10.4	10.5	10.6	10.4	10.8	10.7	9.2	4.2	3.0	2.9	2.9	2.4				
average	12.8	12.4	11.9	11.6	11.4	11.1	10.9	12.5	14.7	16.6	17.9	19.5	20.7	21.4	22.1	22.2	21.8	20.9	18.3	15.6	14.3	13.5	13.2	12.8				

monthly max hr	monthly min hr	monthly ave hr
36.0	0.3	15.8
9/3/07	9/14/07	

Validated by: Roger L Thompson Date: 10/8/07
Analyst: Denise Hazelman Date: 10/8/07

valid hours	719
possible hours	720
data capture	99.9%

Basin Electric - Gettysburg S.D. Monitoring Program
September-07
degC
10mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
9/1/07	20.5	20.5	20.5	20.4	20.1	19.8	20.4	22.2	24.2	25.9	27.1	29.0	30.1	30.3	31.8	32.2	32.2	32.7	32.3	30.1	28.9	26.4	24.0	22.6	24	32.7	19.8	26.0
9/2/07	22.8	21.8	20.2	19.6	17.3	15.7	15.1	16.4	19.7	21.5	22.6	23.9	25.0	26.0	26.7	27.2	27.6	26.6	24.2	21.6	20.7	20.4	21.0	20.5	24	27.6	15.1	21.8
9/3/07	20.1	20.0	19.7	19.8	19.2	18.7	19.4	21.2	23.3	25.7	27.9	30.0	33.0	34.0	35.2	35.8	35.2	33.5	30.5	27.3	25.3	24.1	23.8	23.0	24	35.8	18.7	26.1
9/4/07	22.6	21.5	21.3	20.7	20.2	19.5	19.4	20.8	23.3	25.0	26.3	28.0	29.6	30.8	32.2	32.9	32.7	31.4	28.4	26.3	24.1	23.1	23.3	22.5	24	32.9	19.4	25.2
9/5/07	22.1	21.5	20.7	20.0	19.4	19.4	19.2	20.6	23.3	25.3	26.8	28.9	30.7	32.0	33.1	33.8	33.8	32.1	31.3	28.2	23.1	21.4	19.8	19.1	24	33.8	19.1	25.2
9/6/07	18.5	17.6	16.7	16.0	15.4	15.0	15.2	16.1	16.7	16.0	15.0	15.2	15.9	17.2	17.5	17.8	17.5	17.3	17.1	16.7	15.8	14.1	13.4	13.1	24	18.5	13.1	16.1
9/7/07	12.3	12.5	12.4	11.6	11.2	11.0	10.8	12.6	14.8	16.3	17.9	18.9	19.6	20.1	20.5	20.9	20.6	20.4	19.5	18.0	15.6	15.3	14.7	14.6	24	20.9	10.8	15.9
9/8/07	14.3	14.7	13.6	12.7	13.1	13.1	11.6	11.2	11.5	12.3	12.0	12.5	12.5	11.0	10.5	10.3	10.7	10.6	10.2	9.8	9.7	8.8	8.5	7.9	24	14.7	7.9	11.4
9/9/07	7.3	6.1	5.5	5.0	5.0	5.2	4.8	5.8	8.3	9.3	10.2	11.2	12.0	12.3	12.6	12.4	12.2	11.7	11.1	10.5	9.7	9.5	9.4	8.9	24	12.6	4.8	9.0
9/10/07	8.5	7.2	6.6	5.8	5.8	6.5	5.8	7.8	10.4	12.4	14.1	15.4	16.5	16.9	18.0	18.5	19.0	19.9	18.8	15.1	13.5	14.6	15.8	14.2	24	19.9	5.8	12.8
9/11/07	12.9	11.7	10.2	8.8	7.8	7.4	6.7	7.8	9.8	11.1	11.9	13.2	14.1	15.0	15.6	16.1	16.2	15.9	14.1	11.2	9.7	8.7	8.0	7.5	24	16.2	6.7	11.3
9/12/07	7.1	6.7	7.2	7.1	6.8	6.8	7.0	8.3	11.3	14.3	16.5	18.7	20.5	22.5	24.6	25.9	26.2	26.0	25.5	24.5	24.0	23.8	20.0	16.5	24	26.2	6.7	16.6
9/13/07	14.8	13.3	11.5	10.3	9.4	8.0	7.3	7.4	7.8	8.2	9.0	9.9	11.0	11.6	12.0	11.7	11.4	11.1	9.7	7.3	5.3	4.5	4.7	3.1	24	14.8	3.1	9.2
9/14/07	2.4	2.3	1.9	1.4	1.6	1.7	1.0	3.4	5.6	6.8	7.6	8.4	9.2	10.0	10.7	11.3	11.7	11.8	11.3	9.5	6.5	4.6	3.9	3.7	24	11.8	1.0	6.2
9/15/07	3.7	2.7	2.5	3.1	3.9	3.8	4.5	6.8	9.4	12.7	14.8	16.9	18.6	19.6	20.7	21.6	22.1	21.7	17.9	14.9	13.3	11.9	10.8	10.1	24	22.1	2.5	12.0
9/16/07	9.7	8.7	7.7	7.5	8.2	9.0	9.8	11.5	15.4	19.5	20.7	21.8	21.9	23.0	24.8	25.6	25.8	24.1	21.9	20.1	19.1	18.6	19.4	20.4	24	25.8	7.5	17.3
9/17/07	19.5	19.2	18.4	18.2	18.7	19.1	18.3	18.0	19.8	21.3	22.2	22.6	21.9	19.4	21.0	20.7	20.9	20.8	19.8	18.4	18.3	15.8	16.0	16.0	24	22.6	15.8	19.3
9/18/07	14.4	13.6	14.0	13.6	12.9	11.9	10.9	10.4	10.3	10.8	11.1	11.0	10.5	10.6	10.8	11.3	11.1	11.8	11.4	10.0	9.5	9.4	9.2	8.5	24	14.4	8.5	11.2
9/19/07	8.0	7.8	8.4	7.5	7.3	7.2	7.0	6.7	8.4	10.9	12.8	14.0	15.2	16.4	17.5	17.4	17.0	15.9	14.6	13.0	12.8	12.0	13.1	14.7	24	17.5	6.7	11.9
9/20/07	15.4	15.3	15.0	15.6	15.8	15.8	15.6	16.2	18.3	21.5	23.4	24.7	25.7	26.6	27.7	28.0	28.0	27.4	26.5	23.2	19.2	18.5	18.2	18.6	24	28.0	15.0	20.8
9/21/07	20.0	20.1	19.2	18.0	14.6	12.9	12.1	12.3	11.7	12.2	13.7	15.5	16.5	17.2	17.7	18.0	18.1	17.6	15.8	15.4	14.4	14.3	12.6	10.9	24	20.1	10.9	15.5
9/22/07	9.0	8.3	7.6	7.4	7.6	8.6	9.1	11.4	15.5	18.9	20.9	24.2	26.9	29.1	30.7	31.5	31.1	29.7	27.5	25.0	23.8	22.6	21.6	20.9	24	31.5	7.4	19.5
9/23/07	20.7	20.6	20.4	20.3	19.9	20.2	20.1	21.1	23.0	24.6	26.1	27.6	29.0	30.2	31.9	32.8	32.1	31.4	29.8	28.2	23.8	18.3	16.9	16.2	24	32.8	16.2	24.4
9/24/07	15.7	15.5	15.3	15.1	15.1	15.1	15.2	15.5	14.0	12.0	11.9	12.4	12.7	13.3	12.8	12.2	11.6	11.3	10.8	10.1	9.7	9.4	9.0	8.6	24	15.7	8.6	12.7
9/25/07	8.7	8.5	8.3	8.2	8.0	7.4	7.4	6.9	8.0	9.6	10.6	11.7	13.3	14.2	15.1	15.7	15.6	15.1	13.6	11.5	9.7	8.8	8.8	7.8	24	15.7	6.9	10.5
9/26/07	7.7	7.7	7.2	7.4	7.7	7.2	6.6	7.8	10.4	13.1	13.8	15.9	17.0	18.1	18.6	18.4	18.2	17.0	15.8	15.7	15.5	15.2	12.4	11.6	24	18.6	6.6	12.8
9/27/07	11.7	12.7	12.8	11.8	12.6	11.3	9.4	9.9	11.4	13.0	14.5	15.7	16.4	16.8	16.9	17.2	17.1	16.6	14.8	13.9	13.9	12.8	10.4	9.8	24	17.2	9.4	13.5
9/28/07	10.0	8.4	7.9	8.3	8.2	7.8	8.4	10.5	12.4	15.5	18.8	21.5	23.0	24.9	26.5	27.7	27.1	25.6	23.6	22.3	22.3	22.3	21.4	20.8	24	27.7	7.8	17.7
9/29/07	20.2	20.4	20.1	19.0	18.5	18.1	17.2	17.6	19.9	21.6	24.1	26.0	28.9	29.7	30.6	30.1	28.5	26.9	24.7	21.8	22.2	21.4	20.3	19.3	24	30.6	17.2	22.8
9/30/07	15.2	13.6	12.5	12.2	11.6	11.0	10.1	9.3	9.6	10.2	10.3	10.9	12.4	14.3	15.6	16.3	16.3	15.6	13.3	11.3	10.6	11.3	11.0	10.3	24	16.3	9.3	12.3
																									0			
hr max	22.8	21.8	21.3	20.7	20.2	20.2	20.4	22.2	24.2	25.9	27.9	30.0	33.0	34.0	35.2	35.8	35.2	33.5	32.3	30.1	28.9	26.4	24.0	23.0				
hr min	2.4	2.3	1.9	1.4	1.6	1.7	1.0	3.4	5.6	6.8	7.6	8.4	9.2	10.0	10.5	10.3	10.7	10.6	9.7	7.3	5.3	4.5	3.9	3.1				
average	13.9	13.4	12.8	12.4	12.1	11.8	11.5	12.5	14.3	15.9	17.2	18.5	19.7	20.4	21.3	21.7	21.6	21.0	19.5	17.7	16.3	15.4	14.7	14.1				

monthly max hr	monthly min hr	monthly ave hr
35.8	1.0	16.2
9/3/07	9/14/07	

Validated by: Roger L Thompson Date: 10/8/07
Analyst: Denise Hazelman Date: 10/8/07

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
September-07
degC
50mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
9/1/07	21.0	21.3	21.4	21.1	20.7	20.6	21.1	22.0	23.7	25.2	26.2	27.9	29.3	29.8	31.3	32.3	32.3	33.2	33.1	32.7	32.2	30.1	27.7	25.7	24	33.2	20.6	26.7
9/2/07	24.7	23.4	22.7	21.1	19.4	18.2	18.2	17.1	19.2	20.7	21.8	23.1	24.2	25.2	25.9	26.4	27.0	26.5	25.0	22.6	21.2	21.1	21.4	21.1	24	27.0	17.1	22.4
9/3/07	20.8	20.8	20.7	20.6	21.0	21.4	21.6	21.5	22.7	25.0	27.0	29.1	32.0	33.0	34.4	35.2	35.0	34.3	32.5	30.4	28.5	26.9	25.9	25.1	24	35.2	20.6	26.9
9/4/07	24.6	24.1	23.7	23.3	22.9	22.3	22.6	21.5	22.7	24.3	25.6	27.2	28.8	30.0	31.4	32.1	32.2	31.7	30.7	30.3	27.8	25.9	24.9	24.0	24	32.2	21.5	26.4
9/5/07	23.3	22.6	22.0	21.8	21.4	21.0	20.4	20.6	22.6	24.4	25.8	27.9	29.6	31.1	32.3	33.3	33.8	33.1	32.2	28.9	23.1	21.5	19.7	19.0	24	33.8	19.0	25.5
9/6/07	18.4	17.7	17.0	16.1	15.4	15.3	15.1	15.6	16.2	16.0	15.1	15.0	15.6	16.6	17.1	17.3	17.1	17.0	16.8	16.8	16.2	15.7	15.0	15.0	24	18.4	15.0	16.2
9/7/07	14.8	14.4	14.1	13.5	13.1	12.0	11.9	12.7	14.2	15.5	17.0	17.9	18.5	19.1	19.6	20.0	20.0	20.0	19.7	19.3	19.1	18.9	18.3	16.7	24	20.0	11.9	16.7
9/8/07	14.9	15.0	14.4	13.3	13.8	13.4	11.4	10.9	11.1	11.8	11.6	11.8	11.9	10.5	9.8	9.8	10.2	10.2	9.8	9.5	9.3	8.7	8.3	8.2	24	15.0	8.2	11.2
9/9/07	7.9	7.6	7.3	7.1	6.6	6.4	6.8	6.3	7.7	8.7	9.5	10.5	11.3	11.7	12.0	12.0	11.8	11.4	11.1	10.7	10.0	9.7	9.4	9.6	24	12.0	6.3	9.3
9/10/07	9.4	9.1	8.9	8.6	8.8	8.9	8.4	8.3	9.8	11.5	13.1	14.4	15.6	16.0	17.1	17.8	18.6	19.7	19.6	18.6	18.9	17.7	17.2	16.6	24	19.7	8.3	13.9
9/11/07	14.3	12.4	11.2	10.6	9.9	9.0	7.9	7.7	9.0	10.2	11.0	12.3	13.2	14.2	14.8	15.4	15.6	15.5	14.8	13.5	11.5	9.7	8.9	8.2	24	15.6	7.7	11.7
9/12/07	7.6	7.1	7.6	7.4	6.9	6.9	7.0	7.9	10.7	13.4	15.5	17.7	19.6	21.6	23.8	25.3	26.3	26.5	26.4	26.1	26.0	26.3	22.4	16.7	24	26.5	6.9	16.8
9/13/07	14.9	13.3	11.3	10.1	9.2	7.8	7.1	7.1	7.1	7.3	8.0	8.8	9.9	10.4	10.9	10.7	10.6	10.5	9.5	7.9	6.9	6.3	5.8	4.5	24	14.9	4.5	9.0
9/14/07	3.9	4.0	4.0	3.6	3.7	3.4	3.5	3.4	4.8	5.9	6.7	7.5	8.4	9.1	10.0	10.7	11.1	11.4	11.0	10.7	10.3	9.4	7.7	5.8	24	11.4	3.4	7.1
9/15/07	4.9	3.9	3.5	4.0	4.4	4.3	4.8	6.5	8.8	11.9	13.8	15.9	17.7	18.7	19.9	20.9	21.6	21.3	19.2	17.5	15.6	15.0	13.5	13.4	24	21.6	3.5	12.5
9/16/07	14.2	14.9	14.2	11.6	13.1	15.1	16.9	17.2	16.9	18.9	19.9	20.9	20.9	22.0	23.9	24.9	25.2	24.0	22.1	20.6	19.4	19.1	20.1	21.1	24	25.2	11.6	19.0
9/17/07	20.0	19.7	19.7	20.2	20.5	20.5	19.7	19.3	19.9	21.1	22.5	22.7	22.1	19.3	21.8	20.3	20.5	20.5	20.1	19.4	19.0	18.0	16.9	17.7	24	22.7	16.9	20.1
9/18/07	17.4	16.3	14.8	14.9	13.2	11.9	10.8	10.0	9.8	10.2	10.5	10.4	10.1	10.3	10.6	11.1	10.9	11.5	11.5	11.1	11.0	11.3	10.9	9.9	24	17.4	9.8	11.7
9/19/07	10.1	10.0	10.0	10.5	9.7	8.5	8.2	6.8	7.9	10.2	12.0	13.2	14.4	15.5	16.7	16.8	16.5	15.7	14.7	13.8	13.0	12.5	12.4	14.8	24	16.8	6.8	12.3
9/20/07	15.4	15.2	14.9	15.5	15.6	15.6	15.5	15.9	17.8	20.9	22.9	24.0	24.8	25.8	27.0	27.5	27.9	27.9	27.8	25.5	22.1	21.4	20.2	20.5	24	27.9	14.9	21.2
9/21/07	22.1	22.0	21.0	20.7	14.3	12.9	12.1	11.9	11.1	11.5	12.8	14.4	15.5	16.1	16.7	17.1	17.4	17.2	16.6	16.3	16.0	15.8	15.4	15.1	24	22.1	11.1	15.9
9/22/07	14.0	14.1	13.3	12.5	11.4	11.5	11.3	12.0	15.1	18.3	20.2	23.5	26.3	28.4	30.2	31.1	30.9	29.9	28.0	25.7	24.3	23.1	22.1	21.3	24	31.1	11.3	20.8
9/23/07	20.9	20.7	20.5	20.3	20.1	20.3	20.3	20.9	22.6	23.9	25.4	26.8	28.2	29.4	31.3	32.4	32.2	31.6	30.2	28.3	23.7	18.3	16.7	16.1	24	32.4	16.1	24.2
9/24/07	15.5	15.4	15.5	15.8	15.9	15.8	15.3	15.3	13.6	11.5	11.3	11.7	12.0	12.6	12.2	11.7	11.1	10.9	10.5	9.8	9.3	9.0	8.6	8.2	24	15.9	8.2	12.4
9/25/07	8.3	8.1	7.9	7.8	7.6	7.3	7.3	6.9	7.4	8.8	9.8	10.8	12.3	13.2	14.3	15.0	15.0	14.9	14.7	14.6	14.4	14.0	13.3	11.4	24	15.0	6.9	11.0
9/26/07	10.9	10.0	9.8	11.1	10.8	10.3	9.3	8.9	9.9	12.4	13.3	14.9	15.9	17.1	17.6	17.6	17.5	16.9	16.6	16.6	16.1	16.2	15.7	15.0	24	17.6	8.9	13.8
9/27/07	15.9	15.5	15.1	14.0	13.9	12.5	10.5	9.7	10.7	12.2	13.6	14.6	15.4	15.7	16.0	16.4	16.4		15.7	15.4	15.1	15.1	14.8	14.7	23	16.4	9.7	14.3
9/28/07	14.5	12.7	11.6	10.5	9.6	8.8	9.2	10.5	12.0	15.1	18.2	20.6	22.2	24.1	25.7	27.0	26.8	25.5	23.8	22.6	22.5	22.3	21.5	20.9	24	27.0	8.8	18.3
9/29/07	20.5	20.6	20.2	19.1	18.8	18.3	17.5	17.6	19.3	21.1	23.3	25.0	28.0	29.0	30.2	30.2	28.3	27.0	25.7	25.4	24.6	23.7	21.1	19.7	24	30.2	17.5	23.1
9/30/07	15.7	14.1	12.7	12.4	11.6	10.8	10.0	9.0	9.2	9.6	9.7	10.3	11.6	13.4	14.8	15.5	15.8	15.5	14.8	14.7	14.8	14.6	14.7	13.9	24	15.8	9.0	12.9
																									0			

hr max	24.7	24.1	23.7	23.3	22.9	22.3	22.6	22.0	23.7	25.2	27.0	29.1	32.0	33.0	34.4	35.2	35.0	34.3	33.1	32.7	32.2	30.1	27.7	25.7
hr min	3.9	3.9	3.5	3.6	3.7	3.4	3.5	3.4	4.8	5.9	6.7	7.5	8.4	9.1	9.8	9.8	10.2	10.2	9.5	7.9	6.9	6.3	5.8	4.5
average	15.4	14.9	14.4	14.0	13.4	13.0	12.7	12.7	13.8	15.3	16.4	17.7	18.8	19.6	20.6	21.1	21.2	21.1	20.1	19.2	18.1	17.2	16.4	15.7

monthly	monthly	monthly
max hr	min hr	ave hr
35.2	3.4	16.8
9/3/07	9/14/07	

Validated by: Roger L Thompson Date: 10/8/07
Analyst: Denise Hazelman Date: 10/8/07

