

PACIFIC GAS AND ELECTRIC COMPANY  
NUCLEAR PLANT OPERATIONS

REPORT ON  
DISCHARGE MONITORING AT  
DIABLO CANYON POWER PLANT  
DURING THE MONTH OF  
DECEMBER 1985

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PDR ADDCK 05000275  
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IE25  
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## OVERVIEW

During the month of December, discharges were made from discharge paths 001 (main circulating pumps), 001-B, 001-D, 001-F, 001-H, 001-J, 001-K, 001-L, 002, 003, and 004. No discharges were made from discharge paths 001-A, 001-C, 001-E, 001-G, nor 001-I.

Chemical, radiochemical and toxicity analyses were performed in accordance with chemical analysis procedures contained in the Diablo Canyon Power Plant, Units 1 and 2 Plant Manual, Volume 8, or by state approved laboratories, or by laboratories approved by the Regional Board staff.

## SUMMARY OF MONITORING PROGRAM

### A. Monitoring of Plant Influent and Effluent

1. Results of monitoring of plant influent and effluent in December are reported on Form Q-2's found in Appendix 1.
2. Static bioassays for Discharge 001 are performed quarterly in January, April, July and October.

### B. Monitoring of Receiving Waters

#### 1. Ecological Studies at Diablo Canyon

Ecological studies in accordance with the Thermal Effects Monitoring Program (Provision D.4) continue.

#### 2. Sediment Analysis

Sediment samples are collected in September.

#### 3. Aerial Photography of Kelp Beds

Aerial photography (infrared film type 2443) of kelp beds in the vicinity of Diablo Canyon is required in February, June, and October.

#### 4. Surface Water Temperature

Measurement of surface water temperatures is not required until commercial operation of Unit 2.

#### 5. Stratified Water Temperatures

Stratified water temperatures are recorded in February, June and October.

#### 6. pH and Dissolved Oxygen of Receiving Waters

Monitoring of pH and dissolved oxygen in the receiving waters is scheduled in February, June and October.

7. Incident Light Measurements

Subsurface light measurements are reported in Appendix 2. Also included is a map of station locations.

8. In situ Bioassay

Results of the Mussel Watch program will be reported to the Board directly from the California Department of Fish and Game in their periodic report for this program.



APPENDIX 1

Influent and Effluent Monitoring

December 1985

INSTRUCTIONS FOR DISCHARGER

1. Remove COPY 4 (dark yellow) and use for your worksheet.
2. Use ballpoint pen or typewriter for data entry on forms.
3. Provide dates for beginning and ending in reporting period blocks.
4. Provide data as specified under column headings.
5. Enter monthly summary data (MONTHLY AVERAGE, MONTHLY HIGH, etc.).
6. Appropriate signature is required at the bottom of the form.
7. Remove COPY 3 and retain for your records.
8. Send COPY 2 to EPA, Region 9, San Francisco and COPY 1 to:

CALIFORNIA STATE WATER RESOURCES CONTROL BOARD  
DISCHARGER SELF MONITORING REPORT

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
CENTRAL COAST REGION  
1102A LAUREL LANE  
SAN LUIS OBISPO, CA 93401

FACILITY NAME  
MAILING ADDRESS

PACIFIC GAS AND ELECTRIC CO  
DIABLO CYN NUCLEAR POWER PLANT

P O BOX 56  
AVILA BEACH  
93424

CALIF

YOUR REPORTING PERIOD IS MONTHLY AND YOUR REPORTS MUST BE SUBMITTED BY 15 DAYS FOLLOWING THIS PERIOD.

Transaction Code Q2 Facility I.D. 3 40200300 Year/Month for this report 85/12/01 Reporting Period Beginning 85/12/01 Ending 85/12/31 State Code 06 NPDES Permit Number 0003751 Date form was computer printed 85/08/05 PAGE 1 Year Mo. Day

