

Donald C. Cook Nuclear Plant • Units 1 & 2

# Semi-Annual Radioactive Effluent Release Report

July 1 - December 31, 1979

Indiana & Michigan Electric Company  
Bridgman, Michigan

Docket Nos. 50-315 & 50-316  
License Nos. DPR-58 & DPR-74



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TABLE OF CONTENTS

	<u>PAGE NO.</u>
I. INTRODUCTION	1
II. RADIOACTIVE RELEASES	2
III. RADIOLOGICAL IMPACT ON MAN	3
Liquid Releases	
Gaseous Releases	
IV. METEOROLOGICAL DATA	5
V. CONCLUSIONS	6
VI. ERRATA	7

TABLE OF APPENDICES

A-1 RADIOACTIVE RELEASE DATA	
B-1 METEOROLOGICAL DATA FOR THIRD QUARTER OF 1979	
B-2 METEOROLOGICAL DATA FOR FOURTH QUARTER OF 1979	
B-3 METEOROLOGICAL DATA FOR BATCH RELEASES	

## I. INTRODUCTION

This report discusses the radioactive discharges from both Units of the Donald C. Cook Nuclear Plant during the last six months of 1979. The format presented in Section 5.4.1 of the Plant's Appendix B Technical Specifications" has been followed in preparing this document.

During this reporting period, Unit 1 returned to service from its third refueling outage. During the prolonged refueling outage, the connecting elbows from the Feedwater Systems to all four steam generators were replaced.

Unit 2 was removed from service on October 19, 1979 for its first refueling period and to perform extensive maintenance and design changes to meet recent NRC requirements. The unit remained out of service at the end of this reporting period.

Further details on plant operations may be obtained from the monthly operation reports published during this reporting period.

## II. RADIOACTIVE RELEASES

This report consolidates the semiannual radioactive effluent release data for both units, instead of publishing them separately for each Unit, in the format required by Section 5.4.1 of the facility's Appendix B Environmental Technical Specifications. As in reports preceding this one, the effluents were well within the limits set forth in the Appendix B, Environmental Technical Specifications for the D. C. Cook Nuclear Plant, Appendix I to 10 CFR Part 50, and in 40 CFR 190.

### III. RADIOLOGICAL IMPACT ON MAN

Potential doses to individuals and population were calculated using the measured effluents and meteorological data given in Appendix A and Appendix B of this report, respectively.

#### Liquid Releases

The liquid releases consisted of 34 Batch releases in the third quarter of 1979 and 39 releases in the fourth quarter of 1979. These were treated as continuous releases for the purpose of dose calculation. A conservative dilution factor of 10, which is consistent with the assumptions of Regulatory Guide 1.113 was used for all liquid pathways instead of the site specific dilution factors. The estimated doses in millirems to individuals from pathways are given in Table 1.

#### Gaseous Releases

There were 16 Batch releases during this reporting period. Doses were estimated separately for the larger releases using the measured meteorological data at the times of release.

Quarterly averages of meteorological data were used in estimating the doses from the continuous releases during each of the two quarters. The dose received by adult individuals through the various gaseous pathways are also listed in Table 1.

TABLE - 1

SUMMARY OF ADULT DOSES (IN mREM) FROM ALL EFFLUENT  
PATHWAYS IN ACCORDANCE WITH 40 CFR 190

<u>PATHWAY</u>	<u>Whole Body</u>	<u>Skin</u>	<u>Thyroid</u>	<u>GI Tract</u>	<u>Bone</u>
(A) <u>Liquid</u>					
Drinking Water	1.83E-4	0.0	8.55E-5	7.41E-4	8.24E-5
Fish Consumption	4.51E-3	0.0	2.17E-5	1.56E-2	2.97E-3
Shoreline Activities	6.16E-4	7.24E-4	0.0	0.0	0.0
Swimming	1.04E-5	1.25E-5	0.0	0.0	0.0
Boating	5.21E-6	6.24E-6	0.0	0.0	0.0
TOTAL FOR LIQUIDS	5.32E-3	7.43E-4	1.07E-4	1.63E-2	3.05E-3
POPULATION DOSE (Man-rem)	4.61				
(B) <u>Gaseous</u>					
Air Submersion*	6.5E-3	4.5E-2	---	---	---
Inhalation*	3.5E-4	---	---	---	---
Adult Leafy Vegetable Consumption**	---	---	4.4E-3	---	---
TOTAL FOR GASEOUS	6.85E-3	4.5E-2	4.4E-3	---	---
POPULATION DOSE (Man-rem)	7.32E-2				
(C) <u>Infant Thyroid Doses</u>					
Infant-Cow***	8.0E-4				
Infant Inhalation**	2.0E-4				
(D) TOTAL FROM THIS REPORT	1.22E-2	4.57E-2	4.51E-3	1.63E-2	3.05E-3
TOTAL FROM PREVIOUS SEMI-ANNUAL ++	6.62E-2	6.61E-1	1.39E-1	1.92E-3	1.96E-2
(E) TOTAL FOR 1979	7.84E-2	7.07E-1	1.44E-1	1.82E-2	2.27E-2

\* Worst Sector Site-Boundary

\*\* Nearest Residence (.5 Miles South)

\*\*\* Nearest Cow Residence (1.8 Miles ENE)

++ As Amended

(4)

#### IV. METEOROLOGICAL DATA

Appendix B contains the cumulative joint-frequency distribution of wind speed and wind direction corresponding to various atmospheric stability classes for both quarters. The meteorological conditions during each of the batch gaseous effluent releases are also furnished in the same Appendix.

V. CONCLUSIONS

During this reporting period, Unit 1 of the Donald C. Cook Nuclear Plant generated 3,561, 570 (MWH) Gross of Electrical Energy. The Monthly Operating Reports indicate that during the calendar year 1979, this Unit was operating at a Unit Service Factor of 64.7%, at an average Unit Capacity of 61.9%.

Unit 2 generated 2, 731,950 (MWH) Gross of Electrical Energy. This Unit was operating at a 65.9% Unit Service Factor, at an average Unit Capacity Factor of 62.8%.

As stated in Section II of this report, the radioactive releases from Units 1 and 2 remained with 10.0% of their respective limits in Appendix I of 10 CFR Part 50. The doses resulting from these releases were less than 1% of their respective limits in Appendix I to 10 CFR Part 50.

Based on the information presented in this report, it is concluded that the Units performed their intended design functions without causing any hazard to the health and safety of the general public.



## VI. ERRATA

Due to a data entry problem, the discharge flow rates used for liquid dose calculations during 1978 and the first half of 1979 were over estimated by a factor of 10, consequently the reported liquid doses were ten times higher than the actual values presented below:

<u>Pathway</u>	<u>Organ</u>	<u>Jan-June 1978 Dose in Millirem</u>	<u>July-Dec 1978 Dose</u>	<u>Jan-June 1979 Dose</u>
Drinking Water	Total Body	1.11E-3	7.30E-4	7.06E-4
	GI Tract	3.10E-4	1.91E-4	5.02E-4
	Thyroid	7.51E-4	1.24E-4	5.89E-4
	Bone	8.20E-4	5.49E-4	5.10E-4
Fish Consumption	Total Body	4.03E-2	2.68E-2	2.49E-2
	GI Tract	1.58E-3	9.85E-4	1.42E-3
	Thyroid	1.93E-4	3.20E-5	1.40E-4
	Bone	3.07E-2	2.05E-2	1.91E-2
Shoreline Activities	Total Body	4.84E-4	3.16E-4	5.10E-4
	Skin	5.67E-4	3.70E-4	5.98E-4
Swimming	Total Body	7.64E-6	4.68E-6	1.12E-5
	Skin	9.37E-6	5.68E-6	1.39E-5
Boating	Total Body	3.82E-6	2.34E-6	5.60E-6
	Skin	4.69E-6	2.84E-6	6.93E-6

APPENDIX A  
RADIOACTIVE RELEASE DATA

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT - 1979  
SUPPLEMENTAL INFORMATION

Facility D. C. Cook Plant Licensee I & M Power Company

1. Regulatory Limits

a. Fission and Activation Gases:

The annual total quantity of noble gases above background discharged from the plant should result in an air dose due to gamma radiation of less than 10 mrad, and an air dose due to beta radiation of less than 20 mrad, at any location near ground level which could be occupied by individuals at or beyond the boundary of the site.

b. Iodines:

The annual total quantity of all radiiodines and radioactive material in particulate forms above background from all reactors at a site should not result in an annual dose to any organ of an individual in an unrestricted area from all pathways of exposure in excess of 15 mrem.

The annual total quantity of iodine -131 discharged from each reactor at a site should not exceed 1 Ci.

c. Particulates, half-lives >8 days :

See 1b above

d. Liquid Effluents:

The annual dose above background to the total body or any organ of an individual from all reactors at a site should not exceed 5 mrem in an uncestricted area.

The annual total quantity of radioactive materials in liquid waste, excluding tritium and dissolved gases, discharged from each reactor should not exceed 5 Ci.

2. Maximum Permissible Concentrations

a. Fission and Activation Gases:

(1) The release rate limit of noble gases from the site shall be

$$i^2 Q_{IV} (37 \bar{E}_{iY} + 112 \bar{E}_{iB}) \leq 1$$

where  $Q_V$  = release rate (sum of the unit vents and the turbine condenser steam air ejector exhaust for Unit 1 and Unit 2)

$Q_V$  = release rate from vents in Ci/sec (ground release)

$i$  = the  $i$ th individual nuclide

$\bar{E}_{i\gamma}$  = the average gamma energy per disintegration for nuclide  $i$

$\bar{E}_{i\beta}$  = the average beta energy per disintegration for nuclide  $i$ .

- (2) The average release rate of noble gases from the site during any calendar quarter shall be:

$$\sum_i \bar{E}_{i\beta} (350 Q_{iV}) \leq 1$$

and,

$$\sum_i \bar{E}_{i\gamma} (120 Q_{iV}) \leq 1$$

- (3) The average release rate of noble gases from the site during any 12 consecutive months shall be:

$$\sum_i \bar{E}_{i\beta} (700 Q_{iV}) \leq 1$$

and,

$$\sum_i \bar{E}_{i\gamma} (230 Q_{iV}) \leq 1$$

b. Iodines:

- (1) The release rate limit of all radioiodines and radioactive materials in particulate form with half-lives greater than eight days, released to the environs as part of the gaseous waste from the site shall be:

$$1.5 \times 10^5 Q_V \leq 1$$

where  $Q_V$  is defined above

- (2) The average release rate of all iodines and radioactive materials in particulate form per site with half-lives greater than eight days during any calendar quarter shall be:

$$1.8 \times 10^6 Q_v \leq 1$$

- (3) The average release rate of all iodines and radioactive materials per site in particulate form with half-lives greater than eight days during any period of 12 consecutive months shall be:

$$3.6 \times 10^6 Q_v \leq 1$$

- c. Particulates; half-lives >8 days:

see 2b above.

- d. Liquid Effluents:

The concentration of radioactive materials released in liquid waste effluents from all reactors at the site shall not exceed the values in 10 CFR Part 20, Appendix B, Table 11, Column 2 for unrestricted areas.

Average Energy -  $\beta$  0.249

$\gamma$  0.004

#### 4. Measurements and Approximations of Total Radioactivity

- a. Fission and Activation Gases:

Sampled and analyzed on a 4096 channel analyzer and Ge (Li) detector.

- b. Iodines:

Sampled on an activated carbon filter and analyzed on a 4096 channel analyzer and Ge(Li) detector.

- c. Particulates:

Sampled on a glass filter and analyzed on a 4096 channel analyzer and Ge(Li) detector.

- d. Liquid Effluents:

Sampled and analyzed on a 4096 channel analyzer and Ge(Li) detector.

5. Batch Releases

a. Liquid:

(1) Number of batch releases:

34 releases in the 3rd quarter, 1979  
39 releases in the 4th quarter, 1979

(2) Total time period for batch releases:

10,220 minutes

(3) Maximum time for a batch release:

165 minutes

(4) Average time period for batch releases:

140 minutes

(5) Minimum time period for a batch release:

94 minutes

(6) Average stream flow during periods of release of effluent  
into a flowing stream:

655,342 gpm Circulating water

b. Gaseous:

(1) Number of batch releases:

7 in 3rd quarter  
9 in 4th quarter

(2) Total time period of batch releases:

9.340 E 2 minutes

(3) Maximum time period for a batch release:

79 minutes

(4) Average time period for batch releases:

58 minutes

(5) Minimum time period for a batch release  
47 minutes

6. Abnormal Releases:

a. Liquid:

(1) Number of releases:

0

(2) Total activity releases:

0 Ci

b. Gaseous:

(1) Number of releases

0 Ci

(2) Total activity released

0 Ci

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT - 1979

GASEOUS EFFLUENTS - ELEVATED RELEASE

Nuclides Released	Unit	CONTINUOUS MODE		BATCH MODE	
		3rd Quarter	4th Quarter	3rd Quarter	4th Quarter
<b>FISSION GASES</b>					
Krypton - 85	Ci	5.968 E 3		6.963 E-2	5.009 E 0
Krypton - 85m	Ci				1.036 E-2
Krypton - 87	Ci				
Krypton - 88	Ci				
Xenon - 133	Ci			6.052 E-3	3.849 E 1
Xenon - 135	Ci			7.824 E-6	2.591 E 1
Xenon - 135m	Ci				
Xenon - 138	Ci				
Xenon - 133m	Ci				4.913 E-1
Argon-41	Ci				2.197 E-1
<b>Total for period</b>	<b>Ci</b>	<b>5.968 E 3</b>		<b>7.569 E-2</b>	<b>7.013 E 1</b>
<b>IODINES</b>					
Iodine - 131	Ci	4.541 E-5	1.118 E-4		8.426 E-5
Iodine - 133	Ci	3.230 E-5	6.189 E-5		2.172 E-4
Iodine - 135	Ci				
Iodine - 125	Ci				
Iodine - 129	Ci		7.226 E-6		9.291 E-3
Iodine - 130	Ci				3.392 E-8
<b>Total For period</b>	<b>Ci</b>	<b>7.771 E-5</b>	<b>1.809 E-4</b>		<b>9.592 E-3</b>
<b>PARTICULATES</b>					
Strontium - 89	Ci	3.782 E-5	1.049 E-6		
Strontium - 90	Ci	2.237 E-5			
Cesium - 134	Ci				1.560 E-4
Cesium - 137	Ci	9.785 E-6			4.190 E-4
Barium-lanthanum - 140	Ci				
Zirconium-Niobium -95	Ci	9.484 E-6			1.081 E-3
Cobalt - 60	Ci	5.962 E-5	1.280 E-4	7.813 E-4	1.449 E-3
Cobalt - 58	Ci	1.183 E-5	4.736 E-5	2.722 E-4	4.686 E-3
Chromium 51	Ci			8.396 E-8	1.965 E-3
Manganese 54	Ci			3.698 E-4	5.852 E-4
Zinc 65	Ci			1.164 E-4	
Cerium 144	Ci				4.016 E-4
Tin 113	Ci				1.567 E-5
<b>Total For Period</b>	<b>Ci</b>	<b>1.509 E-4</b>	<b>1.764 E-4</b>	<b>1.540 E-3</b>	<b>1.076 E-2</b>



EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT - 1979

GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES

	Units	3rd Quarter	4th Quarter	Est. Total Error, %
<b>A. FISSION AND ACTIVATION GASES</b>				
1. Total release	Ci	5.968 E 3	7.013 E 1	6.8*
2. Average release rate for period	$\mu\text{Ci}/\text{Sec}$	7.508 E 2	8.822 E 0	
3. Percent of technical specification limit	%	6.570 E 0	6.499 E-2	
<b>B. IODINES</b>				
1. Total iodine - 131 and 133	Ci	7.771 E-5	4.752 E-4	17.6
2. Average release rate for period	$\mu\text{Ci}/\text{Sec}$	9.776 E-6	5.978 E-5	
3. Percent of technical specification limit	%	1.760 E-3	1.076 E-2	
<b>C. PARTICULATES</b>				
1. Particulates with half-lives > 8 days	Ci	1.691 E-3	1.094 E-2	10.5
2. Average release rate for period	$\mu\text{Ci}/\text{Sec}$	2.127 E-4	1.376 E-3	
3. Percent of technical specification limit	%	3.828 E-2	2.476 E-1	
4. Gross alpha radioactivity	Ci	<2.617 E-4	<7.246 E-4	
<b>D. TRITIUM</b>				
1. Total release	Ci	1.077 E-1	1.033 E 1	0.40
2. Average release rate for period	$\mu\text{Ci}/\text{Sec}$	1.355 E-2	1.300 E 0	
3. Percent of technical specification limit	%	1.150 E-1	9.870 E 0	

\* Estimated total error for Kr-85 in the 3rd quarter was 55%. Estimated average total error for all other isotopes is as reported above.