valid hours	719
possible hours	720
data capture	99.9%

Basin Electric - Gettysburg S.D. Monitoring Program
September-07
degC
100mT

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
9/1/07	21.9	22.0	21.9	21.4	21.1	21.5	21.8	22.0	23.2	24.6	25.5	27.3	28.7	29.4	30.9	31.8	31.8	32.8	32.8	32.7	32.1	30.6	29.2	28.4	24	32.8	21.1	26.9
9/2/07	27.0	24.5	23.2	21.9	20.7	20.7	20.5	18.0	18.7	20.1	21.1	22.5	23.5	24.5	25.2	25.7	26.4	26.1	25.0	23.4	21.9	22.5	22.1	22.2	24	27.0	18.0	22.8
9/3/07	22.1	22.2	22.2	22.1	22.3	22.4	22.7	22.4	22.4	24.4	26.4	28.6	31.4	32.5	33.9	34.8	34.8	34.4	33.1	31.6	29.9	27.9	26.8	25.7	24	34.8	22.1	27.4
9/4/07	25.0	24.5	24.3	24.6	25.1	24.7	25.3	23.3	22.4	23.8	25.0	26.6	28.1	29.3	30.7	31.5	31.7	31.8	31.7	31.1	28.8	26.7	25.4	24.8	24	31.8	22.4	26.9
9/5/07	24.3	23.6	22.9	22.5	22.4	22.1	21.7	21.0	22.1	23.8	25.2	27.3	29.0	30.5	31.7	32.8	33.4	32.9	32.4	28.7	22.7	21.2	19.4	18.7	24	33.4	18.7	25.5
9/6/07	18.1	17.6	16.9	16.0	15.3	15.3	14.9	15.2	15.7	15.6	14.9	14.9	15.1	16.0	16.6	16.7	16.6	16.5	16.4	16.6	16.2	16.0	15.7	15.7	24	18.1	14.9	16.0
9/7/07	15.3	15.0	14.9	14.3	13.8	13.5	14.0	13.6	13.7	14.9	16.3	17.2	17.9	18.4	19.0	19.3	19.4	19.4	19.3	19.0	18.9	18.8	18.6	18.3	24	19.4	13.5	16.8
9/8/07	16.8	16.0	15.1	13.8	14.7	13.7	11.1	10.6	10.6	11.3	11.1	11.3	11.4	10.1	9.5	9.3	9.7	9.8	9.4	9.1	8.9	8.3	8.0	7.9	24	16.8	7.9	11.1
9/9/07	7.7	7.3	7.0	7.0	7.1	7.0	7.2	7.1	7.4	8.2	9.0	10.0	10.7	11.2	11.4	11.4	11.3	10.9	10.8	10.3	9.7	9.5	9.6	9.7	24	11.4	7.0	9.1
9/10/07	9.5	9.3	9.6	9.7	9.6	9.7	8.9	9.3	9.4	10.8	12.5	13.9	15.0	15.5	16.5	17.2	18.0	19.3	19.5	19.5	19.8	19.1	18.3	17.5	24	19.8	8.9	14.1
9/11/07	14.7	12.5	11.3	11.0	10.2	9.4	8.9	7.8	8.5	9.6	10.5	11.7	12.7	13.6	14.3	14.8	15.0	15.0	14.4	13.3	12.1	11.1	10.5	9.6	24	15.0	7.8	11.8
9/12/07	8.9	9.0	9.1	8.3	7.6	7.5	7.2	7.8	10.2	12.8	14.9	17.0	19.0	21.0	23.2	24.7	25.8	26.1	26.1	26.1	26.2	26.7	23.0	16.5	24	26.7	7.2	16.9
9/13/07	14.7	13.0	10.9	9.8	8.8	7.5	6.8	6.7	6.6	6.7	7.3	8.2	9.2	9.8	10.2	10.1	10.0	10.0	9.2	7.9	7.2	6.9	6.3	4.7	24	14.7	4.7	8.7
9/14/07	4.9	5.2	5.2	4.6	4.4	4.2	4.3	3.8	4.3	5.4	6.1	6.9	7.8	8.6	9.4	10.1	10.6	10.9	10.6	10.3	10.1	9.5	9.3	8.7	24	10.9	3.8	7.3
9/15/07	7.0	5.6	5.3	5.9	5.9	5.4	5.5	6.4	8.3	11.3	13.2	15.2	17.1	18.2	19.3	20.3	21.0	20.9	19.0	17.8	16.8	15.9	15.0	15.4	24	21.0	5.3	13.0
9/16/07	17.5	18.2	17.8	15.6	15.9	16.6	18.2	18.4	18.1	18.4	19.3	20.3	20.3	21.5	23.3	24.3	24.7	23.6	21.9	20.9	19.9	20.4	21.1	21.6	24	24.7	15.6	19.9
9/17/07	20.3	20.3	20.7	21.5	22.0	22.5	21.8	22.6	21.7	21.1	22.4	22.3	22.0	19.3	22.0	19.8	20.1	20.2	19.8	19.3	18.9	18.3	17.5	17.9	24	22.6	17.5	20.6
9/18/07	17.7	17.6	17.6	15.7	13.3	11.9	10.4	9.6	9.3	9.6	9.9	9.9	9.7	9.9	10.3	10.8	10.6	11.1	11.3	11.4	11.6	11.9	12.0	10.9	24	17.7	9.3	11.8
9/19/07	10.7	10.8	10.8	10.8	10.3	9.6	9.2	8.0	8.0	9.7	11.5	12.6	13.7	14.9	16.0	16.2	15.9	15.2	14.5	14.3	13.4	12.9	13.8	14.8	24	16.2	8.0	12.4
9/20/07	15.3	15.0	14.7	15.5	15.5	15.5	15.5	15.8	17.4	20.3	22.3	23.4	24.1	25.2	26.4	27.0	27.4	27.5	27.4	25.6	23.2	23.2	22.4	22.6	24	27.5	14.7	21.2
9/21/07	23.1	22.8	21.9	21.5	14.0	12.6	11.9	11.5	10.6	10.9	12.0	13.7	14.7	15.4	16.0	16.4	16.8	16.7	16.3	16.1	16.0	15.8	15.4	15.4	24	23.1	10.6	15.7
9/22/07	15.0	15.2	15.7	15.6	15.1	14.4	14.4	13.0	14.7	17.7	19.6	22.9	25.6	27.8	29.6	30.5	30.5	29.7	28.2	25.9	24.5	23.2	22.3	21.3	24	30.5	13.0	21.4
9/23/07	20.8	20.5	20.3	20.2	20.2	20.3	20.2	20.7	22.0	23.3	24.8	26.2	27.5	28.8	30.7	31.9	31.9	31.4	30.1	28.1	23.5	18.3	16.5	15.9	24	31.9	15.9	23.9
9/24/07	15.4	15.3	15.6	16.7	16.6	16.4	15.6	15.3	13.1	11.0	10.8	11.1	11.4	12.0	11.6	11.1	10.6	10.4	10.0	9.4	8.9	8.6	8.2	7.8	24	16.7	7.8	12.2
9/25/07	7.9	7.6	7.5	7.4	7.3	7.0	7.0	6.7	6.9	8.2	9.2	10.2	11.6	12.6	13.6	14.3	14.5	14.5	14.4	14.3	14.4	14.2	14.2	13.5	24	14.5	6.7	10.8
9/26/07	12.2	11.3	11.2	12.7	12.1	11.7	10.9	9.8	9.7	12.0	13.2	14.3	15.2	16.4	17.0	17.0	16.9	16.5	16.4	16.3	16.1	16.2	16.1	15.4	24	17.0	9.7	14.0
9/27/07	16.0	16.1	15.5	15.1	14.5	13.1	11.2	9.7	10.2	11.6	13.0	14.0	14.7	15.2	15.4	15.7	15.8	15.7	15.3	15.1	14.9	15.0	14.8	14.6	24	16.1	9.7	14.3
9/28/07	14.4	13.8	13.7	13.7	12.8	10.8	11.4	10.9	11.8	14.7	17.7	19.9	21.6	23.5	25.1	26.4	26.3	25.2	23.7	22.5	22.5	22.1	21.3	20.8	24	26.4	10.8	18.6
9/29/07	20.5	20.5	20.0	19.0	18.7	18.3	17.8	17.6	18.8	20.5	22.7	24.4	27.3	28.5	29.7	29.8	27.8	26.7	25.7	25.8	25.1	23.9	21.1	19.6	24	29.8	17.6	22.9
9/30/07	15.8	14.2	12.6	12.6	11.6	10.6	9.6	8.5	8.6	9.1	9.2	9.7	11.0	12.8	14.2	14.9	15.2	15.1	15.1	14.9	14.7	14.5	14.6	14.4	24	15.8	8.5	12.6
																									0			
hr max	27.0	24.5	24.3	24.6	25.1	24.7	25.3	23.3	23.2	24.6	26.4	28.6	31.4	32.5	33.9	34.8	34.8	34.4	33.1	32.7	32.1	30.6	29.2	28.4				
hr min	4.9	5.2	5.2	4.6	4.4	4.2	4.3	3.8	4.3	5.4	6.1	6.9	7.8	8.6	9.4	9.3	9.7	9.8	9.2	7.9	7.2	6.9	6.3	4.7				
average	16.0	15.6	15.2	14.9	14.3	13.9	13.5	13.1	13.5	14.7	15.9	17.1	18.2	19.1	20.1	20.6	20.7	20.5	20.0	19.2	18.3	17.6	17.0	16.3				

monthly max hr	monthly min hr	monthly ave hr
34.8	3.8	16.9
9/3/07	9/14/07	

Validated by: Roger L Thompson Date: 10/8/07
Analyst: Denise Hazelman Date: 10/8/07

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
September-07
degC
10-2

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
9/1/07	0.41	0.49	0.55	0.50	0.47	0.43	0.31	-0.03	-0.41	-0.76	-0.88	-1.01	-0.59	-0.28	-0.56	-0.47	-0.47	0.69	2.31	3.91	5.50	4.40	3.59	3.35	24	5.50	-1.01	0.89
9/2/07	3.11	4.10	3.28	3.67	2.65	1.88	1.72	-0.11	-0.53	-0.83	-1.08	-1.21	-1.30	-1.23	-1.01	-0.79	-0.37	0.04	0.63	0.74	0.55	0.56	0.52	0.41	24	4.10	-1.30	0.64
9/3/07	0.44	0.39	0.36	0.44	0.61	0.73	0.47	-0.09	-0.62	-1.01	-0.99	-0.87	-0.94	-0.85	-0.51	-0.23	0.10	0.47	0.95	1.21	1.00	0.96	0.88	0.86	24	1.21	-1.01	0.16
9/4/07	0.97	0.89	0.88	0.85	0.90	1.14	1.09	-0.27	-0.61	-0.95	-1.14	-1.24	-1.22	-1.06	-0.66	-0.46	-0.06	0.51	1.39	1.41	1.06	1.00	0.91	0.79	24	1.41	-1.24	0.26
9/5/07	0.66	0.62	0.69	0.68	0.60	0.52	0.33	-0.15	-0.51	-0.78	-0.96	-1.04	-1.08	-0.92	-0.61	-0.32	0.01	0.62	1.52	2.54	0.38	0.38	0.28	0.28	24	2.54	-1.08	0.16
9/6/07	0.30	0.41	0.44	0.30	0.31	0.45	0.14	-0.24	-0.28	0.37	0.40	0.11	-0.08	-0.80	-0.31	-0.41	-0.18	-0.01	0.14	0.32	0.79	0.85	1.11	0.88	24	1.11	-0.80	0.21
9/7/07	0.89	0.51	0.49	0.53	0.36	0.39	0.34	-0.14	-0.70	-1.07	-1.17	-1.29	-1.42	-1.41	-1.27	-1.00	-0.70	-0.17	1.06	3.33	3.08	2.33	1.30	0.55	24	3.33	-1.42	0.20
9/8/07	0.33	0.35	0.71	0.49	0.49	0.39	0.11	0.03	-0.16	-0.19	-0.11	-0.86	-0.44	-0.32	-0.12	-0.12	-0.14	-0.07	0.01	0.06	0.04	0.27	0.27	1.16	24	1.16	-0.86	0.09
9/9/07	2.48	1.92	1.59	1.23	1.82	2.53	1.25	-0.26	-0.55	-0.69	-0.75	-1.01	-1.01	-0.57	-0.59	-0.35	-0.09	0.01	0.11	0.29	0.16	0.05	0.11	0.52	24	2.53	-1.01	0.34
9/10/07	0.58	0.79	0.88	0.85	1.11	0.87	0.57	-0.13	-0.56	-1.05	-1.29	-1.33	-1.39	-1.19	-1.04	-0.77	-0.39	0.10	0.80	1.75	1.58	0.92	0.69	1.26	24	1.75	-1.39	0.15
9/11/07	1.16	0.88	1.64	2.34	1.12	0.80	0.94	-0.17	-0.79	-1.13	-1.40	-1.48	-1.36	-1.35	-1.14	-0.94	-0.72	-0.14	1.12	1.77	0.81	0.64	0.62	0.59	24	2.34	-1.48	0.16
9/12/07	0.47	0.37	0.36	0.33	0.24	0.21	0.13	-0.22	-0.59	-0.91	-1.21	-1.36	-1.53	-1.34	-0.98	-0.74	-0.22	0.89	3.07	5.76	7.03	7.34	3.93	0.53	24	7.34	-1.53	0.90
9/13/07	0.46	0.33	0.24	0.25	0.24	0.26	0.26	0.00	-0.45	-0.81	-1.04	-1.13	-1.21	-1.29	-1.24	-0.99	-0.63	-0.16	0.34	1.52	1.21	0.85	0.64	0.73	24	1.52	-1.29	-0.07
9/14/07	0.74	0.69	0.58	0.67	0.49	0.80	0.70	-0.25	-0.79	-1.20	-1.20	-1.38	-1.23	-1.37	-1.22	-0.92	-0.62	-0.27	2.01	5.31	3.52	1.65	0.98	0.62	24	5.31	-1.38	0.35
9/15/07	0.51	0.47	0.43	0.37	0.28	0.28	0.21	-0.21	-0.63	-0.89	-1.08	-1.33	-1.52	-1.44	-1.08	-0.93	-0.48	0.14	1.36	1.46	0.91	0.83	1.00	1.47	24	1.47	-1.52	0.01
9/16/07	1.72	1.70	2.46	2.71	2.40	4.13	4.26	1.29	-0.51	-0.87	-1.16	-1.32	-1.40	-1.22	-0.85	-0.53	-0.20	0.26	0.58	0.69	0.48	0.32	0.37	0.45	24	4.26	-1.40	0.66
9/17/07	0.44	0.44	0.49	0.54	0.59	0.61	0.56	0.16	-0.08	-0.21	0.24	0.22	0.25	0.01	-0.16	-0.16	-0.26	0.12	1.42	2.69	4.01	3.04	3.51	3.64	24	4.01	-0.26	0.92
9/18/07	2.17	1.33	0.19	0.64	1.48	0.44	0.16	-0.01	-0.20	-0.35	-0.37	-0.26	0.09	0.07	0.15	0.12	0.17	0.06	0.43	0.62	0.70	0.77	1.71	3.11	24	3.11	-0.37	0.55
9/19/07	3.19	3.13	3.37	2.21	1.21	0.65	0.61	-0.09	-0.58	-1.02	-1.20	-1.33	-1.40	-1.34	-1.09	-0.42	-0.27	0.12	0.52	0.66	0.40	0.52	0.47	0.39	24	3.37	-1.40	0.36
9/20/07	0.25	0.18	0.08	0.06	0.08	0.06	0.11	-0.14	-0.43	-0.62	-0.64	-0.69	-1.14	-1.06	-0.94	-0.66	-0.30	0.80	3.70	4.79	2.41	2.08	1.88	1.79	24	4.79	-1.14	0.49
9/21/07	1.25	1.09	0.95	0.82	0.19	0.43	0.33	0.00	-0.25	-0.53	-0.84	-1.00	-1.14	-1.08	-0.93	-0.76	-0.43	0.12	1.75	4.19	5.86	6.10	5.62	3.89	24	6.10	-1.14	1.07
9/22/07	2.64	2.86	1.95	1.58	0.99	0.79	0.68	0.06	-0.30	-0.59	-0.75	-0.81	-0.85	-0.77	-0.53	-0.23	0.11	0.47	0.68	0.71	0.62	0.62	0.59	0.58	24	2.86	-0.85	0.46
9/23/07	0.46	0.36	0.34	0.35	0.36	0.39	0.37	0.05	-0.26	-0.49	-0.67	-0.78	-0.86	-0.71	-0.36	-0.11	0.49	0.56	0.59	0.41	0.37	0.33	0.18	0.26	24	0.59	-0.86	0.07
9/24/07	0.15	0.14	0.35	0.08	0.10	0.22	0.04	-0.06	-0.08	-0.18	-0.27	-0.39	-0.47	-0.46	-0.29	-0.23	-0.09	-0.02	0.08	0.22	0.06	0.02	0.00	0.02	24	0.35	-0.47	-0.04
9/25/07	0.01	0.02	0.01	0.02	0.08	0.17	0.18	0.08	-0.60	-0.93	-0.87	-1.25	-1.45	-1.40	-1.15	-0.91	-0.59	0.18	3.95	5.11	3.31	1.63	1.08	0.95	24	5.11	-1.45	0.32
9/26/07	1.02	1.12	1.19	1.28	1.08	0.94	0.82	-0.11	-0.31	-0.47	-0.28	-1.09	-1.27	-1.15	-0.81	-0.50	-0.28	0.50	1.90	2.88	4.21	5.85	2.59	1.22	24	5.85	-1.27	0.85
9/27/07	1.13	1.97	1.94	0.56	0.56	0.64	0.54	-0.02	-0.56	-0.94	-1.15	-1.22	-1.25	-1.23	-1.09	-0.80	-0.41		1.85	4.80	6.71	6.56	4.19	2.97	23	6.71	-1.25	1.12
9/28/07	2.44	1.21	0.83	0.67	0.56	0.43	0.34	-0.02	-0.04	-0.13	-0.35	-0.74	-0.59	-0.62	-0.46	-0.27	0.05	0.32	0.49	0.45	0.44	0.34	0.37	0.38	24	2.44	-0.74	0.25
9/29/07	0.45	0.38	0.39	0.40	0.43	0.41	0.37	0.09	-0.42	-0.30	-0.71	-1.11	-0.98	-0.43	-0.13	0.39	0.25	0.48	0.92	2.29	1.17	1.21	1.76	0.67	24	2.29	-1.11	0.33
9/30/07	0.71	0.76	0.51	0.40	0.33	0.32	0.29	0.08	-0.11	-0.27	-0.33	-0.49	-0.92	-1.08	-0.94	-0.71	-0.29	0.32	1.18	2.34	2.86	3.92	3.45	3.68	24	3.92	-1.08	0.67
																									0			
hr max	3.19	4.10	3.37	3.67	2.65	4.13	4.26	1.29	-0.04	0.37	0.40	0.22	0.25	0.07	0.15	0.39	0.49	0.89	3.95	5.76	7.03	7.34	5.62	3.89				
hr min	0.01	0.02	0.01	0.02	0.08	0.06	0.04	-0.27	-0.79	-1.20	-1.40	-1.48	-1.53	-1.44	-1.27	-1.00	-0.72	-0.27	0.01	0.06	0.04	0.02	0.00	0.02				
average	1.05	1.00	0.94	0.86	0.74	0.74	0.61	-0.03	-0.43	-0.66	-0.78	-0.96	-0.99	-0.93	-0.73	-0.51	-0.23	0.24	1.23	2.14	2.04	1.88	1.49	1.27				

monthly max hr	monthly min hr	monthly ave hr
7.34	-1.53	0.42
9/12/07	9/12/07	

Validated by: Roger L Thompson Date: 10/8/07
Analyst: Denise Hazelman Date: 10/8/07

valid hours	719
possible hours	720
data capture	99.9%

Basin Electric - Gettysburg S.D. Monitoring Program
September-07
degC
50-10

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
9/1/07	0.52	0.79	0.87	0.64	0.60	0.75	0.62	-0.16	-0.57	-0.75	-0.93	-1.06	-0.79	-0.53	-0.51	0.07	0.07	0.52	0.85	2.62	3.30	3.71	3.68	3.12	24	3.71	-1.06	0.73
9/2/07	1.88	1.63	2.47	1.52	2.10	2.53	3.12	0.66	-0.50	-0.77	-0.81	-0.80	-0.80	-0.82	-0.79	-0.78	-0.56	-0.01	0.82	0.96	0.51	0.76	0.44	0.56	24	3.12	-0.82	0.56
9/3/07	0.62	0.78	0.97	0.83	1.87	2.71	2.21	0.21	-0.60	-0.68	-0.83	-0.85	-0.92	-0.97	-0.80	-0.52	-0.17	0.76	1.98	3.09	3.20	2.81	2.08	2.14	24	3.20	-0.97	0.83
9/4/07	2.02	2.62	2.36	2.51	2.73	2.85	3.26	0.69	-0.52	-0.66	-0.70	-0.76	-0.77	-0.84	-0.77	-0.76	-0.54	0.33	2.28	4.06	3.74	2.78	1.61	1.52	24	4.06	-0.84	1.21
9/5/07	1.23	1.10	1.30	1.85	2.00	1.67	1.26	-0.07	-0.66	-0.83	-0.98	-1.02	-1.05	-0.91	-0.85	-0.48	0.01	1.01	0.93	0.68	-0.01	0.02	-0.10	-0.09	24	2.00	-1.05	0.25
9/6/07	-0.06	0.18	0.32	0.08	0.08	0.34	-0.06	-0.47	-0.49	-0.02	0.16	-0.16	-0.32	-0.61	-0.45	-0.53	-0.41	-0.33	-0.26	0.15	0.47	1.62	1.61	1.95	24	1.95	-0.61	0.12
9/7/07	2.43	1.85	1.77	1.97	1.86	1.03	1.06	0.15	-0.66	-0.89	-0.97	-1.08	-1.06	-0.97	-0.91	-0.86	-0.65	-0.44	0.26	1.21	3.47	3.59	3.65	2.02	24	3.65	-1.08	0.74
9/8/07	0.56	0.33	0.82	0.63	0.64	0.30	-0.20	-0.31	-0.38	-0.42	-0.43	-0.72	-0.60	-0.54	-0.69	-0.53	-0.45	-0.43	-0.36	-0.31	-0.33	-0.11	-0.21	0.35	24	0.82	-0.72	-0.14
9/9/07	0.66	1.46	1.76	2.06	1.64	1.25	2.03	0.58	-0.53	-0.59	-0.63	-0.69	-0.71	-0.59	-0.59	-0.49	-0.46	-0.34	-0.04	0.12	0.32	0.22	0.04	0.63	24	2.06	-0.71	0.30
9/10/07	0.93	1.89	2.33	2.82	3.02	2.39	2.54	0.48	-0.61	-0.87	-0.91	-0.93	-0.91	-0.85	-0.86	-0.67	-0.45	-0.21	0.83	3.58	5.47	3.01	1.39	2.35	24	5.47	-0.93	1.07
9/11/07	1.41	0.70	1.07	1.80	2.08	1.59	1.23	-0.10	-0.76	-0.92	-0.94	-0.93	-0.91	-0.82	-0.75	-0.68	-0.60	-0.44	0.67	2.34	1.86	1.06	0.88	0.72	24	2.34	-0.94	0.40
9/12/07	0.47	0.47	0.41	0.25	0.15	0.09	-0.04	-0.40	-0.67	-0.88	-0.95	-0.96	-0.91	-0.89	-0.84	-0.56	0.04	0.48	0.93	1.66	2.00	2.46	2.45	0.15	24	2.46	-0.96	0.20
9/13/07	0.09	-0.06	-0.20	-0.18	-0.20	-0.20	-0.14	-0.36	-0.66	-0.95	-1.08	-1.05	-1.13	-1.15	-1.12	-1.02	-0.82	-0.58	-0.15	0.66	1.60	1.83	1.12	1.37	24	1.83	-1.15	-0.18
9/14/07	1.51	1.75	2.04	2.16	2.15	1.74	2.48	0.08	-0.73	-0.86	-0.89	-0.91	-0.82	-0.88	-0.72	-0.65	-0.57	-0.46	-0.21	1.13	3.76	4.76	3.80	2.11	24	4.76	-0.91	0.91
9/15/07	1.22	1.22	0.98	0.90	0.51	0.51	0.30	-0.35	-0.69	-0.84	-0.96	-1.01	-0.94	-0.87	-0.82	-0.73	-0.56	-0.36	1.32	2.56	2.30	3.01	2.63	3.24	24	3.24	-1.01	0.52
9/16/07	4.53	6.13	6.48	4.13	4.91	6.10	7.01	5.68	1.54	-0.64	-0.77	-0.88	-0.93	-0.94	-0.89	-0.77	-0.57	-0.14	0.17	0.48	0.31	0.47	0.68	0.72	24	7.01	-0.94	1.78
9/17/07	0.50	0.48	1.27	2.04	1.81	1.45	1.34	1.25	0.13	-0.17	0.30	0.08	0.22	-0.07	0.84	-0.47	-0.42	-0.25	0.25	1.01	0.68	2.22	0.89	1.74	24	2.22	-0.47	0.71
9/18/07	3.02	2.73	0.87	1.37	0.27	0.05	-0.19	-0.38	-0.52	-0.63	-0.65	-0.59	-0.34	-0.31	-0.23	-0.17	-0.20	-0.28	0.09	1.16	1.47	1.93	1.70	1.45	24	3.02	-0.65	0.48
9/19/07	2.01	2.14	1.64	2.93	2.38	1.36	1.19	0.14	-0.51	-0.68	-0.76	-0.80	-0.84	-0.84	-0.79	-0.55	-0.51	-0.22	0.17	0.77	0.28	0.46	0.24	0.06	24	2.93	-0.84	0.39
9/20/07	-0.02	-0.11	-0.18	-0.15	-0.16	-0.19	-0.13	-0.29	-0.52	-0.62	-0.56	-0.72	-0.93	-0.80	-0.69	-0.47	-0.14	0.47	1.27	2.27	2.86	2.91	2.06	1.93	24	2.91	-0.93	0.30
9/21/07	2.12	1.93	1.75	2.67	-0.24	-0.06	-0.01	-0.37	-0.55	-0.75	-0.98	-1.04	-1.08	-1.11	-1.03	-0.93	-0.74	-0.43	0.78	0.97	1.66	1.44	2.80	4.24	24	4.24	-1.11	0.46
9/22/07	5.06	5.83	5.64	5.12	3.82	2.88	2.15	0.61	-0.41	-0.64	-0.73	-0.71	-0.67	-0.64	-0.53	-0.43	-0.19	0.15	0.56	0.66	0.48	0.50	0.50	0.40	24	5.83	-0.73	1.23
9/23/07	0.20	0.06	0.04	0.08	0.19	0.17	0.16	-0.17	-0.47	-0.62	-0.74	-0.80	-0.79	-0.77	-0.59	-0.39	0.14	0.26	0.39	0.11	-0.11	0.05	-0.19	-0.10	24	0.39	-0.80	-0.16
9/24/07	-0.17	-0.06	0.10	0.67	0.73	0.74	0.18	-0.24	-0.44	-0.55	-0.59	-0.67	-0.71	-0.71	-0.61	-0.57	-0.47	-0.41	-0.35	-0.27	-0.36	-0.38	-0.39	-0.37	24	0.74	-0.71	-0.25
9/25/07	-0.38	-0.38	-0.38	-0.37	-0.31	-0.15	-0.09	-0.09	-0.61	-0.76	-0.84	-0.90	-0.96	-0.96	-0.88	-0.76	-0.62	-0.13	1.13	3.09	4.72	5.20	4.56	3.57	24	5.20	-0.96	0.53
9/26/07	3.18	2.28	2.62	3.75	3.10	3.16	2.74	1.07	-0.48	-0.63	-0.47	-1.00	-1.05	-1.01	-0.96	-0.78	-0.68	-0.09	0.80	0.90	0.64	0.98	3.27	3.35	24	3.75	-1.05	1.03
9/27/07	4.21	2.84	2.38	2.18	1.25	1.15	1.11	-0.18	-0.68	-0.81	-0.92	-1.05	-1.04	-1.05	-0.94	-0.80	-0.69		0.90	1.48	1.21	2.37	4.44	4.91	23	4.91	-1.05	0.97
9/28/07	4.52	4.33	3.66	2.23	1.37	1.00	0.85	-0.05	-0.33	-0.39	-0.58	-0.86	-0.83	-0.85	-0.79	-0.65	-0.37	-0.07	0.20	0.27	0.20	0.04	0.10	0.15	24	4.52	-0.86	0.55
9/29/07	0.27	0.16	0.08	0.14	0.24	0.22	0.32	-0.03	-0.61	-0.55	-0.77	-1.02	-0.90	-0.64	-0.38	0.12	-0.22	0.06	0.97	3.56	2.41	2.29	0.89	0.44	24	3.56	-1.02	0.29
9/30/07	0.47	0.44	0.20	0.23	-0.03	-0.12	-0.18	-0.33	-0.47	-0.54	-0.59	-0.66	-0.82	-0.92	-0.84	-0.76	-0.59	-0.13	1.48	3.40	4.15	3.27	3.69	3.61	24	4.15	-0.92	0.58
																									0			
hr max	5.06	6.13	6.48	5.12	4.91	6.10	7.01	5.68	1.54	-0.02	0.30	0.08	0.22	-0.07	0.84	0.12	0.14	1.01	2.28	4.06	5.47	5.20	4.56	4.91				
hr min	-0.38	-0.38	-0.38	-0.37	-0.31	-0.20	-0.20	-0.47	-0.76	-0.95	-1.08	-1.08	-1.13	-1.15	-1.12	-1.02	-0.82	-0.58	-0.36	-0.31	-0.36	-0.38	-0.39	-0.37				
average	1.50	1.52	1.51	1.56	1.35	1.24	1.20	0.24	-0.47	-0.66	-0.72	-0.82	-0.81	-0.80	-0.69	-0.59	-0.41	-0.06	0.62	1.48	1.74	1.84	1.68	1.61				