STATION DESCRIPTION	INFLUENT	EFFLUENT 001	EFFLUENT 002	EFFLUENT 003	EFFLUENT 004
CONSTITUENT NAME	TEMPERATURE DEGREES F	TEMPERATURE DEGREES F	FLOW MGD	PH UNITS	PH UNITS
SAMPLE TYPE	METERED	METERED	RECORDED	GRAB	GRAB
FREQUENCY	CONTINUOUS	CONTINUOUS	DAILY	MONTHLY	MONTHLY
	00011	00011	50050	00403	00403
Dec 1	56.0	66.0	2450	7.90	
2	56.3	69.3	2220	7.80	
3	56.9	63.0	240	7.80	
4	56.9	59.3	730	7.85	
5	57.0	58.5	1150	7.90	
6	56.6	58.0	1360	7.90	
7	56.1	60.1	1830	7.85	
8	55.4	59.3	1860	7.85	
9	55.0	63.4	1950	7.85	
10	55.6	64.7	2300	7.80	
11	55.1	65.6	2430	7.80	
12	55.3	69.6	2460	7.85	1 7.59
13	55.5	70.0	2310	7.90	
14	55.6	66.9	1830	7.95	
15	55.4	68.2	1830	7.90	
16	55.0	70.5	1880	7.95	
17	55.0	70.4	2460	7.90	
18	55.1	72.4	2460	7.90	
19	55.0	71.7	2140	7.90	
20	55.0	70.9	2380	7.90	
21	55.0	71.1	1830	7.90	2 8.00
22	56.0	67.0	2350	7.90	
23	56.0	72.4	2460	7.95	
24	56.0	70.0	1860	8.00	
25	56.0	68.7	1860	8.00	
26	56.0	72.1	1840	8.00	
27	56.3	72.6	2060	8.00	
28	56.8	72.9	1830	8.00	
29	57.1	69.8	1960	8.00	
30	57.0	71.9	1960	8.00	
31	57.2	71.0	1900	8.00	
+ MONTHLY AVERAGE	55.9	67.7	1941	7.90	
MONTHLY HIGH	57.1	72.9	2460	8.00	
MONTHLY LOW	55.0	58.0	240	7.80	
TOTAL RECORDINGS/MO	31	31	31	31	
REQUIREMENT #1		MAXIMUM	MAXIMUM 2760	MINIMUM 6.0	MINIMUM 6.0
REQUIREMENT #2		INTAKE PLUS		MAXIMUM 9.0	MAXIMUM 9.0
REQUIREMENT #3		22 DEGREES			

\*Enter number of samples taken during the day. 31

Typed Name of Principal Executive Officer: SHIFFER JAMES D.

I declare under penalty of perjury that the foregoing is true and accurate, and that the sampling procedure and analysis used for the column constituents was as specified in the Waste Discharge Order for this facility.

Signature of Principal Executive Officer or Authorized Agent: William C. D... 86.01.20

REGIONAL BOARD COPY 1

INSTRUCTIONS FOR DISCHARGER

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3. Provide dates for beginning and ending in reporting period blocks.
4. Provide data as specified under column headings.
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DISCHARGER SELF MONITORING REPORT

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
CENTRAL COAST REGION  
1102A LAUREL LANE  
SAN LUIS OBISPO, CA 93401

PACIFIC GAS AND ELECTRIC CO  
DIABLO CYN NUCLEAR POWER PLANT

P O BOX 56  
AVILA BEACH  
93424

CALIF

YOUR REPORTING PERIOD IS MONTHLY AND YOUR REPORTS MUST BE SUBMITTED BY 15 DAYS FOLLOWING THIS PERIOD.

Transaction Code: 02 Facility I.D. No: 3 40200300 Reporting Period: Beginning 85/1/01 Ending 85/12/31 State Code: 06

NPDES Permit Number: 0003751 Date form was computer printed: 85/08/05 Year: 85 Mo: 08 Day: 05

STATION DESCRIPTION CONSTITUENT NAME UNITS	INFLUENT		EFFLUENT		EFFLUENT		EFFLUENT		EFFLUENT		EFFLUENT		EFFLUENT	
	TURBIDITY NTU	CLARITY FT	TURBIDITY NTU	CLARITY FT	AVL CHL MG/L	CHLORINE RES MG/L	EFFLUENT OIL & GREASE MG/L	EFFLUENT OIL & GREASE MG/L	EFFLUENT OIL & GREASE MG/L	EFFLUENT OIL & GREASE MG/L	EFFLUENT OIL & GREASE MG/L	EFFLUENT OIL & GREASE MG/L	EFFLUENT OIL & GREASE MG/L	EFFLUENT OIL & GREASE MG/L
MONTHLY AVERAGE	2.3	3.5	8	31	28	417	217	217	217	217	217	217	217	
MONTHLY HIGH			6	114	6	114	6	60	4	15	4	125	417	
MONTHLY LOW			6	74	6	60	6	6	6	6	6	6	6	
TOTAL RECORDS/MO			4	15	4	15	4	15	4	15	4	15	4	
REQUIREMENT #1			8	58	8	53	8	53	8	53	8	53	8	
REQUIREMENT #2			6	72	6	56	6	56	6	56	6	56	6	
REQUIREMENT #3			6	83	6	54	6	54	6	54	6	54	6	
Times Exceeded			6	58	6	45	6	45	6	45	6	45	6	
Times Exceeded			6	30	6	30	6	30	6	30	6	30	6	
Times Exceeded			6	80	6	63	6	63	6	63	6	63	6	
Times Exceeded			6	96	6	97	6	97	6	97	6	97	6	
Times Exceeded			6	65	6	56	6	56	6	56	6	56	6	
MONTHLY AVERAGE			114	114	114	114	114	114	114	114	114	114	114	
MONTHLY HIGH			15	15	15	15	15	15	15	15	15	15	15	
MONTHLY LOW			11	11	11	11	11	11	11	11	11	11	11	
TOTAL RECORDS/MO			30-0	AV 200	30-0	AV 200	30-0	AV 200	30-0	AV 200	30-0	AV 200	30-0	
REQUIREMENT #1			D MAX 200	0	D MAX 200	0	D MAX 200	0	D MAX 200	0	D MAX 200	0	D MAX 200	
REQUIREMENT #2			I MAX 200	0	I MAX 200	0	I MAX 200	0	I MAX 200	0	I MAX 200	0	I MAX 200	
REQUIREMENT #3														
Times Exceeded														
Times Exceeded														
Times Exceeded														
Number of samples taken during the day														