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT - 1979

LIQUID EFFLUENTS

Nuclides Released	Unit	BATCH	
		3rd Quarter	4th Quarter
Stronium - 89	Ci	3.872 E-5	1.110 E-4
Stronium - 90	Ci	2.606 E-5	1.807 E-5
Cesium - 134	Ci	1.958 E-2	1.115 E-2
Cesium - 137	Ci	1.100 E-2	6.277 E-3
Iodine - 131	Ci	7.223 E-4	8.294 E-4
Cobalt - 58	Ci	2.658 E-1	1.775 E-1
Cobalt - 60	Ci	1.412 E-1	1.600 E-1
Iron - 59	Ci	5.524 E-3	1.526 E-3
Zinc - 65	Ci	1.307 E-3	1.267 E-3
Manganese - 54	Ci	2.350 E-2	2.364 E-2
Chromium - 51	Ci	2.591 E-2	1.738 E-2
Zirconium-Niobium - 95	Ci	2.867 E-2	1.681 E-2
Molybdenum - 99	Ci		
Technetium - 99m	Ci		
Barium-lanthanum - 140	Ci		
Cerium - 141	Ci		
Cesium - 136	Ci	7.644 E-3	7.718 E-4
Sodium - 24	Ci	1.359 E-3	4.031 E-4
Iodine - 133	Ci	1.010 E-4	1.816 E-4
Cobalt - 57	Ci	9.127 E-4	5.343 E-4
Zirconium - 97	Ci	1.599 E-3	4.819 E-4
Silver - 110m	Ci	4.445 E-2	2.110 E-2
Cerium - 144	Ci		
Cadmium- 109	Ci	3.609 E-4	
Tin	Ci	7.201 E-4	1.715 E-4
Antimony 124	Ci		1.372 E-3

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT - 1979

LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

	Unit	3rd Quarter	4th Quarter	Est. Total Error, %
<b>A. FISSION AND ACTIVATION PRODUCTS</b>				
1. Total release (not including tritium, gases, alpha)	Ci	5.152 E-1	4.414 E-1	10.2
2. Average diluted concentration during period	μCi/ml	3.172 E-8	3.645 E-8	
3. Percent of applicable limit	%	9.515 E-2	1.091 E-1	
<b>B. TRITIUM</b>				
1. Total release	Ci	1.565 E 2	1.756 E 2	.23
2. Average diluted concentration during period	μCi/ml	9.637 E-6	1.450 E-5	
3. Percent of applicable limit	%	3.212 E-1	4.833 E-1	
<b>C. DISSOLVED AND ENTRAINED GASES</b>				
1. Total release	Ci	2.035 E-3	3.647 E-4	17.2
2. Average diluted concentration during period	μCi/ml	1.253 E-10	3.012 E-11	
3. Percent of applicable limit	%	*	*	
<b>D. GROSS ALPHA RADIOACTIVITY</b>				
1. Total release	Ci	<1.058 E-3	<1.596 E-3	
<b>E. VOLUME OF WASTE RELEASED (PRIOR TO DILUTION)</b>				
	liters	2.324 E+6	2.581 E+6	2.0
<b>F. VOLUME OF DILUTION WATER USED DURING PERIOD</b>				
	liters	1.624 E+10	1.211 E+10	3.48

\*No applicable limit

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT - 1979  
2nd half  
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

A. Solid waste shipped offsite for burial or disposal

1. Type of waste

- a. Spent resins, filter sludges, evaporator bottoms, etc.
- b. Dry compressible waste, contaminated equipment, etc.
- c. Irradiated components, control rods, etc.
- d. Other

Unit	6-month period	Est. Total Error, %
m <sup>3</sup>	2.841 E 2	1 E 0
Ci	2.791 E 2	4 E 0
m <sup>3</sup>	2.615 E 2	1 E 0
Ci	2.929 E 1	2 E 2
m <sup>3</sup>		
Ci		
m <sup>3</sup>		
Ci		

2. Estimate of major nuclide composition

- a. CS-137                    3.5 E 1 %
- CS-134                   2.0 E 1 %
- CO-58                    2.5 E 1 %
- CO-60                    2.0 E 1 %
- b. CO-60                    2.0 E 1 %
- CO-58                    7.5 E 1 %
- Cs-137                    5.0 E 0 %

3. Solid Waste Disposition

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
30	Truck	Barnwell, S. C.

4. Irradiated Fuel Shipment (Disposition)

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
None		

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT - 1979 1st half  
 SOLID WASTE AND IRRADIATED FUEL SHIPMENTS REVISIED

A. Solid waste shipped offsite for burial or disposal

1. Type of waste

Unit	6-month period	Est. Total Error, %
m <sup>3</sup>	3.976 E 2	1 E 0
Ci	8.148 E 0	4 E 0
m <sup>3</sup>	1.430 E 2	1 E 0
Ci	2.071 E 1	2 E 2
m <sup>3</sup>		
Ci		
m <sup>3</sup>		
Ci		

- a. Spent resins, filter sludges, evaporator bottoms, etc.
- b. Dry compressible waste, contaminated equipment, etc.
- c. Irradiated components, control rods, etc.
- d. Other

2. Estimate of major nuclide composition

a. CS-137	5.7 E 1	%
CS-134	3.9 E 1	
CO-58	2.0 E 0	
CO-60	2.0 E 0	
b. CO-60	3.0 E 1	
Co-58	5.0 E 1	
CS-137	2.0 E 1	

3. Solid Waste Disposition

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
38	Truck	Barnwell, S. C.

4. Irradiated Fuel Shipment (Disposition)

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
None		

Reference #	Stack Name	Stop Time	Ep 113	Fr 113m	Ra 115	1-113	1-113	H <sub>1</sub>	Ra 85	Fr 85m	1-115	Ca 100	Ca 101	Ca 102	Ca 103	Ca 104	Ca 105	Ca 106	Ca 107	Ca 108	Ca 109	Ca 110	Ca 111	Ca 112	Ca 113	Ca 114	Ca 115		
6-19-52	1-1-79	1340	2,060 E 4					2,780 E 4	4,528 E 4			3,059 E 7																	
6-19-53	1-1-79	2225	8,311 E 4					2,315 E 5	1,159 E 7																				
6-19-54	1-1-79	3275	3,552 E 4					7,345 E 5																					
6-19-55	1-1-79	4015	3,001 E 4					3,465 E 7																					
6-19-56	1-10-79	2010	2,019 E 4					3,560 E 5	1,913 E 2																				
6-19-57	1-12-79	0500	3,16, 79, 0500					0,750 E 4																					
6-19-58	1-12-79	0500	3,16, 79, 0500					1,131 E 7																					
6-19-59	1-12-79	0500	3,16, 79, 0500					1,303 E 2																					
6-19-60	1-12-79	1622	7,12, 79, 1622					0,916 E 5	1,740 E 7																				
6-19-61	1-11-79	1545	3,11, 79, 1545					3,160 E 5	1,400 E 7																				
6-19-62	10-21-79	1400	12,12, 79, 0827					0,726 E 5	2,329 E 4	2,869 E 6																			
6-19-63	10-15-79	1306	12,12, 79, 0827					3,315 E 3	4,451 E 3	5,319 E 4																			
6-19-64	10-13-79	1340	12,12, 79, 0827					1,119 E 2																					
6-19-65	10-29-79	2945	10,29, 79, 2136					7,357 E 5	0,182 E 3																				
6-19-66	10-29-79	0215	10,29, 79, 0101					2,317 E 6	2,556 E 3																				
6-19-67	10-29-79	2042	11,9, 79, 1124					1,677 E 1	5,112 E 6	2,660 E 6																			
6-19-68	10-29-79	2948	11,9, 79, 1124					3,598 E 3																					
6-19-69	10-29-79	2042	11,9, 79, 1124					1,091 E 11	1,135 E 3																				
6-19-70	11-5-79	0518	11,5, 79, 0273					9,302 E 2																					
6-19-71	11-5-79	0518	11,5, 79, 0273					9,622 E 2	3,400 E 4																				
6-19-72	11-10-79	0508	11,10, 79, 0508					3,741 E 2																					
6-19-73	11-10-79	0508	11,10, 79, 0508					3,741 E 2																					
6-19-74	12-1-79	1406	12,01, 79, 1415					4,275 E 3																					
6-19-75	12-1-79	1917	12,1, 79, 2019					3,526 E 3																					
6-19-76	12-3-79	1620	12,3, 79, 1313					2,863 E 3																					
6-19-77	12-4-79	0506	12,4, 79, 0513					2,101 E 3																					
6-19-78	12-5-79	1246	12,5, 79, 1316					2,116 E 3																					
6-19-79	12-6-79	2204	12,12, 79, 0822					1,019 E 5																					
6-19-80	12-6-79	2204	12,12, 79, 0822					1,019 E 5																					

Release #/Start Time / Stop Time	Xe-133	Xe-133m	Xe-135	I-131	I-133	I-125	I-129	Kr-85	Kr-85m	I-130	Ar-41
G-79-81 12/14/79 1855 12/31/79							3.886 E-4				
G-79-82 12/14/79 1855 12/31/79										3.392 E-8	
G-79-83 12/24/79 1515 12/31/79	1.298 E-1	2.289 E-1	2.164 E+1		1.194 E-4						
G-79-84 12/24/79 1515 12/31/79	3.925 E-1	6.336 E-3	4.234 E-1	1.572 E-6	4.165 E-6				1.724 E-3		1.056 E-2
G-79-85 12/24/79 1515 12/31/79	7.682 E-0	1.164 E-1	3.067 E-0	2.594 E-5	7.722 E-5						2.091 E-2

APPENDIX B-1  
METEOROLOGICAL DATA  
THIRD QUARTER 1979





LAPSE RATE WIND DIST. FOR COOK 7/79-9/79

LOCATION 50 FT

DEG C/100M  
(180-50 FT)

-1.8/ -1.7

DIRECTION	0-5		4-7		8-12		13-18		19-23		24 PLUS		SUM PERCENT	
	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT		
22.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
45.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
67.5	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
90.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
112.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
135.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
157.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
180.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
202.5	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
225.0	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
247.5	0	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
270.0	0	0.0	0	0.0	3	0.0	0	0.0	0	0.0	0	0.0	3	0.0
292.5	0	0.0	0	0.0	5	0.0	0	0.0	0	0.0	0	0.0	5	0.0
315.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
337.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
360.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	1	0.0	8	0.0	11	0.5	0	0.0	0	0.0	0	0.0	20	0.9

MEAN WIND SPEED 7.9

NUMBER OF UNINTERPRETABLE HOURS 0

LAPSE RATE WIND DIST. FOR COUK 7/79-9/79  
 LOCATION SOFT  
 DEG C/100M (180-30FT)  
 -1.07 -1.5

DIRECTION	SPEEDS(MI/HR)					15-18			19-23			24 PLUS			SUM PERCENT
	0-3	4-7	6-12	15-18	19-23	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT		
22.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0
45.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0
67.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0
90.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0
112.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0
135.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0
157.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0
180.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0
202.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0
225.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0
247.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0
270.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0
292.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0
315.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0
337.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0
360.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0
	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0

MEAN WIND SPEED 0.0  
 NUMBER OF UNINTERPRETABLE HOURS 0

LAPSE RATE WIND DIST. FOR COOK 7/74-9/79 LOCATION SOFT DEG C/100M -1.4/ -0.5  
(180-30FT)

DIRECTION	SPEEDS (MI/HR)												SUM PERCENT			
	0-3	4-7	8-12		13-18		19-25		24 PLUS		SUM	PERCENT				
22.5	0	0.0	1	.0	4	.2	1	.0	0	0.0	0	0.0	0	0.0	6	.5
45.0	0	0.0	2	.1	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	4	.2
67.5	0	0.0	0	0.0	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.1
90.0	0	0.0	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
112.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
135.0	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.1
157.5	0	0.0	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
180.0	0	0.0	4	.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	.2
202.5	0	0.0	6	.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6	.3
225.0	0	0.0	5	.2	14	.7	0	0.0	0	0.0	0	0.0	0	0.0	19	.9
247.5	1	.0	11	.5	33	1.6	4	.2	0	0.0	0	0.0	0	0.0	49	2.3
270.0	0	0.0	17	.5	14	.7	6	.3	0	0.0	0	0.0	0	0.0	27	1.3
292.5	0	0.0	17	.8	9	.4	5	.2	0	0.0	0	0.0	0	0.0	31	1.5
315.0	0	0.0	2	.1	7	.3	2	.1	0	0.0	0	0.0	0	0.0	11	.5
337.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
360.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
MEAN WIND SPEED	2	.1	59	2.8	66	4.1	16	.9	0	0.0	0	0.0	0	0.0	165	7.6

MEAN WIND SPEED 8.7  
NUMBER OF UNINTERPRETABLE HOURS 0

LAPSE RATE WIND DIST. FOR COOK 7/79-9/79

LOCATION 50FT

DEG C/100M  
(180-30FT)

-0.4/-1.5

DIRECTION	0-3		4-7		8-12		13-18		19-23		24 PLUS		SUM PERCENT	
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
22.5	3	.1	64	3.0	99	4.7	16	.9	0	0.0	0	0.0	184	8.7
45.0	5	.2	25	1.2	27	1.3	2	.1	0	0.0	0	0.0	59	2.8
67.5	9	.4	38	1.8	14	.7	0	0.0	0	0.0	0	0.0	61	2.9
90.0	7	.3	37	1.8	28	1.3	0	0.0	0	0.0	0	0.0	72	3.4
112.5	2	.1	9	.4	17	.8	0	0.0	0	0.0	0	0.0	28	1.3
135.0	0	0.0	5	.2	3	.1	0	0.0	0	0.0	0	0.0	18	.8
157.5	1	.0	31	1.5	12	.6	0	0.0	0	0.0	0	0.0	44	2.1
180.0	5	.2	51	2.4	5	.2	0	0.0	0	0.0	0	0.0	61	2.9
202.5	5	.2	51	2.4	8	.4	0	0.0	0	0.0	0	0.0	64	3.0
225.0	2	.1	50	2.4	55	2.6	5	.1	0	0.0	0	0.0	110	5.2
247.5	7	.3	74	3.5	47	2.2	17	.8	1	.0	0	0.0	146	6.9
270.0	0	0.0	27	1.3	8	.4	0	0.0	1	.0	1	0.0	37	1.8
292.5	5	.2	31	1.5	7	.3	1	.0	0	0.0	0	0.0	44	2.1
315.0	3	.1	17	.8	24	1.1	0	0.0	0	0.0	0	0.0	44	2.1
337.5	4	.2	17	.8	5	.2	0	0.0	1	.0	0	0.0	17	.8
360.0	1	.0	17	.8	8	.4	0	0.0	0	0.0	0	0.0	26	1.2
	59	2.8	534	25.5	367	17.4	41	1.9	3	.1	1	0.0	1095	47.6

MEAN WIND SPEED 7.2

NUMBER OF UNINTERPRETABLE HOURS 0

LAPSE RATE WIND DIST. FOR COOK 7/79-9/79

LOCATION 50FT

DEG C/100M  
(100-30FT)

1.6 / 4.0

DIRECTION	SPEEDS(MI/HR)					SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT		
	0-5	4-7	8-12	13-18	19-23							24 PLUS	
22.5	4	28	1.3	15	.6	1	.0	0	0.0	0	0.0	46	2.2
25.0	1	7	.3	0	0.0	0	0.0	0	0.0	0	0.0	8	.4
27.5	6	13	.6	0	0.0	0	0.0	0	0.0	0	0.0	19	.9
30.0	3	25	1.2	1	.0	0	0.0	0	0.0	0	0.0	29	1.4
32.5	1	54	2.6	35	1.7	0	0.0	0	0.0	0	0.0	90	4.3
35.0	1	55	2.6	21	1.0	1	.0	0	0.0	0	0.0	76	3.7
37.5	2	40	1.9	7	.3	0	0.0	0	0.0	0	0.0	49	2.3
40.0	3	25	1.2	0	0.0	0	0.0	0	0.0	0	0.0	28	1.3
42.5	2	25	1.2	0	0.0	0	0.0	0	0.0	0	0.0	27	1.3
45.0	3	27	1.3	3	.1	0	0.0	0	0.0	0	0.0	33	1.6
47.5	3	16	.8	0	0.0	0	0.0	0	0.0	0	0.0	19	.9
50.0	1	10	.5	0	0.0	1	.0	0	0.0	0	0.0	12	.6
52.5	8	5	.2	0	0.0	6	0.0	0	0.0	0	0.0	13	.6
55.0	8	21	1.0	2	.1	0	0.0	0	0.0	0	0.0	31	1.5
57.5	4	41	1.9	27	1.3	6	.3	0	0.0	0	0.0	70	3.7
60.0	5	25	1.2	3	.1	1	.0	0	0.0	0	0.0	34	1.6
	55	417	19.7	112	5.5	10	.5	0	0.0	0	0.0	594	26.1

MEAN WIND SPEED 6.1

NUMBER OF UNINTERPRETABLE HOURS 0

LAPSE RATE WIND DIST. FOR SOUK 7/79-9/79 LOCATION SOFT DEG C/100H GT: 4.0  
(100-50FY) (100-50FY)

DIRECTION	SPEEDS(MI/HR)										SUM PERCENT			
	0-3	4-7	8-12	13-16	19-25	24 PLUS								
22.5	1	0	0	0	0	0	0	0	0	0	0	0	1	0.0
45.0	2	1	0	0	0	0	0	0	0	0	0	0	3	0.0
67.5	1	0	0	0	0	0	0	0	0	0	0	0	2	0.0
90.0	2	1	1	0	0	0	0	0	0	0	0	0	16	0.0
112.5	3	1	1	2	0	0	0	0	0	0	0	0	47	0.0
135.0	2	1	1	1	0	0	0	0	0	0	0	0	33	0.0
157.5	3	1	1	1	0	0	0	0	0	0	0	0	21	0.0
180.0	4	2	0	0	0	0	0	0	0	0	0	0	23	0.0
202.5	1	0	0	0	0	0	0	0	0	0	0	0	1	0.0
225.0	0	0	1	1	0	0	0	0	0	0	0	0	3	0.0
247.5	3	1	1	0	0	0	0	0	0	0	0	0	5	0.0
270.0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.0
292.5	6	3	0	0	0	0	0	0	0	0	0	0	9	0.0
315.0	4	2	0	0	0	0	0	0	0	0	0	0	11	0.0
337.5	3	1	1	0	0	0	0	0	0	0	0	0	20	0.0
360.0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.0
	35	17	223	10.6	41	1.9	0	0	0	0	0	0	299	10.2