monthly max hr	monthly min hr	monthly ave hr
7.01	-1.15	0.55
9/16/07	9/13/07	

Validated by: Roger L Thompson Date: 10/8/07
Analyst: Denise Hazelman Date: 10/8/07

valid hours	719
possible hours	720
data capture	99.9%

Basin Electric - Gettysburg S.D. Monitoring Program
September-07
degC
100-50

data
channel
degC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
9/1/07	0.85	0.77	0.57	0.37	0.46	0.90	0.70	0.01	-0.43	-0.59	-0.65	-0.67	-0.58	-0.36	-0.48	-0.47	-0.47	-0.40	-0.25	-0.04	-0.07	0.57	1.45	2.62	24	2.62	-0.67	0.16
9/2/07	2.36	1.01	0.56	0.77	1.29	2.45	2.28	0.88	-0.54	-0.61	-0.62	-0.63	-0.68	-0.65	-0.69	-0.68	-0.64	-0.48	0.05	0.79	0.71	1.41	0.69	1.14	24	2.45	-0.69	0.42
9/3/07	1.37	1.39	1.56	1.49	1.26	0.97	1.04	0.91	-0.29	-0.58	-0.65	-0.55	-0.63	-0.56	-0.50	-0.48	-0.22	0.16	0.59	1.23	1.37	1.05	0.85	0.56	24	1.56	-0.65	0.47
9/4/07	0.40	0.39	0.68	1.37	2.16	2.34	2.65	1.79	-0.35	-0.52	-0.58	-0.63	-0.66	-0.64	-0.67	-0.61	-0.48	0.07	0.97	0.79	0.99	0.83	0.54	0.78	24	2.65	-0.67	0.48
9/5/07	1.01	1.03	0.92	0.71	1.03	1.03	1.29	0.48	-0.52	-0.63	-0.64	-0.65	-0.65	-0.59	-0.57	-0.50	-0.41	-0.20	0.19	-0.20	-0.35	-0.30	-0.33	-0.36	24	1.29	-0.65	0.03
9/6/07	-0.33	-0.17	-0.06	-0.10	-0.10	-0.01	-0.18	-0.47	-0.51	-0.38	-0.22	-0.19	-0.42	-0.54	-0.50	-0.51	-0.51	-0.50	-0.46	-0.24	-0.07	0.35	0.63	0.69	24	0.69	-0.54	-0.20
9/7/07	0.51	0.66	0.71	0.81	0.69	1.48	2.08	0.87	-0.51	-0.60	-0.62	-0.70	-0.66	-0.67	-0.67	-0.69	-0.59	-0.54	-0.46	-0.23	-0.19	-0.13	0.26	1.68	24	2.08	-0.70	0.10
9/8/07	1.89	0.93	0.68	0.48	0.99	0.28	-0.28	-0.38	-0.53	-0.52	-0.49	-0.54	-0.51	-0.37	-0.26	-0.47	-0.52	-0.45	-0.46	-0.44	-0.45	-0.36	-0.37	-0.33	24	1.89	-0.54	-0.10
9/9/07	-0.26	-0.27	-0.32	-0.09	0.45	0.62	0.36	0.76	-0.36	-0.52	-0.53	-0.56	-0.56	-0.52	-0.52	-0.51	-0.51	-0.42	-0.33	-0.34	-0.34	-0.17	0.15	0.15	24	0.76	-0.56	-0.19
9/10/07	0.11	0.23	0.64	1.01	0.82	0.81	0.57	0.97	-0.41	-0.63	-0.61	-0.54	-0.61	-0.56	-0.59	-0.58	-0.56	-0.42	-0.06	0.84	0.82	1.46	1.08	0.93	24	1.46	-0.63	0.20
9/11/07	0.41	0.10	0.09	0.39	0.29	0.36	1.02	0.06	-0.51	-0.56	-0.55	-0.60	-0.56	-0.58	-0.55	-0.54	-0.55	-0.50	-0.38	-0.19	0.59	1.35	1.64	1.39	24	1.64	-0.60	0.07
9/12/07	1.33	1.81	1.44	0.94	0.71	0.61	0.26	-0.08	-0.49	-0.60	-0.62	-0.67	-0.64	-0.59	-0.59	-0.55	-0.47	-0.46	-0.31	-0.02	0.18	0.42	0.64	-0.20	24	1.81	-0.67	0.09
9/13/07	-0.20	-0.28	-0.36	-0.34	-0.37	-0.34	-0.29	-0.41	-0.55	-0.62	-0.68	-0.66	-0.69	-0.69	-0.69	-0.64	-0.62	-0.53	-0.33	-0.01	0.29	0.54	0.50	0.28	24	0.54	-0.69	-0.32
9/14/07	0.92	1.20	1.25	1.04	0.67	0.72	0.84	0.36	-0.53	-0.55	-0.55	-0.57	-0.60	-0.59	-0.59	-0.58	-0.54	-0.50	-0.45	-0.34	-0.17	0.16	1.56	2.85	24	2.85	-0.60	0.21
9/15/07	2.09	1.60	1.84	1.97	1.49	1.12	0.73	-0.04	-0.49	-0.60	-0.62	-0.63	-0.62	-0.56	-0.59	-0.55	-0.53	-0.46	-0.20	0.27	1.22	0.89	1.54	2.02	24	2.09	-0.63	0.45
9/16/07	3.25	3.30	3.53	3.93	2.83	1.43	1.37	1.20	1.16	-0.47	-0.57	-0.59	-0.62	-0.59	-0.58	-0.59	-0.52	-0.38	-0.22	0.23	0.54	1.33	1.03	0.44	24	3.93	-0.62	0.85
9/17/07	0.32	0.60	1.01	1.33	1.56	1.98	2.09	3.32	1.81	0.06	-0.18	-0.35	-0.19	-0.04	0.18	-0.50	-0.43	-0.32	-0.30	-0.05	-0.14	0.26	0.58	0.15	24	3.32	-0.50	0.53
9/18/07	0.25	1.27	2.75	0.79	0.14	-0.01	-0.32	-0.44	-0.49	-0.53	-0.55	-0.52	-0.40	-0.37	-0.33	-0.33	-0.34	-0.34	-0.16	0.31	0.64	0.56	1.08	1.00	24	2.75	-0.55	0.15
9/19/07	0.68	0.86	0.77	0.36	0.64	1.02	1.00	1.22	0.04	-0.51	-0.57	-0.59	-0.62	-0.62	-0.64	-0.66	-0.65	-0.45	-0.19	0.53	0.35	0.42	0.46	-0.02	24	1.22	-0.66	0.12
9/20/07	-0.15	-0.16	-0.17	-0.02	-0.10	-0.11	-0.03	-0.09	-0.36	-0.59	-0.56	-0.58	-0.65	-0.54	-0.54	-0.51	-0.50	-0.42	-0.36	0.14	1.06	1.77	2.17	2.05	24	2.17	-0.65	0.03
9/21/07	1.03	0.79	0.96	0.88	-0.36	-0.29	-0.25	-0.43	-0.51	-0.58	-0.73	-0.71	-0.75	-0.72	-0.72	-0.67	-0.62	-0.49	-0.28	-0.28	-0.06	-0.03	0.02	0.25	24	1.03	-0.75	-0.19
9/22/07	0.98	1.01	2.45	3.08	3.69	2.88	3.14	1.01	-0.34	-0.59	-0.62	-0.63	-0.64	-0.59	-0.56	-0.52	-0.40	-0.20	0.15	0.20	0.19	0.17	0.16	0.04	24	3.69	-0.64	0.59
9/23/07	-0.13	-0.15	-0.14	-0.10	0.03	-0.04	-0.05	-0.25	-0.54	-0.61	-0.62	-0.67	-0.65	-0.60	-0.58	-0.54	-0.32	-0.18	-0.05	-0.21	-0.23	-0.03	-0.20	-0.16	24	0.03	-0.67	-0.29
9/24/07	-0.12	-0.09	0.13	0.89	0.75	0.57	0.22	0.01	-0.49	-0.53	-0.54	-0.59	-0.59	-0.58	-0.56	-0.53	-0.50	-0.47	-0.44	-0.42	-0.46	-0.45	-0.45	-0.43	24	0.89	-0.59	-0.24
9/25/07	-0.46	-0.45	-0.45	-0.44	-0.39	-0.26	-0.27	-0.13	-0.43	-0.62	-0.62	-0.67	-0.71	-0.57	-0.63	-0.62	-0.54	-0.47	-0.29	-0.26	-0.03	0.27	0.83	2.14	24	2.14	-0.71	-0.25
9/26/07	1.38	1.30	1.45	1.61	1.29	1.36	1.55	0.88	-0.24	-0.41	-0.15	-0.67	-0.70	-0.68	-0.65	-0.61	-0.60	-0.41	-0.19	-0.24	-0.03	0.05	0.49	0.40	24	1.61	-0.70	0.26
9/27/07	0.01	0.54	0.38	1.12	0.61	0.64	0.66	-0.01	-0.50	-0.57	-0.61	-0.64	-0.67	-0.55	-0.61	-0.62	-0.58		-0.38	-0.27	-0.20	-0.14	-0.08	-0.09	23	1.12	-0.67	-0.11
9/28/07	-0.06	1.05	2.08	3.20	3.18	2.05	2.14	0.47	-0.27	-0.34	-0.53	-0.67	-0.67	-0.60	-0.62	-0.60	-0.49	-0.30	-0.13	-0.05	-0.09	-0.21	-0.13	-0.11	24	3.20	-0.67	0.35
9/29/07	0.01	-0.08	-0.17	-0.13	-0.09	0.01	0.32	0.03	-0.56	-0.56	-0.60	-0.64	-0.66	-0.57	-0.51	-0.41	-0.43	-0.29	0.07	0.45	0.48	0.20	-0.03	-0.12	24	0.48	-0.66	-0.18
9/30/07	0.14	0.12	-0.17	0.19	-0.03	-0.27	-0.36	-0.43	-0.50	-0.53	-0.54	-0.54	-0.56	-0.60	-0.59	-0.60	-0.55	-0.37	0.29	0.14	-0.13	-0.14	-0.06	0.58	24	0.58	-0.60	-0.23
																									0			

hr max	3.25	3.30	3.53	3.93	3.69	2.88	3.14	3.32	1.81	0.06	-0.15	-0.19	-0.19	-0.04	0.18	-0.33	-0.22	0.16	0.97	1.23	1.37	1.77	2.17	2.85
hr min	-0.46	-0.45	-0.45	-0.44	-0.39	-0.34	-0.36	-0.47	-0.56	-0.63	-0.73	-0.71	-0.75	-0.72	-0.72	-0.69	-0.65	-0.54	-0.46	-0.44	-0.46	-0.45	-0.45	-0.43
average	0.65	0.68	0.82	0.92	0.85	0.81	0.81	0.40	-0.31	-0.53	-0.55	-0.60	-0.61	-0.56	-0.55	-0.56	-0.50	-0.37	-0.15	0.07	0.21	0.40	0.56	0.68

monthly max hr	monthly min hr	monthly ave hr
3.93	-0.75	0.11
9/16/07	9/21/07	

Validated by: Roger L Thompson Date: 10/8/07
Analyst: Denise Hazelman Date: 10/8/07

valid hours	719
possible hours	720
data capture	99.9%

Basin Electric - Gettysburg S.D. Monitoring Program
September-07
ppb
SO2

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
9/1/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
9/2/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
9/3/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
9/4/07	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	0.1	0.1	0.1	0.1	0.1	0.1	19	0.1	0.1	0.1
9/5/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
9/6/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
9/7/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
9/8/07	0.1	0.1	0.1	1.3	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	0.1	0.1	0.1	0.1	0.1	0.1	23	1.3	0.1	0.2
9/9/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
9/10/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
9/11/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	21	0.1	0.1	0.1
9/12/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
9/13/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
9/14/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.2	1.1	1.1	0.1	1.5	1.7	1.8	1.4	1.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	1.8	0.1	0.5
9/15/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
9/16/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
9/17/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
9/18/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	21	0.1	0.1	0.1
9/19/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
9/20/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
9/21/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
9/22/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
9/23/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
9/24/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
9/25/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	21	0.1	0.1	0.1
9/26/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
9/27/07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.0			1.2	0.1								0.1	1.0	1.0	0.1		14	1.2	0.1	0.4
9/28/07	0.1	0.1	1.0	0.1	0.1	0.1	0.1	0.1									0.1	1.0	1.1	0.1		0.1	0.1		14	1.1	0.1	0.3
9/29/07	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	0.1	0.1		0.1	0.1	0.1	0.1	0.1	0.1	0.1	22	0.1	0.1	0.1
9/30/07	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	0.1	0.1	0.1
																									0			
hr max	0.1	0.1	1.0	1.3	0.1	0.1	0.1	1.0	1.2	1.1	1.2	0.1	1.5	1.7	1.8	1.4	1.2	1.0	1.1	0.1	1.0	1.0	0.1	0.0		monthly max hr	monthly min hr	monthly ave hr
hr min	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0		1.8	0.1	0.1
average	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	#DIV/0!		9/14/07	9/1/07	

Validated by:	Roger L Thompson	Date: 10/8/07
Analyst:	Denise Hazelman	Date: 10/8/07

valid hours	661
possible hours	720
data capture	91.8%

Max 3 hr ave.	1.7	9/14/07 13:00
Max 24 hr ave.	0.5	9/13/07 18:00

Basin Electric - Gettysburg S.D. Monitoring Program
September-07
ppb
NOx

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
9/1/07	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.9	2.0	1.9	1.9	2.1	2.4	2.2	2.4	3.0	3.0	2.3	2.7	3.0	3.0	2.8	2.4		23	3.0	1.8	2.2
9/2/07	2.0	2.4	2.3	2.1	2.0	1.8	1.9	1.7	1.6	1.5	1.7	1.7	1.7	1.8	1.8	1.9	1.9	1.8	1.8	2.0	1.8	1.8	1.9		23	2.4	1.5	1.9
9/3/07	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	2.0	2.2	2.2	2.0	2.0	2.1	2.2	2.1	2.0	1.9	2.2	2.2	2.1	2.2	2.1		23	2.2	1.8	2.0
9/4/07	2.0			1.8	1.8	1.9	1.8	2.0	2.0			2.3	2.3	2.1	2.7	2.3	2.3	2.4	2.7	2.6	2.2	2.2	1.9		19	2.7	1.8	2.2
9/5/07	1.8	1.8	1.8	1.8	1.8	1.8	1.9	2.0	2.3	2.4	2.5	2.5	2.6	2.5	2.6	2.8	2.7	3.4	3.0	3.2	2.7	2.7	2.3		23	3.4	1.8	2.4
9/6/07	1.8	1.7	1.6	1.7	1.6	1.3	1.5	1.4	1.3	1.5	2.0	1.7	1.8	1.7	1.8	1.8	1.9	2.0	2.2	2.6	2.9	3.2	3.0		23	3.2	1.3	1.9
9/7/07	2.5	2.6	2.5	2.8	2.6	2.8	3.1	3.7	3.4	2.4	1.9	1.6	1.4	1.4	1.3	1.5	1.4	1.6	2.1	1.9	1.9	1.6	1.5		23	3.7	1.3	2.2
9/8/07	1.7	1.6	1.7	1.8	2.0	2.2	2.5	2.3	2.3	2.0	2.2	2.2	1.9	2.2	1.8	1.8	1.6	1.7	1.8	1.7	1.7	1.5	1.6		23	2.5	1.5	1.9
9/9/07	1.7	1.7	1.6	1.3	1.5	1.6	1.4	1.6	1.3	1.0	0.9	0.8	0.8	0.8	0.9	0.9	0.9	1.1	1.3	1.2	1.6	1.7	1.7		23	1.7	0.8	1.3
9/10/07	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.6	1.4	1.1	1.2	1.0	1.1	1.2	1.2	1.2	1.1	1.2	1.5	2.4	2.6	2.1	1.6		23	2.6	1.0	1.4
9/11/07	1.9			1.8	1.3	1.3	1.3	1.5	1.2	1.1	1.2	0.8	0.8	0.9	0.8	0.8	0.8	0.8	1.1	1.6	1.4	1.5	1.3		21	1.9	0.8	1.2
9/12/07	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.3	1.7	2.2	1.9	1.8	1.8	1.8	2.2	2.3	2.3	2.6	2.6	2.9	2.2	2.0	2.4		23	2.9	1.1	1.8
9/13/07	2.1	2.7	2.4	2.2	1.7	1.4	1.3	1.2	1.1	1.1	1.0	1.3	1.4	1.2	1.0	1.2	1.8	1.2	1.4	1.4	1.3	1.3	1.0		23	2.7	1.0	1.5
9/14/07	1.1	1.3	1.1	1.1	1.2	1.3	1.7	1.8	2.3	1.6	1.2	1.0	1.5	1.3	1.4	1.2	1.0	0.8	1.2	1.6	1.6	1.2	1.2		23	2.3	0.8	1.3
9/15/07	0.9	1.0	1.0	1.0	1.0	1.0	1.1	1.3	1.4	1.7	1.7	1.7	1.8	1.8	1.7	1.8	1.8	1.9	2.1	2.1	1.9	2.2	2.2		23	2.2	0.9	1.6
9/16/07	1.9	1.7	1.8	1.7	1.7	1.8	1.9	1.9	1.7	1.7	1.8	1.7	1.9	1.9	2.1	2.3	2.4	2.5	2.7	2.3	2.2	2.3	2.3		23	2.7	1.7	2.0
9/17/07	2.3	2.4	2.5	2.4	2.3	2.2	2.0	2.2	2.7	2.5	2.5	2.5	2.8	2.9	2.4	2.3	2.7	2.3	3.4	3.1	2.9	2.8	2.6		23	3.4	2.0	2.6
9/18/07	2.3			2.5	6.3	3.0	2.6	2.3	2.3	2.5	2.9	4.6	3.7	4.1	3.3	3.5	5.0	4.7	4.1	4.1	4.0	3.7	3.4		21	6.3	2.3	3.6
9/19/07	3.3	3.0	2.7	2.3	2.2	2.5	2.3	2.8	2.0	1.6	1.3	1.4	1.4	1.3	1.4	1.4	1.3	1.3	1.3	1.8	2.3	2.3	2.4		23	3.3	1.3	2.0
9/20/07	2.4	2.3	2.5	2.6	2.6	2.7	2.8	2.8	2.7	2.6	2.5	2.4	2.5	2.4	2.7	3.0	3.4	3.9	4.1	5.2	4.8	4.0	4.3		23	5.2	2.3	3.1
9/21/07	3.1	3.1	3.3	3.5	3.2	3.8	3.5	2.7	2.4	2.3	2.1	1.9	1.8	1.8	1.8	1.8	1.8	1.9	2.9	3.3	3.0	2.4	2.8		23	3.8	1.8	2.6
9/22/07	2.1	1.6	1.4	1.3	1.2	1.1	1.2	1.2	1.4	2.3	2.5	2.4	2.3	2.7	2.9	3.2	3.3	3.3	3.4	3.1	2.8	2.6	2.5		23	3.4	1.1	2.3
9/23/07	2.7	2.7	2.9	3.1	3.2	3.1	3.1	3.0	3.1	3.3	3.3	3.4	3.5	3.4	3.6	3.6	3.5	3.6	3.7	3.3	3.3	2.9	2.7		23	3.7	2.7	3.2
9/24/07	2.6	2.7	3.2	4.0	3.9	4.3	3.7	3.8	3.5	3.2	3.3	2.9	2.8	2.5	2.4	2.3	2.4	2.2	2.2	2.0	2.2	2.7	2.3		23	4.3	2.0	2.9
9/25/07	1.7			2.1	1.5	1.4	1.5	1.7	1.4	1.1	1.3	1.8	1.7	1.6	1.6	1.8	1.8	1.8	2.5	2.5	2.6	1.8	1.5		21	2.6	1.1	1.7
9/26/07	1.2	1.2	1.4	1.3	1.3	1.4	1.9	2.0	2.1	1.5	1.6	1.8	1.7	1.8	1.8	1.8	1.8	2.1	3.6	3.8	3.5	3.4	4.5		23	4.5	1.2	2.1
9/27/07	4.1	4.4	3.9	3.6	2.5	2.4	2.3	2.2			2.4	2.1								3.8	3.7	3.4	1.4		14	4.4	1.4	3.0
9/28/07	1.2	1.3	1.2	1.3	1.5	1.6	1.5	1.6									4.5	4.6	4.4	3.8		5.3	5.7		14	5.7	1.2	2.8
9/29/07	5.6	5.1	4.9	4.7	4.7	4.8	4.9	5.0	4.9	5.2	5.2	5.1	5.1	5.1	5.1	5.9		6.4	6.5	6.5	6.0	6.6	6.6		22	6.6	4.7	5.4
9/30/07	6.5	6.7	6.7	6.7	6.3	7.1	6.3	4.8	4.7	4.6	4.8	4.9	4.7	4.7	4.7	4.7	4.9	5.0	4.8	5.2	5.4	5.1	4.5		23	7.1	4.5	5.4
																									0			
hr max	6.5	6.7	6.7	6.7	6.3	7.1	6.3	5.0	4.9	5.2	5.2	5.1	5.1	5.1	5.1	5.9	5.0	6.4	6.5	6.5	6.0	6.6	6.6	0.0				
hr min	0.9	1.0	1.0	1.0	1.0	1.0	1.1	1.2	1.1	1.0	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.1	1.2	1.3	1.2	1.0	0.0				
average	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.5	2.7	2.9	2.7	2.7	2.6	#DIV/0!				