REMARKS: \_\_\_\_\_

Signature of Principal Executive Officer: William C. [Signature] Date: 86.01.20

Signature of Authorized Agent: \_\_\_\_\_ Date: \_\_\_\_\_

MO AVG 15: 0 D MAX 20: 0

REGIONAL BOARD COPY: 7





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 CENTRAL COAST REGION  
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 SAN LUIS OBISPO, CA 93401

PACIFIC GAS AND ELECTRIC CO  
 DIABLO CYN NUCLEAR POWER PLANT

P O BOX 56  
 AVILA BEACH  
 93424  
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YOUR REPORTING PERIOD IS MONTHLY AND YOUR REPORTS MUST  
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Transaction Code Q2 Facility I.D. 340200300 Year/Month for this report 85/12/31 Ending 85/12/01 Beginning 85/12/01 State Code 06 NPDES Permit Number 0003751 Date form was computer printed 85/08/05 PAGE 4 Year Mo. Day

STATION DESCRIPTION CONSTITUENT NAME UNITS	EFFL 001A TYPICAL MG/L		EFFL 002A TYPICAL MG/L		EFFL 003A TYPICAL MG/L		EFFL 004A TYPICAL MG/L		EFFL 005A TYPICAL MG/L		EFFL 006A TYPICAL MG/L		EFFL 007A TYPICAL MG/L		EFFL 008A TYPICAL MG/L		EFFL 009A TYPICAL MG/L		EFFL 010A TYPICAL MG/L		
	CRAB	MONTHLY	CRAB	MONTHLY	CRAB	MONTHLY	CRAB	MONTHLY	CRAB	MONTHLY	CRAB	MONTHLY	CRAB	MONTHLY	CRAB	MONTHLY	CRAB	MONTHLY	CRAB	MONTHLY	
1		28																			
2																					
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30																					
31																					
REMARKS:																					
+ MONTHLY AVERAGE																					
MONTHLY HIGH																					
MONTHLY LOW																					
TOTAL RECORDINGS/MO																					
REQUIREMENT #1																					
REQUIREMENT #2																					
REQUIREMENT #3																					
Times Exceeded																					
Times Exceeded																					
Times Exceeded																					
*Enter number of samples taken during the day.																					

Signature of Principal Executive Officer: William A. Deha Date: 86/01/20  
 Signature of Authorized Agent: \_\_\_\_\_ Date: \_\_\_\_\_  
 REGIONAL BOARD COPY 7

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**DISCHARGER SELF MONITORING REPORT**

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 CONTROL BOARD  
 CENTRAL COAST REGION  
 1102A LAUREL LANE  
 SAN LUIS OBISPO, CA 93401

PACIFIC GAS AND ELECTRIC CO  
 DIABLO CYN NUCLEAR POWER PLANT  
 P O BOX 56  
 AVILA BEACH  
 93424  
 CALIF

YOUR REPORTING PERIOD IS MONTHLY AND YOUR REPORTS MUST  
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Transaction Code 02 Facility I.D. 3 40200300 Reporting Period Beginning 65/12/01 Ending 85/12/31 State Code 06 NPDES Permit Number 0003751 Date form was computer printed 85/08/05 PAGE 5 Year Mo Day

STATION DESCRIPTION	INFLUENT COPPER UG/L	EFFLUENT COPPER UG/L	INFLUENT NICKEL UG/L	EFFLUENT NICKEL UG/L	INFLUENT ZINC UG/L	EFFLUENT ZINC UG/L	INFLUENT AMMONIA (N) MG/L	EFFLUENT AMMONIA (N) MG/L
CONSTITUENT NAME	COPPER UG/L	COPPER UG/L	NICKEL UG/L	NICKEL UG/L	ZINC UG/L	ZINC UG/L	AMMONIA (N) MG/L	AMMONIA (N) MG/L
SAMPLE TYPE	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
FREQUENCY	JAN	JAN	JAN	JAN	JAN	JAN	JAN	JAN
MONTH DAY	01042	01042	01067	01067	01092	01092	00610	00610
1	<1	<1	<1	<1	<1	<1		
2								
3								
4								
5								0.24
6								
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24								
25								
26								
27								
28								
29								
30								
31								
+ MONTHLY AVERAGE								
MONTHLY HIGH								
MONTHLY LOW								
TOTAL RECORDINGS/MO								
REQUIREMENT #1								
Times Exceeded								
REQUIREMENT #2								
Times Exceeded								
REQUIREMENT #3								
Times Exceeded								

REMARKS:

6M MEAN 24 0 MAX 135 I MAX 357

6M MEAN 148 0 MAX 592 I MAX 1480

6M MEAN 97 0 MAX 541 I MAX 1430

6M MEAN 4.44 0 MAX 17.8 I MAX 44.4

\*Enter number of samples taken during the day

Typed Name of Principal Executive Officer: SHIFFER JAMES D.