MEAN WIND SPEED 5.8

NUMBER OF UNINTEPRETABLE HOURS 0

LAPSE RATE WIND DIST. FOR COOK 7/79-9/79 ALL STABILITIES LOCATION SORT

DIRECTION	SPEEDS (MI/HR)				13-18			19-25			26 PLUS			SUM PERCENT
	0-3	4-7	8-12	13-18	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT		
22.5	8	95	5.5	20	.9	0	0.0	0	0.0	0	0.0	237	11.2	
45.0	8	55	1.4	2	.1	0	0.0	0	0.0	0	0.0	74	3.5	
67.5	16	52	.9	0	0.0	0	0.0	0	0.0	0	0.0	66	4.1	
90.0	13	76	1.5	0	0.0	0	0.0	0	0.0	0	0.0	120	5.7	
112.5	7	96	3.2	0	0.0	0	0.0	0	0.0	0	0.0	171	8.1	
135.0	5	139	1.9	1	.0	0	0.0	0	0.0	0	0.0	185	8.8	
157.5	5	101	1.0	0	0.0	0	0.0	0	0.0	0	0.0	128	6.1	
180.0	12	97	.5	0	0.0	0	0.0	0	0.0	0	0.0	115	5.4	
202.5	10	103	.6	0	0.0	0	0.0	0	0.0	0	0.0	125	5.9	
225.0	5	84	3.6	5	.1	0	0.0	0	0.0	0	0.0	167	7.9	
247.5	14	102	3.9	21	1.0	1	.0	0	0.0	0	0.0	221	10.5	
270.0	1	46	1.2	7	.3	1	.0	0	0.0	1	.0	61	3.0	
292.5	19	75	1.4	6	.3	0	0.0	0	0.0	0	0.0	127	6.0	
315.0	15	48	1.6	2	.1	0	0.0	0	0.0	0	0.0	98	4.6	
337.5	11	63	1.6	6	.3	1	.0	0	0.0	0	0.0	115	5.4	
500.0	6	44	.5	1	.0	0	0.0	0	0.0	0	0.0	62	2.9	
	156	1252	49.9	69	3.3	5	.1	1	.0	1	.0	2112	100.0	

MISSING HOURS

MEAN WIND SPEED 6.8

TOTAL NUMBER OF UNINTERPRETABLE HOURS 0

TOTAL NUMBER OF CALM HOURS 0 PERCENT 0.0



LAPSE RATE WIND DIST. FOR COOK 7/79-9/79

LUCATION SOFT DIRECTION VS SPEED

DIRECTION	0-5			4-7			8-12			13-16			19-25			26 PLUS			SUM PERCENT
	SUM	PERCENT	SUM PERCENT	SUM	PERCENT	SUM PERCENT	SUM	PERCENT	SUM PERCENT	SUM	PERCENT	SUM PERCENT	SUM	PERCENT	SUM PERCENT	SUM	PERCENT	SUM PERCENT	
22.5	9	4	4.5	116	5.5	20	.9	0	0.0	0	0.0	0	0.0	0	0.0	238	10.9		
45.0	6	4	1.6	29	1.3	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	174	5.4		
67.5	16	7	2.8	18	.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	187	4.0		
90.0	14	6	3.3	31	1.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	121	5.6		
112.5	7	3	4.5	69	3.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	175	8.0		
135.0	5	2	5.9	40	1.8	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	177	9.1		
157.5	3	1	3.5	21	1.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	117	6.8		
180.0	6	3	4.6	6	.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	116	5.4		
202.5	11	5	4.8	12	.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	128	5.9		
225.0	2	1	4.0	75	3.4	3	.1	0	0.0	0	0.0	0	0.0	0	0.0	164	7.8		
247.5	14	6	4.9	83	3.8	21	1.0	1	.0	0	0.0	0	0.0	0	0.0	225	10.3		
270.0	3	1	2.3	25	1.1	7	.3	1	.0	1	.0	0	0.0	0	0.0	107	4.0		
292.5	19	9	3.6	29	1.3	6	.3	0	0.0	0	0.0	0	0.0	0	0.0	153	6.1		
315.0	15	7	2.2	33	1.5	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	148	4.5		
337.5	11	5	2.9	34	1.6	6	.3	1	.0	1	.0	0	0.0	0	0.0	136	5.8		
360.0	7	3	2.0	11	.5	1	.0	0	0.0	0	0.0	0	0.0	0	0.0	63	2.8		
	162	7.4	60.2	632	29.0	69	3.2	3	.1	1	.0	0	0.0	0	0.0	2176	100.0		

MEAN WIND SPEED 6.8

TOTAL NUMBER OF UNINTERPRETABLE HOURS 0

TOTAL NUMBER OF CALM HOURS 0 PERCENT 0.0

MISSING HOURS 52

LAPSE RATE WIND DIST. FOR COOK 7/79-9/79

LOCATION 150FT

DEG C/100M  
(180-50FT)

LE=1.9

SPEEDS(MI/HR)

DIRECTION	0-3		4-7		8-12		13-18		19-23		24 PLUS		SUM PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	
22.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
45.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
67.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
90.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
112.5	1	.1	0	0.0	0	0.0	0	0.0	0	0.0	1	.1	0.0
135.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
157.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
180.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
202.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
225.0	1	.1	0	0.0	0	0.0	2	.1	0	0.0	2	.1	0.0
247.5	0	0.0	0	0.0	0	0.0	1	.1	0	0.0	2	.1	0.0
270.0	1	.1	0	0.0	1	.1	0	0.0	0	0.0	2	.1	0.0
292.5	0	0.0	1	.1	0	0.0	0	0.0	0	0.0	1	.1	0.0
315.0	0	0.0	2	.1	0	0.0	7	.4	0	0.0	15	.6	0.0
337.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
360.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
TOTAL	3	.2	3	.2	7	.4	10	.5	0	0.0	25	1.2	0.0

MEAN WIND SPEED 10.5

NUMBER OF UNINTERPRETABLE HOURS 0

LAPSE RATE WIND DIST. FOR COOK 7/79-9/79

LOCATION 150FT

DEG C/100R  
(180-30FT)

-1.07 -1.7

DIRECTION	SPEEDS (MI/HR)					13-18			19-25			24 PLUS			SUM PERCENT
	0-3	4-7	8-12	13-18	19-25	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT		
22.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
45.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
67.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
90.0	0	0.0	1	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1
112.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
135.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
157.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
180.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
202.5	0	0.0	0	0.0	0	0.0	3	0.2	0	0.0	0	0.0	0	0.0	3
225.0	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	1
247.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
270.0	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0	0	0.0	0	0.0	2
292.5	0	0.0	0	0.0	2	0.0	1	0.0	0	0.0	0	0.0	0	0.0	2
315.0	0	0.0	1	0.0	3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4
337.5	0	0.0	0	0.0	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2
360.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	0	0.0	1	0.0	9	0.0	6	0.3	0	0.0	0	0.0	0	0.0	16

MEAN WIND SPEED 11.6

NUMBER OF UNINTERPRETABLE HOURS 0

LAPSE RATE WIND DIST. FUM COOK 7/79-9/79 LUCATION 150FT DEG C/100M -1.6/ -1.5  
 (100-30FT)

DIRECTION	SPEEDS(MI/HR)					LUCATION 150FT			DEG C/100M			
	0-5	6-7	8-12	13-18	19-23	24 PLUS	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	
22.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
45.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
67.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
112.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
135.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
157.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
180.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
202.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
225.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
247.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
270.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
292.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
315.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
337.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
360.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

MEAN WIND SPEED 0.0

NUMBER OF UNINTERPRETABLE HOURS 0

LAPSE RATE WIND DIST. FOR COOK 7/79-9/79 LOCATION 150FT DEG C/100M (180-30FT) -1.4/ -0.5

DIRECTION	0-3		4-7		8-12		13-18		19-25		29 PLUS		SUM PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	
22.5	0	0.0	0	0.0	0	0.0	4	.2	1	.1	0	0.0	5
45.0	0	0.0	1	.1	3	.2	2	.1	0	0.0	0	0.0	6
67.5	0	0.0	0	0.0	3	.2	1	.1	0	0.0	0	0.0	4
90.0	0	0.0	0	0.0	1	.1	0	0.0	0	0.0	0	0.0	1
112.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
135.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
157.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
180.0	0	0.0	1	.1	1	.1	0	0.0	0	0.0	0	0.0	2
202.5	0	0.0	0	0.0	10	.5	1	.1	0	0.0	0	0.0	11
225.0	0	0.0	0	0.0	5	.3	16	.9	0	0.0	0	0.0	21
247.5	0	0.0	0	0.0	12	.6	12	.6	2	.1	0	0.0	26
270.0	0	0.0	0	0.0	15	.8	14	.8	5	.3	2	.1	39
292.5	1	.1	3	.2	11	.6	3	.2	1	.1	0	0.0	19
315.0	0	0.0	5	.3	3	.2	13	.7	3	.2	1	.1	25
337.5	0	0.0	0	0.0	1	.1	0	0.0	1	.1	0	0.0	2
360.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	1	.1	13	.7	65	3.5	66	3.5	13	.7	3	.2	161

MEAN WIND SPEED 15.0

NUMBER OF UNINTERPRETABLE HOURS 0

LAPSE RATE WIND DIST. FOR COOK 7/79-9/79

LOCATION 150FT

DEG C/100M  
(180-30FT)

-0.6/ 1.3

DIRECTION	0-3		4-7		8-12		13-18		19-23		24 PLUS		SUM PERCENT
	SUM PERCENT	SUM	SUM PERCENT	SUM	SUM PERCENT	SUM	SUM PERCENT	SUM	SUM PERCENT	SUM	SUM PERCENT	SUM	
22.5	0	0.0	4	12	2.1	51	2.7	11	.6	0	0.0	105	5.6
45.0	1	.1	15	46	2.5	34	1.8	6	.8	0	0.0	104	5.6
67.5	1	.1	13	24	1.3	6	.4	0	0.0	0	0.0	46	2.5
90.0	2	.1	9	31	1.7	22	1.2	0	0.0	0	0.0	64	3.4
112.5	0	0.0	1	9	.5	7	.9	0	0.0	0	0.0	17	.9
135.0	0	0.0	2	5	.5	10	.5	0	0.0	0	0.0	17	.9
157.5	0	0.0	2	1	.1	3	.3	0	0.0	0	0.0	8	.4
180.0	0	0.0	1	31	1.7	29	1.6	2	.1	0	0.0	63	3.4
202.5	1	.1	6	34	1.6	21	1.1	0	0.0	0	0.0	62	3.3
225.0	0	0.0	5	27	1.5	61	3.3	7	.4	0	0.0	100	5.4
247.5	0	0.0	6	38	2.0	29	1.6	14	.8	9	.5	96	5.2
270.0	0	0.0	30	39	2.1	19	1.0	1	.1	2	.1	91	4.9
292.5	0	0.0	21	8	.9	1	.1	0	0.0	0	0.0	30	1.6
315.0	1	.1	11	11	.6	3	.2	3	.2	0	0.0	29	1.6
337.5	0	0.0	8	17	.9	12	.6	4	.2	1	.1	42	2.3
360.0	3	.2	0	15	.8	20	1.1	0	0.0	0	0.0	42	2.3
	9	.5	138	375	20.1	532	17.8	50	2.7	12	.6	916	49.2

MEAN WIND SPEED 12.0

NUMBER OF UNINTERPRETABLE HOURS 0

LAPSE RATE WIND DIST. FOR COOK 7/79-9/79 LOCATION 150FT DEG C/100M (100-50FT) 1.6 / 4.0

DIRECTION	SPEEDS (MI/HR)										SUM PERCENT			
	0-3		4-7		8-12		13-18		19-25			26 PLUS		
	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT		SUM PERCENT		
22.5	1	.1	6	.3	19	1.0	14	.8	0	0.0	0	0.0	40	2.1
45.0	1	.1	4	.2	2	.1	0	0.0	0	0.0	0	0.0	7	.4
67.5	1	.1	3	.2	10	.5	2	.1	0	0.0	0	0.0	16	.9
90.0	2	.1	8	.4	11	.6	4	.2	0	0.0	0	0.0	25	1.3
112.5	0	0.0	9	.5	24	1.3	5	.3	0	0.0	0	0.0	38	2.0
135.0	1	.1	4	.2	36	2.0	25	1.2	0	0.0	0	0.0	66	3.5
157.5	0	0.0	4	.2	27	1.5	17	.9	0	0.0	0	0.0	48	2.6
180.0	0	0.0	4	.2	19	1.0	16	.9	1	.1	0	0.0	40	2.1
202.5	0	0.0	1	.1	6	.3	25	1.2	0	0.0	0	0.0	30	1.6
225.0	0	0.0	0	0.0	8	.4	11	.6	0	0.0	0	0.0	19	1.0
247.5	2	.1	8	.4	11	.6	2	.1	0	0.0	0	0.0	23	1.2
270.0	1	.1	8	.4	7	.4	2	.1	1	.1	0	0.0	19	1.0
292.5	0	0.0	6	.3	2	.1	1	.1	0	0.0	0	0.0	9	.5
315.0	1	.1	7	.4	1	.1	0	0.0	0	0.0	0	0.0	9	.5
337.5	1	.1	3	.2	15	.7	4	.2	4	.2	0	0.0	25	1.3
360.0	2	.1	20	1.1	38	2.0	14	.8	5	.3	1	.1	60	3.3
	15	.7	95	5.1	236	12.7	138	7.4	11	.6	1	.1	496	26.5

MEAN WIND SPEED 10.5

NUMBER OF UNINTERPRETABLE HOURS 0





LAPSE RATE WIND DIST. FOR COOK 7/79-9/79

LOCATION 150FT

ALL STABILITIES

DIRECTION	SPEEDS(MI/HR)					SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT
	0-5	4-7	8-12	13-18	19-25								
22.5	1	10	59	69	12	8	121	8.1					
45.0	3	20	51	36	8	69	118	6.3					
67.5	2	17	38	12	0	69	5.7						
90.0	4	19	48	37	0	108	5.8						
112.5	1	12	42	18	0	75	5.9						
135.0	2	12	53	50	0	117	6.3						
157.5	1	11	46	58	1	117	6.3						
180.0	1	10	59	73	4	147	7.9						
202.5	2	8	55	54	3	127	6.8						
225.0	2	5	44	101	7	129	6.5						
247.5	2	16	70	43	16	156	8.4						
270.0	3	41	63	38	17	156	8.4						
292.5	1	32	23	36	1	62	3.3						
315.0	3	26	24	33	6	65	4.6						
337.5	1	12	33	16	9	72	3.9						
360.0	7	36	62	34	5	145	7.8						
	36	289	770	872	79	1662	100.0						
	1.9	15.5	41.4	36.1	4.2	16	9						

MEAN WIND SPEED 11.6

TOTAL NUMBER OF UNINTERPRETABLE HOURS 0

TOTAL NUMBER OF CALM HOURS 0 PERCENT 0.0

MISSING HOURS 346

LAPSE RATE WIND DIST. FOR COOK 7/79-9/79

LOCATION 150FT

DIRECTION VS SPEED

DIRECTION	0-3		4-7		SPEEDS(MI/HR) 8-12		13-18		19-23		24 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
22.5	1	.1	10	.5	59	3.1	69	3.6	12	.6	0	0.0	151	7.9
45.0	3	.2	20	1.0	51	2.7	36	1.9	8	.4	0	0.0	118	6.1
67.5	2	.1	18	.9	38	2.0	12	.6	0	0.0	0	0.0	70	3.6
90.0	5	.3	19	1.0	48	2.5	37	1.9	0	0.0	0	0.0	109	5.7
112.5	1	.1	12	.6	43	2.2	16	.9	0	0.0	0	0.0	74	3.9
135.0	2	.1	12	.6	54	2.8	52	2.7	0	0.0	0	0.0	120	6.3
157.5	1	.1	11	.6	46	2.4	61	3.2	1	.1	0	0.0	120	6.3
180.0	1	.1	11	.6	65	3.4	83	4.3	6	.3	0	0.0	166	8.6
202.5	2	.1	9	.5	58	3.0	65	3.4	3	.2	0	0.0	137	7.1
225.0	2	.1	7	.4	47	2.4	101	5.3	7	.4	0	0.0	164	8.5
247.5	2	.1	17	.9	72	3.8	43	2.2	16	.8	9	.5	159	8.3
270.0	3	.2	45	2.3	64	3.3	38	2.0	7	.4	4	.2	161	8.4
292.5	1	.1	32	1.7	24	1.3	5	.3	1	.1	0	0.0	63	3.3
315.0	3	.2	29	1.5	26	1.4	23	1.2	6	.3	1	.1	68	3.6
337.5	1	.1	12	.6	33	1.7	16	.8	9	.5	1	.1	72	3.8
360.0	7	.4	39	2.0	62	3.2	34	1.8	5	.3	1	.1	148	7.7
	37	1.9	303	15.8	790	41.1	693	36.1	81	4.2	16	.8	1920	100.0

MISSING HOURS 288

MEAN WIND SPEED 11.6

TOTAL NUMBER OF UNINTERPRETABLE HOURS 0

TOTAL NUMBER OF CALM HOURS 0 PERCENT 0.0

LAPSE RATE WIND DIST. FOR COUK 10/79-12/79 LUCATION SOFT DEG C/100M LE-1.9  
(180-50FT)