monthly	monthly	monthly
max hr	min hr	ave hr
7.10	0.80	2.37
9/30/07	9/9/07	

Validated by: Roger L Thompson Date: 10/8/07
Analyst: Denise Hazelman Date: 10/8/07

valid hours	661
possible hours	720
data capture	91.8%

Basin Electric - Gettysburg S.D. Monitoring Program
September-07
ppb
NO

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
9/1/07	0.7	0.7	0.6	0.6	0.5	0.3	0.6	0.7	0.8	0.7	0.7	0.9	1.1	1.1	1.3	1.5	1.5	1.2	1.2	1.2	0.9	0.7	0.7		23	1.5	0.3	0.9
9/2/07	0.6	0.3	0.3	0.3	0.3	0.3	0.6	0.6	0.7	0.7	0.8	0.8	0.8	1.0	1.2	1.1	1.0	1.1	0.9	0.7	0.6	0.6	0.7		23	1.2	0.3	0.7
9/3/07	0.6	0.4	0.3	0.3	0.3	0.2	0.2	0.4	0.5	0.7	0.7	0.7	1.0	1.3	1.2	1.2	1.3	1.2	1.1	0.9	0.7	0.7	0.7		23	1.3	0.2	0.7
9/4/07	0.6			0.4	0.4	0.3	0.2	0.4	0.5			1.1	1.1	1.2	1.3	1.2	1.2	1.2	1.3	1.0	0.7	0.8	0.7		19	1.3	0.2	0.8
9/5/07	0.7	0.5	0.4	0.4	0.4	0.3	0.4	0.6	0.6	0.7	0.9	1.0	1.2	1.3	1.2	1.4	1.4	1.6	1.2	1.2	0.8	0.8	0.7		23	1.6	0.3	0.9
9/6/07	0.6	0.5	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.5	0.7	0.6	0.6	0.4	0.6	0.7	0.6	0.5	0.5	0.6	0.7	0.8		23	0.8	0.3	0.5
9/7/07	0.8	0.8	0.7	0.8	0.7	0.8	1.1	1.7	1.4	0.9	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.8	0.7	0.5	0.4	0.5	0.7		23	1.7	0.4	0.8
9/8/07	0.7	0.6	0.7	0.6	0.9	0.8	0.9	1.1	1.1	0.9	0.7	1.0	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.6		23	1.1	0.6	0.8
9/9/07	0.3	0.4	0.5	0.5	0.4	0.5	0.6	0.7	0.7	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.3	0.5	0.6	0.6		23	0.7	0.3	0.5
9/10/07	0.3	0.4	0.3	0.5	0.5	0.5	0.6	0.7	0.7	0.6	0.6	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.3	0.4	0.6	0.6		23	0.7	0.3	0.5
9/11/07	0.8			0.7	0.4	0.3	0.4	0.7	0.7	0.5	0.7	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.3	0.5	0.6	0.7	0.7		21	0.8	0.3	0.5
9/12/07	0.4	0.2	0.3	0.3	0.3	0.4	0.5	0.6	0.8	0.8	0.8	0.7	0.7	0.7	0.9	1.1	1.1	1.2	1.1	0.8	0.6	0.7	0.7		23	1.2	0.2	0.7
9/13/07	0.8	0.7	1.1	1.0	0.9	0.6	0.4	0.5	0.6	0.6	0.6	0.8	0.9	0.9	0.6	0.8	0.9	0.7	0.9	0.6	0.4	0.4	0.4		23	1.1	0.4	0.7
9/14/07	0.4	0.4	0.4	0.4	0.5	0.5	0.7	0.8	1.2	0.8	0.7	0.5	0.7	0.7	0.7	0.5	0.3	0.3	0.5	0.5	0.3	0.3	0.3		23	1.2	0.3	0.5
9/15/07	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.6	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.7	0.7	0.7	0.7	0.6	0.6	0.7	0.8		23	0.8	0.3	0.6
9/16/07	0.7	0.6	0.3	0.4	0.4	0.5	0.5	0.7	0.6	0.7	0.7	0.6	0.7	0.8	1.1	1.2	1.3	1.1	1.0	0.7	0.5	0.7	0.7		23	1.3	0.3	0.7
9/17/07	0.7	0.6	0.7	0.7	0.7	0.7	0.6	0.8	0.9	0.8	0.7	0.7	0.8	0.8	0.7	0.7	0.9	0.7	0.9	0.5	0.7	0.7	0.7		23	0.9	0.5	0.7
9/18/07	0.8			1.0	4.2	1.2	1.2	1.2	1.2	1.3	1.3	1.9	1.5	1.6	1.2	1.2	1.4	1.5	1.1	0.8	0.6	0.6	0.5		21	4.2	0.5	1.3
9/19/07	0.5	0.6	0.6	0.6	0.5	0.6	0.6	1.1	0.9	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.5	0.6	0.7	0.7	1.0		23	1.1	0.5	0.7
9/20/07	0.7	0.7	0.7	0.8	0.7	0.7	0.7	0.9	1.0	0.9	1.1	1.2	1.3	1.2	1.3	1.7	2.2	2.4	1.9	1.7	1.6	1.5	1.4		23	2.4	0.7	1.2
9/21/07	1.4	1.5	1.6	1.6	1.6	1.7	1.7	1.8	1.7	1.7	1.5	1.3	1.2	1.2	1.1	1.2	1.3	1.2	1.2	1.1	1.4	1.3	1.4		23	1.8	1.1	1.4
9/22/07	0.7	0.4	0.3	0.3	0.3	0.4	0.3	0.4	0.7	1.3	1.4	1.3	1.5	1.7	2.0	2.2	2.4	2.3	2.3	2.0	1.7	1.5	1.4		23	2.4	0.3	1.3
9/23/07	1.4	1.3	1.3	1.3	1.5	1.5	1.6	1.6	1.6	1.7	1.8	2.0	2.2	2.2	2.4	2.5	2.5	2.6	2.5	2.3	2.1	1.7	1.5		23	2.6	1.3	1.9
9/24/07	1.2	1.2	1.3	1.4	1.3	1.5	1.3	1.6	1.6	1.8	2.1	1.9	1.9	1.8	1.8	1.7	1.7	1.3	1.3	1.2	1.1	0.8	0.8		23	2.1	0.8	1.5
9/25/07	0.7			0.9	0.6	0.4	0.4	0.6	0.7	0.6	0.8	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.2	1.0	0.7	0.4		21	1.2	0.4	0.9
9/26/07	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.7	0.7	0.7	0.8	1.2	1.2	1.2	1.2	1.2	1.3	1.2	1.2	1.2	1.2	1.2	1.2		23	1.3	0.3	0.9
9/27/07	1.3	1.3	1.2	1.2	1.2	1.2	0.7	0.8			1.3	1.2								0.5	0.6	0.6	0.7		14	1.3	0.5	1.0
9/28/07	0.7	0.7	0.6	0.7	0.8	0.7	0.7	0.8									3.3	3.3	3.0	2.3		3.8	3.9		14	3.9	0.6	1.8
9/29/07	4.2	3.7	3.4	3.3	3.2	3.2	3.2	3.4	3.5	3.7	3.9	3.9	4.1	4.3	4.3	4.9		5.0	4.9	4.5	4.2	4.2	4.1		22	5.0	3.2	4.0
9/30/07	3.8	3.9	4.0	4.1	4.2	4.3	4.3	3.9	3.7	3.7	3.9	4.2	3.9	3.7	3.7	3.7	3.7	3.7	3.6	3.8	3.9	3.7	3.4		23	4.3	3.4	3.9
																									0			
hr max	4.2	3.9	4.0	4.1	4.2	4.3	4.3	3.9	3.7	3.7	3.9	4.2	4.1	4.3	4.3	4.9	3.7	5.0	4.9	4.5	4.2	4.2	4.1	0.0				
hr min	0.3	0.2	0.3	0.3	0.3	0.2	0.2	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0				
average	0.9	0.9	0.9	0.9	1.0	0.9	0.9	1.0	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.3	1.3	1.4	1.3	1.2	1.0	1.1	1.1	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
5.0	0.2	1.1
9/29/07	9/3/07	

Validated by: Roger L Thompson Date: 10/8/07
Analyst: Denise Hazelman Date: 10/8/07

valid hours	661
possible hours	720
data capture	91.8%

Basin Electric - Gettysburg S.D. Monitoring Program
September-07
ppb
NO2

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
9/1/07	1.4	1.4	1.4	1.5	1.5	1.6	1.6	1.6	1.5	1.4	1.4	1.4	1.5	1.3	1.4	1.8	1.8	1.3	1.8	2.1	2.4	2.2	1.9		23	2.4	1.3	1.6
9/2/07	1.7	2.2	2.3	1.9	1.9	1.8	1.6	1.3	1.3	1.2	1.3	1.2	1.2	1.1	1.1	1.1	1.2	1.2	1.3	1.4	1.5	1.6	1.5		23	2.3	1.1	1.5
9/3/07	1.7	1.5	1.7	1.6	1.6	1.7	1.6	1.7	1.8	1.8	1.7	1.4	1.3	1.2	1.2	1.0	1.1	1.2	1.4	1.5	1.6	1.8	1.7		23	1.8	1.0	1.5
9/4/07	1.7			1.7	1.7	1.8	1.8	1.8	1.7			1.4	1.3	1.3	1.6	1.2	1.3	1.4	1.7	1.8	1.7	1.7	1.6		19	1.8	1.2	1.6
9/5/07	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.8	1.8	1.9	1.9	1.8	1.7	1.6	1.5	1.5	1.5	2.1	2.0	2.3	2.0	2.1	1.7		23	2.3	1.5	1.8
9/6/07	1.4	1.5	1.5	1.4	1.3	1.3	1.3	1.2	1.2	1.4	1.5	1.4	1.4	1.3	1.6	1.5	1.7	1.7	1.9	2.5	2.5	2.7	2.5		23	2.7	1.2	1.6
9/7/07	1.9	1.9	2.0	2.2	2.0	2.1	2.3	2.3	2.2	1.6	1.5	1.3	1.1	1.0	0.9	0.9	0.8	1.0	1.7	1.7	1.7	1.3	1.2		23	2.3	0.8	1.6
9/8/07	1.3	1.3	1.3	1.5	1.4	1.6	1.8	1.5	1.4	1.4	1.6	1.4	1.4	1.6	1.3	1.2	1.0	1.1	1.3	1.2	1.2	1.2	1.3		23	1.8	1.0	1.4
9/9/07	1.5	1.4	1.4	1.1	1.3	1.3	1.1	1.1	0.9	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.8	0.8	1.1	1.1	1.3	1.3	1.3		23	1.5	0.7	1.0
9/10/07	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.1	0.9	0.9	0.8	0.8	0.8	0.9	0.8	0.8	0.8	0.8	1.2	2.2	2.3	1.8	1.2		23	2.3	0.8	1.1
9/11/07	1.4			1.2	1.1	1.0	1.1	1.0	0.8	0.8	0.7	0.7	0.6	0.7	0.6	0.7	0.7	0.7	0.9	1.4	1.2	1.0	1.0		21	1.4	0.6	0.9
9/12/07	0.9	0.9	0.9	0.8	0.9	0.9	1.0	0.9	1.2	1.5	1.3	1.3	1.3	1.3	1.4	1.4	1.4	1.6	1.7	2.4	1.9	1.6	1.9		23	2.4	0.8	1.3
9/13/07	1.6	2.2	1.7	1.4	1.0	1.0	1.0	0.9	0.8	0.8	0.7	0.8	0.7	0.7	0.7	0.9	1.2	0.8	0.8	1.0	1.1	1.1	0.8		23	2.2	0.7	1.0
9/14/07	0.8	1.0	0.9	0.8	0.9	1.0	1.3	1.2	1.4	1.0	0.9	0.8	0.9	0.9	1.0	0.9	0.8	0.7	0.9	1.3	1.4	1.1	1.0		23	1.4	0.7	1.0
9/15/07	0.7	0.7	0.8	0.8	0.7	0.7	0.8	0.8	1.0	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.7	1.7	1.7	1.7	1.7		23	1.7	0.7	1.2
9/16/07	1.4	1.4	1.6	1.4	1.4	1.7	1.5	1.6	1.3	1.2	1.3	1.3	1.3	1.2	1.3	1.3	1.3	1.6	1.8	1.8	1.9	1.9	2.1		23	2.1	1.2	1.5
9/17/07	1.9	2.0	2.0	2.0	1.9	1.8	1.7	1.7	1.9	2.0	2.0	2.0	2.1	2.4	1.9	1.8	2.0	1.9	2.8	2.8	2.5	2.4	1.9		23	2.8	1.7	2.1
9/18/07	1.7			1.8	3.8	2.1	1.7	1.4	1.3	1.5	1.8	2.9	2.4	2.8	2.2	2.6	3.9	3.5	3.1	3.5	3.7	3.4	3.2		21	3.9	1.3	2.6
9/19/07	3.0	2.7	2.4	2.0	1.8	2.2	1.9	1.9	1.3	1.1	0.9	0.9	0.9	0.9	1.0	1.0	1.1	1.1	1.2	1.4	1.7	1.8	1.8		23	3.0	0.9	1.6
9/20/07	1.8	1.8	2.0	2.2	2.1	2.2	2.2	2.1	1.8	1.9	1.7	1.6	1.5	1.5	1.5	1.5	1.5	1.7	2.4	3.7	3.4	2.8	3.0		23	3.7	1.5	2.1
9/21/07	1.9	1.8	2.0	2.2	1.8	2.3	2.1	1.0	1.0	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.9	1.9	2.4	1.9	1.3	1.6		23	2.4	0.7	1.4
9/22/07	1.5	1.4	1.1	1.1	1.0	0.9	0.9	0.8	0.9	1.2	1.2	1.3	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.2	1.3		23	1.5	0.8	1.1
9/23/07	1.5	1.6	1.7	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.7	1.7	1.5	1.4	1.3	1.3	1.3	1.3	1.4	1.4	1.4	1.3	1.5		23	1.8	1.3	1.6
9/24/07	1.5	1.7	2.0	2.8	2.9	3.0	2.7	2.6	2.1	1.5	1.5	1.2	1.1	1.0	0.9	0.9	1.0	1.0	1.0	1.0	1.4	2.0	1.7		23	3.0	0.9	1.7
9/25/07	1.2			1.3	1.1	1.1	1.2	1.3	0.9	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	1.0	1.7	1.6	1.9	1.4	1.3		21	1.9	0.7	1.1
9/26/07	1.0	1.1	1.2	1.1	1.0	1.2	1.7	1.7	1.6	1.2	0.9	0.8	0.8	0.8	0.8	0.7	0.8	1.0	2.6	2.9	2.6	2.5	3.3		23	3.3	0.7	1.4
9/27/07	3.0	3.5	2.9	2.6	1.7	1.3	1.5	1.6			1.3	1.1								3.5	3.5	3.1	0.9		14	3.5	0.9	2.2
9/28/07	0.8	0.8	0.8	0.8	0.8	0.9	0.8	0.9									1.4	1.6	1.7	1.8		1.8	1.9		14	1.9	0.8	1.2
9/29/07	1.8	1.6	1.7	1.7	1.7	1.8	1.8	1.7	1.7	1.8	1.7	1.6	1.4	1.2	1.1	1.2		1.5	1.8	2.2	1.9	2.5	2.7		22	2.7	1.1	1.7
9/30/07	2.8	3.0	2.7	2.7	2.2	2.9	2.1	1.1	1.1	1.2	1.1	1.0	1.0	1.1	1.2	1.2	1.3	1.3	1.5	1.7	1.7	1.7	1.3		23	3.0	1.0	1.7
																									0			
hr max	3.0	3.5	2.9	2.8	3.8	3.0	2.7	2.6	2.2	2.0	2.0	2.9	2.4	2.8	2.2	2.6	3.9	3.5	3.1	3.7	3.7	3.4	3.3	0.0				
hr min	0.7	0.7	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.6	0.7	0.6	0.7	0.7	0.7	0.8	1.0	1.1	1.0	0.8	0.0				
average	1.6	1.7	1.6	1.6	1.6	1.6	1.6	1.4	1.4	1.3	1.3	1.3	1.2	1.2	1.2	1.2	1.3	1.3	1.6	2.0	1.9	1.8	1.7	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
3.9	0.6	1.5
9/18/07	9/11/07	

Validated by: Roger L Thompson Date: 10/8/07
Analyst: Denise Hazelman Date: 10/8/07

valid hours	661
possible hours	720
data capture	91.8%

Basin Electric - Gettysburg S.D. Monitoring Program
September-07
ppb
O3

data
channel
ppb

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	min hr	ave hr
9/1/07	31.2	31.8	33.2	34.6	34.0	33.8	34.9	36.5	38.7	41.3	42.6	45.4	47.9	47.0	50.5	51.9	51.9	48.5	43.6	44.0	37.8	34.3	31.7		23	51.9	31.2	40.3
9/2/07	32.9	30.4	29.5	28.3	24.9	23.2	20.9	22.3	28.9	31.6	32.8	34.0	35.1	37.3	38.6	38.5	39.0	35.2	29.9	28.8	28.7	28.3	30.6		23	39.0	20.9	30.9
9/3/07	27.8	29.0	28.0	28.7	26.3	23.6	28.2	32.0	34.4	37.4	40.2	45.9	50.4	51.3	54.0	53.4	52.1	49.3	46.1	44.8	43.0	41.5	42.5		23	54.0	23.6	39.6
9/4/07	41.6		53.7	39.9	38.6	36.2	32.6	32.6	35.1	36.6	37.8	39.7	43.1	46.1	49.5	51.5	52.6	46.1	35.8	40.4	41.8	41.6	45.4		22	53.7	32.6	41.7
9/5/07	44.9	43.9	42.2	41.0	39.2	39.3	37.9	38.2	40.8	43.7	45.4	46.6	48.7	50.8	52.8	54.7	53.3	44.5	46.5	40.3	33.8	30.9	27.7		23	54.7	27.7	42.9
9/6/07	27.6	25.9	25.5	26.6	27.5	27.0	25.2	24.6	25.2	23.3	19.0	19.6	20.5	24.0	25.8	25.8	24.7	24.7	22.7	17.9	16.1	11.8	11.1		23	27.6	11.1	22.7
9/7/07	11.4	11.3	9.9	7.3	6.8	8.6	8.2	11.2	16.9	22.9	29.9	33.3	35.0	34.4	35.3	36.3	36.3	36.1	30.6	22.9	22.5	27.6	28.4		23	36.3	6.8	22.7
9/8/07	28.4	29.7	26.0	22.9	29.8	27.1	20.0	20.7	20.9	21.7	20.7	21.0	20.5	18.6	22.1	25.4	28.9	26.9	24.1	25.9	25.4	23.9	21.6		23	29.8	18.6	24.0
9/9/07	12.3	10.0	10.3	10.3	10.1	10.6	9.0	11.5	17.4	21.9	24.1	23.7	22.9	22.1	22.0	21.5	20.0	18.0	14.1	15.5	12.9	12.2	13.5		23	24.1	9.0	15.9
9/10/07	15.0	12.7	12.9	10.2	10.5	14.7	12.0	15.6	20.9	23.5	26.6	28.6	29.5	29.5	30.5	31.0	31.3	34.0	33.3	21.7	21.2	26.3	27.0		23	34.0	10.2	22.5
9/11/07	20.0		34.4	12.1	12.9	14.5	14.5	16.4	20.4	24.0	26.5	30.9	33.5	31.8	32.1	31.9	31.9	31.1	25.5	21.6	23.3	23.4	23.8		22	34.4	12.1	24.4
9/12/07	24.7	23.6	24.8	24.5	23.1	23.0	23.2	22.9	24.0	25.5	27.5	31.1	34.8	37.9	41.7	44.2	45.1	41.1	42.8	37.9	41.5	44.6	37.7		23	45.1	22.9	32.5
9/13/07	23.4	17.9	11.4	11.7	13.8	15.9	17.5	19.3	19.6	20.3	21.7	22.8	24.3	24.8	24.6	24.1	23.4	23.3	21.0	17.3	14.8	14.4	15.0		23	24.8	11.4	19.2
9/14/07	10.8	10.4	9.9	9.3	9.5	8.8	7.5	10.8	15.1	21.3	25.6	27.1	28.4	30.4	31.9	33.5	35.1	35.3	32.7	26.1	21.1	20.5	19.4		23	35.3	7.5	20.9
9/15/07	18.6	17.0	16.7	17.4	18.4	17.6	18.0	19.7	20.9	23.4	25.5	27.8	30.7	32.1	33.4	34.9	35.8	35.0	29.0	26.7	25.6	23.7	22.0		23	35.8	16.7	24.8
9/16/07	17.4	15.6	13.0	12.3	12.6	9.5	13.6	15.1	22.0	32.4	31.4	33.7	35.0	36.2	38.8	38.4	38.1	38.5	35.1	32.2	29.1	28.2	28.2		23	38.8	9.5	26.4
9/17/07	29.2	28.6	25.4	23.5	24.6	25.7	24.6	22.0	23.3	23.9	25.1	25.1	23.8	21.3	23.2	24.8	25.6	23.6	19.1	15.1	15.9	12.4	16.7		23	29.2	12.4	22.7
9/18/07	10.6		30.9	20.1	15.5	18.7	18.8	16.3	15.8	17.1	17.1	15.7	14.8	14.2	14.8	14.8	12.6	13.5	13.7	9.5	8.7	9.8	10.4		22	30.9	8.7	15.2
9/19/07	7.1	6.7	7.7	7.6	7.5	6.6	7.4	8.1	10.9	16.1	19.8	22.8	25.4	29.1	30.1	31.0	31.5	28.9	27.4	22.9	19.6	16.5	19.2		23	31.5	6.6	17.8
9/20/07	26.0	26.4	23.5	22.1	22.3	20.1	19.4	18.0	20.4	25.4	28.5	32.0	34.7	37.8	41.6	43.3	44.6	41.0	39.4	30.5	26.3	26.8	26.3		23	44.6	18.0	29.4
9/21/07	23.5	22.2	19.7	17.3	18.6	26.8	30.4	36.4	34.1	34.3	35.4	35.8	34.4	33.5	33.7	34.3	35.0	34.1	29.9	31.1	24.1	28.0	24.4		23	36.4	17.3	29.4
9/22/07	20.2	16.6	18.0	18.1	19.8	22.3	23.3	26.3	31.0	35.0	37.5	40.5	43.5	45.5	46.1	46.2	45.8	45.6	44.9	42.6	41.0	39.9	39.0		23	46.2	16.6	34.3
9/23/07	37.8	38.7	40.2	41.2	40.0	38.3	35.6	34.2	35.9	37.9	40.6	43.1	46.3	49.2	50.1	49.7	48.8	47.7	45.7	45.1	35.9	25.8	25.2		23	50.1	25.2	40.6
9/24/07	26.8	24.1	17.7	12.7	9.6	6.3	11.5	12.8	10.8	8.2	10.0	9.0	9.1	9.5	9.1	8.4	8.3	8.8	9.6	10.5	10.6	12.4	13.7		23	26.8	6.3	11.7
9/25/07	11.3		31.6	11.6	12.5	11.3	11.0	12.2	15.8	21.4	22.0	23.7	27.5	28.5	30.9	32.9	33.1	32.3	24.3	19.8	20.6	24.2	25.0		22	33.1	11.0	22.0
9/26/07	22.0	21.5	19.4	19.7	20.7	18.2	14.9	14.9	21.5	27.5	31.1	33.2	32.4	31.6	32.1	34.0	33.1	30.3	24.8	22.5	27.7	24.6	14.8		23	34.0	14.8	24.9
9/27/07	13.9	13.6	15.4	17.1	23.6	24.7	21.9	22.6	23.6	26.5	29.9	33.5	36.7	36.8	37.2	36.6	36.2	34.3	30.0	27.0	24.9	24.9	27.0		23	37.2	13.6	26.9
9/28/07	27.2	25.6	26.9	27.5	26.7	26.2	28.0	30.1	30.2	32.3	35.0			44.7	48.9	51.0	50.0	47.8	47.5	46.4	47.2	48.5	46.0		21	51.0	25.6	37.8
9/29/07	43.0	38.1	38.8	37.7	36.2	33.7	30.2	27.8	28.3	28.7	31.1	32.8	36.9	39.0	39.1	38.0	36.0	32.9	29.1	23.3	28.0	24.6	22.5		23	43.0	22.5	32.9
9/30/07	26.0	22.1	19.2	16.8	16.3	15.5	15.9	17.1	20.0	24.5	24.9	25.5	28.9	33.1	37.3	38.4	36.3	32.7	26.5	21.3	19.5	20.5	21.3		23	38.4	15.5	24.3
																									0			
hr max	44.9	43.9	53.7	41.2	40.0	39.3	37.9	38.2	40.8	43.7	45.4	46.6	50.4	51.3	54.0	54.7	53.3	49.3	47.5	46.4	47.2	48.5	46.0	0.0				
hr min	7.1	6.7	7.7	7.3	6.8	6.3	7.4	8.1	10.8	8.2	10.0	9.0	9.1	9.5	9.1	8.4	8.3	8.8	9.6	9.5	8.7	9.8	10.4	0.0				
average	23.8	22.8	23.9	21.0	21.1	20.9	20.5	21.6	24.1	27.0	28.8	30.5	32.2	33.6	35.3	36.0	35.9	34.0	30.8	27.7	26.3	25.7	25.2	#DIV/0!				