Signature of Principal Executive: *William A. Shiffer*

Date: 86.01.20

Form 02-9-74

REGIONAL BOARD COPY 7

**CALIFORNIA STATE WATER RESOURCES CONTROL BOARD  
DISCHARGER SELF MONITORING REPORT**

- INSTRUCTIONS FOR DISCHARGER**
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YOUR REPORTING PERIOD IS MONTHLY AND OUR REPORTS MUST  
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Transaction Code Q2 Facility ID 44200541 Year/Month for this report 85/12/31 Ending 85/12/31 State Code 06  
 NPDES Permit Number 0003751 Date form was computer printed 85/08/05 Page 6  
 Year Mo Day

ADDRESS FACILITY NAME  
 P O BOX 56  
 AVILA BEACH  
 93424  
 CALIF

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
 CENTRAL COAST REGION  
 1104 LAUREL LANE  
 SAN LUIS OBISPO, CA 93401

STATION DESCRIPTION	EFFLUENT 001 TITANIUM UG/L	EFFL 001D LITHIUM UG/L	BORON UG/L	EFFL 001D HYDRAZINE UG/L
MONTHLY AVERAGE	76	256	25	39
MONTHLY HIGH				
MONTHLY LOW				
TOTAL RECORDINGS/MO				
REQUIREMENT #1				
REQUIREMENT #2				
REQUIREMENT #3				
Times Exceeded				
Times Exceeded				
Times Exceeded				
number of samples taken during the day				

REMARKS: EFFL 001D LITHIUM AND BORON -- THE DECEMBER MONTHLY COMPOSITE WAS ANALYZED ON JANUARY 8.

Signature of Principal Executive Officer: William A. Doherty Date: 86/01/20  
 I declare under penalty of perjury that the foregoing is true and accurate, and that the sampling procedure and analysis used for the column constituents was as specified in the Waste Discharge Order for this facility.  
 REGIONAL BOARD COPY 7



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PACIFIC GAS & ELECTRIC COMPANY  
DIABLO CANYON NUCLEAR POWER PLANT

P.O. BOX 56  
AVILA BEACH, CA  
93424

YOUR REPORTING PERIOD IS [ ] QUARTERLY [ ] AND YOUR REPORTS MUST

BE SUBMITTED BY [ ] DAYS FOLLOWING THIS PERIOD.

Q2 Transaction Code [ ] Facility I.D. [ ]

Year/Month for this report [ ]

Reporting Period Beginning 85/10/01 Ending 85/12/31

NPDES Permit Number 0003751

State Code 06

Year Mo. Day 85/12/31

Ending 85/12/31

Year Mo. Day 85/10/01

Beginning 85/10/01

Reporting Period

Year Mo. Day

Year Mo. Day

Year Mo. Day

Year Mo. Day

Year Mo. Day

Year Mo. Day

Year Mo. Day

Year Mo. Day

Year Mo. Day

Year Mo. Day

Year Mo. Day

STATION DESCRIPTION EFFLUENT 005

CONSTITUENT NAME PCB'S

UNITS UG/L

SAMPLE TYPE GRAB

FREQUENCY JA/AP/JUL/OCT

MONTH DAY 39516 \*

Nov 23 < .3 \*

REMARKS: EFFLUENT 005 PCB'S -- THE NOVEMBER 23 SAMPLE WAS ANALYZED ON 12/14/85.

Form Q2 9/74

Enter number of samples taken during the day

Typed Name of Principal Executive Officer  
SHIFFER JAMES D.

Signature of Principal Executive Officer or Authorized Agent  
William A. Shiffer

86 01 20  
Regional Board Copy

1



APPENDIX 2

Incident Light Measurements

Fourth Quarter

1985

MONTHLY STATISTICAL SUMMARY FOR THE TIME PERIOD OF 01 SEP 85 TO 31 DEC 85  
 STATION: 07 LEVEL: 10 TYPE OF MEASUREMENT: LIGHT IN UNITS OF  $\mu$  Einsteins