DIRECTION	0-3		4-7		8-12		13-18		19-23		24 PLUS		SUM PERCENT	
	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT		
22.5	2	.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
45.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
67.5	1	.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.1
90.0	1	.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.1
112.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
135.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
157.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
180.0	1	.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.1
202.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
225.0	0	0.0	3	0.0	3	.2	0	0.0	0	0.0	0	0.0	3	.2
247.5	0	0.0	1	.1	1	.1	0	0.0	0	0.0	0	0.0	2	.1
270.0	0	0.0	6	.3	6	.3	5	.3	0	0.0	4	.2	15	.3
292.5	0	0.0	5	.2	5	.3	4	.2	2	.1	0	0.0	11	.2
315.0	0	0.0	2	.1	2	.1	7	.4	7	.4	2	.1	18	.3
337.5	3	.2	1	.1	1	.1	9	.5	1	.1	0	0.0	14	.3
360.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	6	.4	18	1.0	25	1.4	10	.5	66	3.7				

MEAN WIND SPEED 14.1  
NUMBER OF UNINTERPRETABLE HOURS 0

APPENDIX B-2  
METEOROLOGICAL DATA  
FOURTH QUARTER 1979



LAPSE RATE WIND DIST. FOR COOK 10/79-12/79 LOCATION 50FT DEG C/100M (180-30FT) = 1.6/ -1.5

DIRECTION	SPEEDS (MI/HR)				LOCATION 50FT		DEG C/100M (180-30FT)		SUM PERCENT	
	0-3	4-7	8-12	13-18	19-25	24 PLUS	19-25	24 PLUS		
22.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
45.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
67.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
112.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
135.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
157.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
180.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
202.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
225.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
247.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
270.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
292.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
315.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
337.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
360.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

MEAN WIND SPEED 0.0  
 NUMBER OF UNINTERPRETABLE HOURS 0

LAPSE RATE WIND DIST. FOR COOK 10/79-12/79

LOCATION SOFT

DEG C/100M  
(100-30FT) =1.4/ =0.5

DIRECTION	SPEEDS (MI/HR)														SUM	PERCENT
	0-3		4-7		8-12		13-18		19-23		24 PLUS					
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
22.5	5	.3	4	.2	5	.3	6	.3	10	.5	0	0.0	50	1.6		
45.0	1	.1	6	.3	5	.3	3	.2	2	.1	0	0.0	17	.9		
67.5	4	.2	11	.6	11	.6	1	.1	0	0.0	0	0.0	27	1.5		
90.0	5	.3	22	1.2	7	.4	1	.1	0	0.0	0	0.0	35	1.9		
112.5	1	.1	1	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1		
135.0	2	.1	0	0.0	2	.1	0	0.0	0	0.0	0	0.0	4	.2		
157.5	6	.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6	.3		
180.0	2	.1	3	.2	8	.4	1	.1	0	0.0	0	0.0	14	.8		
202.5	0	0.0	25	1.4	26	1.4	3	.2	0	0.0	0	0.0	54	3.0		
225.0	0	0.0	18	1.0	67	3.7	42	2.3	4	.2	0	0.0	131	7.2		
247.5	0	0.0	9	.5	43	2.4	45	2.5	11	.6	3	.2	111	6.1		
270.0	3	.2	17	.9	31	1.7	26	1.4	21	1.1	28	1.5	126	6.9		
292.5	0	0.0	7	.4	27	1.5	22	1.2	11	.6	6	.3	73	4.0		
315.0	1	.1	7	.4	45	2.5	47	2.6	24	1.3	19	1.0	143	7.8		
337.5	0	0.0	4	.2	25	1.4	19	1.0	17	.9	6	.3	71	3.9		
360.0	3	.2	6	.3	3	.2	1	.1	0	0.0	0	0.0	13	.7		
	53	1.8	140	7.7	309	16.7	217	11.9	100	5.5	62	3.4	857	46.9		

MEAN WIND SPEED 12.8

NUMBER OF UNINTERPRETABLE HOURS 0

LAPSE RATE WIND DIST. FOR COOK 10/79-12/79 LOCATION 50FT DEG C/100M (180-30FT) -0.4/ 1.5

DIRECTION	SPEEDS(MI/HR)					SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT
	0-5	4-7	8-12	13-18	19-23							
22.5	1	.1	6	0	0.0	0	0.0	0	0.0	0	0.0	.4
45.0	5	.3	8	0	0.0	0	0.0	0	0.0	0	0.0	1.1
67.5	2	.1	2	0	0.0	0	0.0	0	0.0	0	0.0	.4
90.0	5	.3	10	2	.1	0	0.0	0	0.0	0	0.0	1.6
112.5	4	.2	14	4	.2	1	.1	0	0.0	0	0.0	2.1
135.0	2	.1	6	9	.5	2	.1	0	0.0	0	0.0	1.4
157.5	5	.3	11	13	.7	0	0.0	0	0.0	0	0.0	2.4
180.0	11	.6	44	2	.1	2	.1	0	0.0	0	0.0	4.9
202.5	4	.2	37	4	.2	1	.1	1	.1	0	0.0	5.0
225.0	1	.1	23	3	.2	1	.1	0	0.0	0	0.0	2.0
247.5	3	.2	19	17	.9	0	0.0	0	0.0	0	0.0	2.7
270.0	0	0.0	4	2	.1	0	0.0	0	0.0	0	0.0	.9
292.5	0	0.0	2	0	0.0	0	0.0	0	0.0	0	0.0	.2
315.0	2	.1	4	3	.2	0	0.0	0	0.0	0	0.0	.4
337.5	3	.2	23	18	1.0	2	.1	1	.1	0	0.0	2.9
360.0	1	.1	15	22	1.2	8	.4	1	.1	0	0.0	2.7
	49	2.7	226	99	5.4	17	.9	3	.2	577	31.5	

MEAN WIND SPEED 9.1

NUMBER OF UNINTERPRETABLE HOURS 0



LAPSE RATE WIND DIST. FOR COOK 10/79-12/79 LOCATION 50FT 1.6 / 6.0 DEG C/100M (180-30FT)

DIRECTION	0-3		4-7		SPEEDS (MI/HR)		15-18		19-25		24 PLUS		SUM PERCENT	
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
22.5	0	0.0	2	.1	2	.1	0	0.0	0	0.0	0	0.0	4	.2
45.0	3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	.2
67.5	0	0.0	1	.1	0	0.0	0	0.0	0	0.0	0	0.0	1	.1
90.0	1	.1	3	.2	0	0.0	0	0.0	0	0.0	0	0.0	4	.2
112.5	2	.1	10	.5	9	.5	5	.3	0	0.0	0	0.0	26	1.4
135.0	2	.1	12	.7	35	1.9	10	.5	0	0.0	0	0.0	59	3.2
157.5	1	.1	27	1.5	12	.7	0	0.0	0	0.0	0	0.0	40	2.2
180.0	2	.1	7	.3	0	0.0	0	0.0	0	0.0	0	0.0	9	.5
202.5	0	0.0	5	.3	6	.4	0	0.0	0	0.0	0	0.0	13	.7
225.0	0	0.0	4	.2	6	.5	0	0.0	0	0.0	0	0.0	10	.5
247.5	0	0.0	0	0.0	2	.1	1	.1	0	0.0	0	0.0	3	.2
270.0	1	.1	1	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
292.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
315.0	1	.1	1	.1	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
337.5	1	.1	1	.1	0	0.0	1	.1	0	0.0	0	0.0	3	.2
360.0	1	.1	6	.3	8	.4	0	0.0	0	0.0	0	0.0	15	.8
	15	.8	80	4.4	82	4.5	17	.9	0	0.0	0	0.0	194	10.6

MEAN WIND SPEED 7.7

NUMBER OF UNINTERPRETABLE HOURS 0

LAPSE RATE WIND DIST. FOR COOK 10/79-12/79

LOCATION SOFT

DEG C/100M  
(100-30FT)

GT. 4.0

DIRECTION	0-3			4-7			8-12			13-18			19-25			24 PLUS			SUM PERCENT
	SUM PERCENT	SUM	PERCENT	SUM PERCENT	SUM	PERCENT	SUM PERCENT	SUM	PERCENT	SUM PERCENT	SUM	PERCENT	SUM PERCENT	SUM	PERCENT	SUM PERCENT	SUM	PERCENT	
22.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
45.0	1	.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	1
67.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
90.0	0	0.0	1	.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1
112.5	0	0.0	3	.2	8	.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	11
135.0	0	.2	22	1.2	6	.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	32
157.5	3	.2	13	.7	1	.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	17
180.0	0	0.0	5	.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5
202.5	0	0.0	1	.1	6	.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7
225.0	2	.1	4	.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6
247.5	1	.1	1	.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2
270.0	0	0.0	1	.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1
292.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
315.0	1	.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	1
337.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
360.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	12	.7	51	2.8	21	1.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	64

MEAN WIND SPEED 6.0

NUMBER OF UNINTERPRETABLE HOURS 0

LAPSE RATE WIND DIST. FOR COOK 10/79-12/79

LOCATION SOFT

ALL STABILITIES

DIRECTION	0-3		4-7		SPEEDS (MI/HR) 8-12		13-18		19-23		24 PLUS		SUM PERCENT	
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
22.5	8	.4	7	.4	13	.7	6	.3	10	.5	0	0.0	44	2.4
45.0	10	.5	14	.8	13	.7	3	.2	2	.1	0	0.0	42	2.3
67.5	7	.4	15	.8	15	.7	1	.1	0	0.0	0	0.0	36	2.0
90.0	12	.7	39	2.1	17	.9	3	.2	0	0.0	0	0.0	71	3.9
112.5	7	.4	29	1.6	31	1.7	9	.5	1	.1	0	0.0	77	4.2
135.0	10	.5	40	2.2	49	2.7	19	1.0	2	.1	0	0.0	120	6.6
157.5	15	.8	55	3.0	24	1.3	13	.7	0	0.0	0	0.0	107	5.9
180.0	16	.9	45	2.5	54	3.0	3	.2	2	.1	0	0.0	120	6.6
202.5	4	.2	76	4.2	78	4.3	7	.4	1	.1	1	.1	167	9.1
225.0	3	.2	34	1.9	102	5.6	45	2.5	5	.3	0	0.0	189	10.3
247.5	4	.2	21	1.1	64	3.6	65	3.6	11	.6	3	.2	173	9.3
270.0	4	.2	30	1.6	50	2.7	36	2.0	23	1.3	36	2.0	179	9.8
292.5	0	0.0	9	.5	34	2.1	29	1.6	14	.8	6	.3	97	5.3
315.0	5	.3	13	.7	52	2.8	58	3.2	32	1.7	23	1.3	183	10.0
337.5	7	.4	12	.7	50	2.7	50	2.7	21	1.1	7	.4	147	8.0
360.0	5	.3	14	.8	26	1.4	23	1.3	8	.4	1	.1	77	4.2
	117	6.4	453	24.8	680	37.2	370	20.2	132	7.2	77	4.2	1824	100.0

MISSING HOURS 379

MEAN WIND SPEED 10.9

TOTAL NUMBER OF UNINTERPRETABLE HOURS 0  
 TOTAL NUMBER OF CALM HOURS 0 PERCENT 0.0

LAPSE RATE WIND DIST. FOR COOK 10/79-12/79

LOCATION SOFT

DIRECTION VS SPEED

DIRECTION	0-3		4-7		SPEEDS (MI/HR) 8-12		13-18		19-23		24 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
22.5	8	.4	8	.4	13	.7	6	.3	10	.5	0	0.0	45	2.4
45.0	10	.5	15	.8	15	.8	3	.2	2	.1	0	0.0	45	2.4
67.5	7	.4	17	.9	13	.7	1	.1	0	0.0	0	0.0	38	2.1
90.0	12	.6	42	2.3	17	.9	3	.2	0	0.0	0	0.0	74	4.0
112.5	8	.4	29	1.6	31	1.7	9	.5	1	.1	0	0.0	78	4.2
135.0	11	.6	40	2.2	51	2.8	19	1.0	2	.1	0	0.0	123	6.6
157.5	15	.8	55	3.0	24	1.3	14	.8	0	0.0	0	0.0	108	5.8
180.0	16	.9	45	2.4	55	3.0	3	.2	2	.1	0	0.0	121	6.5
202.5	4	.2	77	4.2	79	4.3	7	.4	1	.1	1	.1	169	9.1
225.0	3	.2	34	1.8	102	5.5	45	2.4	5	.3	0	0.0	189	10.2
247.5	4	.2	21	1.1	69	3.7	65	3.5	11	.6	3	.2	173	9.3
270.0	4	.2	30	1.6	50	2.7	36	1.9	23	1.2	36	1.9	179	9.7
292.5	0	0.0	9	.5	39	2.1	29	1.6	14	.8	6	.3	97	5.2
315.0	6	.3	13	.7	52	2.8	58	3.1	32	1.7	23	1.2	184	9.9
337.5	9	.5	13	.7	50	2.7	50	2.7	21	1.1	7	.4	150	8.1
360.0	6	.3	14	.8	26	1.4	23	1.2	8	.4	1	.1	78	4.2
	123	6.6	462	25.0	686	37.1	371	20.0	132	7.1	77	4.2	1851	100.0

MISSING HOURS 357

MEAN WIND SPEED 10.8

TOTAL NUMBER OF UNINTERPRETABLE HOURS 0  
 TOTAL NUMBER OF CALM HOURS 0 PERCENT 0.0





LAPSE RATE WIND DIST. FOR COOK 10/79-12/79

LOCATION 150FT

DEG C/100M  
(100-30FT)

-1.67 -1.5

DIRECTION	0-3		4-7		8-12		15-18		19-23		24 PLUS		SUM PERCENT	
	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT		
22.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
45.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
67.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
112.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
135.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
157.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
180.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
202.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
225.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
247.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
270.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
292.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
315.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
337.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
360.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
MEAN WIND SPEED	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NUMBER OF UNINTERPRETABLE HOURS	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

LAPSE RATE WIND DIST. FOR COOK 10/79-12/79

LOCATION 150FT

DEG C/100M  
(180-30FT)

-1.4/ -0.5

DIRECTION	0-3		4-7		SPEEDS (MI/HR) 8-12		13-18		19-23		24 PLUS		SUM PERCENT	
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT
22.5	1	.1	3	.2	6	.3	1	.1	1	.1	4	.2	16	.9
45.0	1	.1	9	.5	15	.7	7	.4	2	.1	0	0.0	31	1.8
67.5	1	.1	12	.7	11	.6	4	.2	1	.1	0	0.0	29	1.7
90.0	0	0.0	0	0.0	2	.1	1	.1	0	0.0	0	0.0	3	.2
112.5	1	.1	0	0.0	1	.1	1	.1	0	0.0	0	0.0	5	.2
135.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
157.5	2	.1	1	.1	0	0.0	0	0.0	0	0.0	0	0.0	3	.2
180.0	0	0.0	1	.1	12	.7	31	1.8	3	.2	4	.2	51	3.0
202.5	0	0.0	2	.1	25	1.5	35	2.0	23	1.3	10	.6	95	5.5
225.0	0	0.0	0	0.0	17	1.0	40	2.3	41	2.4	25	1.5	123	7.1
247.5	0	0.0	1	.1	26	1.5	23	1.3	14	.8	25	1.5	81	4.7
270.0	0	0.0	3	.2	15	.8	25	1.5	19	1.1	29	1.7	102	5.9
292.5	0	0.0	2	.1	13	.8	25	1.5	9	.5	15	.9	64	3.7
315.0	0	0.0	5	.3	15	.9	34	2.0	12	.7	44	2.7	112	6.5
337.5	0	0.0	1	.1	8	.5	15	.9	10	.6	32	1.9	66	3.8
560.0	0	0.0	2	.1	12	.7	7	.4	4	.2	9	.5	34	2.0
	6	.3	42	2.4	178	10.3	249	14.5	139	8.1	199	11.6	813	47.2

MEAN WIND SPEED 17.9

NUMBER OF UNINTERPRETABLE HOURS 0



LAPSE RATE WIND DIST. FOR COOK 10/79-12/79

LOCATION 150FT

DEG C/100H  
(180=30FT)

=0.47 1.5

DIRECTION	0-3		4-7		SPEEDS (MI/HR) 8-12		13-18		19-23		24 PLUS		SUM PERCENT	
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
22.5	0	0.0	1	.1	13	.0	5	.3	1	.1	2	.1	22	1.3
45.0	0	0.0	5	.5	3	.2	1	.1	0	0.0	0	0.0	9	.5
67.5	1	.1	4	.2	6	.3	5	.3	2	.1	0	0.0	18	1.0
90.0	2	.1	7	.4	14	.8	11	.6	0	0.0	1	.1	35	2.0
112.5	0	0.0	7	.4	5	.3	2	.1	5	.3	3	.2	22	1.3
135.0	0	0.0	1	.1	5	.3	3	.2	0	0.0	3	.2	12	.7
157.5	0	0.0	3	.2	3	.2	7	.4	7	.4	8	.5	28	1.6
180.0	1	.1	5	.3	33	1.9	51	3.0	18	1.0	6	.3	114	6.6
202.5	0	0.0	3	.2	11	1.0	34	2.0	9	.5	3	.2	67	3.9
225.0	0	0.0	3	.2	17	1.0	22	1.3	16	.9	1	.1	59	3.4
247.5	0	0.0	5	.3	6	.3	11	.6	3	.2	1	.1	26	1.5
270.0	1	.1	6	.3	2	.1	2	.1	2	.1	0	0.0	13	.8
292.5	1	.1	4	.2	1	.1	1	.1	1	.1	0	0.0	8	.5
315.0	0	0.0	6	.3	7	.4	12	.7	3	.2	3	.2	31	1.8
337.5	0	0.0	3	.2	5	.3	12	.7	5	.3	16	.9	41	2.4
360.0	0	0.0	0	0.0	6	.3	11	.6	12	.7	10	.6	39	2.3
	6	.3	63	3.7	144	8.4	190	11.0	84	4.9	57	3.3	548	31.6