monthly max hr	monthly min hr	monthly ave hr
54.7	6.3	27.4
9/5/07	9/24/07	

Validated by: Roger L Thompson Date: 10/8/07
Analyst: Denise Hazelman Date: 10/8/07

valid hours	684
possible hours	720
data capture	95.0%

Max 8 hr ave. 50.3 9/3/07 12:00

Basin Electric - Gettysburg S.D. Monitoring Program
September-07
w/m2
solar

data
channel
w/m2

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid	daily	daily	daily
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	hr count	max hr	24 hr	total
9/1/07	0	0	0	0	0	0	41	176	361	531	607	701	536	400	614	574	574	238	83	0	0	0	0	0	24	701	5436	5436
9/2/07	0	0	0	0	0	0	41	181	347	499	625	712	760	752	688	575	425	249	79	0	0	0	0	0	24	760	5932	5932
9/3/07	0	0	0	0	0	0	29	165	338	490	583	657	751	741	681	572	422	246	78	0	0	0	0	0	24	751	5753	5753
9/4/07	0	0	0	0	0	0	38	176	342	495	624	709	754	749	691	581	431	249	75	0	0	0	0	0	24	754	5914	5914
9/5/07	0	0	0	0	0	0	34	166	331	484	609	695	741	728	660	549	393	201	65	0	0	0	0	0	24	741	5654	5654
9/6/07	0	0	0	0	0	0	39	125	157	57	52	117	137	426	138	175	99	50	24	0	0	0	0	0	24	426	1596	1596
9/7/07	0	0	0	0	0	0	41	175	339	495	623	708	756	745	683	569	417	234	65	0	0	0	0	0	24	756	5848	5848
9/8/07	0	0	0	0	0	0	15	51	151	132	44	380	126	111	94	111	84	31	5	0	0	0	0	0	24	380	1334	1334
9/9/07	0	0	0	0	0	0	25	136	290	268	265	418	415	231	252	152	80	45	18	0	0	0	0	0	24	418	2595	2595
9/10/07	0	0	0	0	0	0	36	179	341	494	618	703	702	701	677	562	405	224	45	0	0	0	0	0	24	703	5686	5686
9/11/07	0	0	0	0	0	0	21	158	342	498	621	703	746	735	671	556	404	221	53	0	0	0	0	0	24	746	5727	5727
9/12/07	0	0	0	0	0	0	26	153	322	475	599	683	721	704	640	524	363	187	43	0	0	0	0	0	24	721	5437	5437
9/13/07	0	0	0	0	0	0	18	116	274	422	563	540	658	730	677	559	393	216	48	0	0	0	0	0	24	730	5213	5213
9/14/07	0	0	0	0	0	0	34	170	340	461	534	669	676	714	666	554	401	213	44	0	0	0	0	0	24	714	5475	5475
9/15/07	0	0	0	0	0	0	24	143	305	457	556	655	704	694	630	522	372	192	35	0	0	0	0	0	24	704	5289	5289
9/16/07	0	0	0	0	0	0	27	143	302	455	585	667	708	688	619	494	339	116	34	0	0	0	0	0	24	708	5176	5176
9/17/07	0	0	0	0	0	0	16	84	153	208	111	127	100	194	163	161	218	122	31	0	0	0	0	0	24	218	1688	1688
9/18/07	0	0	0	0	0	0	7	50	123	175	169	101	53	77	34	35	38	82	27	0	0	0	0	0	24	175	970	970
9/19/07	0	0	0	0	0	0	8	121	246	415	540	636	678	667	597	318	257	76	7	0	0	0	0	0	24	678	4565	4565
9/20/07	0	0	0	0	0	0	9	102	211	317	402	467	681	627	587	433	332	156	21	0	0	0	0	0	24	681	4346	4346
9/21/07	0	0	0	0	0	0	17	82	169	309	522	637	720	692	611	505	345	161	22	0	0	0	0	0	24	720	4792	4792
9/22/07	0	0	0	0	0	0	15	125	287	442	557	625	667	662	595	476	315	140	16	0	0	0	0	0	24	667	4920	4920
9/23/07	0	0	0	0	0	0	12	111	267	412	533	607	646	629	553	435	139	55	4	0	0	0	0	0	24	646	4402	4402
9/24/07	0	0	0	0	0	0	0	50	84	145	174	224	254	244	157	122	46	20	0	0	0	0	0	0	24	254	1518	1518
9/25/07	0	0	0	0	0	0	5	54	262	396	414	599	681	668	600	485	324	141	13	0	0	0	0	0	24	681	4643	4643
9/26/07	0	0	0	0	0	0	8	89	177	279	232	623	674	663	522	382	287	78	6	0	0	0	0	0	24	674	4019	4019
9/27/07	0	0	0	0	0	0	10	115	280	431	554	636	0	0	595	475	315	132	10	0	0	0	0	0	24	636	3553	3553
9/28/07	0	0	0	0	0	0	10	118	138	195	335	584	502	560	525	436	245	101	5	0	0	0	0	0	24	584	3753	3753
9/29/07	0	0	0	0	0	0	5	93	285	268	463	616	196	448	398	227	132	68	0	0	0	0	0	0	24	616	3200	3200
9/30/07	0	0	0	0	0	0	4	75	166	230	190	267	504	607	541	428	281	111	7	0	0	0	0	0	24	607	3410	3410
																									0		0	0

hr max	0	0	0	0	0	0	41	181	361	531	625	712	760	752	691	581	574	249	83	0	0	0	0	0
hr min	0	0	0	0	0	0	0	50	84	57	44	101	0	0	34	35	38	20	0	0	0	0	0	0
average	0	0	0	0	0	0	20	123	258	364	443	549	542	553	519	418	296	145	32	0	0	0	0	0

monthly	monthly	monthly
max hr	Max24hr	Total
760	5932	127844
9/2/07	9/2/07	

Validated by: Roger L Thompson Date: 10/8/07
Analyst: Denise Hazelman Date: 10/8/07

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
September-07
mmhg
BP

data
channel
mmhg

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
9/1/07	706	706	705	705	705	705	705	705	705	705	704	704	704	704	703	703	703	703	703	704	704	705	705	706	24	706	703	704
9/2/07	706	707	707	707	708	708	708	709	709	710	710	710	710	709	709	709	708	708	708	708	708	708	708	707	24	710	706	708
9/3/07	707	707	706	706	706	706	706	706	706	706	705	705	705	704	704	703	703	703	703	703	703	703	703	703	24	707	703	705
9/4/07	703	703	702	702	702	702	702	702	702	702	702	702	702	701	701	701	700	700	699	699	699	700	700	700	24	703	699	701
9/5/07	700	699	699	699	699	699	699	699	699	699	698	698	698	698	698	697	697	697	697	697	698	699	699	699	24	700	697	698
9/6/07	700	700	700	700	700	701	701	702	702	701	701	700	701	701	701	701	701	701	701	702	702	703	703	703	24	703	700	701
9/7/07	704	704	704	705	705	706	706	707	707	708	708	708	708	708	707	708	708	708	708	708	708	708	707	707	24	708	704	707
9/8/07	707	706	706	706	705	706	706	706	706	706	707	707	708	708	709	710	711	712	713	713	714	714	714	714	24	714	705	709
9/9/07	715	715	715	715	715	715	715	715	716	716	716	715	715	715	714	714	713	714	714	714	714	714	714	714	24	716	713	715
9/10/07	714	714	714	714	714	713	713	713	713	713	713	712	711	711	710	709	709	708	708	707	708	707	708	708	24	714	707	711
9/11/07	709	709	709	710	710	710	711	711	711	711	712	712	711	711	711	710	710	710	710	710	710	710	709	709	24	712	709	710
9/12/07	709	708	708	707	706	705	705	704	704	703	703	702	702	701	701	700	700	700	700	700	700	700	701	702	24	709	700	703
9/13/07	703	703	704	704	705	706	707	707	708	708	709	709	708	708	708	708	709	709	709	710	710	711	711	711	24	711	703	708
9/14/07	712	712	712	712	713	713	714	714	715	715	715	715	715	714	714	714	713	713	713	713	713	713	712	712	24	715	712	713
9/15/07	712	712	711	710	710	709	708	708	708	707	707	706	706	705	705	705	705	705	705	705	705	705	706	706	24	712	705	707
9/16/07	705	705	705	705	705	705	705	705	705	704	704	704	703	703	702	701	701	700	700	700	699	699	698	698	24	705	698	703
9/17/07	698	698	697	697	697	697	697	697	697	697	698	698	698	698	698	698	698	699	699	699	699	700	700	700	24	700	697	698
9/18/07	700	700	700	700	701	701	702	703	703	704	704	705	705	704	705	705	706	706	706	707	707	708	709	709	24	709	700	704
9/19/07	709	710	710	711	711	711	711	711	712	712	712	712	712	711	711	710	710	709	709	709	709	709	708	708	24	712	708	710
9/20/07	707	706	706	705	704	703	702	702	702	701	701	701	700	700	699	699	699	698	698	698	698	697	697	696	24	707	696	701
9/21/07	695	694	694	694	696	698	699	701	702	703	704	704	704	705	705	705	705	706	706	706	706	706	706	707	24	707	694	702
9/22/07	707	707	706	706	706	705	705	704	704	704	703	703	703	702	701	701	701	700	701	701	701	701	701	701	24	707	700	703
9/23/07	701	701	701	701	700	700	700	700	699	699	699	699	699	698	698	697	697	697	697	697	698	699	700	700	24	701	697	699
9/24/07	700	700	700	700	700	700	700	701	702	702	702	703	703	703	704	704	705	706	706	707	708	708	708	709	24	709	700	703
9/25/07	709	709	709	709	709	709	710	710	710	710	710	710	709	709	708	708	707	708	707	707	707	707	707	707	24	710	707	708
9/26/07	707	706	706	705	705	705	705	705	705	705	705	705	705	704	704	704	705	705	705	705	705	705	705	706	24	707	704	705
9/27/07	706	706	706	706	706	706	707	708	709	709	710	710	710	709	710	709	709	709	709	709	709	709	709	709	24	710	706	708
9/28/07	709	709	708	708	708	708	707	707	706	705	704	703	702	701	701	700	700	699	699	699	699	699	699	699	24	709	699	703
9/29/07	699	698	698	698	697	697	697	697	697	697	697	697	696	696	696	696	696	697	697	696	697	697	697	698	24	699	696	697
9/30/07	699	701	701	701	701	701	702	703	704	705	705	706	706	706	707	707	707	707	708	708	709	709	709	709	24	709	699	705
																									0			
hr max	715	715	715	715	715	715	715	715	716	716	716	715	715	715	714	714	713	714	714	714	714	714	714	714				
hr min	695	694	694	694	696	697	697	697	697	697	697	697	696	696	696	696	696	697	697	696	697	697	697	696				
average	705	705	705	705	705	705	705	705	705	706	706	705	705	705	705	704	704	704	704	705	705	705	705	705				

monthly max hr	monthly min hr	monthly ave hr
716	694	705
9/9/07	9/21/07	

Validated by: Roger L Thompson Date: 10/8/07
Analyst: Denise Hazelman Date: 10/8/07

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
September-07
%
RH

data channel %

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr	daily min hr	daily ave hr
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
9/1/07	86.7	85.8	83.6	82.4	83.1	82.7	78.2	69.3	60.4	53.7	50.6	45.5	43.2	45.3	39.5	37.8	37.8	41.2	49.9	57.3	65.0	68.7	70.1	73.1	24	86.7	37.8	62.1
9/2/07	65.9	70.5	73.3	75.1	77.9	80.5	83.3	73.8	59.9	52.9	49.7	46.6	44.0	42.2	42.4	46.7	48.7	55.2	65.5	72.1	70.8	75.2	77.9	84.9	24	84.9	42.2	64.0
9/3/07	87.3	86.7	87.7	86.4	88.4	90.0	84.4	74.2	64.9	56.6	50.3	42.0	32.6	30.8	28.1	27.3	29.1	33.3	42.0	51.9	56.6	61.8	63.6	66.9	24	90.0	27.3	59.3
9/4/07	67.8	70.2	68.2	68.2	70.0	74.2	74.9	64.9	55.4	52.8	53.0	49.7	45.2	40.1	35.9	32.8	33.7	44.0	62.5	57.3	55.9	58.9	56.4	59.2	24	74.9	32.8	56.3
9/5/07	62.4	65.7	69.6	72.5	74.4	74.1	75.7	71.2	62.7	55.6	50.9	46.5	41.7	37.6	34.6	32.8	34.5	41.9	38.8	57.4	73.5	78.8	77.8	73.3	24	78.8	32.8	58.5
9/6/07	68.0	72.5	74.8	76.8	76.3	71.2	69.8	65.4	61.3	71.2	85.5	85.2	79.9	68.9	68.5	69.2	74.0	74.9	77.4	81.6	84.0	91.3	92.4	92.1	24	92.4	61.3	76.3
9/7/07	92.1	92.5	92.8	94.9	96.1	94.3	92.4	86.7	78.6	68.8	53.7	47.3	43.1	41.5	39.4	37.4	40.1	40.8	51.6	71.0	73.5	67.2	65.8	63.3	24	96.1	37.4	67.7
9/8/07	66.0	65.3	80.2	88.8	86.5	88.0	91.9	92.7	92.3	89.1	90.9	86.9	86.5	94.8	94.2	93.1	90.0	91.8	91.0	89.8	89.9	90.0	92.1	95.3	24	95.3	65.3	88.2
9/9/07	96.8	97.7	98.1	98.1	98.2	98.8	98.7	97.9	89.6	80.9	75.5	69.5	63.0	62.0	62.9	64.6	67.0	70.5	77.4	77.3	83.6	86.1	86.8	87.8	24	98.8	62.0	82.9
9/10/07	89.6	91.5	93.1	93.9	95.4	92.8	91.2	83.6	70.8	62.6	55.7	49.2	44.9	43.2	38.7	37.5	35.6	30.3	35.8	63.8	68.0	57.0	52.9	64.6	24	95.4	30.3	64.2
9/11/07	75.6	76.8	80.8	88.1	87.9	85.6	86.3	78.4	66.0	56.5	48.3	36.5	30.5	31.1	28.8	29.7	30.9	34.1	51.6	67.6	67.3	68.0	68.4	68.5	24	88.1	28.8	60.1
9/12/07	68.2	70.4	68.1	68.7	71.5	70.4	69.0	65.9	58.7	54.8	52.0	47.6	43.4	40.2	36.8	35.3	34.3	40.5	47.9	58.0	59.2	57.2	66.0	66.3	24	71.5	34.3	56.3
9/13/07	68.1	76.1	81.7	78.0	75.9	73.0	71.8	62.7	57.4	54.9	50.6	50.5	43.4	39.5	38.5	39.3	40.7	42.4	49.4	64.2	73.8	76.4	75.2	82.9	24	82.9	38.5	61.1
9/14/07	88.3	89.9	91.3	92.3	92.9	93.4	94.7	87.9	73.8	57.8	48.8	44.9	43.5	40.8	39.3	37.9	36.2	33.7	46.8	70.5	78.4	79.2	79.7	79.1	24	94.7	33.7	67.5
9/15/07	80.2	84.4	86.5	85.1	83.5	85.6	83.0	73.7	64.4	54.0	47.8	43.0	39.1	37.1	35.7	34.3	34.7	38.7	58.9	72.6	77.3	82.1	85.9	89.2	24	89.2	34.3	64.9
9/16/07	92.0	93.3	94.4	96.4	96.4	96.0	96.2	88.1	75.6	54.5	51.4	47.2	43.7	41.1	36.6	39.0	42.1	55.1	66.4	74.9	79.0	83.1	83.0	78.9	24	96.4	36.6	71.0
9/17/07	81.5	83.0	86.0	85.9	80.7	75.6	76.2	76.8	69.9	64.8	61.8	57.2	59.1	68.4	61.4	60.9	59.2	64.2	72.9	88.0	91.7	94.3	96.3	97.4	24	97.4	57.2	75.6
9/18/07	97.5	98.0	98.2	89.7	82.3	81.4	80.3	81.5	79.7	75.9	75.1	76.6	86.6	87.5	87.1	85.1	87.1	83.7	83.0	90.2	90.7	90.0	89.9	94.1	24	98.2	75.1	86.3
9/19/07	95.6	97.1	96.5	95.5	95.0	94.5	93.6	90.5	87.2	75.4	65.5	60.2	55.8	50.9	50.3	52.6	54.0	60.3	71.3	81.2	83.0	90.1	86.7	80.1	24	97.1	50.3	77.6
9/20/07	78.7	81.3	88.1	90.3	89.5	91.3	93.0	93.2	88.7	80.2	71.7	63.1	55.6	49.9	44.2	44.1	43.2	48.7	59.7	72.5	83.4	85.4	86.6	85.3	24	93.2	43.2	73.7
9/21/07	85.5	85.9	87.9	88.6	89.7	68.6	68.6	68.4	69.3	62.9	53.4	43.4	39.6	35.5	34.0	33.2	33.3	36.8	49.0	60.9	74.9	75.2	77.5	80.1	24	89.7	33.2	62.6
9/22/07	82.9	84.7	84.5	83.7	79.9	75.4	72.5	63.2	52.2	43.0	39.0	32.7	28.1	25.8	24.8	26.0	27.6	29.6	33.1	38.4	41.4	46.0	51.8	58.0	24	84.7	24.8	51.0
9/23/07	62.9	68.4	74.2	77.8	81.1	81.4	82.5	78.8	71.1	64.6	57.7	52.4	46.9	41.6	35.9	33.0	34.1	36.2	42.0	49.0	61.1	78.8	87.1	91.5	24	91.5	33.0	62.1
9/24/07	93.8	95.0	95.6	96.4	96.4	96.8	97.0	97.1	93.8	91.6	88.8	84.3	79.4	75.7	75.4	75.4	76.9	77.4	77.6	82.0	81.1	82.2	86.4	88.0	24	97.1	75.4	86.8
9/25/07	84.8	83.2	83.9	85.2	85.6	87.7	88.2	87.4	76.6	63.9	60.6	54.1	43.2	40.3	35.9	33.6	38.5	43.7	67.2	78.3	77.9	70.2	68.0	72.9	24	88.2	33.6	67.1
9/26/07	75.0	76.9	80.7	82.5	81.9	84.0	85.8	82.9	71.7	57.8	58.2	46.6	43.5	36.1	32.9	34.2	37.3	45.0	56.3	61.8	64.9	73.7	78.7	77.0	24	85.8	32.9	63.6
9/27/07	78.5	77.9	77.4	73.5	61.1	64.3	71.0	65.7	59.0	53.2	47.0	39.8	34.2		29.8	31.0	32.3	34.5	45.9	59.4	65.0	67.7	69.4	69.8	23	78.5	29.8	56.8
9/28/07	66.3	64.9	64.8	62.1	62.0	63.2	60.0	54.2	53.7	46.0	36.5	32.7	32.9	32.9	36.0	34.4	39.8	46.6	52.3	55.7	59.7	62.9	67.1	68.4	24	68.4	32.7	52.3
9/29/07	69.0	60.6	60.1	66.6	72.4	77.0	82.4	82.6	73.8	65.1	53.0	45.1	32.2	28.3	21.4	23.2	38.8	44.4	51.6	67.9	65.5	66.8	71.9	56.0	24	82.6	21.4	57.3
9/30/07	73.0	83.8	87.8	89.3	89.1	88.6	87.9	88.3	84.6	80.6	77.9	75.1	67.4	59.0	51.8	46.8	43.6	43.4	51.7	63.0	66.5	65.4	61.6	64.8	24	89.3	43.4	70.5
																									0			
hr max	97.5	98.0	98.2	98.1	98.2	98.8	98.7	97.9	93.8	91.6	90.9	86.9	86.6	94.8	94.2	93.1	90.0	91.8	91.0	90.2	91.7	94.3	96.3	97.4				
hr min	62.4	60.6	60.1	62.1	61.1	63.2	60.0	54.2	52.2	43.0	36.5	32.7	28.1	25.8	21.4	23.2	27.6	29.6	33.1	38.4	41.4	46.0	51.8	56.0				
average	79.3	81.0	83.0	83.8	83.4	82.7	82.7	78.2	70.8	63.4	58.7	53.4	49.1	47.2	44.0	43.6	45.2	48.8	57.6	67.9	72.1	74.3	75.8	77.0				

monthly max hr	monthly min hr	monthly ave hr
98.8	21.4	66.8
9/9/07	9/29/07	

Validated by: Roger L Thompson Date: 10/8/07
Analyst: Denise Hazelman Date: 10/8/07

valid hours	719
possible hours	720
data capture	99.9%

Basin Electric - Gettysburg S.D. Monitoring Program
September-07

data channel in: in
Prcp

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	valid hr count	daily max hr		daily total
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
9/1/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
9/2/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
9/3/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
9/4/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
9/5/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
9/6/07	0	0	0	0	0	0	0	0	0	0.01	0.02	0.01	0	0	0	0	0	0	0	0	0	0	0	0	24	0.02		0.04
9/7/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
9/8/07	0	0	0.03	0.3	0.11	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.30		0.45
9/9/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
9/10/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
9/11/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
9/12/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
9/13/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
9/14/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
9/15/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
9/16/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
9/17/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
9/18/07	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0	0	0.01	0	0	0	0	0	0	0	24	0.01		0.02
9/19/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0.1	0.01	0	0	24	0.10		0.12
9/20/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
9/21/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
9/22/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
9/23/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.08	0.03	24	0.08		0.11
9/24/07	0.01	0.01	0	0	0.01	0.02	0.02	0	0	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0	24	0.02		0.08
9/25/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
9/26/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
9/27/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
9/28/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
9/29/07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.00		0.00
9/30/07	0.06	0.17	0.07	0.03	0.09	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0.17		0.44
																									0			
hr max	0.06	0.17	0.07	0.30	0.11	0.02	0.02	0.01	0.00	0.01	0.02	0.01	0.01	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.10	0.01	0.08	0.03		monthly max hr	monthly 24h max	monthly TOTAL
hr min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.30	0.45	1.26
total	0.07	0.18	0.10	0.33	0.21	0.04	0.02	0.01	0.00	0.01	0.02	0.01	0.01	0.00	0.00	0.00	0.02	0.00	0.01	0.00	0.10	0.01	0.08	0.03		9/8/07	9/8/07	