PAGE 01

Data for the month of SEP 1985

HOUR	N	MEAN	MAX	MIN	SUM	SUM.SQ.	STD.DEV	STD.ERR	+2 STD.ERR	-2 STD.ERR
0000	82	7.6	8	0	624	4992	1.7	0.2	8.0	7.2
0100	82	7.6	8	0	624	4992	1.7	0.2	8.0	7.2
0200	82	7.6	8	0	624	4992	1.7	0.2	8.0	7.2
0300	83	7.5	8	0	624	4992	1.9	0.2	7.9	7.1
0400	83	7.5	8	0	624	4992	1.9	0.2	7.9	7.1
0500	83	7.5	8	0	624	4992	1.9	0.2	7.9	7.1
0600	86	18.9	39	0	1625	39083	9.9	1.1	21.0	16.8
0700	87	69.1	160	13	6015	519481	34.7	3.7	76.6	61.7
0800	87	138.8	298	28	12074	2071140	67.8	7.3	153.3	124.2
0900	87	226.0	449	42	19660	5268200	96.0	10.5	247.0	205.0
1000	87	323.6	543	71	28155	10601700	131.6	14.1	351.8	295.4
1100	87	388.3	573	58	33783	14831700	141.2	15.1	418.6	358.0
1200	87	417.4	634	19	36313	17058600	148.7	15.9	449.3	385.5
1300	87	404.8	625	94	35219	15658700	127.7	13.7	432.2	377.4
1400	87	325.4	535	88	28312	10354700	115.2	12.4	350.1	300.7
1500	87	221.3	419	58	19253	4900060	86.2	9.2	239.8	202.8
1600	87	117.0	243	28	10176	1386120	47.7	5.1	127.2	106.7
1700	86	43.0	105	0	3690	209062	24.3	2.6	48.2	37.8
1800	82	9.2	27	0	756	9074	5.1	0.6	10.3	8.1
1900	82	7.3	8	0	600	4300	2.2	0.2	7.8	6.8
2000	82	7.3	8	0	600	4300	2.2	0.2	7.8	6.8
2100	83	7.2	8	0	600	4300	2.4	0.3	7.8	6.7
2200	84	7.1	8	0	600	4300	2.5	0.3	7.7	6.6
2300	84	7.2	11	0	603	4357	2.5	0.3	7.7	6.6

MONTHLY STATISTICAL SUMMARY FOR THE TIME PERIOD OF 01 SEP 85 TO 31 DEC 85  
 STATION: 07 LEVEL: 10 TYPE OF MEASUREMENT: LIGHT IN UNITS OF  $\mu$  Einsteins

Data for the month of OCT 1985

HOUR	N	MEAN	MAX	MIN	SUM	SUM.SQ.	STD.DEV	STD.ERR	+2 STD.ERR	-2 STD.ERR
0000	89	0.0	0	0	0	0	0.0	0.0	0.0	0.0
0100	91	0.0	0	0	0	0	0.0	0.0	0.0	0.0
0200	93	0.0	0	0	0	0	0.0	0.0	0.0	0.0
0300	93	0.0	0	0	0	0	0.0	0.0	0.0	0.0
0400	93	0.0	0	0	0	0	0.0	0.0	0.0	0.0
0500	93	0.0	0	0	0	0	0.0	0.0	0.0	0.0
0600	93	3.7	33	0	344	5084	6.4	0.7	5.0	2.4
0700	93	37.5	113	0	3434	191302	25.7	2.7	42.8	32.1
0800	93	96.9	257	5	9193	1156050	51.7	5.4	109.6	88.2
0900	93	174.4	406	13	16215	3490620	84.9	8.8	192.0	156.7
1000	93	255.5	490	71	23760	6827590	90.7	9.4	274.3	236.7
1100	93	312.3	594	76	29041	10326900	116.9	12.1	336.5	288.0
1200	93	333.7	540	0	31038	11617400	117.0	12.1	353.0	309.5
1300	93	307.4	525	82	28537	9373470	108.9	11.3	330.0	284.8
1400	93	256.8	404	47	22024	6030130	94.1	9.8	256.3	217.3
1500	93	146.3	263	13	13651	2353760	62.1	6.4	159.7	133.9
1600	93	58.4	155	0	5435	409015	31.5	3.3	65.0	51.9
1700	93	7.4	52	0	636	14350	10.0	1.0	9.5	5.3
1800	84	0.0	0	0	0	0	0.0	0.0	0.0	0.0
1900	84	0.0	0	0	0	0	0.0	0.0	0.0	0.0
2000	86	0.0	0	0	0	0	0.0	0.0	0.0	0.0
2100	88	0.0	0	0	0	0	0.0	0.0	0.0	0.0
2200	89	0.0	0	0	0	0	0.0	0.0	0.0	0.0
2300	90	0.0	0	0	0	0	0.0	0.0	0.0	0.0

MONTHLY STATISTICAL SUMMARY FOR THE TIME PERIOD OF 01 SEP 85 TO 31 DEC 85  
 STATION: 07 LEVEL: 10 TYPE OF MEASUREMENT: LIGHT IN UNITS OF  $\mu$  Einsteins