MEAN WIND SPEED 14.8

NUMBER OF UNINTERPRETABLE HOURS 0

LAPSE RATE WIND DIST. FOR COOK 10/79-12/79 LOCATION 150FT DEG C/100M 1.6 / 4.0  
 (180-30FT)

DIRECTION	0-3		4-7		8-12		13-18		19-25		24 PLUS		SUM PERCENT	
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
22.5	0	0.0	1	.1	0	0.0	0	0.0	0	0.0	0	0.0	1	.1
45.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
67.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
90.0	0	0.0	4	.2	1	.1	2	.1	1	.1	0	0.0	17	1.0
112.5	1	.1	2	.1	3	.2	5	.3	6	.3	0	0.0	37	2.1
135.0	1	.1	5	.3	8	.5	15	.9	8	.5	0	0.0	39	2.3
157.5	0	0.0	2	.1	8	.5	27	1.6	2	.1	0	0.0	31	1.8
180.0	0	0.0	3	.2	15	.9	10	.6	1	.1	2	.1	11	.6
202.5	0	0.0	1	.1	1	.1	9	.5	0	0.0	0	0.0	7	.4
225.0	0	0.0	0	0.0	0	0.0	7	.4	0	0.0	0	0.0	4	.2
247.5	0	0.0	0	0.0	0	0.0	3	.2	2	.1	0	0.0	5	.3
270.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.1	0	0.0	1	.1
292.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
315.0	1	.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	.1
337.5	2	.1	1	.1	3	.2	1	.1	0	0.0	0	0.0	7	.4
360.0	1	.1	1	.1	8	.5	6	.3	0	0.0	1	.1	17	1.0
	6	.3	21	1.2	47	2.7	86	5.0	20	1.2	3	.1	183	10.6

MEAN WIND SPEED 13.2  
 NUMBER OF UNINTERPRETABLE HOURS C

LAPSE RATE WIND DIST. FOR COOK 10/79-12/79 LOCATION 150FT DEG C/100M (160-30FT) GT. 4.0

DIRECTION	0-5		4-7		8-12		13-18		19-23		24 PLUS		SUM. PERCENT	
	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT		
22.5	0	0.0	1	.1	0	0.0	0	0.0	0	0.0	0	0.0	1	.1
45.0	0	0.0	1	.1	1	.1	0	0.0	0	0.0	0	0.0	2	.2
67.5	0	0.0	1	.1	0	0.0	0	0.0	0	0.0	0	0.0	1	.1
90.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
112.5	2	.1	0	0.0	4	.2	4	.2	0	0.0	0	0.0	10	.6
135.0	0	0.0	1	.1	13	.8	6	.3	0	0.0	0	0.0	20	1.2
157.5	0	0.0	0	0.0	1	.1	11	.6	0	0.0	0	0.0	12	.7
180.0	0	0.0	0	0.0	3	.2	4	.2	0	0.0	0	0.0	7	.4
202.5	0	0.0	0	0.0	0	0.0	4	.2	2	.1	0	0.0	6	.3
225.0	0	0.0	0	0.0	0	0.0	4	.2	0	0.0	0	0.0	4	.2
247.5	0	0.0	0	0.0	0	0.0	1	.1	0	0.0	0	0.0	1	.1
270.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	.1
292.5	0	0.0	1	.1	1	.1	0	0.0	0	0.0	0	0.0	1	.1
315.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
337.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
360.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	2	.1	5	.3	25	1.5	54	2.0	2	.1	0	0.0	66	3.8

MEAN WIND SPEED 12.5

NUMBER OF UNINTERPRETABLE HOURS 0

LAPSE RATE WIND DIST. FOR COOK 10/79-12/79

LOCATION 150FT

ALL STABILITIES

DIRECTION	0-3		4-7		SPEEDS (MI/HR) 8-12		13-16		19-23		24 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
22.5	1	.1	7	.4	19	1.1	6	.3	2	.1	6	.3	41	2.4
45.0	1	.1	15	.9	16	.9	8	.5	2	.1	0	0.0	42	2.4
67.5	2	.1	17	1.0	17	1.0	9	.5	3	.2	0	0.0	48	2.8
90.0	2	.1	11	.6	17	1.0	14	.8	1	.1	1	.1	46	2.7
112.5	2	.2	9	.5	13	.8	12	.7	11	.6	3	.2	52	3.0
135.0	1	.1	7	.4	26	1.5	24	1.4	8	.5	3	.2	69	4.0
157.5	2	.1	6	.3	12	.7	45	2.6	9	.5	8	.5	82	4.9
180.0	1	.1	9	.5	63	3.7	96	5.6	23	1.5	12	.7	204	11.8
202.5	0	0.0	6	.3	44	2.6	83	4.8	36	2.1	13	.8	182	10.6
225.0	0	0.0	3	.2	36	2.1	79	4.6	58	3.4	26	1.5	202	11.7
247.5	0	0.0	6	.3	26	1.5	47	2.7	20	1.2	32	1.9	131	7.6
270.0	1	.1	9	.5	29	1.7	41	2.4	30	1.7	34	2.0	144	8.4
292.5	1	.1	7	.4	17	1.0	41	2.4	11	.6	22	1.3	99	5.7
315.0	1	.1	12	.7	23	1.3	50	2.9	18	1.0	53	3.1	157	9.1
337.5	3	.2	8	.5	17	1.0	28	1.6	18	1.0	59	3.4	153	7.7
360.0	1	.1	3	.2	26	1.5	24	1.4	16	.9	20	1.2	40	2.4
	21	1.2	135	7.8	401	23.3	607	35.2	266	15.4	292	17.0	1722	100.0

MISSING HOURS 486

MEAN WIND SPEED 16.3

TOTAL NUMBER OF UNINTERPRETABLE HOURS 0  
 TOTAL NUMBER OF CALM HOURS 0 PERCENT 0.0

LAPSE RATE WIND DIST. FOR COOK 10/79-12/79

LOCATION 150FT

DIRECTION VS SPEED

DIRECTION	0-3		4-7		SPEEDS (MI/HR) 8-12		13-18		19-23		24 PLUS		SUM	PERCENT
	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
22.5	1	.1	7	.4	21	1.2	7	.4	2	.1	6	.3	44	2.5
45.0	1	.1	15	.8	18	1.0	8	.5	2	.1	0	0.0	44	2.5
67.5	2	.1	19	1.1	19	1.1	13	.7	3	.2	0	0.0	55	3.2
90.0	2	.1	11	.6	17	1.0	17	1.0	1	.1	1	.1	47	2.8
112.5	4	.2	9	.5	13	.7	13	.7	11	.6	3	.2	53	3.0
135.0	1	.1	7	.4	26	1.5	24	1.4	8	.5	3	.2	64	3.9
157.5	3	.2	6	.3	12	.7	45	2.5	9	.5	8	.5	83	4.7
180.0	1	.1	9	.5	64	3.6	99	5.6	25	1.4	12	.7	210	11.9
202.5	0	0.0	6	.3	44	2.5	84	4.8	40	2.3	13	.7	187	10.6
225.0	0	0.0	3	.2	36	2.0	79	4.5	58	3.3	26	1.5	202	11.4
247.5	0	0.0	6	.3	26	1.5	47	2.7	20	1.1	32	1.8	151	7.8
270.0	1	.1	9	.5	29	1.6	41	2.3	30	1.7	34	1.9	144	8.2
292.5	1	.1	7	.4	17	1.0	41	2.3	11	.6	22	1.2	99	5.6
315.0	1	.1	14	.8	23	1.3	50	2.8	21	1.2	58	3.3	167	9.5
337.5	3	.2	8	.5	17	1.0	30	1.7	19	1.1	59	3.3	136	7.7
360.0	1	.1	4	.2	27	1.5	24	1.4	16	.9	20	1.1	92	5.2
	22	1.2	140	7.9	409	23.2	622	35.2	476	25.6	297	16.8	1766	100.0

MISSING HOURS 442

MEAN WIND SPEED 16.3

TOTAL NUMBER OF UNINTERPRETABLE HOURS 0

TOTAL NUMBER OF CALM HOURS 0 PERCENT 0.0

APPENDIX B-3

METEOROLOGICAL DATA  
FOR BATCH RELEASES



COOK GENERATING STATION

MINUTE	HOUR	DIR	SP	DIR	SP	150FT	SPAN	G	UIN	SP	TEMPERATURE	30FT	1MU-3U	TEMP	DELTA	HOUR	DATE
5UFT						BEACHPOLE											
1	100	7	95	14	0	4	0	0	0	0	57	4.4				1	7/ 1/79
2	100	7	100	14	0	4	0	0	0	0	56	5.0				2	
3	105	8	100	16	0	4	0	0	0	0	56	6.4				3	
4	110	8	115	15	0	4	0	0	0	0	55	9.0				4	
5	120	7	130	14	0	4	0	0	0	0	54	8.0				5	
6	115	7	145	14	0	4	0	0	0	0	52	999.7				6	
7	125	7	150	14	0	4	0	0	0	0	54	4.4				7	
8	120	5	999	10	0	9	0	0	0	0	60	5.0				8	
9	130	4	999	8	0	9	0	0	0	0	67	2.2				9	
10	150	3	999	6	0	9	0	0	0	0	73	2.6				10	
11	205	3	999	4	0	9	0	0	0	0	73	4.0				11	
12	330	5	999	7	0	9	0	0	0	0	71	1.4				12	
13	330	6	999	10	0	9	0	0	0	0	70	4.0				13	
14	10	5	999	8	0	9	0	0	0	0	72	3.4				14	
15	25	8	999	11	0	9	0	0	0	0	72	2.4				15	
16	20	6	999	10	0	9	0	0	0	0	73	2.0				16	
17	20	7	999	12	0	9	0	0	0	0	69	2.4				17	
18	30	7	999	12	0	9	0	0	0	0	69	3.4				18	
19	60	4	999	7	0	9	0	0	0	0	71	1.0				19	
20	60	4	80	8	0	2	0	0	0	0	72	3.0				20	
21	100	6	120	10	0	4	0	0	0	0	69	5.4				21	
22	110	9	125	14	0	4	0	0	0	0	66	6.0				22	
23	120	7	140	14	0	4	0	0	0	0	66	5.8				23	
24	140	7	155	16	0	4	0	0	0	0	65	6.0				24	
1	150	8	160	16	0	4	0	0	0	0	64	7.0				1	7/ 0/79
2	130	9	160	14	0	4	0	0	0	0	63	5.2				2	
3	125	7	155	14	0	4	0	0	0	0	63	4.4				3	
4	125	8	150	14	0	3	0	0	0	0	62	4.0				4	
5	120	7	145	12	0	3	0	0	0	0	62	3.0				5	
6	120	7	140	12	0	4	0	0	0	0	62	2.8				6	
7	120	6	140	12	0	4	0	0	0	0	62	3.0				7	
8	120	8	140	11	0	3	0	0	0	0	63	2.2				8	
9	120	6	140	9	0	2	0	0	0	0	66	1.0				9	
10	120	7	140	9	0	2	0	0	0	0	67	2.0				10	
11	130	6	999	9	0	9	0	0	0	0	75	2.0				11	
12	120	6	140	6	0	2	0	0	0	0	75	3.0				12	
13	150	6	140	9	0	2	0	0	0	0	78	3.0				13	
14	140	5	150	10	0	2	0	0	0	0	78	2.8				14	
15	300	3	999	6	0	9	0	0	0	0	75	5.0				15	
16	300	4	120	7	0	2	0	0	0	0	75	3.2				16	
17	270	3	70	6	0	2	0	0	0	0	75	3.0				17	
18	315	3	10	5	0	2	0	0	0	0	75	1.0				18	
19	340	3	60	5	0	2	0	0	0	0	74	3.0				19	
20	70	3	40	5	0	4	0	0	0	0	73	1.2				20	
21	100	3	115	6	0	3	0	0	0	0	73	1.0				21	
22	125	3	140	11	0	3	0	0	0	0	73	2.0				22	
23	160	3	999	10	0	9	0	0	0	0	70	2				23	
24	210	3	999	8	0	9	0	0	0	0	69	0.0				24	



COOK GENERATING STATION

WIND		DIRK		DIR		SP		150FT		BEACHPOLE		TEMPERATURE		DATE	
SP	SOFT	SP	DIRK	SP	DIR	SP	DIR	SPAN	G	UIN	SP	30FT	180-30	HOOR	7/ 9/79
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
210	4	180	9	0	3	0	0	0	0	0	0	60	1.2	1	7/ 9/79
150	4	150	8	0	3	0	0	0	0	0	0	66	1.0	2	
100	4	110	8	0	2	0	0	0	0	0	0	66	2.0	3	
60	3	70	6	0	2	0	0	0	0	0	0	64	1.0	4	
90	6	85	12	0	3	0	0	0	0	0	0	65	1.0	5	
100	6	90	12	0	3	0	0	0	0	0	0	63	1.2	6	
90	6	80	11	0	3	0	0	0	0	0	0	63	1.0	7	
75	6	75	10	0	3	0	0	0	0	0	0	66	1.2	8	
90	6	90	10	0	2	0	0	0	0	0	0	69	1.0	9	
90	6	80	9	0	2	0	0	0	0	0	0	72	1.2	10	
550	5	990	10	0	9	0	0	0	0	0	0	72	2.0	11	
350	7	13	11	0	3	0	0	0	0	0	0	67	3.4	12	
999	10	20	15	0	3	0	0	0	0	0	0	69	1.6	13	
999	10	20	15	0	3	0	0	0	0	0	0	69	2.0	14	
999	10	25	16	0	3	0	0	0	0	0	0	69	1.4	15	
20	9	20	14	0	3	0	0	0	0	0	0	69	1.4	16	
20	4	20	10	0	3	0	0	0	0	0	0	69	1.2	17	
20	4	20	12	0	3	0	0	0	0	0	0	69	1.0	18	
20	7	30	12	0	3	0	0	0	0	0	0	69	1.2	19	
60	6	60	10	0	3	0	0	0	0	0	0	66	1.0	20	
60	6	70	10	0	2	0	0	0	0	0	0	66	1.4	21	
105	6	65	10	0	4	0	0	0	0	0	0	66	1.0	22	
110	4	90	4	0	4	0	0	0	0	0	0	66	1.0	23	
285	3	360	4	0	2	0	0	0	0	0	0	63	2.0	24	
255	3	360	2	0	4	0	0	0	0	0	0	65	1.0	1	7/10/79
250	4	250	4	0	4	0	0	0	0	0	0	65	1.4	2	
285	6	250	4	0	4	0	0	0	0	0	0	63	3.2	3	
250	4	260	7	0	4	0	0	0	0	0	0	63	3.2	4	
260	5	265	7	0	3	0	0	0	0	0	0	63	1.4	5	
270	4	265	6	0	3	0	0	0	0	0	0	63	1.6	6	
260	5	280	9	0	2	0	0	0	0	0	0	63	1.4	7	
260	3	270	9	0	2	0	0	0	0	0	0	65	1.0	8	
240	5	265	7	0	2	0	0	0	0	0	0	69	1.0	9	
255	4	270	6	0	2	0	0	0	0	0	0	69	1.0	10	
250	5	260	8	0	2	0	0	0	0	0	0	72	1.4	11	
250	8	250	9	0	2	0	0	0	0	0	0	72	0.0	12	
245	7	255	10	0	2	0	0	0	0	0	0	74	1.4	13	
260	4	270	12	0	2	0	0	0	0	0	0	75	1.2	14	
250	6	265	9	0	2	0	0	0	0	0	0	77	1.2	15	
250	6	260	8	0	2	0	0	0	0	0	0	78	0.0	16	
250	6	260	8	0	2	0	0	0	0	0	0	60	1.0	17	
255	4	270	5	0	2	0	0	0	0	0	0	81	3.0	18	
290	2	360	2	0	4	0	0	0	0	0	0	79	3.4	19	
220	3	999	6	0	9	0	0	0	0	0	0	78	1.8	20	
210	4	999	10	0	9	0	0	0	0	0	0	78	1.0	21	
220	6	999	12	0	9	0	0	0	0	0	0	78	1.4	22	
225	8	230	15	0	3	0	0	0	0	0	0	77	1.4	23	
250	10	240	16	0	3	0	0	0	0	0	0	75	1.0	24	