Validated by: Roger L Thompson Date: 10/8/07
Analyst: Denise Hazelman Date: 10/8/07

valid hours	720
possible hours	720
data capture	100.0%

Basin Electric - Gettysburg S.D. Monitoring Program
September-07
DegC
StnT

data channel DegC

hr beg	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
hr end	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
9/1/07	23.8	23.6	23.5	23.4	23.3	23.3	23.2	23.3	23.5	23.7	23.9	24.2	24.5	24.7	24.8	24.9	24.9	25.1	25.0	24.8	24.6	24.3	24.0	24.1
9/2/07	23.8	23.4	23.2	23.1	23.1	23.1	23.1	23.1	23.1	23.2	23.5	23.8	24.1	24.3	24.5	24.7	24.7	24.7	24.6	24.3	24.0	23.7	23.6	23.8
9/3/07	23.6	23.4	23.3	23.3	23.3	23.2	23.1	23.2	23.4	23.6	23.9	24.3	24.6	24.9	25.2	25.5	25.5	25.5	25.3	25.0	24.7	24.4	24.1	24.3
9/4/07	24.0	24.1	24.4	23.8	23.5	23.3	23.2	23.2	23.4	23.8	24.4	24.5	24.7	24.9	25.1	25.3	25.3	25.3	25.1	24.8	24.4	24.2	24.0	24.1
9/5/07	23.8	23.6	23.4	23.3	23.2	23.1	23.1	23.1	23.3	23.6	23.9	24.2	24.6	24.8	25.0	25.3	25.4	25.4	25.2	25.0	24.6	24.3	24.0	24.1
9/6/07	23.7	23.4	23.2	23.1	23.1	23.1	23.1	23.0	23.0	23.0	23.1	23.1	23.0	23.0	23.0	23.1	23.4	23.4	23.2	23.1	23.1	23.1	23.2	23.4
9/7/07	23.4	23.3	23.3	23.3	23.3	23.4	23.3	23.3	23.2	23.1	23.2	23.3	23.5	23.7	23.9	24.1	24.2	24.2	23.9	23.5	23.3	23.2	23.2	23.4
9/8/07	23.3	23.2	23.1	23.2	23.4	23.3	23.3	23.4	23.3	23.2	23.2	23.1	23.0	23.1	23.2	23.3	23.3	23.4	23.3	23.3	23.3	23.2	23.0	23.3
9/9/07	22.7	21.9	21.1	20.5	20.0	19.8	19.6	19.8	20.2	20.9	21.6	22.4	22.8	22.9	22.9	23.0	23.0	23.1	23.2	23.2	23.3	23.4	23.4	23.4
9/10/07	23.1	22.7	22.2	21.6	21.0	20.4	20.1	20.2	20.7	21.7	22.6	22.9	23.1	23.2	23.3	23.4	23.4	23.3	23.3	23.2	23.2	23.2	23.2	23.3
9/11/07	23.3	23.5	23.8	23.4	22.9	22.3	21.8	21.4	21.8	22.4	22.9	23.1	23.2	23.3	23.4	23.5	23.5	23.4	23.2	23.2	23.4	23.5	23.2	23.4
9/12/07	22.9	22.2	21.7	21.2	20.8	20.4	20.1	20.1	20.4	21.4	22.4	22.8	23.1	23.4	23.9	24.3	24.3	24.3	24.2	23.9	23.5	23.4	23.3	23.4
9/13/07	23.3	23.2	23.3	23.3	23.3	23.0	22.5	22.1	21.9	22.0	22.5	23.0	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.1	22.6	21.9	21.2	21.0
9/14/07	20.3	19.8	19.5	19.3	19.1	19.0	19.0	19.1	19.7	20.2	20.9	21.8	22.8	23.1	23.3	23.3	23.3	23.2	23.2	23.2	22.8	21.9	21.0	20.8
9/15/07	20.0	19.6	19.3	19.1	19.0	19.0	19.0	19.2	19.7	20.3	21.4	22.6	23.0	23.3	23.5	23.7	23.9	23.9	23.7	23.5	23.5	23.5	23.6	23.6
9/16/07	23.3	22.9	22.4	21.7	21.1	20.6	20.2	20.4	21.2	22.5	23.0	23.3	23.6	23.8	24.1	24.3	24.4	24.7	24.4	24.1	23.7	23.5	23.5	23.7
9/17/07	23.5	23.4	23.4	23.3	23.4	23.4	23.3	23.4	23.4	23.4	23.4	23.5	23.5	23.5	23.5	23.6	23.6	23.5	23.5	23.3	23.4	23.4	23.5	23.6
9/18/07	23.6	23.7	23.9	23.6	23.5	23.5	23.5	23.5	23.4	23.4	23.5	23.7	23.8	23.7	23.6	23.5	23.5	23.5	23.6	23.4	23.1	22.6	22.2	22.3
9/19/07	21.7	21.3	21.1	20.9	20.9	20.9	21.0	21.1	21.4	22.0	22.8	23.2	23.3	23.4	23.6	23.5	23.5	23.4	23.4	23.4	23.5	23.6	23.7	23.7
9/20/07	23.6	23.5	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.7	23.9	24.2	24.5	24.8	25.2	25.3	25.2	24.9	24.5	24.1	23.8	23.6	23.7
9/21/07	23.5	23.4	23.3	23.3	23.3	23.6	23.6	23.6	23.7	23.6	23.5	23.4	23.4	23.5	23.5	23.6	23.6	23.6	23.4	23.4	23.6	23.5	23.1	23.1
9/22/07	22.5	21.8	21.3	21.1	21.0	20.9	20.9	21.1	21.6	22.5	22.9	23.2	23.5	24.0	24.5	24.9	25.1	25.2	25.1	24.8	24.4	24.0	23.8	23.9
9/23/07	23.7	23.5	23.4	23.4	23.4	23.4	23.4	23.4	23.5	23.8	24.1	24.3	24.6	24.9	25.2	25.3	25.4	25.3	25.3	25.0	24.9	24.4	24.1	24.0
9/24/07	23.7	23.5	23.4	23.4	23.3	23.4	23.4	23.4	23.4	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.6	23.6	23.5	23.4	23.1	22.9	22.6	23.0
9/25/07	22.6	22.9	23.6	23.0	22.4	21.9	21.5	21.3	21.3	21.7	22.4	23.1	23.3	23.4	23.4	23.5	23.5	23.4	23.4	23.5	23.2	22.7	22.2	22.3
9/26/07	21.7	21.2	20.9	20.8	20.7	20.7	20.7	20.8	21.1	21.5	22.2	22.9	23.2	23.4	23.5	23.6	23.6	23.6	23.5	23.5	23.5	23.5	23.5	23.7
9/27/07	23.6	23.5	23.4	23.4	23.3	23.3	22.9	22.7	22.9	23.3	23.3	23.4	23.8	25.0	25.8	26.2	25.9	25.4	25.5	25.4	25.3	24.9	24.7	24.2
9/28/07	24.6	24.4	24.1	23.8	23.7	23.6	23.5	23.4	23.4	23.8	24.6	25.3	25.4	25.7	25.7	26.1	25.7	25.5	25.2	25.2	24.7	24.1	24.0	24.7
9/29/07	23.8	23.5	23.2	23.0	22.9	22.8	22.8	22.8	22.8	23.7	24.4	24.9	25.1	25.3	25.4	26.0	26.3	25.1	24.6	24.3	24.1	23.9	23.6	24.0
9/30/07	23.5	23.4	23.5	23.6	23.7	23.8	23.7	23.4	23.3	23.3	23.5	23.7	23.6	23.5	23.4	23.4	23.4	23.3	23.4	23.7	23.8	23.4	23.0	22.9
hr max	24.6	24.4	24.4	23.8	23.7	23.8	23.7	23.6	23.7	23.8	24.6	25.3	25.4	25.7	25.8	26.2	26.3	25.5	25.5	25.4	25.3	24.9	24.7	24.7
hr min	20.0	19.6	19.3	19.1	19.0	19.0	19.0	19.1	19.7	20.2	20.9	21.8	22.8	22.9	22.9	23.0	23.0	23.1	23.2	23.1	22.6	21.9	21.0	20.8
average	23.1	22.9	22.8	22.6	22.4	22.3	22.2	22.2	22.3	22.7	23.1	23.5	23.7	23.9	24.1	24.2	24.3	24.2	24.1	23.9	23.8	23.5	23.3	23.4

valid hr count	daily max hr	daily min hr	daily ave hr
24	25.1	23.2	24.1
24	24.7	23.1	23.8
24	25.5	23.1	24.2
24	25.3	23.2	24.3
24	25.4	23.1	24.1
24	23.7	23.0	23.2
24	24.2	23.1	23.5
24	23.4	23.0	23.2
24	23.4	19.6	22.0
24	23.4	20.1	22.4
24	23.8	21.4	23.0
24	24.3	20.1	22.6
24	23.3	21.0	22.7
24	23.3	19.0	21.2
24	23.9	19.0	21.7
24	24.7	20.2	22.9
24	23.6	23.3	23.4
24	23.9	22.2	23.4
24	23.7	20.9	22.5
24	25.3	23.4	24.0
24	23.7	23.1	23.5
24	25.2	20.9	23.1
24	25.4	23.4	24.2
24	23.7	22.6	23.4
24	23.6	21.3	22.7
24	23.7	20.7	22.4
24	26.2	22.7	24.2
24	26.1	23.4	24.6
24	26.3	22.8	24.1
24	23.8	22.9	23.5
0			

monthly max hr	monthly min hr	monthly ave hr
26.3	19.0	23.3
9/29/07	9/14/07	

Validated by: Roger L Thompson Date: 10/8/07
Analyst: Denise Hazelman Date: 10/8/07

valid hours	720
possible hours	720
data capture	100.0%

Nevada/NAAQS 8hr standard = 80 ppb or 157 $\mu g/m^3$ (ppb to $\mu g/m^3$ factor =1.96)

Appendix E

ARS Audit Report

AUDIT REPORT

FOR

BASIN NEXTGEN PROJECT
GETTYSBURG, SOUTH DAKOTA
THIRD QUARTER 2007

Prepared for

ENSR
1601 Prospect Parkway
Fort Collins, Colorado 80525

Prepared by

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October 1, 2007

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1.0 AUDIT SUMMARY

ENSR is operating an ambient air quality and meteorological monitoring station for the Basin NextGen Project, approximately five (5) miles east of Gettysburg, South Dakota. The monitoring program has been designed to fulfill specific regulatory requirements that relate to the Environmental Protection Agency's (EPA) Prevention of Significant Deterioration (PSD) Program. Specific objectives of the ambient air quality and meteorological monitoring program are to:

- Fulfill pre-construction air monitoring required under PSD permitting rules,
- Obtain baseline data on the present ambient air conditions, and
- Provide a comprehensive on-site database for use in dispersion modeling using ISCST3, AERMOD, and CALPUFF.

To meet these objectives, ENSR has installed an ambient air quality monitoring station and an instrumented 100-meter meteorological tower.

Air Resources Specialists, Inc. (ARS) conducted a performance audit of the monitoring systems on July 12, 2007. Guidance from the following EPA documents was used to establish the audit procedures:

- 40 CFR 58, Appendix A. *Quality Assurance Requirements for SLAMS, SPMs, and PSD Air Monitoring*
- EPA *Quality Assurance Handbook for Air Pollution Measurement Systems:*
  - *Volume I. Principles*
  - *Volume II. Ambient Air Specific Methods*
  - *Volume IV. Meteorological Measurements*
- EPA *Meteorological Monitoring Guidance for Regulatory Modeling Applications*
- EPA *Transfer Standards for Calibration of Air Monitoring Analyzers for Ozone*
- NDEP *Bureau of Air Pollution Control, Ambient Air Quality Monitoring Standards*

At the time of the audit, all of gaseous analyzers, PM_{10} samplers, and meteorological parameters were operating within EPA and project accuracy goals.

This report includes some of the additional audit points required by the revised 40 CFR 58, Appendix B. ARS is in the process of acquiring equipment that will allow the challenge of the gaseous analyzers at the lower points and will have this equipment in place prior to the fourth quarter 2007 audits.

Ambient air quality audit results are summarized by parameter in Table 1-1.

The monitoring site specifications, as measured by ARS' global positioning system (GPS) and parameters audited are:

- Elevation: 2,050 feet MSL
- Latitude: 45° 02' 37" N
- Longitude: 99° 50' 13" W
- UTM 4988136 N
- UTM 565914 E

Ambient air quality instruments audited were:

- Ozone (O_3) Analyzer
- Sulfur Dioxide (SO_2) Analyzer
- Oxides of Nitrogen (NO, NO_2, and NO_X) Analyzer
- In-Station Calibrator
- Inhalable Particulate (PM_{10}) Sampler (2)

Meteorological parameters audited were:

- 100 meters:
  - Wind speed
  - Wind direction
  - Vertical wind speed
  - Temperature
- 50 meters:
  - Wind speed
  - Wind direction
  - Vertical wind speed
  - Temperature
- 10 meters:
  - Wind speed
  - Wind direction
  - Vertical wind speed
  - Temperature
- 2 meters:
  - Temperature
  - Relative humidity
- Solar radiation
- Precipitation
- Barometric pressure

Table 1-1

Summary of Ambient Air Quality Audit Results

Parameter	Instrument/Analyzer	Within Accuracy Goal
Gaseous Samplers		
O_3	TEI* 49i Analyzer	Yes
SO_2	TEI 43i Analyzer	Yes
NO, NO_2, NO_x	TEI 42i Analyzer	Yes
Particulate Samplers		
PM_{10}	Tisch (PM_{10} #1)	Yes
PM_{10}	Tisch (PM_{10} #2)	Yes

*Thermo Environmental Instruments, Inc.

Table 1-2

Summary of Meteorological Audit Results

Parameter	Instrument/Sensor	Within Accuracy Goal
100-Meter Level		
Wind Speed	Climatronics F460	Yes
Wind Direction	Climatronics F460	Yes
Vertical Wind Speed	Climatronics 102236	Yes
Temperature	Climatronics 100093	Yes
50-Meter Level		
Wind Speed	Climatronics F460	Yes
Wind Direction	Climatronics F460	Yes
Vertical Wind Speed	Climatronics 102236	Yes
Temperature	Climatronics 100093	Yes
10-Meter Level		
Wind Speed	Climatronics F460	Yes
Wind Direction	Climatronics F460	Yes
Vertical Wind Speed	Climatronics 102236	Yes
Temperature	Climatronics 100093	Yes
2-Meter Level		
Temperature	Climatronics 100093	Yes
Other		
Relative Humidity	Rotronics HMD 35	Yes
Solar Radiation	Eppley 8-48	Yes
Precipitation	Texas Electronics TR525-1	Yes
Barometric Pressure	Climatronics 101448	Yes

Details of the audit are presented in the following sections:

Section 2.0	Audit Methods
Section 3.0	Audit Equipment
Section 4.0	Audit Results
Appendix A	Audit Data Forms
Appendix B	Relevant Formulae for Computing NO_2 Input Concentration
Appendix C	Audit Standards Certifications

Any questions related to this audit or audit report should be addressed to:

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2.0 AUDIT METHODS

Audit procedures, audit challenge ranges, and acceptance criteria are described below. These ranges and limits conform to EPA's PSD guidelines. Audit results were verbally communicated to the site operator and the ENSR Project Manager prior to departure from the site. Audit data forms are provided in Appendix A.

2.1 GASEOUS ANALYZERS (O_3, SO_2, AND NO_x)

Audit challenge ranges and acceptance criteria for the ambient gas analyzers are presented in Table 2-1. Audits were conducted by using an ozone primary standard and a gas dilution/gas phase titration system. These systems introduced a reference zero and three (3) test atmospheres to the individual gas analyzers through the normal sampling system, including the sample intake manifold, filters, and scrubbers.

The percent difference between the actual concentration of the audit test gas and the concentration indicated by the analyzer was used to determine if the analyzer was operating within specified limits. Analyzers whose readings at any point differed from the test atmosphere by more than ±15% were considered out of tolerance.

Test atmospheres for the ozone analyzer and the on-site ozone transfer standard were generated using an ozone primary standard (TEI 49C). Test atmospheres for the gaseous SO_2 and NO_x analyzers were generated using the ARS gas dilution/gas phase titration system, zero air supply, and EPA protocol reference gases. The formulae for completing NO_2 input concentrations are provided in Appendix B.

Table 2-1

Gaseous Analyzers
Audit Challenge Ranges and Acceptance Criteria

Parameter	Audit Concentration Ranges (ppm)					Acceptance Criteria
	Level 1	Level 2	Level 3	Level 4	Level 5	
O_3	0.02-0.05	0.06-0.08	0.15-0.20	0.36-0.45	n/a	±7% or ±7 ppb for any point
SO_2	0.003-0.005	0.006-0.01	0.03-0.08	0.15-0.20	0.36-0.40	±15% or ±15 ppb for any point
$NO/NO_2/NO_X$	0.003-0.005	0.03-0.08	0.15-0.20	0.35-0.45	n/a	±15% or ±15 ppb for any point

2.1.1 In-Station Standards Comparisons

In addition to conducting audits of the gaseous analyzers, ARS also conducted a comparison of the in-station calibration standards. The in-station calibration standards consisted of a TEI 146 gas dilution system and a TEI 49C ozone transfer standard. Standards comparisons are not required in the regulatory guidelines; however, ARS has found this to be a useful evaluation tool in cases where analyzers are operating outside of project accuracy goals.

2.2 PARTICULATE SAMPLERS

The volumetric flow controlled PM_{10} particulate samplers were audited in their normal operating mode with a particulate filter installed. ARS audited the samplers with a fixed flow audit orifice. The observed flow of the sampler, based on its most recent calibration, was compared to the observed flow of the ARS audit orifice. The audit value is represented by the percent difference between the two flows. Differences between the sampler and audit flows greater than ±10% are considered out of tolerance. To ensure that the addition of the audit orifice to the sampler did not adversely affect the sampler flow, an additional sampler flow rate, with the particulate filter in place and the audit orifice removed, was performed. This design flow rate of the PM_{10} samplers was compared to the actual flow rate and reported as the percent difference. Values greater than ±10% are considered out of tolerance. Audit methods and acceptable criteria for the particulate samplers are summarized in Table 2-2.

Table 2-2

Particulate Samplers
Audit Methods and Acceptance Criteria

Parameter	Audit Method	Acceptance Criteria
PM_{10} filter sampler	Audit orifice flow to actual sampler flow.	±10%
(EPA Reference Method)	Design criteria flow to actual sampler flow.	±10%

2.3 METEOROLOGICAL PARAMETERS

Meteorological measurement systems were audited in accordance with the EPA's *Quality Assurance Handbook for Air Pollution Measurement Systems: Volume IV – Meteorological Measurements*, (March 1995). Accuracy goals for the meteorological parameters were obtained from the EPA's *On-Site Meteorological Program Guidance for Regulatory Modeling Applications*. ARS used National Institute of Standards and Technologies (NIST) traceable test equipment for all meteorological parameters. Audit ranges and acceptable criteria for each parameter are summarized in Table 2-3. Meteorological audit procedures are as follows:

Table 2-3

Meteorological Sensors
Audit Ranges and Acceptance Criteria

Sensor	Parameter	Audit Challenge Ranges	Acceptance Criteria
Wind Speed (Horizontal and Vertical)	• Speed Accuracy	Three RPM Values	0.447 mph + 5% of Observed
	• Starting Threshold	Starting Torque	≤0.2 gm-cm (horizontal) ≤2.0 gm-cm (vertical)
Wind Direction	• Orientation Accuracy	To and From Two Landmarks	±5° in Any Direction
	• Response Threshold	Starting Torque	≤7.0 gm-cm
Temperature and Temperature Difference	• Accuracy and Linearity	Three Temperature Baths: 0°C, Near Ambient, and Near Full-Scale	Temperature ±0.5°C Δ Temperature ±0.1°C
Relative Humidity	• Accuracy	Compared to Ambient	Relative Humidity ±10%
Solar Radiation	• Accuracy	Three collocated readings	±5° of Observed, ±25 w/m^2 which ever is greater
Precipitation	• Accuracy	Compared to Three Known Amounts of Introduced Water	±10% of Observed
	• Tip Response	Manual Tips	One contact closure per tip
Barometric Pressure	• Accuracy	Compared to Ambient	±3 mb

Wind Speed – Dynamic tests of the horizontal wind speed sensors were performed using an R. M. Young model 18810 pulsed motor wind speed calibrator. Each sensor was tested at zero plus three (3) shaft revolution speeds (300, 900, and 1500 rpm). The equivalent wind speed was calculated corresponding to the manufacturer's specified values for shaft rpm versus wind velocity and compared to readings obtained from the on-site datalogger and backup strip chart recorder. A bearing integrity check was also performed using an R. M. Young torque wheel.

Wind Direction – Wind direction sensor audits included the verification of sensor orientation, linearity, and bearing integrity. ARS determined the orientation of the wind sensor crossarm. Accuracy of the crossarm was determined by use of a Brunton compass mounted on a tripod and knowledge of the site location in terms of latitude and longitude. A computer program was used to establish the declination of the site.

Potentiometer linearity was tested by verifying the accuracy of the measured wind direction towards and away from the crossarm in the 4-cardinal directions. If the checks are within ±5 degree accuracy, the linearity is also valid.

In addition to the sensor orientation and linearity checks, the sensor bearings were tested using an R. M. Young torque wheel.

Vertical Wind Speed – Vertical wind speed was audited by first obtaining a zero response. The sensors were then challenged using an R. M. Young Model 18810 pulsed motor wind speed calibrator. The pulsed motor was used to rotate the sensor shafts at 300 and 900 rpm in both the clockwise (cw) and counter-clockwise (ccw) directions. Values observed were compared to the manufacturer's specifications to verify sensor accuracy.

Temperature and Temperature Difference – Each temperature sensor was audited by immersion in three (3) temperature baths with NIST-traceable thermometers. The temperature tests were performed at 0°C, ambient (approximately 25°C), and as near to full-scale as possible. Bath temperature readings obtained with the NIST-traceable thermometer were compared to the on-site datalogger. Temperature differences (ΔT) systems were assessed by simultaneously immersing both sensors in each of the three baths and noting the measured temperature difference between sensors. Data observed on the datalogger were used to assess the accuracy and linearity of each sensor.

Relative Humidity – The relative humidity monitoring system performance audit was conducted using a hand-held reference relative humidity measurement system to obtain the ambient relative humidity value. The observation was taken as near as possible to the on-site sensor. Relative humidity data observed on the on-site datalogger and strip chart recorder were compared to the reference readings.

Solar Radiation – The solar radiation sensor was audited by collocating an Eppley model PSP certified reference sensor next to the station sensor. Three (3) instantaneous comparisons were conducted. Readings from the audit standard and on-site dataloggers were arithmetically averaged, converted to proper engineering units (watts per meter square), and compared to establish sensor accuracy.

Precipitation – The tipping bucket precipitation gauge was audited by using a volumetric precipitation gauge calibrator and transferring a known amount of water through the gauge orifice at a rate equivalent to 2.0 inches/hour of precipitation. The gauge was challenged twice with water equivalents of approximately 1.0 inch of precipitation (100 tips of the sensor). The tip response of the on-site datalogger was verified, and the total datalogger values were compared to the actual introduced volumes.

Barometric Pressure – Barometric pressure was audited by side-by-side comparison to a portable barometric pressure standard (AIR-HB-1A).

3.0 AUDIT EQUIPMENT

Audits of all criteria pollutant gaseous analyzers were conducted using EPA protocol reference gases. All audit equipment and reference standards were in current calibration and traceable to the NIST or other authoritative references. The nitric oxide (NO) and sulfur dioxide (SO_2) reference gases were traceable to EPA standard reference materials. Table 3-1 lists the specific audit equipment used and certification dates. Copies of standards certifications for the equipment used in the audit are provided in Appendix C.

Table 3-1

Audit Equipment

References	Manufacturer	Model Number	Serial Number	Recertification Date
O_3	TEI	49C	401504-581	08/15/2007
Gas Dilution*	ERT	Gas Cal 82	1229G	08/15/2007
SO_2 (29.35 ppm)	Scott Marrin	--	JJ686	11/16/2008
NO (30.8 ppm)	--	--	JJ686	11/16/2008
Zero Air Source	ARS	Portable	002	N/A
High Vol Cal Orifice	Graseby	G28	C368	01/04/2008
Digital Voltmeter	Fluke	8060A	4735610	01/15/2008
Wind Speed	R.M. Young	18810	21181	1/18/2008
Bearing Torque	R.M. Young	18312	N/A	N/A
Temperature	Alpha Technics	4600	101610	1/08/2008
Relative Humidity	Rotronics	Hygroclip	95915	1/22/2008
Solar Radiation	Eppley	PSP	29387F3	1/09/2008

*The Gas Dilution system contains various components that have their own individual serial numbers. The serial number referenced here is for the system as a whole.

4.0 AUDIT RESULTS

Detailed Basin NextGen Project monitoring system audit results of continuous gaseous analyzers and particulate samplers are provided in Tables 4-1 and 4-2, respectively. The standards comparison is shown on Table 4-3. Detailed audit results of meteorological parameters are provided in Tables 4-4 through 4-6. Audit findings and recommendations are discussed below.

4.1 AUDIT FINDINGS

Performance Audit Results

- None.

System Audit Results

- None.