PAGE 03

Data for the month of NOV 1985

HOUR	N	MEAN	MAX	MIN	SUM	SUM.SQ.	STD.DEV	STD.ERR	+2 STD.ERR	-2 STD.ERR
0000	24	0.0	0	0	0	0	0.0	0.0	0.0	0.0
0100	24	0.0	0	0	0	0	0.0	0.0	0.0	0.0
0200	24	0.0	0	0	0	0	0.0	0.0	0.0	0.0
0300	24	0.0	0	0	0	0	0.0	0.0	0.0	0.0
0400	24	0.0	0	0	0	0	0.0	0.0	0.0	0.0
0500	24	0.0	0	0	0	0	0.0	0.0	0.0	0.0
0600	24	0.9	7	0	22	148	2.4	0.5	1.9	-0.0
0700	24	26.0	63	0	623	24059	18.5	3.8	33.5	18.4
0800	24	79.6	155	13	1911	100695	39.9	8.1	95.9	63.4
0900	24	145.1	245	26	3432	603642	65.4	13.4	171.8	118.4
1000	24	192.5	294	15	4620	1053710	84.5	17.3	227.0	158.0
1100	24	243.8	317	82	5651	1552790	74.1	15.1	274.1	213.5
1200	24	263.2	327	129	5900	1665460	62.9	13.4	295.0	241.3
1300	21	226.5	300	64	4757	1179520	71.4	15.6	257.7	195.4
1400	21	169.4	252	95	3557	647243	47.3	10.3	190.0	148.7
1500	21	103.5	175	40	2174	251616	36.4	8.0	119.4	87.6
1600	21	33.1	76	5	695	30673	19.6	4.3	41.6	24.5
1700	21	1.0	7	0	20	116	2.2	0.5	1.9	-0.0
1800	21	0.0	0	0	0	0	0.0	0.0	0.0	0.0
1900	21	0.0	0	0	0	0	0.0	0.0	0.0	0.0
2000	21	0.0	0	0	0	0	0.0	0.0	0.0	0.0
2100	21	0.0	0	0	0	0	0.0	0.0	0.0	0.0
2200	21	0.0	0	0	0	0	0.0	0.0	0.0	0.0
2300	21	0.0	0	0	0	0	0.0	0.0	0.0	0.0

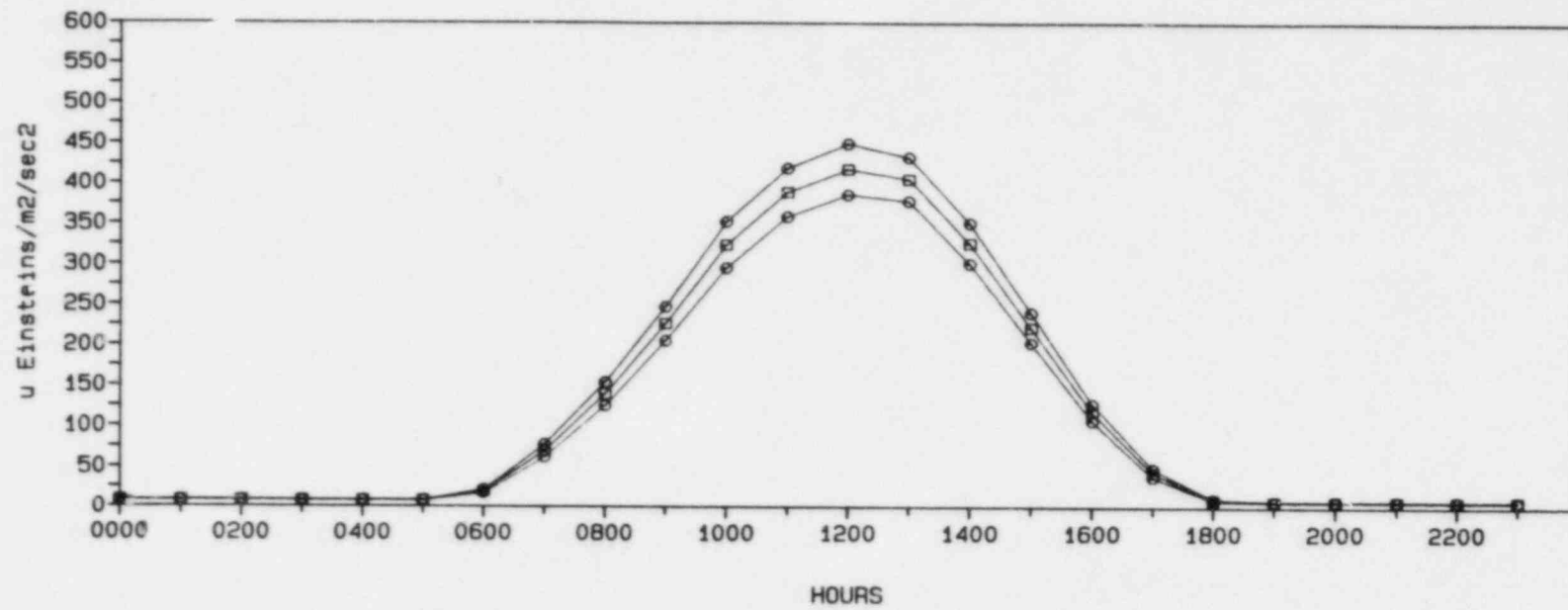
MONTHLY STATISTICAL SUMMARY FOR THE TIME PERIOD OF 01 SEP 85 TO 31 DEC 85  
STATION: 07 LEVEL: 10 TYPE OF MEASUREMENT: LIGHT IN UNITS OF  $\mu$  Einsteins