COOK GENERATING STATION

HOUR	DIR	SP	50FT	DIR	SP	150FT	SPAN	5	DIR	SP	50FT	TEMP DELTA I	HOUR	DATE	TEMP DELTA I
1	230	7	235	14	0	3	0	3	0	0	0	75	1	7/11/79	75
2	230	7	240	15	0	3	0	3	0	0	0	75	2		75
3	270	4	999	7	0	9	0	9	0	0	0	69	3		69
4	240	5	999	9	0	9	0	9	0	0	0	71	4		71
5	200	4	999	10	0	9	0	9	0	0	0	70	5		70
6	210	4	999	11	0	9	0	9	0	0	0	69	6		69
7	220	5	240	12	0	3	0	3	0	0	0	69	7		69
8	225	5	235	12	0	3	0	3	0	0	0	72	8		72
9	235	6	245	12	0	3	0	3	0	0	0	73	9		73
10	240	8	260	11	0	2	0	2	0	0	0	74	10		74
11	240	7	255	11	0	2	0	2	0	0	0	75	11		75
12	255	6	260	8	0	2	0	2	0	0	0	78	12		78
13	250	5	280	7	0	2	0	2	0	0	0	76	13		76
14	260	5	280	6	0	2	0	2	0	0	0	76	14		76
15	290	4	300	6	0	2	0	2	0	0	0	79	15		79
16	290	4	310	7	0	2	0	2	0	0	0	78	16		78
17	300	4	300	6	0	2	0	2	0	0	0	61	17		61
18	309	2	999	9	0	9	0	9	0	0	0	61	18		61
19	330	2	999	3	0	9	0	9	0	0	0	64	19		64
20	315	1	999	2	0	9	0	9	0	0	0	61	20		61
21	120	4	999	7	0	9	0	9	0	0	0	76	21		76
22	100	4	999	10	0	9	0	9	0	0	0	77	22		77
23	190	4	210	12	0	3	0	3	0	0	0	75	23		75
24	100	4	220	10	0	3	0	3	0	0	0	75	24		75
1	140	4	200	10	0	3	0	3	0	0	0	70	1	7/11/79	70
2	135	5	200	11	0	4	0	4	0	0	0	69	2		69
3	140	5	190	12	0	4	0	4	0	0	0	69	3		69
4	145	5	180	14	0	4	0	4	0	0	0	66	4		66
5	145	6	190	14	0	4	0	4	0	0	0	66	5		66
6	150	6	190	14	0	4	0	4	0	0	0	66	6		66
7	170	4	200	14	0	3	0	3	0	0	0	67	7		67
8	190	3	220	9	0	2	0	2	0	0	0	71	8		71
9	240	4	260	6	0	2	0	2	0	0	0	74	9		74
10	290	2	350	4	0	2	0	2	0	0	0	75	10		75
11	310	3	360	4	0	2	0	2	0	0	0	77	11		77
12	330	5	360	8	0	2	0	2	0	0	0	76	12		76
13	320	5	30	6	0	2	0	2	0	0	0	79	13		79
14	330	6	360	10	0	2	0	2	0	0	0	78	14		78
15	30	7	30	9	0	2	0	2	0	0	0	78	15		78
16	25	6	30	10	0	3	0	3	0	0	0	60	16		60
17	30	7	30	12	0	3	0	3	0	0	0	76	17		76
18	35	6	30	6	0	3	0	3	0	0	0	77	18		77
19	999	3	40	7	0	2	0	2	0	0	0	77	19		77
20	60	4	70	6	0	2	0	2	0	0	0	77	20		77
21	30	5	50	9	0	2	0	2	0	0	0	75	21		75
22	70	6	70	10	0	4	0	4	0	0	0	75	22		75
23	75	6	70	10	0	4	0	4	0	0	0	72	23		72
24	70	7	70	13	0	3	0	3	0	0	0	72	24		72

COOK GENERATING STATION

HOUR	DIR	SP	DIR	SP	DIR	SP	DIR	SP	DIR	SP	DIR	SP	TEMP	TEMP	DATE	HOUR							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
85	100	100	70	99	360	300	499	270	270	260	260	260	72	2.0	7/15/79	1							
100	100	100	70	99	360	300	499	270	270	260	260	260	72	2.0	7/15/79	2							
100	100	100	70	99	360	300	499	270	270	260	260	260	72	2.0	7/15/79	3							
100	100	100	70	99	360	300	499	270	270	260	260	260	72	2.0	7/15/79	4							
100	100	100	70	99	360	300	499	270	270	260	260	260	72	2.0	7/15/79	5							
100	100	100	70	99	360	300	499	270	270	260	260	260	72	2.0	7/15/79	6							
100	100	100	70	99	360	300	499	270	270	260	260	260	72	2.0	7/15/79	7							
100	100	100	70	99	360	300	499	270	270	260	260	260	72	2.0	7/15/79	8							
100	100	100	70	99	360	300	499	270	270	260	260	260	72	2.0	7/15/79	9							
100	100	100	70	99	360	300	499	270	270	260	260	260	72	2.0	7/15/79	10							
100	100	100	70	99	360	300	499	270	270	260	260	260	72	2.0	7/15/79	11							
100	100	100	70	99	360	300	499	270	270	260	260	260	72	2.0	7/15/79	12							
100	100	100	70	99	360	300	499	270	270	260	260	260	72	2.0	7/15/79	13							
100	100	100	70	99	360	300	499	270	270	260	260	260	72	2.0	7/15/79	14							
100	100	100	70	99	360	300	499	270	270	260	260	260	72	2.0	7/15/79	15							
100	100	100	70	99	360	300	499	270	270	260	260	260	72	2.0	7/15/79	16							
100	100	100	70	99	360	300	499	270	270	260	260	260	72	2.0	7/15/79	17							
100	100	100	70	99	360	300	499	270	270	260	260	260	72	2.0	7/15/79	18							
100	100	100	70	99	360	300	499	270	270	260	260	260	72	2.0	7/15/79	19							
100	100	100	70	99	360	300	499	270	270	260	260	260	72	2.0	7/15/79	20							
100	100	100	70	99	360	300	499	270	270	260	260	260	72	2.0	7/15/79	21							
100	100	100	70	99	360	300	499	270	270	260	260	260	72	2.0	7/15/79	22							
100	100	100	70	99	360	300	499	270	270	260	260	260	72	2.0	7/15/79	23							
100	100	100	70	99	360	300	499	270	270	260	260	260	72	2.0	7/15/79	24							

CORK GENERATING STATION

DATE	TIME	WIND DIR	WIND SP	SOFT DIR	SOFT SP	DIR	SP	DIR	SP	ISFT	SPAN	G	DIR	SP	BLAC	POLE	TEMP 100-50	TEMP DELTA	HOUR
7/15/79	1	270	4	300	7	300	7	300	7	0	2	0	0	0	0	0	70	0.0	1
	2	280	4	300	5	300	5	300	5	0	2	0	0	0	0	0	69	.4	2
	3	250	5	285	7	285	7	285	7	0	2	0	0	0	0	0	69	.4	3
	4	250	4	300	6	300	6	300	6	0	2	0	0	0	0	0	69	0.0	4
	5	255	6	290	7	290	7	290	7	0	2	0	0	0	0	0	69	.2	5
	6	270	6	300	9	300	9	300	9	0	2	0	0	0	0	0	69	0.0	6
	7	300	6	335	10	335	10	335	10	0	2	0	0	0	0	0	69	-.4	7
	8	260	6	300	6	300	6	300	6	0	2	0	0	0	0	0	67	-.4	8
	9	260	7	280	10	280	10	280	10	0	2	0	0	0	0	0	67	-.4	9
	10	265	6	275	8	275	8	275	8	0	2	0	0	0	0	0	68	-.4	10
	11	270	6	290	8	290	8	290	8	0	2	0	0	0	0	0	68	-.4	11
	12	260	6	285	8	285	8	285	8	0	2	0	0	0	0	0	69	-.4	12
	13	300	3	320	9	320	9	320	9	0	2	0	0	0	0	0	75	4.0	13
	14	280	4	300	6	300	6	300	6	0	2	0	0	0	0	0	69	0.0	14
	15	280	5	320	8	320	8	320	8	0	2	0	0	0	0	0	75	.4	15
	16	285	4	330	6	330	6	330	6	0	2	0	0	0	0	0	75	0.0	16
	17	285	4	300	7	300	7	300	7	0	2	0	0	0	0	0	70	-.4	17
	18	300	4	330	6	330	6	330	6	0	2	0	0	0	0	0	81	1.0	18
	19	330	3	360	5	360	5	360	5	0	2	0	0	0	0	0	81	2.0	19
	20	330	2	10	4	10	4	10	4	0	2	0	0	0	0	0	80	3.0	20
	21	310	2	10	3	10	3	10	3	0	4	0	0	0	0	0	78	-.4	21
	22	210	1	260	1	260	1	260	1	0	4	0	0	0	0	0	78	-2.0	22
	23	245	2	290	3	290	3	290	3	0	4	0	0	0	0	0	78	-1.0	23
	24	250	4	280	5	280	5	280	5	0	4	0	0	0	0	0	77	1.4	24
7/16/79	1	240	6	265	10	265	10	265	10	4	4	0	0	0	0	0	74	2.0	1
	2	240	7	240	13	240	13	240	13	4	4	0	0	0	0	0	73	2.0	2
	3	260	6	240	13	240	13	240	13	5	5	0	0	0	0	0	72	2.0	3
	4	300	6	330	12	330	12	330	12	5	5	0	0	0	0	0	71	.2	4
	5	300	6	10	11	40	3	40	3	0	0	0	0	0	0	0	69	2.0	5
	6	20	6	30	14	40	3	40	3	0	0	0	0	0	0	0	69	1.0	6
	7	10	6	25	14	70	2	70	2	0	0	0	0	0	0	0	69	1.2	7
	8	20	6	30	10	60	2	60	2	0	0	0	0	0	0	0	68	.4	8
	9	330	6	360	9	60	2	60	2	0	0	0	0	0	0	0	69	2.0	9
	10	300	7	335	10	50	2	50	2	0	0	0	0	0	0	0	69	-.6	10
	11	300	10	10	14	80	2	80	2	0	0	0	0	0	0	0	69	2.0	11
	12	300	6	15	14	110	2	110	2	0	0	0	0	0	0	0	70	1.0	12
	13	300	5	15	14	110	3	110	3	0	0	0	0	0	0	0	69	.6	13
	14	15	10	15	16	110	3	110	3	0	0	0	0	0	0	0	69	1.0	14
	15	20	12	15	15	100	3	100	3	0	0	0	0	0	0	0	66	0.0	15
	16	20	13	20	16	40	3	40	3	0	0	0	0	0	0	0	66	0.0	16
	17	20	14	25	20	70	3	70	3	0	0	0	0	0	0	0	66	-.4	17
	18	20	14	25	20	70	3	70	3	0	0	0	0	0	0	0	64	-.6	18
	19	30	16	25	20	70	3	70	3	0	0	0	0	0	0	0	63	-.4	19
	20	20	13	25	19	70	3	70	3	0	0	0	0	0	0	0	65	.4	20
	21	25	12	25	18	70	3	70	3	0	0	0	0	0	0	0	60	.6	21
	22	25	12	25	18	70	3	70	3	0	0	0	0	0	0	0	60	0.0	22
	23	30	9	25	14	70	3	70	3	0	0	0	0	0	0	0	60	.2	23
	24	20	7	15	12	70	3	70	3	0	0	0	0	0	0	0	59	1.0	24



COOK GENERATING STATION

HOOR	DIR	SP	DIR	SP	DIR	SP	DIR	SP	DIR	SP	DIR	SP	TEMPERATURE 30FT 180-30 TEMP DELTA (	HOOR	DATE
1	110	7	130	11	10	4	0	0	0	0	0	0	4.2	1	10/24/79
2	110	7	125	12	10	4	0	0	0	0	0	0	4.0	2	
3	110	8	125	12	10	4	0	0	0	0	0	0	4.2	3	
4	115	8	140	12	10	4	0	0	0	0	0	0	4.6	4	
5	110	8	135	13	5	4	0	0	0	0	0	0	4.6	5	
6	120	9	145	14	10	4	0	0	0	0	0	0	4.0	6	
7	130	9	150	15	10	4	0	0	0	0	0	0	4.0	7	
8	135	10	150	16	10	4	0	0	0	0	0	0	3.6	8	
9	130	10	150	14	30	3	0	0	0	0	0	0	2.2	9	
10	130	10	150	13	30	3	0	0	0	0	0	0	1.8	10	
11	120	8	145	10	40	2	0	0	0	0	0	0	2.0	11	
12	125	6	145	9	40	2	0	0	0	0	0	0	2.2	12	
13	125	6	155	7	50	2	0	0	0	0	0	0	2.0	13	
14	120	5	145	6	60	2	0	0	0	0	0	0	2.6	14	
15	315	3	315	1	100	2	0	0	0	0	0	0	3.0	15	
16	360	3	335	1	80	2	0	0	0	0	0	0	2.8	16	
17	40	2	110	1	50	2	0	0	0	0	0	0	4.4	17	
18	90	4	125	5	20	2	0	0	0	0	0	0	4.2	18	
19	130	7	135	10	5	4	0	0	0	0	0	0	4.0	19	
20	125	8	135	14	10	4	0	0	0	0	0	0	4.6	20	
21	130	9	140	14	10	4	0	0	0	0	0	0	4.0	21	
22	130	9	145	15	20	3	0	0	0	0	0	0	3.0	22	
23	125	10	145	15	15	3	0	0	0	0	0	0	2.6	23	
24	130	9	150	15	10	3	0	0	0	0	0	0	2.6	24	
1	135	10	155	16	20	3	0	0	0	0	0	0	2.8	1	10/30/79
2	130	10	155	16	20	3	0	0	0	0	0	0	2.4	2	
3	130	10	155	16	20	3	0	0	0	0	0	0	2.2	3	
4	125	12	145	17	20	3	0	0	0	0	0	0	2.0	4	
5	125	12	145	17	20	3	0	0	0	0	0	0	1.8	5	
6	125	12	145	17	20	3	0	0	0	0	0	0	2.2	6	
7	125	12	145	17	20	3	0	0	0	0	0	0	1.8	7	
8	125	13	145	19	25	3	0	0	0	0	0	0	1.8	8	
9	120	13	150	19	20	3	0	0	0	0	0	0	1.8	9	
10	130	14	999	99	999	9	0	0	0	0	0	0	1.8	10	
11	130	15	999	99	999	9	0	0	0	0	0	0	1.8	11	
12	125	16	999	99	999	9	0	0	0	0	0	0	1.0	12	
13	125	16	999	99	999	9	0	0	0	0	0	0	1.0	13	
14	130	16	110	20	40	2	0	0	0	0	0	0	1.8	14	
15	130	15	115	19	40	2	0	0	0	0	0	0	1.2	15	
16	125	16	110	20	30	2	0	0	0	0	0	0	1.4	16	
17	120	16	105	22	30	2	0	0	0	0	0	0	1.4	17	
18	120	12	115	16	30	3	0	0	0	0	0	0	1.2	18	
19	120	13	105	18	30	3	0	0	0	0	0	0	1.6	19	
20	120	15	110	20	30	3	0	0	0	0	0	0	1.8	20	
21	120	16	110	21	30	3	0	0	0	0	0	0	1.8	21	
22	125	16	120	23	30	3	0	0	0	0	0	0	1.4	22	
23	125	15	120	22	30	3	0	0	0	0	0	0	1.4	23	
24	125	15	115	20	20	3	0	0	0	0	0	0	1.4	24	

COOK GENERATING STATION

HOUR	DIR	SP	DIR	SP	DIR	SP	DIR	SP	DIR	SP	DIR	SP	TEMP DELIA F	HOUR	TEMP DELIA F
1	225	13	205	20	60	3	0	0	9999	-1.4	1	9999	11/ 1/79	1	9999
2	210	10	185	14	60	3	0	0	9999	-1.0	2	9999		2	9999
3	240	10	220	15	50	3	0	0	9999	-1.2	3	9999		3	9999
4	210	8	190	15	50	3	0	0	9999	0.0	4	9999		4	9999
5	210	8	195	15	50	3	0	0	9999	-1.2	5	9999		5	9999
6	210	8	165	15	50	3	0	0	9999	-1.4	6	9999		6	9999
7	225	12	205	17	60	3	0	0	9999	-1.6	7	9999		7	9999
8	225	12	200	18	60	3	0	0	9999	-1.6	8	9999		8	9999
9	230	15	210	20	70	3	0	0	9999	-1.6	9	9999		9	9999
10	235	15	215	20	60	3	0	0	9999	-1.0	10	9999		10	9999
11	240	19	225	26	60	3	0	0	9999	-1.0	11	9999		11	9999
12	240	20	225	26	60	3	0	0	9999	-1.0	12	9999		12	9999
13	240	10	220	22	70	3	0	0	9999	-1.0	13	9999		13	9999
14	245	18	225	26	70	3	0	0	9999	-1.0	14	9999		14	9999
15	245	20	225	30	60	3	0	0	9999	-1.0	15	9999		15	9999
16	250	20	225	26	60	3	0	0	9999	-1.0	16	9999		16	9999
17	260	23	245	32	40	2	0	0	9999	-1.0	17	9999		17	9999
18	270	22	250	30	50	2	0	0	9999	-1.0	18	9999		18	9999
19	260	20	245	29	60	2	0	0	9999	-1.0	19	9999		19	9999
20	270	28	260	34	30	2	0	0	9999	-1.2	20	9999		20	9999
21	275	26	260	30	40	2	0	0	9999	-1.2	21	9999		21	9999
22	275	24	255	30	20	2	0	0	9999	-1.2	22	9999		22	9999
23	265	20	245	26	50	2	0	0	9999	-1.2	23	9999		23	9999
24	260	25	255	28	50	2	0	0	9999	-1.0	24	9999		24	9999
1	260	24	265	30	40	2	0	0	9999	-1.0	1	9999	11/ 8/79	1	9999
2	280	24	260	30	30	2	0	0	9999	-1.0	2	9999		2	9999
3	280	20	270	23	70	2	0	0	9999	-1.0	3	9999		3	9999
4	280	20	260	24	40	2	0	0	9999	-1.0	4	9999		4	9999
5	280	20	265	24	50	2	0	0	9999	-1.0	5	9999		5	9999
6	285	16	275	20	60	2	0	0	9999	-1.0	6	9999		6	9999
7	260	16	265	20	50	2	0	0	9999	-1.0	7	9999		7	9999
8	260	16	275	18	60	2	0	0	9999	-1.0	8	9999		8	9999
9	265	15	265	17	70	2	0	0	9999	-1.0	9	9999		9	9999
10	265	15	270	16	70	2	0	0	9999	-1.2	10	9999		10	9999
11	290	12	275	15	60	2	0	0	9999	-1.4	11	9999		11	9999
12	270	11	270	14	60	2	0	0	9999	-1.4	12	9999		12	9999
13	270	11	255	13	50	2	0	0	9999	-1.4	13	9999		13	9999
14	270	11	260	14	60	2	0	0	9999	-1.4	14	9999		14	9999
15	270	12	255	15	40	2	0	0	9999	-1.6	15	9999		15	9999
16	270	12	250	15	50	2	0	0	9999	-1.4	16	9999		16	9999
17	270	12	255	15	30	2	0	0	9999	-1.0	17	9999		17	9999
18	270	12	260	15	40	2	0	0	9999	-1.0	18	9999		18	9999
19	275	13	255	15	40	2	0	0	9999	-1.0	19	9999		19	9999
20	270	10	245	14	60	2	0	0	9999	-1.0	20	9999		20	9999
21	235	8	200	14	30	3	0	0	9999	1.6	21	9999		21	9999
22	235	8	215	14	50	3	0	0	9999	1.0	22	9999		22	9999
23	215	8	210	15	40	3	0	0	9999	2.0	23	9999		23	9999
24	215	8	215	14	30	3	0	0	9999	2.0	24	9999		24	9999