Table 4-1
Summary of Audit Findings
Continuous Gaseous Parameters
Basin NextGen Project
Gettysburg, South Dakota
July 12, 2007

Parameter	Manufacturer	Instrument Serial No.	Designated Audit Value	DAS Observed	ppm Difference	Accuracy Goal (±) * (± ppm)	Percent Difference (± 15%)	Within Accuracy Goal
Ozone - Parts Per Million								
Analyzer	TEI	0517812012	0.000	-0.010	-0.010	0.007	NA	NA
			0.444	0.438	-0.006	0.031	-1.4	Y
Slope = 1.004442	Correlation = 0.999612		0.205	0.190	-0.015	0.014	-7.3	Y
Intercept = -0.010011	Mean % = -5.34		0.079	0.073	-0.006	0.007	-7.4	Y
			0.000	0.000	0.000	0.007	0.0	Y
Sulfur Dioxide - Parts Per Million								
SO_2	TEI	29727-236	0.000	0.000	0.000	0.015	NA	NA
			0.438	0.468	0.030	0.066	6.8	Y
Slope =1.08703	Correlation =0.997816		0.195	0.178	-0.017	0.029	-8.5	Y
Intercept =-0.015471	Mean % =-3.4		0.088	0.080	-0.008	0.015	-8.5	Y
			0.038	0.037	-0.001	0.015	-3.8	Y
			0.000	0.000	0.000	0.015	0.0	Y
Oxides of Nitrogen - Parts Per Million								
NO	TEI	70181-365	0.000	0.000	0.000	0.015	NA	NA
			0.450	0.489	0.039	0.068	0.5	Y
Slope =1.089296	Correlation =0.999957		0.175	0.187	0.012	0.026	0.2	Y
Intercept = -0.002351	Mean =6.3		0.080	0.083	0.003	0.015	0.1	Y
			0.038	0.041	0.003	0.015	0.0	Y
NO_x	TEI	70181-365	0.000	0.000	0.000	0.015	NA	NA
			0.450	0.489	0.039	0.068	8.6	Y
Slope =1.089672	Correlation =0.999963		0.175	0.188	0.013	0.026	7.4	Y
Intercept = -0.00215	Mean =6.5		0.080	0.083	0.003	0.015	3.6	Y
			0.038	0.040	0.002	0.015	6.3	Y
NO_2	TEI	70181-365	0.000	-0.00123	-0.001	0.015	NA	NA
			0.329	0.35887	0.030	0.049	9.1	Y
Slope =1.092634	Correlation =0.999954		0.136	0.15	0.014	0.020	10.4	Y
Intercept = 0.00041	Mean =11.3		0.086	0.096	0.010	0.015	11.3	Y
Converter Efficiency =	101.7%		0.272	0.285	0.013	0.041	4.9	Y

* Continuous analyzer accuracy goals are +/- 10.0% of observed. Accuracy goals were taken from • 40 CFR 58, Appendix A. Quality Assurance Requirements for SLAMS, SPMs, and PSD Air Monitoring. All units are in parts per million (ppm).

Table 4-2
Summary of Audit Findings
Particulate Parameters
Basin NextGen Project
Gettysburg, South Dakota
July 12, 2007

Parameter	Manufacturer	Instrument Serial No.	Designated Audit Value	Observed		Accuracy Goal (±) * (+ 10%)	Percent Difference	Within Accuracy Goal
Particulates - Flow ft.^{3}/min.								
PM_{10} Sampler # 1	Graseby	985						
		Audit Flows	39.7	40.7		10.0	2.5	Y
		Design Flow	40.0	40.3		10.0	1.0	Y
Particulates - Flow ft.^{3}/min.								
PM_{10} Sampler # 2	Graseby	986						
		Audit Flows	39.9	40.5		10.0	1.5	Y
		Design Flow	40.0	40.3		10.0	0.9	Y

* PM_{10} sampler accuracy goals are ± 10.0% of observed audit flow, and ± 10.0% of design flow. Accuracy goals were taken from 40 CFR, Part 58, Appendix B, Quality Assurance Requirements for SLAMS, SPMs, and PSD Air Monitoring.
All units are in cubic feet per minute (CFM).

Table 4-3
Summary of Audit Findings
Standards Comparisons
Basin NextGen Project
Gettysburg, South Dakota
July 12, 2007

Parameter	Manufacturer	Instrument Serial No.	Designated Audit Value	DAS Audit (ppm)		DAS In-Station (ppm)	Percent Difference (+ 15%)	Within Accuracy Goal
NO	API	482	0.000	0.000		0.000	NA	N/A
			0.450	0.489		0.5	2.2	Y
			0.080	0.083		0.081	-2.4	Y
SO_2	API	482	0.000	0.000		0.000	NA	N/A
			0.438	0.460		0.471	2.4	Y
			0.080	0.08		0.07853	-1.8	Y

Table 4-4
Summary of Audit Findings
Meteorological Parameters
(Wind Speed, Wind Direction)
Basin NextGen Project
Gettysburg, South Dakota
July 12, 2007

Parameter	Manufacturer	Instrument Serial No.	Designated Audit Value	DAS Observed	Accuracy Goal (±) *	Deviation From Standard	Within Accuracy Goal
Wind Speed (100m) - Meters Per Second							
0 RPM	Climatronics	2915	0.2	0.2	0.5	0.0	Y
300 RPM			7.3	7.2	0.9	0.0	Y
900 RPM			21.4	23.0	1.7	1.6	Y
1500 RPM			35.5	37.5	2.4	2.0	Y
Wind Speed (50m) - Meters Per Second							
0 RPM	Climatronics	2920	0.2	0.30	0.5	0.1	Y
300 RPM			7.3	7.25	0.9	0.0	Y
900 RPM			21.4	21.42	1.6	0.0	Y
1500 RPM			35.5	35.60	2.3	0.1	Y
Wind Speed (10m) - Meters Per Second							
0 RPM	Climatronics	2911	0.2	0.30	0.5	0.1	Y
300 RPM			7.3	7.25	0.9	0.0	Y
900 RPM			21.4	21.42	1.6	0.0	Y
1500 RPM			35.5	35.60	2.3	0.1	Y
Vertical Wind Speed (100m) - Meters Per Second							
0	R.M. Young	295	0.00	0	0.2	0.00	Y
300 RPM CW			1.88	1.91	0.3	0.03	Y
300 RPM CCW			-1.88	-1.86	-0.29	0.01	Y
900 RPM CW			5.63	5.65	0.48	0.03	Y
900 RPM CCW			-5.63	-5.66	-0.48	-0.04	Y
Vertical Wind Speed (50m) - Meters Per Second							
0	R.M. Young	296	0.00	0.02	0.2	0.02	Y
300 RPM CW			1.88	1.91	0.3	0.03	Y
300 RPM CCW			-1.88	-1.89	-0.29	-0.01	Y
900 RPM CW			5.63	5.66	0.48	0.04	Y
900 RPM CCW			-5.63	-5.64	-0.48	-0.01	Y
Vertical Wind Speed (10m) - Meters Per Second							
0	R.M. Young	297	0.00	0.12	0.2	0.12	Y
300 RPM CW			1.88	2	0.3	0.13	Y
300 RPM CCW			-1.88	-1.76	-0.29	0.12	Y
900 RPM CW			5.63	5.7	0.49	0.08	Y
900 RPM CCW			-5.63	-5.6	-0.48	0.03	Y
Wind Direction (100m) - Degrees True							
To Mark 1	Climatronics	2925	185	184	5	-1.0	Y
From Mark 1			5	3	5	-2.3	Y
To Mark 2			254	252	5	-2.0	Y
From Mark 2			74	72	5	-2.0	Y
Wind Direction (50m) - Degrees True							
To Mark 1	Climatronics	2936	185	183	5	-2.0	Y
From Mark 1			5	3	5	-2.1	Y
To Mark 2			254	252	5	-2.0	Y
From Mark 2			74	72	5	-2.0	Y
Wind Direction (10m) - Degrees True							
To Mark 1	Climatronics	2931	185	182	5	-3	Y
From Mark 1			5	2	5	-3	Y
To Mark 2			254	254	5	-1	Y
From Mark 2			74	72	5	-2	Y

* All meteorological monitoring system accuracy goals were taken from the EPA's "Meteorological Monitoring Guidance for Regulatory Modeling Applications, February 2000, EPA-454/R-99-005."

Table 4-5
Summary of Audit Findings
Meteorological Parameters
(Delta Temperature, Temperature, Relative Humidity,
Solar Radiation, Precipitation, Barometric Pressure)
Basin NextGen Project
Gettysburg, South Dakota
July 12, 2007

Parameter	Manufacturer	Instrument Serial No.	Designated Audit Value	DAS Observed	Accuracy Goal (±) *	Deviation From Standard	Within Accuracy Goal
Delta Temperature (100m - 55m)							
Ice Bath	Climatronics	4947-4945	0.00	-0.03	0.1	-0.03	Y
Ambient Bath			0.00	-0.06	0.1	-0.06	Y
Hot Bath			0.00	-0.01	0.1	-0.01	Y
Delta Temperature (100m - 2m)							
Ice Bath	Climatronics	4947-4945	0.00	0.00	0.1	0.00	Y
Ambient Bath			0.00	0.00	0.1	0.00	Y
Hot Bath			0.00	0.00	0.1	0.00	Y
Delta Temperature (50m - 2m)							
Ice Bath	Climatronics	4943-4945	0.00	0.03	0.1	0.03	Y
Ambient Bath			0.00	0.01	0.1	0.01	Y
Hot Bath			0.00	0.06	0.1	0.06	Y
Delta Temperature (10m - 2m)							
Ice Bath	Climatronics	4948-4945	0.00	-0.01	0.1	-0.01	Y
Ambient Bath			0.00	0.01	0.1	0.01	Y
Hot Bath			0.00	0.01	0.1	0.01	Y
Temperature (2m)							
Ice Bath	Climatronics	4945	0.0	0.07	0.5	0.07	Y
Ambient Bath			25.9	25.77	0.5	-0.13	Y
Hot Bath			45.4	45.28	0.5	-0.14	Y
Relative Humidity							
Average	Rotronics		7.10	11.9	10	4.80	Y
Solar Radiation							
Average	Eppley		789.3	798.0	1.1	8.67	Y
Precipitation							
Average	Climatronics		0.98	0.91	0.10	-0.06	Y
Barometric Pressure							
Average	Climatronics		710.3	709.4	3.0	-0.90	Y

* All meteorological monitoring system accuracy goals were taken from the EPA's "Meteorological Monitoring Guidance for Regulatory Modeling Applications, February 2000, EPA-454/R-99-005."

Table 4-6
Summary of Audit Findings
Wind Sensor Torque Values
Basin NextGen Project
Gettysburg, South Dakota
July 12, 2007

Sensor	Maximum Torque*	Audit Value	Accuracy Goal	Within Accuracy Goal
100 Meter Level				
Horizontal Wind Speed	0.2 gm-cn	0.2	0.2	Y
Vertical Wind Speed	1.0 gm-cm	0.4	1.0	Y
Wind Direction	7.0 gm-cm	4.0	7.0	Y
50 Meter Level				
Horizontal Wind Speed	0.2 gm-cn	0.2	0.2	Y
Vertical Wind Speed	1.0 gm-cm	0.5	1.0	Y
Wind Direction	7.0 gm-cm	5.0	7.0	Y
10 Meter Level				
Horizontal Wind Speed	0.2 gm-cn	0.2	0.2	Y
Vertical Wind Speed	1.0 gm-cm	0.2	1.0	Y
Wind Direction	7.0 gm-cm	2.0	7.0	Y

* Torque accuracy goals were obtained from the sensor manufacturers specifications

APPENDIX A

AUDIT DATA FORMS

GAS DILUTION AUDIT

$NO/NO_2/GPT$

Date: 07/12/2007 Network: Next Gen Site: Basin NextGen Project Auditor: M. H. Valvur

Instrument: TECO Model: 42 S/N: 70181-365 Last Certification Date: 07/11/2007

Dilution System Mfg: ERT S/N: 1229G Recalibration Date: 8/15/2007

Z Air Mod: ARS S/N: N/A Recalibration Date: N/A

Cylinder S/N: JJ686 Concentration (ppm): 30.80 Recalibration Date: 11/16/2008

Dilution System Linear Regression Results			
MFC	Corre. (r)	Slope (m)	Intcpt (b)
Zair	0.999948	0.000498	-0.002473
Gas 1	0.999868	0.058808	0.098615
Gas 2	0.999913	8.853312	0.164603

NO Audit

Audit	Input Conc.	Flow Meter Settings		Calculated Flows		Observed NO			Observed NOX			Observed NO_2	
Point	ppm	Z Air	Gas	Z Air cc/m	Gas cc/m	DAS	Recorder	% Diff.	DAS	Recorder	% Diff.	DAS	Recorder
Zero	0.000	2.488	0.000	5000.00	0.00	0.000	0.0%	NA	0.000	N/A	NA	-0.001	N/A
1	0.450	2.488	4.261	5000.00	74.14	0.489	98	8.6	0.489	97	8.6	0.001	0
2	0.175	2.488	1.582	5000.00	28.57	0.187	37	7.1	0.188	38	7.4	0.000	0
3	0.080	2.488	0.667	5000.00	13.02	0.083	16	3.2	0.083	16	3.6	0.000	0
4	0.038	3.982	0.519	8000.00	10.50	0.041	8	7.6	0.040	8	6.3	0.000	0

Gas Phase Titration

Audit	Input Conc.	Flow Meter Settings		Calculated Flows		Observed NO		Observed NO_X		Observed NO_2		
Point	ppm	Z Air	Gas	Z Air cc/m	Gas cc/m	DAS	Recorder	DAS	Recorder	DAS	Recorder	% Difference
GPT Zero	0.000	2.488	4.261	5000.00	74.14	0.479	96	0.479	N/A	-0.001	N/A	NA
GPT 1	0.329	2.488	4.261	5000.00	74.14	0.121	24	0.479	96	0.359	N/A	9.1
GPT 2	0.136	2.488	4.261	5000.00	74.14	0.331	66	0.481	96	0.150	N/A	10.4
GPT 3	0.086	2.488	4.261	5000.00	74.14	0.385	78	0.480	96	0.096	N/A	11.3
GPT 4	0.272	2.488	4.261	5000.00	74.14	0.183	N/A	0.468	N/A	0.285	N/A	4.9

Linear Regression*

	NO	NO_x	NO_2 GPT
Slope	1.089296	1.089672	1.092634
Intercept	-0.002351	-0.00215	0.00041
Correlation	0.999957	0.999963	0.999954
Ave. % Diff.	6.3	6.5	11.3

Catalytic Converter Efficiency: 101.7%

Signature: [signature]

Station Reference Check: Cyl. SN: _____ Conc. _____ Recal Due _____

Input Conc.	DAS - NO		DAS - NO_X		DAS - NO_2		NO % difference
ppm	Audit	In-Station	Audit	In-Station	Audit	In-Station	Audit vs. In-Station
0.000	0.000	0.000	0.001	0.000	-0.001	0.000	NA
0.450	0.489	0.500	0.489	0.499	0.001	0.000	2.2
0.080	0.083	0.081	0.083	0.083	0.000	-0.003	-2.4

Remarks: * Regression results are calculated from audit points zero, 1, 2, and 3.

GAS DILUTION AUDIT

SO_2

Date: 7/12/2007 Network: NextGen Site: Basin NextGen Project Auditor: M. H. Valvur

Instrument: TECO Model: 43A S/N: 29727-236 Last Certification Date: 7/11/2007

Dilution System Mfg: ERT S/N: 1229G Recalibration Date: 8/15/2007

Z Air Mod: ARS S/N: N/A Recalibration Date: N/A

Cylinder S/N: JJ686 Concentration (ppm): 29.35 Recalibration Date: 11/16/2008

Dilution System Linear Regression Results

MFC	Corre. (r)	Slope (m)	Intcpt (b)
Zair	0.999948	0.000498	-0.002473
Gas 1	0.999868	0.058808	-0.098615
Gas 2	0.999913	8.853312	0.164603

Audit Point	Input Conc. ppm	Flow Meter Settings Z Air	Flow Meter Settings Gas	Calculated Flows Z Air cc/m	Calculated Flows Gas cc/m	Observed SO2 DAS	Observed SO2 Recorder	% Diff.
Zero	0.000	2.488	0.000	5000.00	0.00	0.000	0.0	NA
1	0.438	2.488	4.356	5000.00	75.75	0.468	94.0	6.8
2	0.195	2.488	1.868	5000.00	33.44	0.178	36.0	-8.5
3	0.088	3.484	1.139	7000.00	21.05	0.080	16.0	-8.5
4	0.038	4.081	0.527	8200.00	10.63	0.037	8.0	-3.8
5								

Linear Regression Results*

Slope (m)	1.087030
Intercept (b)	-0.015471
Correlation (r)	0.997816
Average % difference	-3.4

* Regression results are calculated from audit points zero, 1, 2, and 3.

Station Reference Check

Point	(ppm)	Audit	In-Station	Ref. vs. Analyzer
1	0.000	0.000	0.000	NA
2	0.438	0.460	0.471	2.4
3	0.080	0.080	0.079	-1.8

Concentration (ppm): 30.3

Recalibration Date: 3/8/2009

Remarks:

Signature:

Air Resource Specialists, Inc.

OZONE AUDIT

Date:	7/12/2007	Network:	NextGen	Site:	Basin NextGen Project	Auditor:	M. H. Valvur
Site Analyzer Mfg:	TEI	Model:	49c	S/N:	0517812012	Last Certification Date:	7/11/2007
Site Reference Mfg:	TEI	Model:	49 TS	S/N:	33799-246	Last Certification Date:	7/11/2007
Audit O3 Mfg:	TECO	Model:	49C	S/N:	401504-581	Recalibration Date:	8/15/07
Frequency A:	125009	Frequency B:	71951	A Flow:	0.621	B Flow:	0.652
Zero Air Mfg:	In-Station	Model:	N/A	S/N:	N/A	Maintenance Due Date:	N/A

AUDIT REFERENCE		STATION ANALYZER			STATION REFERENCE		
Audit Point	Input Conc. (ppm)	DAS Reading	Recorder Reading	%Difference Ref.vs.Analyzer	DAS Reading	Recorder Reading	%Difference Ref.vs.SiteRef.
Zero	0.000	-0.010	0.0	NA	0.000	N/A	N/A
1	0.444	0.438	86.0	-1.4	0.455	N/A	2.5
2	0.205	0.190	42.0	-7.3	0.201	N/A	-2.0
3	0.079	0.073	14.0	-7.4	0.079	N/A	0.3
4						N/A	NA

STATION REFERENCE CHECK					
Station Reference			Station Analyzer		
Cal. Point	Display Reading	Recorder Reading	DAS Reading	Recorder Reading	% Difference Ref. vs Analyzer
1					
2					
3					
4					

LINEAR REGRESSION*			
Station Analyzer		Station Reference	
Slope	1.004442	Slope	1.033907
Intercept	-0.010011	Intercept	-0.005826
Correlation	0.999612	Correlation	0.999724
Average % Difference	-5.3	Average % Difference	0.3

REMARKS:

*Regression results are calculated from audit points zero, 1, 2, and 3.

Signature:

VOLUMETRIC FLOW CONTROLLED SAMPLER AUDIT DATA SHEET
PM_{10}

Station Location: Basin NextGen Project Date: 7/12/2007 Time: 10:00

Sampler Model: Tisch S/N: 985

Pa: 709.6 mm Hg. Ta: 23.8 °C 296.95 K

Sampler No. PM_{10} #1

Audit Orifice S/N: C368 Orifice Calibration Date: 1/4/2007

Orifice Calibration Relationship m = 1.1521 b = -0.010240 r = 0.999980

Sampler Calibration Relationship m = 11.9519 b = 0.138800 r = 0.998410

Orifice Pressure Drop (ΔH_2O) 3.95 in. H_2O Qa (audit)[a] 1.12 m^3 / min, 39.72 ACFM

	With Orifice Installed	Without Orifice Installed
Sampler Pressure Drop (ΔH_2O)	23.37 in. H_2O	18.89 in. H_2O
Qa (Sampler)[b]	1.153 m^3 / min, 40.71 ACFM	1.170 m^3 / min, 41.31 ACFM

Audit Flow Rate Percentage Difference[c] 2.5 %

Qa (Corrected Sampler)[d] 1.14 m^3 / min, 40.28 ACFM

Design Flow Rate Percentage Difference[e] 0.95 %

[a] For calculation of audit orifice standard flow rates:

$$Qa\ (audit) = \{[\Delta(H_2O)(Ta / Pa)]^{1/2} - b\}\{1 / m\}$$

[b] For calculation of sampler flow rate:

$$Qa\ (Sampler) = \{[P1/Pa - b][Ta]^{1/2}\}\{1/m\}$$

[c] Audit % Difference = $\frac{[Qa\ (sampler) - Qa\ (orifice)]}{Qa\ (orifice)}$ [100} where Qa is measured with orifice installed.

[d] Qa (corrected sampler) = Qa (sampler) $\frac{[100 - audit\ \%\ Difference]}{100}$ where Qa (sampler) is measured without the orifice installed.

[e] Design Flow Rate % Difference = $\frac{[Qa\ (corrected\ sampler) - 1.13]}{1.13}$ [100]

Auditor: [signature] Observer: _____

VOLUMETRIC FLOW CONTROLLED SAMPLER AUDIT DATA SHEET
PM_{10}

Station Location: Basin NextGen Project Date: 7/12/2007 Time: 10:15

Sampler Model: Tisch S/N: 986

Pa: 709.6 mm Hg. Ta: 23.8 °C 296.95 K

Sampler No. PM_{10} #2

Audit Orifice S/N: C368 Orifice Calibration Date: 1/4/2007

Orifice Calibration Relationship m = 1.1521 b = -0.010240 r = 0.999980

Sampler Calibration Relationship m = 12.6624 b = 0.099400 r = 0.999480

Orifice Pressure Drop (ΔH_2O): 3.98 in. H_2O Qa (audit)[a]: 1.13 m^3 / min, 39.87 ACFM

	With Orifice Installed	Without Orifice Installed
Sampler Pressure Drop (ΔH_2O)	22.15 in. H_2O	18.88 in. H_2O
Qa (Sampler)[b]	1.146 m^3 / min, 40.48 ACFM	1.158 m^3 / min, 40.89 ACFM

Audit Flow Rate Percentage Difference[c]: 1.5 %

Qa (Corrected Sampler)[d]: 1.14 m^3 / min, 40.27 ACFM

Design Flow Rate Percentage Difference[e]: 0.92 %

[a] For calculation of audit orifice standard flow rates:

Qa (audit) = $\{[\Delta(H_2O)(Ta / Pa)]^{1/2} - b\}\{1 / m\}$

[b] For calculation of sampler flow rate:

Qa (Sampler) = $\{[P1/Pa-b][Ta]^{1/2}\}\{1/m\}$

[c] Audit % Difference = $\frac{[Qa\ (sampler) - Qa\ (orifice)]}{Qa\ (orifice)}$ [100} where Qa is measured with orifice installed.

[d] Qa (corrected sampler) = Qa (sampler) $\frac{[100 - audit\ \%\ Difference]}{100}$ where Qa (sampler) is measured without the orifice installed.