PAGE 04

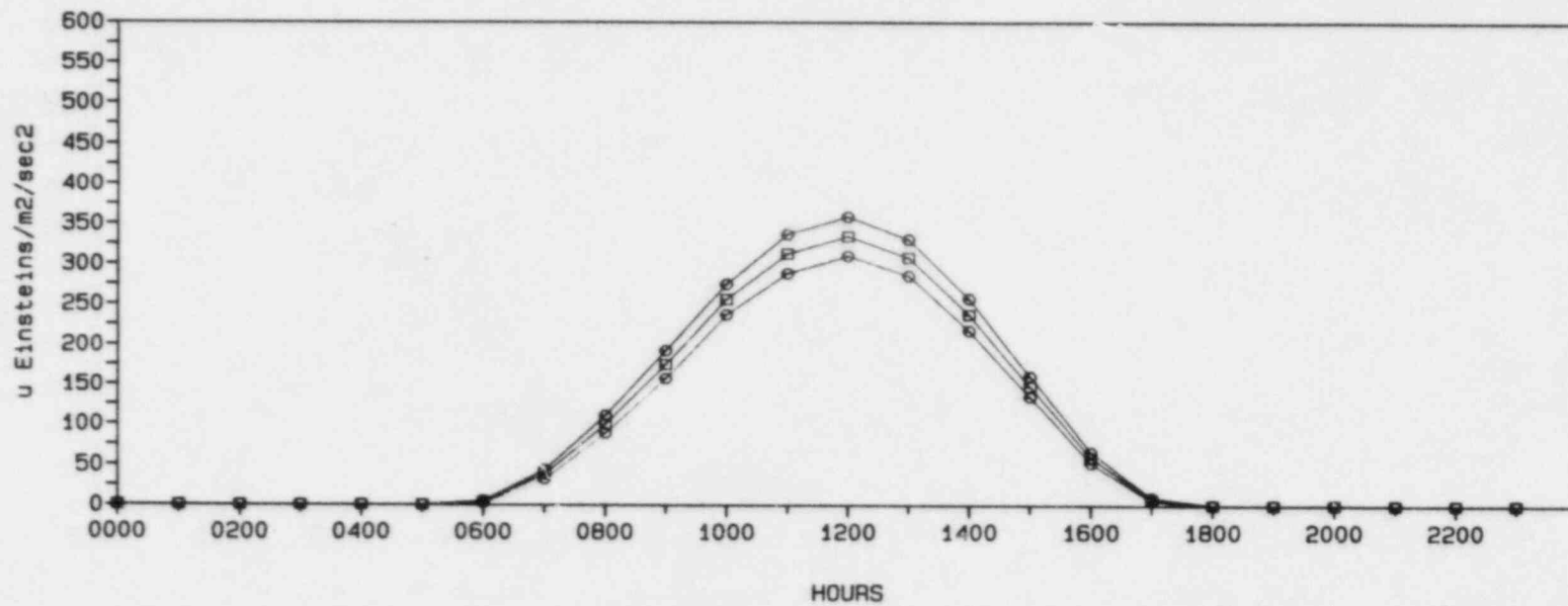
Data for the month of DEC 1985

NO DATA FOR THAT PERIOD  
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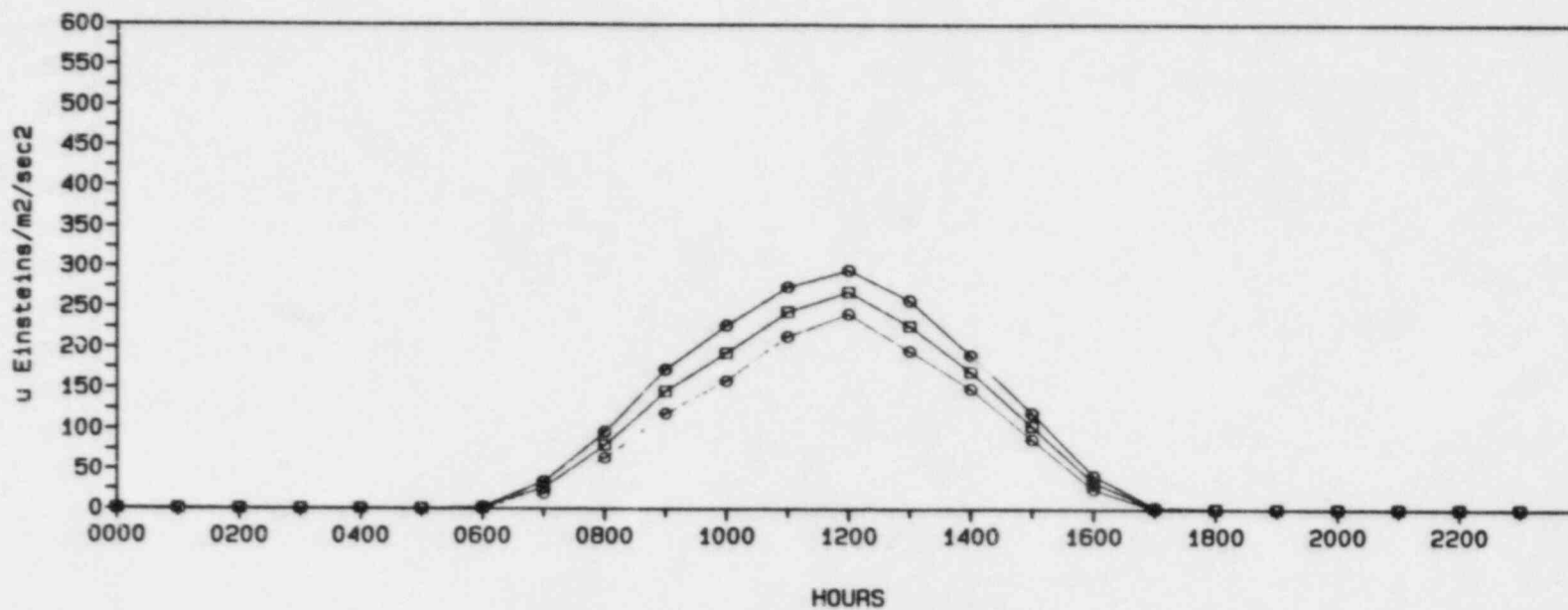
PLOT OF HOURLY MEAN LIGHT VALUES AT STATION 07-10 FOR SEPTEMBER, 1985  
(upper and lower lines are + and - 2 std. errors)