COOK GENERATING STATION

HOUR	WIND*****				150FT BEACHPOLE				TEMPERATURE		HOUR	DATE
	DIR	SP	DIR	SP	SPAN	G	DIR	SP	30FT TEMP	150-30 DELTA T		
1	150	7	155	15	20	3	0	0	9999	4.0	1	11/ 3/79
2	150	7	155	15	20	3	0	0	9999	3.8	2	
3	140	6	145	14	40	3	0	0	9999	3.6	3	
4	145	6	155	14	20	3	0	0	9999	3.4	4	
5	150	7	155	16	20	3	0	0	9999	3.2	5	
6	150	6	155	14	40	3	0	0	9999	3.2	6	
7	155	8	155	16	30	3	0	0	9999	2.8	7	
8	155	8	160	16	40	3	0	0	9999	1.6	8	
9	155	7	160	15	50	3	0	0	9999	1.4	9	
10	175	7	165	14	70	2	0	0	9999	.6	10	
11	200	5	175	10	70	2	0	0	9999	.8	11	
12	195	6	999	10	999	9	0	0	9999	.8	12	
13	200	6	999	10	999	9	0	0	9999	.8	13	
14	180	5	170	8	80	2	0	0	9999	0.0	14	
15	150	6	155	10	60	2	0	0	9999	1.8	15	
16	145	8	140	13	40	2	0	0	9999	1.6	16	
17	125	8	115	12	40	2	0	0	9999	1.8	17	
18	120	8	110	12	30	3	0	0	9999	2.2	18	
19	130	7	125	11	20	3	0	0	9999	3.8	19	
20	130	7	125	12	20	3	0	0	9999	3.4	20	
21	135	7	135	13	20	3	0	0	9999	3.6	21	
22	120	5	125	9	40	2	0	0	9999	2.4	22	
23	135	6	130	10	30	2	0	0	9999	3.6	23	
24	145	6	150	13	30	3	0	0	9999	4.0	24	
1	135	6	160	12	50	3	0	0	9999	1.6	1	11/ 4/79
2	150	7	145	13	40	3	0	0	9999	2.4	2	
3	160	6	160	13	50	3	0	0	9999	1.4	3	
4	165	6	165	12	40	3	0	0	9999	.4	4	
5	180	5	180	10	40	3	0	0	9999	.2	5	
6	190	4	165	10	40	3	0	0	9999	.4	6	
7	210	4	195	9	30	3	0	0	9999	.2	7	
8	240	6	215	9	40	3	0	0	9999	.2	8	
9	260	8	245	13	20	3	0	0	9999	.8	9	
10	350	11	340	16	50	3	0	0	9999	2.0	10	
11	355	14	345	24	50	3	0	0	9999	.8	11	
12	350	18	345	26	40	3	0	0	9999	.6	12	
13	350	25	335	34	40	3	0	0	9999	.8	13	
14	355	23	345	33	50	3	0	0	9999	.8	14	
15	360	22	345	31	40	3	0	0	9999	.4	15	
16	355	22	345	30	40	3	0	0	9999	.6	16	
17	350	23	345	30	40	3	0	0	9999	.8	17	
18	350	22	335	30	40	3	0	0	9999	.4	18	
19	350	20	335	29	40	2	0	0	9999	.6	19	
20	345	18	330	26	50	2	0	0	9999	.6	20	
21	340	17	330	25	50	2	0	0	9999	.4	21	
22	330	16	325	24	40	2	0	0	9999	.4	22	
23	330	12	325	16	50	2	0	0	9999	.4	23	
24	340	14	335	19	50	2	0	0	9999	.8	24	

COOK GENERATING STATION

HOUR	DIR	SP	DIR	SP	DIR	SP	DIR	SP	DIR	SP	DIR	SP	TEMP	DELTA T	HOUR	DATE
1	330	12	320	16	50	2	0	0	0	0	0	0	9999	7.8	1	11/ 7/79
2	350	10	320	15	40	2	0	0	0	0	0	0	9999	7.8	2	
3	330	11	320	14	50	2	0	0	0	0	0	0	9999	7.8	3	
4	315	12	305	14	60	2	0	0	0	0	0	0	9999	-1.0	4	
5	305	10	295	14	50	2	0	0	0	0	0	0	9999	-1.0	5	
6	315	9	290	12	40	2	0	0	0	0	0	0	9999	-1.0	6	
7	315	7	295	10	50	2	0	0	0	0	0	0	9999	-1.0	7	
8	290	6	275	10	70	2	0	0	0	0	0	0	9599	-1.0	8	
9	300	7	275	10	70	2	0	0	0	0	0	0	9999	-1.0	9	
10	290	8	215	10	60	2	0	0	0	0	0	0	9999	-1.0	10	
11	255	12	220	16	70	2	0	0	0	0	0	0	9999	-1.0	11	
12	255	12	235	16	40	2	0	0	0	0	0	0	9999	-1.2	12	
13	260	10	240	13	50	2	0	0	0	0	0	0	9999	-1.4	13	
14	270	9	245	11	60	2	0	0	0	0	0	0	9999	-1.4	14	
15	260	10	245	12	60	2	0	0	0	0	0	0	9999	-1.6	15	
16	260	16	235	10	40	2	0	0	0	0	0	0	9999	-1.6	16	
17	210	6	165	10	60	2	0	0	0	0	0	0	9999	-1.8	17	
18	220	6	195	10	40	3	0	0	0	0	0	0	9999	-1.8	18	
19	205	5	190	11	30	3	0	0	0	0	0	0	9999	-1.4	19	
20	195	6	180	13	40	3	0	0	0	0	0	0	9999	-1.6	20	
21	205	7	165	15	60	3	0	0	0	0	0	0	9999	-1.4	21	
22	210	7	165	14	60	3	0	0	0	0	0	0	9999	-1.8	22	
23	225	9	195	14	50	3	0	0	0	0	0	0	9999	-1.8	23	
24	225	12	200	16	50	3	0	0	0	0	0	0	9999	-1.8	24	
1	230	13	205	16	60	3	0	0	0	0	0	0	9999	-1.8	1	11/ 9/79
2	225	10	999	16	999	9	0	0	0	0	0	0	9999	-1.8	2	
3	225	11	999	16	999	9	0	0	0	0	0	0	9999	-1.8	3	
4	240	12	999	18	999	9	0	0	0	0	0	0	9999	-1.8	4	
5	240	15	999	20	999	9	0	0	0	0	0	0	9999	-1.8	5	
6	235	16	999	24	999	9	0	0	0	0	0	0	9999	-1.8	6	
7	270	22	245	30	40	2	0	0	0	0	0	0	9999	-1.0	7	
8	260	26	255	32	30	2	0	0	0	0	0	0	9999	-1.2	8	
9	260	24	255	30	30	2	0	0	0	0	0	0	9999	-1.2	9	
10	295	20	265	26	50	2	0	0	0	0	0	0	9999	-1.0	10	
11	300	20	265	26	30	2	0	0	0	0	0	0	9999	-1.0	11	
12	300	14	315	20	40	2	0	0	0	0	0	0	9999	-1.4	12	
13	330	13	320	18	50	2	0	0	0	0	0	0	9999	-1.4	13	
14	320	12	315	16	40	2	0	0	0	0	0	0	9999	-1.0	14	
15	315	11	305	15	50	2	0	0	0	0	0	0	9999	-1.2	15	
16	315	11	305	12	50	2	0	0	0	0	0	0	9999	-1.2	16	
17	300	6	320	12	50	2	0	0	0	0	0	0	9999	-1.2	17	
18	120	3	340	4	70	2	0	0	0	0	0	0	9999	-1.8	18	
19	120	4	65	5	20	4	0	0	0	0	0	0	9999	-1.6	19	
20	125	9	105	6	15	4	0	0	0	0	0	0	9999	-1.6	20	
21	140	7	110	9	25	4	0	0	0	0	0	0	9999	4.0	21	
22	140	7	110	12	15	4	0	0	0	0	0	0	9999	4.0	22	
23	135	7	120	13	10	4	0	0	0	0	0	0	9999	4.0	23	
24	130	7	120	13	10	4	0	0	0	0	0	0	9999	4.0	24	

COOK GENERATING STATION

HOUR	DIR	SP	DIR	SP	SPAN	G	DIR	SP	SOFT	BEACHPOLE	TEMP	DELTA	HOUR	DATE
1	130	6	120	13	10	4	0	0	9999	3.0	1	11/ 4/79		
2	125	9	115	14	10	4	0	0	9999	3.6	2			
3	130	9	120	14	15	3	0	0	9999	3.0	3			
4	120	6	110	13	10	3	0	0	9999	3.4	4			
5	120	9	115	13	20	3	0	0	9999	3.2	5			
6	110	8	105	12	15	3	0	0	9999	3.4	6			
7	105	6	95	13	20	3	0	0	9999	2.6	7			
8	105	10	85	14	30	3	0	0	9999	1.0	8			
9	110	10	95	14	20	3	0	0	9999	1.2	9			
10	110	10	95	14	20	3	0	0	9999	1.0	10			
11	110	11	95	15	30	3	0	0	9999	.8	11			
12	110	10	95	13	40	3	0	0	9999	.8	12			
13	105	9	90	12	40	3	0	0	9999	.6	13			
14	105	8	85	10	40	2	0	0	9999	.2	14			
15	105	7	85	10	40	2	0	0	9999	.4	15			
16	90	6	75	9	30	2	0	0	9999	.5	16			
17	60	5	50	6	50	2	0	0	9999	.8	17			
18	60	3	35	5	40	2	0	0	9999	.8	18			
19	70	3	45	4	20	2	0	0	9999	.6	19			
20	80	3	45	5	30	2	0	0	9999	.6	20			
21	90	4	55	6	30	2	0	0	9999	.5	21			
22	95	5	70	6	30	3	0	0	9999	.5	22			
23	90	5	65	7	30	3	0	0	9999	.5	23			
24	90	5	65	7	20	3	0	0	9999	.5	24			
1	75	5	45	6	30	3	0	0	9999	.6	1	11/10/79		
2	90	5	60	7	30	2	0	0	9999	-1.0	2			
3	90	4	65	6	60	2	0	0	9999	.8	3			
4	100	5	65	7	20	2	0	0	9999	.4	4			
5	100	5	70	8	30	2	0	0	9999	.6	5			
6	65	5	40	6	50	2	0	0	9999	.6	6			
7	90	7	70	10	10	4	0	0	9999	-1.0	7			
8	105	6	80	8	10	4	0	0	9999	.4	8			
9	110	1	80	3	5	4	0	0	9999	0.0	9			
10	180	1	40	2	5	4	0	0	9999	.2	10			
11	210	2	170	3	30	2	0	0	9999	0.0	11			
12	320	4	305	5	110	2	0	0	9999	.4	12			
13	325	14	315	20	40	2	0	0	9999	0.0	13			
14	325	15	315	20	40	2	0	0	9999	-1.2	14			
15	330	13	320	16	40	2	0	0	9999	-1.2	15			
16	320	14	315	14	30	2	0	0	9999	-1.2	16			
17	320	13	320	16	30	2	0	0	9999	-1.2	17			
18	315	15	305	19	20	2	0	0	9999	-1.2	18			
19	310	12	305	17	30	2	0	0	9999	-1.2	19			
20	310	12	305	17	25	2	0	0	9999	-1.2	20			
21	315	12	305	15	30	2	0	0	9999	-1.2	21			
22	310	12	300	16	30	2	0	0	9999	-1.2	22			
23	310	14	300	19	30	2	0	0	9999	-1.2	23			
24	310	13	295	18	40	2	0	0	9999	-1.0	24			

COOK GENERATING STATION

HOUR	DIR SP	HIND 50FT SP	DIR SP	150FT SPAN G	150FT BEACHPOLE	UIR SP	TEMPERATURE 30FT 100-30	TEMP DELTA Y	HOUR	DATE
1	225	10	205	19	40	3	24	-.6	1	12/ 1/79
2	215	7	195	12	40	3	24	-.6	2	
3	225	5	200	8	90	2	24	-.6	3	
4	210	4	999	6	999	9	24	-.2	4	
5	150	3	65	3	110	2	24	.2	5	
6	60	3	45	4	20	2	24	-.6	6	
7	75	6	55	10	40	3	23	-.6	7	
8	90	7	65	9	40	3	22	-.6	8	
9	90	6	65	9	30	3	9999	999.9	9	
10	65	7	65	9	40	3	9999	999.9	10	
11	90	5	65	6	46	2	9999	999.9	11	
12	120	3	75	4	50	2	9999	999.9	12	
13	120	3	105	4	40	2	9999	1.0	13	
14	120	2	125	3	100	4	9999	2.0	14	
15	125	4	999	5	999	9	9999	.8	15	
16	330	16	325	24	50	2	27	-1.0	16	
17	330	16	320	26	30	2	28	-1.6	17	
18	330	14	320	16	50	2	27	-.4	18	
19	110	8	80	10	30	3	22	-.4	19	
20	70	6	45	10	50	3	23	-.6	20	
21	95	6	70	10	50	3	23	-.6	21	
22	85	10	60	13	40	3	23	-1.2	22	
23	70	10	50	14	40	3	22	-1.0	23	
24	70	6	45	11	30	3	21	-1.6	24	
1	85	6	55	12	40	3	19	-.6	1	12/ 6/79
2	75	10	50	14	30	3	20	-1.0	2	
3	75	9	50	14	30	3	20	-.6	3	
4	100	9	65	15	20	3	18	-.6	4	
5	100	9	75	14	10	4	18	-.6	5	
6	100	8	75	11	10	4	19	0.0	6	
7	135	6	90	8	10	4	20	1.0	7	
8	220	6	185	6	30	2	20	-1.0	8	
9	220	6	205	6	30	4	21	-.6	9	
10	200	4	195	6	20	4	22	-.4	10	
11	160	4	175	8	60	2	26	0.0	11	
12	175	7	170	10	50	2	27	.6	12	
13	180	6	170	8	90	2	28	0.0	13	
14	240	6	215	8	100	2	30	-1.6	14	
15	250	9	230	11	50	2	31	-2.4	15	
16	270	12	255	13	50	2	31	-2.6	16	
17	270	10	250	14	50	2	30	-1.6	17	
18	200	6	165	12	30	3	26	-.4	18	
19	205	7	195	13	20	3	23	-.4	19	
20	210	6	200	14	20	3	21	2.0	20	
21	210	6	200	16	15	3	20	2.0	21	
22	200	6	195	18	20	3	18	2.4	22	
23	205	6	200	17	15	3	17	3.6	23	
24	205	9	195	20	20	3	16	4.4	24	