[e] Design Flow Rate % Difference = $\frac{[Qa\ (corrected\ sampler) - 1.13]}{1.13}$ [100]

Auditor: [signature] Observer: _____

Basin NextGen Project
Meteorological Audit Results
100 METER LEVEL
July 12, 2007

Parameter/Test	Ideal Response	DAS Response	Delta Units
WIND SPEED - Meters Per Second			
0 RPM	0.2	0.2	0.0
300 RPM	7.3	7.2	0.0
900 RPM	21.4	23.0	1.6
1500 RPM	35.5	37.5	2.0
0 RPM	0.00	0.00	0.00
300 RPM CW	1.88	1.91	0.03
300 RPM CCW	-1.88	-1.86	0.01
900 RPM CW	5.63	5.65	0.03
900 RPM CCW	-5.63	-5.66	-0.04
WIND DIRECTION - Degrees True			
To Mark 1	185.0	184.0	-1.0
From 1	5.0	2.7	-2.3
To Mark 2	254.0	252.0	-2.0
From 2	74.0	72.0	-2.0
DELTA TEMPERATURE - Degrees Celsius (100 - 50)			
Ice Bath	0.00	-0.03	-0.03
Ambient Bath	0.00	-0.06	-0.06
Hot Bath	0.00	-0.01	-0.01
DELTA TEMPERATURE - Degrees Celsius (100 - 2)			
Ice Bath	0.00		0.00
Ambient Bath	0.00		0.00
Hot Bath	0.00		0.00

Wind Sensor Torques

Sensor	Maximum Response	Actual Response	Audit Units
Horizontal Wind Speed	0.2 gm-cm	0.2	0.2
Vertical Wind Speed	1.0 gm-cm	0.4	0.4
Wind Direction	7.0 gm-cm	4.0	4.0

Basin NextGen Project
Meteorological Audit Results
50 METER LEVEL
July 12, 2007

Parameter/Test	Ideal Response	DAS Response	Delta Units
WIND SPEED - Meters Per Second			
0 RPM	0.2	0.3	0.1
300 RPM	7.3	7.2	0.0
900 RPM	21.4	21.4	0.0
1500 RPM	35.5	35.6	0.1
VERTICAL WIND SPEED - Meters Per Second			
0 RPM	0.00	0.02	0.02
300 RPM CW	1.88	1.91	0.03
300 RPM CCW	-1.88	-1.89	-0.01
900 RPM CW	5.63	5.66	0.04
900 RPM CCW	-5.63	-5.64	-0.01
WIND DIRECTION - Degrees True			
To Mark 1	185.0	183.0	-2.0
From 1	5.0	2.9	-2.1
To Mark 2	254.0	252.0	-2.0
From 2	74.0	72.0	-2.0
DELTA TEMPERATURE - Degrees Celsius (50 - 10)			
Ice Bath	0.00	0.03	0.03
Ambient Bath	0.00	0.01	0.01
Hot Bath	0.00	0.06	0.06
Wind Sensor Torques			
Sensor	Maximum Response	Actual Response	Audit Units
Horizontal Wind Speed	0.2 gm-cm	0.2	0.2
Vertical Wind Speed	1.0 gm-cm	0.5	0.5
Wind Direction	7.0 gm-cm	5.0	5.0

Basin NextGen Project
Meteorological Audit Results
10 METER LEVEL
July 12, 2007

Parameter/Test	Ideal Response	DAS Response	Delta Units
WIND SPEED - Meters Per Second			
0 RPM	0.2	0.3	0.1
300 RPM	7.3	7.2	0.0
900 RPM	21.4	21.4	0.0
1500 RPM	35.5	35.6	0.1
VERTICAL WIND SPEED - Meters Per Second			
0 RPM	0.00	0.12	0.12
300 RPM CW	1.88	2.00	0.13
300 RPM CCW	-1.88	-1.76	0.12
900 RPM CW	5.63	5.70	0.08
900 RPM CCW	-5.63	-5.60	0.03
WIND DIRECTION - Degrees True			
To Mark 1	185.0	182.0	-3.0
From 1	5.0	1.6	-3.4
To Mark 2	254.0	253.5	-0.5
From 2	74.0	72.4	-1.7
DELTA TEMPERATURE - Degrees Celsius (10 - 2)			
Ice Bath	0.00	-0.01	-0.01
Ambient Bath	0.00	0.01	0.01
Hot Bath	0.00	0.01	0.01
Wind Sensor Torques			
Sensor	Maximum Response	Actual Response	Audit Units
Horizontal Wind Speed	0.2 gm-cm	0.2	0.2
Vertical Wind Speed	1.0 gm-cm	0.2	0.2
Wind Direction	7.0 gm-cm	2.0	2.0

Basin NextGen Project
Meteorological Audit Results
2 METER LEVEL
July 12, 2007

Parameter/Test	Ideal Response	DAS Response	Delta Units
TEMPERATURE - Degrees Celsius			
Ice Bath	0.0	0.1	0.1
Ambient Bath	25.9	25.8	-0.1
Hot Bath	45.4	45.3	-0.1
RELATIVE HUMIDITY - Percent			
Comparison 1	7.1	11.9	4.8
Comparison 2			
Comparison 3			
Average	7.1	11.9	4.8

Basin NextGen Project
Meteorological Audit Results
OTHER PARAMETERS
July 12, 2007

Parameter/Test	Ideal Response	DAS Response	Delta Units
SOLAR RADIATION - Watts Per Meter^2			
RUN 1	790.0	800.0	10.0
RUN 2	790.0	799.0	9.0
RUN 3	788.0	795.0	7.0
Average	789.3	798.0	8.7
PRECIPITATION - Inches			
Comparison 1	0.54	0.50	-0.04
Comparison 2			
Comparison 3			
Average	0.54	0.91	-0.04
BAROMETRIC PRESSURE - Millibars of Mercury			
Comparison 1	710.3	709.4	-0.9
Comparison 2			
Comparison 3			
Average	710.3	709.4	-0.9

APPENDIX B

RELEVANT FORMULAE

FOR COMPUTING NO_2 INPUT CONCENTRATION

Equations used to compute $[NO_2]_{OUT}$ and the $NO_2 \rightarrow NO$ converter efficiency are:

Equation 1 $[NO_2]_{OUT}$

If $[NO_2]_{IMP} > 0$

$$[NO_2]_{OUT} = [NO]_{ORIG} - [NO]_{REM} + \frac{F_{NO} \times [NO_2]_{IMP}}{F_{NO} + F_O + F_D}$$

Equation 2 $[NO_2]_{OUT}$

If $[NO_2]_{IMP} = 0$

$$[NO_2]_{OUT} = [NO]_{ORIG} - [NO]_{REM}$$

Equation 3 $[NO_2]_{CONV}$

$$[NO_2]_{CONV} = [NO_2]_{OUT} - ([NO_x]_{ORIG} - [NO_x]_{REM})$$

Equation 4 **Converter Efficiency**

Based on the slope (b) of a linear regression analysis of
$[NO_2]_{CONV}$ (y-axis) versus $[NO_2]_{OUT}$ (x-axis)
Converter efficiency % = $NO_2(_{CONV})$ x slope x 100

Where F_{NO} = flow rate of NO standard

F_O = flow rate of air through O_3 generator

F_D = flow rate of dilution air

$[NO]_{ORIG}$ = concentration of NO before O_3 is added during GPT

$[NO]_{REM}$ = concentration of NO after O_3 is added during GPT

$[NO]_{CONV}$ = quantity of NO_2 converted to NO

$$[NO]_{OUT} = \frac{F_{NO} \times [NO]_{std}}{F_{NO} + F_O + F_D}$$

APPENDIX C

AUDIT STANDARDS CERTIFICATIONS

Air Resource Specialists, Inc.

LAB O_3 CALIBRATION FORM

Date 05/21/07 **Client** ARS **Tech.** M H Valvur

DVM Manufacturer Fluke **Model** 8060A

Last Certification Date 01/15/2007 **Serial Number** 4735610

Z Air Make Werther **Model** Lab PC70/4

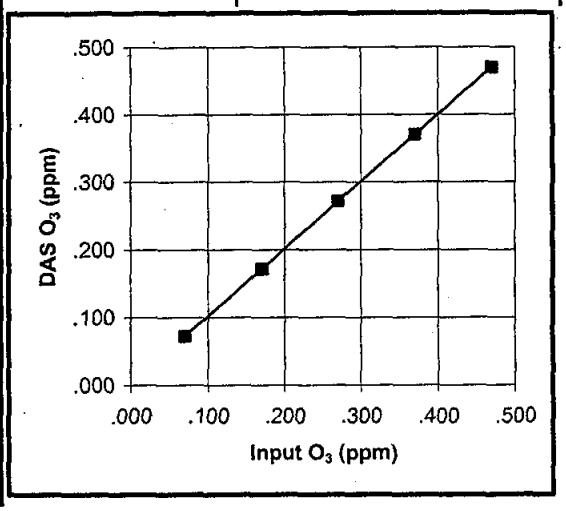
Serial Number 526280 **Last Maintenance Date** 06/22/05

PRIMARY	
Last Cal. Date	11/16/2006
Manufacturer	TECO
Model	49C PS
Serial Number	75759-380
BKG / CO EFF	0 / 1.0
A Frequency	98785
B Frequency	93175
Flow	.603 / .547
Cell Temperature	34.5
Inst. Offset (ppm)	0

Instrument to be Calibrated	
Last Cal. Date	11/27/2006
Manufacturer	TECO
Model	49C
Serial Number	401504-581
BKG / CO EFF	0.0 / 1.015
A Frequency	134586
B Frequency	79779
Flow	.603 / .597
Cell Temperature	35.7
Inst. Offset (ppm)	.000

Input Conc. (ppm)	Display Reading (ppm)	Output Voltage VDC	DAS O3 (ppm)	Error in ppm	Error Delta Percent
.000	.000	.000	**.000**	.000	NA
.470	.472	.470	**.470**	.000	**00.0 %**
.370	.370	.370	**.371**	.001	**00.3%**
.270	.270	.270	**.272**	.002	**00.7%**
.170	.170	.170	**.172**	.002	**01.2%**
.070	.070	.070	**.072**	.002	**02.9%**
.000	.000	.000	**.000**	.000	NA

SLOPE	**0.998849**
INTERCEPT	**0.001426**
CORRELATION	**0.999986**
AVERAGE DELTA%	**01.0 %**



Remarks

Signature

MFC/MFM Calibration Form

Date: 5/15/2007 Station: ARS Tech: M H Valvur

Mass Flow Device #1

Mfg: Brooks S/N: 90H1248/3 Range: 0 - 10 lpm

Primary Std. Mfg: BIOS Model: DC - 1HC S/N: H - 1809

Primary Standard Type (Bubble=1, Dry=0) 0 Last Calibration Date: 1/29/2007

Calibration Gas: Air Range: 50 ccm - 50 - lpm

Ambient Pressure (mmHg.)	Gas Temp. ° C	Gas Vapor Pressure (mmHg)	Corr. Factor	Flow ACCPM	Display Volts (Y)	Flow SCCPM (X)
639.9	21.3	.000	0.852560	9769.0	4.000	8328.7
639.9	21.3	.000	0.852560	8550.0	3.500	7289.4
639.9	21.2	.000	0.852850	7343.0	3.000	6262.5
639.9	21.2	.000	0.852850	6159.0	2.500	5252.7
639.9	21.1	.000	0.853140	4985.0	2.000	4252.9
639.9	20.3	.000	0.855470	3784.0	1.500	3237.1

Slope (m) = 0.000492 Intcp (b)= -0.088348 Corr (r)= 0.999978

Flow = (Display Voltage - b) / m Display Voltage = (Flow * m) + b

Mass Flow Device #2

Mfg: Brooks S/N: 90H12749/1 Range: 0 - 100 ccm

Primary Std. Mfg: MINI-Buck Model: M-5 S/N: M-3277B

Primary Standard Type (Bubble=1, Dry=0) 1 Last Calibration Date: 1/12/2007

Calibration Gas: Air Range: 1 - 6000 ccm

Ambient Pressure (mmHg.)	Gas Temp. ° C	Gas Vapor Pressure (mmHg)	Corr. Factor	Flow ACCPM	Display Volts (Y)	Flow SCCPM (X)
639.9	21.2	18.880	0.827690	107.40	4.500	88.9
639.9	21.9	19.707	0.824620	84.30	3.500	69.5
639.9	21.9	19.707	0.824620	60.20	2.500	49.6
639.9	20.9	18.536	0.828990	36.30	1.500	30.1
639.9	20.4	17.974	0.831150	24.10	1.000	20.0
639.9	21.4	19.113	0.826810	19.30	.800	16.0

Slope (m) = 0.050728 Intcp (b)= -0.017717 Corr (r)= 0.999987

Flow = (Display Voltage - b) / m Display Voltage = (Flow * m) + b

REMARKS:

Signature

SCOTT-MARRIN, INC.
6531 BOX SPRINGS BLVD. • RIVERSIDE, CA 92507
TELEPHONE (951) 653-6780 • FAX (951) 653-2430

REPORT OF ANALYSIS
EPA PROTOCOL GAS MIXTURES

AIRR01
TO: Air Resource Specialists Inc
Attn: Tara Porter
1901 Sharp Point Dr, Suite E
Fort Collins, CO 80525-4402
(970) 484-7941

DATE: December 1 2006

CUSTOMER ORDER NUMBER: A19425

COMPONENT	CONCENTRATION(v/v) ± EPA UNCERTAINTY	REFERENCE STANDARD	ANALYZER MAKE, MODEL, S/N, DETECTION	EXPIRATION DATE	REPLICATE ANALYSIS DATA
CYLINDER NO:	JJ686				
			CARLE INST MODEL 8000		11/16/06
Carbon monoxide	3030 ± 30 ppm	GMIS	S/N 8249	11/16/08	3030 ppm
		CYLINDER #:	METHANATION/FID		3040 ppm
		1L3312	GAS CHROMATOGRAPHY		3030 ppm
		@ 2528 ppm	LAST CAL DATE: 11/10/06	MEAN:	3030 ppm
			MONITOR LABS MODEL 8440		11/27/06
Nitric oxide	30.8 ± 0.2 ppm	GMIS	S/N 136	11/27/08	30.7 ppm
NOx	30.8 ppm	CYLINDER #:	CONTINUOUS		30.8 ppm
		CC28420	CHEMILUMINESCENCE		30.8 ppm
		@ 50.6 ppm	LAST CAL DATE: 11/22/06	MEAN:	30.8 ppm
			BOVAR MODEL 922M		11/29/06
Sulfur dioxide	29.35 ± 0.3 ppm	GMIS	S/N VD92284844	11/29/08	29.19 ppm
		CYLINDER #:	CONTINUOUS		29.28 ppm
O2-free Nitrogen	Balance	CC50772	UV PHOTOMETRY		29.27 ppm
CYLINDER PRESSURE:	1850 psig	@ 26.34 ppm	LAST CAL DATE: 11/07/06	MEAN:	29.25 ppm

ppm = µmole/mole % = mole-%

The above analyses were performed in accordance with Procedure G1 of the EPA Traceability Protocol, Report Number EPA-600/R97/121, dated September 1997.
This cylinder should not be used if the pressure is less than 150 psig.

ANALYST: M.J.MONSON APPROVED: J.T.MARRIN

The only liability of this company for gas which fails to comply with this analysis shall be replacement or reanalysis thereof by the company without extra cost.
STANDARD CALIBRATION GASES IN ALUMINUM CYLINDERS

TISCH ENVIROMENTAL, INC.
145 SOUTH MIAMI AVE.
VILLAGE OF CLEVES, OH 45002
513.467.9000
877.263.7610 TOLL FREE
513.467.9009 FAX
WWW.TISCH-ENV.COM

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Jan 04, 2007 Rootsmeter S/N 9833620 Ta (K) - 293
Operator Tisch Orifice I.D. - C368 Pa (mm) - 751.84

PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1	NA	NA	1.00	1.2860	3.1	2.00
2	NA	NA	1.00	0.9060	6.3	4.00
3	NA	NA	1.00	0.8110	7.8	5.00
4	NA	NA	1.00	0.7730	8.5	5.50
5	NA	NA	1.00	0.6380	12.5	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
1.0020	0.7791	1.4186		0.9959	0.7744	0.8828
0.9977	1.1012	2.0061		0.9916	1.0945	1.2485
0.9957	1.2278	2.2429		0.9896	1.2203	1.3959
0.9947	1.2868	2.3524		0.9886	1.2790	1.4640
0.9893	1.5507	2.8371		0.9833	1.5413	1.7657

Qstd slope (m) = 1.83980
intercept (b) = -0.01645
coefficient (r) = 0.99998

Qa slope (m) = 1.15205
intercept (b) = -0.01024
coefficient (r) = 0.99998

y axis = SQRT[H2O(Pa/760)(298/Ta)] y axis = SQRT[H2O(Ta/Pa)]

CALCULATIONS

Vstd = Diff. Vol[(Pa-Diff. Hg)/760](298/Ta)
Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa]
Qa = Va/Time

For subsequent flow rate calculations:

Qstd = 1/m{[SQRT(H2O(Pa/760)(298/Ta))]- b}
Qa = 1/m{[SQRT H2O(Ta/Pa)]- b}

SYPRIS®
TEST & MEASUREMENT

CALIBRATION CERTIFICATE

Certificate Number: 5100095080
CUSTOMER # 510773-0000

AIR RESOURCE SPECIALISTS

1901 SHARP POINT DRIVE
STE E
FT. COLLINS, CO 80525
ATTN: Denise Yates

Manufacturer: FLUKE
Model: 8060A
Description: DIGITAL MULTIMETER
Size / Range:
Serial Number: 4735610
Asset Number:
Department:
Accessories: NO ACCESSORIES RECEIVED

Calibration Date: 01/15/2007
Recommended Due: 01/15/2008
As Received: IN TOLERANCE
As Returned: IN TOLERANCE
Procedure: MANUFACTURER'S MNL
Environment: 23 DEG C 32 % RH
P.O. / Release: A19596
Sypris ID #: 4735610
Barcode ID: 51-2013772
Location:

This instrument has been processed and calibrated in accordance with the Sypris Test & Measurement Quality Assurance Manual and is traceable to the National Institute of Standards and Technology (NIST). The Sypris Test & Measurement quality system is registered to ISO 9001:2000 and compliant with ISO 10012-1, ISO/IEC 17025-1999, ANSI/NCSL Z540-1-1994, 10 CFR 50 App. B, 10 CFR 21, NQA-1, and MIL-STD-45662A. This report may not be reproduced, except in full, without written approval of Sypris Test & Measurement. Unless stated otherwise; the expanded measurement uncertainty of the measurement process does not exceed 25% of the tolerance allowed for the individual characteristics measured, uncertainties of measurements for this calibration are based upon 95% (2 sigma) confidence limits, no sampling plan or other process was used for this calibration, the results reported herein apply only to the calibration of the item described above and no limitations of use apply to the calibrated item. Although the item calibrated meets the specifications and performance at the time of calibration, due to any number of factors, the recommended due date of the item calibrated does not imply continuing conformance to specifications during the recommended interval.

Calibration Accuracy MANUFACTURER'S SPECIFICATIONS

Conditions/Analysis

DUE CALIBRATION
CALIBRATED TO MANUFACTURER'S SPECIFICATIONS
PERFORMED PREVENTATIVE MAINTENANCE INSPECTION

STANDARDS USED

ID Number	Model Number	Cal Date	Due Date	Traceability Number
1004559	5700A	04/17/2006	04/17/2007	5100090305
1004560	5725A	04/17/2006	04/17/2007	5100090308

120406
CERTIFIED BY

Access your Calibration Records Online at http://Calweb.Sypris.com

8020 SOUTHPARK CIRCLE SUITE 300, LITTLETON, CO 80120 303-798-2243

1367
INSPECTED BY

QA 47-33 (05/05)

Page 1 of 1

R.M. Young Company
2801 Aero Park Drive
Traverse City, Michigan 49686 USA

Certificate of Calibration and Testing

Test Unit:			
Model:	18810	Serial Number:	21181
Description:	Anemometer Drive - 10 to 1,000 RPM - Comprised of Models 18820 Control Unit & 18831 Motor Assembly		

R.M. Young Company certifies that the above equipment has been inspected and calibrated using standards whose accuracies are traceable to the National Institute of Standards and Technologies (NIST).

Nominal Motor Rpm	Output Frequency (1) Hz	Calculated Rpm (2)	Indicated Rpm (3)
60	320	60	600
120	640	120	1200
240	1280	240	2400
420	2240	420	4200
600	3200	600	6000
810	4320	810	8100
990	5280	990	9900
☑ Clockwise and Counterclockwise rotation verified			

(1) Measured at the optical encoder output
(2) Frequency output produces 320 pulses per revolution of the motor shaft
(3) Indicated on the Control Unit LCD display - Note: Divide displayed rpm by 10 to calculate actual motor rpm

*Indicates out of tolerance

☑ No Calibration Adjustments Required ☐ As Found ☐ As Left

Traceable frequency meter used in calibration DP4863

Date of inspection 18 January 2007

Tested By EP

Tel: 231-946-3980 Fax: 231-946-4772 Email: met.sales@youngusa.com Website: www.youngusa.com

ALPHA TECHNICS

17151 Gillette Avenue
Irvine, CA 92614-5602 USA
Tel: 949.250.6578
Fax: 949.271.2300
www.alphatechnics.com

REPORT OF CALIBRATION
EUTECHNICS DIGITAL THERMOMETER
P/N 139200-3NG

S/N: 101610

The Digital Thermometer was calibrated at temperatures listed below by comparison to temperature standards traceable to the National Institute of Standards and Technology. The accuracy of these settings at time of calibration is estimated to be ±0.020°C (121.00°C is±0.040°C).

Bath Temperature (°C)	Reading Before Adjustment (°C)	Reading After Adjustment (°C)
0.000	0.00	0.00
37.000	37.00	37.00
75.000	75.01	75.00
121.000	121.00	121.00

Equipment used in this calibration at Eutechnics

Manufacturer	Model	Test No.	Test Date	Recall Date
Eutechnics	Temperature Standards	TE 188 TE 192 TE 195	12/21/06 12/21/06 12/21/06	01/21/07 01/21/07 01/21/07
Hart Scientific Hart Scientific Hart Scientific Hart Scientific	Circulating Temperature Bath Controller	TE 165 TE 178 TE 200 TE 213	N/A N/A N/A N/A	N/A N/A N/A N/A

Replaced Parts

Qty	Circuit Designator	Description
1	B1	Battery 9V

Test data and supporting documents on file and available for inspection at 17151 Gillette Ave., Irvine, CA.

Tested by MCC

Date01/08/07

Approved CDF

Date01/08/07

AT/RH Sensor Calibration Form

Serial Number:	95915	Owner:	ARS
Model Number:	Rotronic Hygroclip	Date of Last Operation:	1/24/2006 to 1/4/2007
Calibration Date:	1/22/2007	Last Operational Site:	DC REF
Service Technician:	Marty Mills		
Service Type:	Scheduled		
Comments:			

Pre - Calibration Relative Humidity:

Check Point	Nominal Time	NIST Traceable	Sensor	Deviation
10%	10 min.	10.0%	9.6%	-0.4%
35%	10 min.	35.1%	34.5%	-0.6%
50%	10 min.	50.1%	49.3%	-0.8%
60%	10 min.	60.1%	59.1%	-0.9%
70%	10 min.	70.1%	69.1%	-1.0%
80%	10 min.	80.2%	79.1%	-1.1%
90%	10 min.	90.1%	89.1%	-1.0%
95%	10 min.	95.1%	94.2%	-1.0%

RMS Error	Minimum Error	Maximum Error	Within Mfg Specifications
0.9%	0.4%	1.1%	True

Pre - Calibration Temperature:

Check Point	Nominal Time	NIST Traceable	Sensor	Deviation
15 degrees	10 min.	15.3	14.5	-0.8
25 degrees	10 min.	25.1	25.6	0.5
35 degrees	10 min.	34.7	36.4	1.6

RMS Error	Minimum Error	Maximum Error	Within Mfg Specifications
1.1	0.53	1.65	False

THE EPPLEY LABORATORY, INC.
12 Sheffield Ave., P.O. Box 419, Newport, RI 02840 USA
Telephone: 401-847-1020 Fax: 401-847-1031
Email: eplab@mail.bbsnet.com Internet: www.eppleylab.com

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STANDARDIZATION OF EPPLEY PRECISION SPECTRAL PYRANOMETER Model PSP

Serial Number: 29282F3

Resistance: 717 Ω at 23 °C
Temperature Compensation Range: −20 to 40 °C

This radiometer has been compared with Standard Precision Spectral Pyranometer, Serial Number 21231F3 in Eppley's Integrating Hemisphere under radiation intensities of approximately 700 watts meter^{-2} (roughly one-half a solar constant). The adopted calibration temperature is 25 °C.

As a result of a series of comparisons, it has been found to have a sensitivity of:

$$7.56 \times 10^{-6} \text{ volts/watts meter}^{-2}$$

The calculation of this constant is based on the fact that the relationship between radiation intensity and emf is rectilinear to intensities of 1400 watts meter^{-2}. This radiometer is linear to within ± 0.5% up to this intensity.

The calibration of this instrument is traceable to standard self-calibrating cavity pyrheliometers in terms of the Systems Internationale des Unites (SI units), which participated in the Ninth International Pyrheliometric Comparisons (IPC IX) at Davos, Switzerland in September-October 2000.

Useful conversion facts: 1 cal cm^{-2} min^{-1} = 697.3 watts meter^{-2}
1 BTU/ft^2-hr^{-1} = 3.153 watts meter^{-2}

Shipped to:
Air Resource Specialist
Fort Collins, CO

Date of Test: January 3, 2007

In Charge of Test: R.T. Egema

S.O. Number: 60992
Date: January 9, 2007

Reviewed by: Thomas D. Kuhl

Remarks:

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ENSR, an AECOM company, is a leading worldwide environmental services firm. Founded in 1968, ENSR serves industrial companies and government agencies with consulting, engineering, remediation, and environmental health and safety solutions. ENSR is a recipient of the BP HSSE Diamond Award, Textron Environmental Remediation Partner in Excellence Award, and Environmental Business Journal awards. As an AECOM company, ENSR is part of a global design and management company with 24,000 employees worldwide serving the transportation, facilities, and environmental markets.

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