COOK GENERATING STATION

HOUR	DIR SP	DIR SP	SPAN 6	150FT BEACHPOLE	DIR SP	DIR SP	SPAN 6	150FT BEACHPOLE	DIR SP	DIR SP	SPAN 6	150FT BEACHPOLE	DIR SP	DIR SP	SPAN 6	150FT BEACHPOLE	TEMP DELTA 1	TEMP DELTA 1	TEMP DELTA 1
1	200	10	190	21	30	3	0	0	0	0	0	0	0	0	0	0	16	2.0	16
2	205	8	195	17	20	3	0	0	0	0	0	0	0	0	0	0	16	2.2	16
3	210	9	190	18	30	3	0	0	0	0	0	0	0	0	0	0	17	1.4	17
4	205	10	185	20	30	3	0	0	0	0	0	0	0	0	0	0	17	1.0	17
5	205	10	185	20	40	3	0	0	0	0	0	0	0	0	0	0	16	1.0	16
6	210	10	185	20	40	3	0	0	0	0	0	0	0	0	0	0	17	.6	17
7	210	12	190	22	50	3	0	0	0	0	0	0	0	0	0	0	18	.2	18
8	210	10	190	16	50	3	0	0	0	0	0	0	0	0	0	0	16	0.0	16
9	210	11	190	20	50	3	0	0	0	0	0	0	0	0	0	0	19	.4	19
10	210	12	195	20	50	3	0	0	0	0	0	0	0	0	0	0	21	.0	21
11	999	11	195	17	60	3	0	0	0	0	0	0	0	0	0	0	24	-1.0	24
12	999	14	200	18	70	2	0	0	0	0	0	0	0	0	0	0	29	-1.0	29
13	999	16	205	22	60	2	0	0	0	0	0	0	0	0	0	0	30	-1.2	30
14	999	13	200	18	70	2	0	0	0	0	0	0	0	0	0	0	30	-1.2	30
15	230	14	205	20	60	2	0	0	0	0	0	0	0	0	0	0	31	-1.2	31
16	230	14	205	18	50	3	0	0	0	0	0	0	0	0	0	0	31	-1.0	31
17	999	14	215	18	60	3	0	0	0	0	0	0	0	0	0	0	32	.0	32
18	999	15	225	20	60	3	0	0	0	0	0	0	0	0	0	0	33	.0	33
19	250	18	225	21	50	3	0	0	0	0	0	0	0	0	0	0	33	.0	33
20	255	22	235	30	30	2	0	0	0	0	0	0	0	0	0	0	35	.0	35
21	260	22	245	30	20	2	0	0	0	0	0	0	0	0	0	0	36	.0	36
22	265	19	245	26	50	2	0	0	0	0	0	0	0	0	0	0	36	.0	36
23	260	19	245	26	40	2	0	0	0	0	0	0	0	0	0	0	36	.0	36
24	270	20	250	26	40	2	0	0	0	0	0	0	0	0	0	0	37	.0	37
1	270	18	255	24	30	2	0	0	0	0	0	0	0	0	0	0	38	.0	38
2	270	20	260	23	30	2	0	0	0	0	0	0	0	0	0	0	38	.0	38
3	270	16	255	22	20	2	0	0	0	0	0	0	0	0	0	0	38	.0	38
4	275	16	265	20	40	2	0	0	0	0	0	0	0	0	0	0	39	-1.0	39
5	300	16	275	18	60	2	0	0	0	0	0	0	0	0	0	0	39	.0	39
6	305	16	295	22	20	2	0	0	0	0	0	0	0	0	0	0	39	.0	39
7	310	16	295	22	20	2	0	0	0	0	0	0	0	0	0	0	37	.0	37
8	315	17	300	23	10	2	0	0	0	0	0	0	0	0	0	0	37	.0	37
9	315	16	305	20	20	2	0	0	0	0	0	0	0	0	0	0	37	.0	37
10	310	14	300	17	30	2	0	0	0	0	0	0	0	0	0	0	36	-1.0	36
11	300	12	265	14	40	2	0	0	0	0	0	0	0	0	0	0	37	-1.2	37
12	295	12	275	13	60	2	0	0	0	0	0	0	0	0	0	0	37	-1.2	37
13	285	9	275	10	70	2	0	0	0	0	0	0	0	0	0	0	37	-1.0	37
14	275	12	260	13	50	2	0	0	0	0	0	0	0	0	0	0	37	.0	37
15	270	9	245	11	40	2	0	0	0	0	0	0	0	0	0	0	38	-1.0	38
16	260	8	220	10	60	2	0	0	0	0	0	0	0	0	0	0	38	.0	38
17	200	6	165	10	60	2	0	0	0	0	0	0	0	0	0	0	36	.4	36
18	205	7	190	14	30	3	0	0	0	0	0	0	0	0	0	0	35	.6	35
19	205	7	190	14	30	3	0	0	0	0	0	0	0	0	0	0	35	.2	35
20	185	9	175	17	40	3	0	0	0	0	0	0	0	0	0	0	34	.4	34
21	185	20	180	18	40	3	0	0	0	0	0	0	0	0	0	0	36	.0	36
22	190	21	185	20	50	3	0	0	0	0	0	0	0	0	0	0	37	0.0	37
23	210	22	185	20	60	3	0	0	0	0	0	0	0	0	0	0	37	.2	37
24	210	24	195	23	50	3	0	0	0	0	0	0	0	0	0	0	39	.4	39
																	40	.4	40

DATE: 12/ 5/79

12/ 4/79

COOK GENERATING STATION

HOUR	DIR	SP	SOFT	DIR	SP	DIR	SP	ISOFT	SPAN	G	DIR	SP	TEMP	DELTA	T	HOUR	DATE
1	220	16	195	26	60	3	0	0	0	0	195	26	42	-0.4	1	12/ 5/79	
2	220	19	195	26	60	3	0	0	0	0	195	26	45	-0.4	2		
3	210	15	195	22	50	3	0	0	0	0	195	22	44	-0.2	3		
4	225	20	205	29	60	3	0	0	0	0	205	29	47	-0.6	4		
5	225	20	205	30	60	3	0	0	0	0	205	30	46	-0.6	5		
6	225	20	205	30	60	3	0	0	0	0	205	30	46	-0.6	6		
7	225	18	210	26	60	3	0	0	0	0	210	26	45	-0.6	7		
8	230	17	205	26	50	3	0	0	0	0	205	26	45	-0.6	8		
9	235	16	215	26	60	3	0	0	0	0	215	26	45	-0.6	9		
10	240	17	220	26	50	3	0	0	0	0	220	26	46	-0.6	10		
11	240	20	220	28	50	3	0	0	0	0	220	28	46	-0.6	11		
12	994	20	225	29	50	3	0	0	0	0	225	29	47	-0.8	12		
13	999	16	220	24	50	3	0	0	0	0	220	24	48	-1.0	13		
14	240	16	220	25	50	3	0	0	0	0	220	25	48	-0.8	14		
15	240	16	220	24	50	3	0	0	0	0	220	24	48	-0.8	15		
16	250	14	235	23	30	3	0	0	0	0	235	23	48	0.0	16		
17	235	12	215	20	60	3	0	0	0	0	215	20	49	-0.2	17		
18	240	14	220	21	50	3	0	0	0	0	220	21	48	0.2	18		
19	240	14	225	24	40	3	0	0	0	0	225	24	47	0.6	19		
20	255	16	245	26	20	3	0	0	0	0	245	26	46	0.4	20		
21	270	21	280	26	50	3	0	0	0	0	280	26	45	-0.6	21		
22	300	20	280	24	60	3	0	0	0	0	280	24	43	-0.8	22		
23	300	24	285	30	40	2	0	0	0	0	285	30	42	-0.8	23		
24	300	20	285	27	30	2	0	0	0	0	285	27	40	-1.0	24		
1	310	18	295	24	15	2	0	0	0	0	295	24	39	-1.0	1	12/ 5/79	
2	310	16	300	23	20	2	0	0	0	0	300	23	39	-1.0	2		
3	310	16	300	22	20	2	0	0	0	0	300	22	39	-0.8	3		
4	310	14	295	18	20	2	0	0	0	0	295	18	39	-1.0	4		
5	305	13	295	17	20	2	0	0	0	0	295	17	39	-1.0	5		
6	300	12	290	15	30	2	0	0	0	0	290	15	38	-1.0	6		
7	310	10	295	12	20	2	0	0	0	0	295	12	38	-1.0	7		
8	295	9	275	10	70	2	0	0	0	0	275	10	38	-1.0	8		
9	260	10	270	11	70	2	0	0	0	0	270	11	38	-1.0	9		
10	265	11	275	12	60	2	0	0	0	0	275	12	38	-1.0	10		
11	265	9	275	11	70	2	0	0	0	0	275	11	38	-1.0	11		
12	270	11	265	12	60	2	0	0	0	0	265	12	38	-1.2	12		
13	270	13	255	16	40	2	0	0	0	0	255	16	37	-1.2	13		
14	270	14	245	18	40	2	0	0	0	0	245	18	37	-1.2	14		
15	265	14	245	18	40	2	0	0	0	0	245	18	38	-1.4	15		
16	265	15	245	18	50	2	0	0	0	0	245	18	39	-1.2	16		
17	265	14	245	20	50	2	0	0	0	0	245	20	38	-1.0	17		
18	255	15	245	22	40	2	0	0	0	0	245	22	38	-0.8	18		
19	255	10	215	14	60	3	0	0	0	0	215	14	37	-0.6	19		
20	255	10	215	16	60	3	0	0	0	0	215	16	36	-0.6	20		
21	230	10	210	15	50	3	0	0	0	0	210	15	36	-0.6	21		
22	200	7	185	14	40	3	0	0	0	0	185	14	35	-0.4	22		
23	185	7	180	16	50	3	0	0	0	0	180	16	33	-0.4	23		
24	200	10	185	16	50	3	0	0	0	0	185	16	35	-0.2	24		

COOK GENERATING STATION

HOUR	DIR	SP	DIR	SP	DIR	SP	DIR	SP	DIR	SP	DIR	SP	TEMP SOFT	TEMP DELTA	HOUR	DATE
1	210	12	190	20	50	3	0	0	0	0	0	0	37	0	1	12/ 7/79
2	200	11	185	20	60	3	0	0	0	0	0	0	38	0	2	
3	210	14	195	24	60	3	0	0	0	0	0	0	39	0	3	
4	210	14	195	20	50	3	0	0	0	0	0	0	39	0	4	
5	220	15	200	22	50	3	0	0	0	0	0	0	39	0	5	
6	225	16	205	24	50	3	0	0	0	0	0	0	39	0	6	
7	230	16	210	26	50	3	0	0	0	0	0	0	39	0	7	
8	235	16	215	22	60	3	0	0	0	0	0	0	42	0	8	
9	230	16	215	24	60	3	0	0	0	0	0	0	42	0	9	
10	255	16	215	25	60	3	0	0	0	0	0	0	43	0	10	
11	240	17	999	24	999	9	0	0	0	0	0	0	43	0	11	
12	250	21	999	30	999	9	0	0	0	0	0	0	42	0	12	
13	255	24	999	34	999	9	0	0	0	0	0	0	41	0	13	
14	270	30	999	40	999	9	0	0	0	0	0	0	39	0	14	
15	280	30	999	40	999	9	0	0	0	0	0	0	39	0	15	
16	280	30	999	34	999	9	0	0	0	0	0	0	39	0	16	
17	310	34	999	45	999	9	0	0	0	0	0	0	39	0	17	
18	310	34	999	52	999	9	0	0	0	0	0	0	37	0	18	
19	310	32	999	52	999	9	0	0	0	0	0	0	36	0	19	
20	315	30	999	59	999	9	0	0	0	0	0	0	35	0	20	
21	315	26	999	49	999	9	0	0	0	0	0	0	35	0	21	
22	315	26	999	48	999	9	0	0	0	0	0	0	34	0	22	
23	330	22	999	59	999	9	0	0	0	0	0	0	34	0	23	
24	330	22	999	59	999	9	0	0	0	0	0	0	35	0	24	
1	320	22	315	32	30	2	0	0	0	0	0	0	35	0	1	12/ 9/79
2	330	20	315	33	30	2	0	0	0	0	0	0	32	0	2	
3	330	20	315	30	30	2	0	0	0	0	0	0	30	0	3	
4	340	20	330	26	40	2	0	0	0	0	0	0	30	0	4	
5	320	20	315	30	30	2	0	0	0	0	0	0	31	0	5	
6	315	20	310	28	20	2	0	0	0	0	0	0	31	0	6	
7	315	22	300	28	20	2	0	0	0	0	0	0	30	0	7	
8	315	22	305	28	30	2	0	0	0	0	0	0	26	0	8	
9	315	20	310	26	40	2	0	0	0	0	0	0	27	0	9	
10	315	20	305	25	30	2	0	0	0	0	0	0	27	0	10	
11	315	17	300	24	40	2	0	0	0	0	0	0	27	0	11	
12	310	14	300	20	30	2	0	0	0	0	0	0	27	0	12	
13	310	13	300	17	40	2	0	0	0	0	0	0	27	0	13	
14	305	13	295	17	30	2	0	0	0	0	0	0	27	0	14	
15	305	13	285	12	40	2	0	0	0	0	0	0	27	0	15	
16	305	10	285	12	40	2	0	0	0	0	0	0	28	0	16	
17	290	8	270	10	60	2	0	0	0	0	0	0	27	0	17	
18	280	7	250	10	60	2	0	0	0	0	0	0	29	0	18	
19	210	5	240	13	40	2	0	0	0	0	0	0	26	0	19	
20	195	6	190	10	40	3	0	0	0	0	0	0	25	0	20	
21	220	9	190	12	40	3	0	0	0	0	0	0	25	0	21	
22	240	10	200	14	40	3	0	0	0	0	0	0	26	0	22	
23	240	9	210	14	60	3	0	0	0	0	0	0	27	0	23	
24	230	8	210	11	60	3	0	0	0	0	0	0	27	0	24	

COOK GENERATING STATION

HOUR	DIR	SP	WIND	DIR	SP	DIR	SP	DIR	SP	150FT	BEACHPOLE	TEMP	DELTA	TEMP	DELTA	HOUR	DATE
1	225	8	195	12	50	3	0	0	0	0	0	27	1.0	27	1.0	1	12/ 9/79
2	225	8	195	10	50	3	0	0	0	0	0	27	1.0	27	1.0	2	
3	220	7	195	10	50	3	0	0	0	0	0	27	1.0	27	1.0	3	
4	225	9	195	12	50	3	0	0	0	0	0	27	1.0	27	1.0	4	
5	225	10	195	14	50	3	0	0	0	0	0	28	1.0	28	1.0	5	
6	225	10	200	15	50	3	0	0	0	0	0	30	1.0	30	1.0	6	
7	225	12	200	16	50	3	0	0	0	0	0	30	1.0	30	1.0	7	
8	225	12	195	16	50	3	0	0	0	0	0	30	1.0	30	1.0	8	
9	230	14	190	18	50	3	0	0	0	0	0	31	1.0	31	1.0	9	
10	235	14	200	20	50	3	0	0	0	0	0	33	1.0	33	1.0	10	
11	240	14	210	20	60	3	0	0	0	0	0	36	1.0	36	1.0	11	
12	245	15	210	20	60	3	0	0	0	0	0	37	1.0	37	1.0	12	
13	245	16	215	23	50	3	0	0	0	0	0	39	1.0	39	1.0	13	
14	250	18	220	24	40	3	0	0	0	0	0	42	1.0	42	1.0	14	
15	250	18	220	24	40	3	0	0	0	0	0	43	1.0	43	1.0	15	
16	250	18	220	24	40	3	0	0	0	0	0	44	1.0	44	1.0	16	
17	255	16	225	24	40	3	0	0	0	0	0	43	0.0	43	0.0	17	
18	255	14	235	21	30	3	0	0	0	0	0	42	0.0	42	0.0	18	
19	245	12	230	20	10	3	0	0	0	0	0	42	0.0	42	0.0	19	
20	245	12	225	20	30	3	0	0	0	0	0	42	0.0	42	0.0	20	
21	235	10	225	14	30	3	0	0	0	0	0	41	0.0	41	0.0	21	
22	230	10	210	14	40	3	0	0	0	0	0	39	0.0	39	0.0	22	
23	210	8	210	13	50	3	0	0	0	0	0	36	1.0	36	1.0	23	
24	190	8	190	12	50	3	0	0	0	0	0	35	1.0	35	1.0	24	
1	205	7	190	12	40	3	0	0	0	0	0	35	1.0	35	1.0	1	12/10/79
2	190	6	200	12	40	3	0	0	0	0	0	34	1.0	34	1.0	2	
3	185	6	165	14	40	3	0	0	0	0	0	33	1.0	33	1.0	3	
4	185	7	160	14	20	3	0	0	0	0	0	33	1.0	33	1.0	4	
5	195	8	165	15	30	3	0	0	0	0	0	33	1.0	33	1.0	5	
6	200	8	175	16	30	3	0	0	0	0	0	33	1.0	33	1.0	6	
7	190	8	165	15	30	3	0	0	0	0	0	33	1.0	33	1.0	7	
8	195	8	170	16	40	3	0	0	0	0	0	34	1.0	34	1.0	8	
9	200	8	170	16	40	3	0	0	0	0	0	36	1.0	36	1.0	9	
10	205	8	180	15	50	3	0	0	0	0	0	40	1.0	40	1.0	10	
11	205	7	175	14	60	3	0	0	0	0	0	45	1.0	45	1.0	11	
12	210	10	190	14	60	3	0	0	0	0	0	47	1.0	47	1.0	12	
13	210	10	190	15	70	2	0	0	0	0	0	52	1.0	52	1.0	13	
14	210	11	180	14	60	2	0	0	0	0	0	53	1.0	53	1.0	14	
15	215	12	165	16	70	2	0	0	0	0	0	54	1.0	54	1.0	15	
16	210	10	160	20	60	3	0	0	0	0	0	52	1.0	52	1.0	16	
17	210	12	175	20	60	3	0	0	0	0	0	50	1.0	50	1.0	17	
18	210	12	175	20	70	3	0	0	0	0	0	51	1.0	51	1.0	18	
19	215	14	180	20	70	3	0	0	0	0	0	52	1.0	52	1.0	19	
20	215	16	185	25	60	3	0	0	0	0	0	52	1.0	52	1.0	20	
21	220	16	195	26	60	3	0	0	0	0	0	52	1.0	52	1.0	21	
22	225	18	190	25	70	3	0	0	0	0	0	52	1.0	52	1.0	22	
23	225	18	195	26	70	3	0	0	0	0	0	52	1.0	52	1.0	23	
24	225	19	195	26	70	3	0	0	0	0	0	52	1.0	52	1.0	24	