PLOT OF HOURLY MEAN LIGHT VALUES AT STATION 07-10 FOR OCTOBER, 1985  
(upper and lower lines are + and - 2 std. errors)



PLOT OF HOURLY MEAN LIGHT VALUES AT STATION 07-10 FOR NOVEMBER, 1985  
(upper and lower lines are + and - 2 std. errors)





MONTHLY STATISTICAL SUMMARY FOR THE TIME PERIOD OF 01 SEP 85 TO 31 DEC 85  
 STATION: 11 LEVEL: 10 TYPE OF MEASUREMENT: LIGHT IN UNITS OF  $\mu$  Einsteins

Data for the month of SEP 1985

HOUR	N	MEAN	MAX	MIN	SUM	SUM SQ.	STD. DEV	STD. ERR	+2 STD. ERR	-2 STD. ERR
0000	90	0.2	1	0	15	15	0.4	0.0	0.2	0.1
0100	90	0.2	1	0	15	15	0.4	0.0	0.2	0.1
0200	90	0.2	1	0	15	15	0.4	0.0	0.2	0.1
0300	90	0.2	1	0	15	15	0.4	0.0	0.2	0.1
0400	90	0.2	1	0	15	15	0.4	0.0	0.2	0.1
0500	90	0.2	1	0	15	15	0.4	0.0	0.2	0.1
0600	90	6.8	37	0	612	10628	8.5	0.9	3.6	5.0
0700	90	41.7	143	0	3752	273620	37.1	3.9	49.5	33.9
0800	90	100.9	272	0	9079	1433740	80.2	8.5	117.2	84.0
0900	90	168.9	435	0	15156	3688930	121.9	12.8	194.6	143.2
1000	89	249.1	665	0	22168	7984730	167.3	17.7	284.5	213.6
1100	90	311.1	719	0	27998	12049100	195.7	20.4	351.9	270.3
1200	90	330.4	821	0	29737	14200100	221.7	23.4	377.2	283.7
1300	90	290.3	660	0	26129	10557400	182.7	19.3	323.8	251.8
1400	90	241.1	521	0	21699	7133200	146.9	15.5	272.1	210.1
1500	90	163.8	411	0	14739	3331450	101.5	10.7	185.2	142.4
1600	90	79.6	191	0	7160	730708	48.7	5.1	89.8	69.3
1700	90	23.4	88	0	2104	90098	21.4	2.3	27.9	18.9
1800	90	1.1	19	0	99	835	2.9	0.3	1.7	0.5
1900	90	0.2	1	0	18	18	0.4	0.0	0.3	0.1
2000	90	0.2	1	0	18	18	0.4	0.0	0.3	0.1
2100	90	0.2	1	0	18	18	0.4	0.0	0.3	0.1
2200	90	0.2	1	0	18	18	0.4	0.0	0.3	0.1
2300	90	0.2	1	0	18	18	0.4	0.0	0.3	0.1

MONTHLY STATISTICAL SUMMARY FOR THE TIME PERIOD OF 01 SEP 85 TO 31 DEC 85  
 STATION: 11 LEVEL: 10 TYPE OF MEASUREMENT: LIGHT IN UNITS OF  $\mu$  Einsteins

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Data for the month of OCT 1985

HOUR	N	MEAN	MAX	MIN	SUM	SUM.SQ.	STD.DEV	STD.ERR	+2 STD.ERR	-2 STD.ERR
0000	93	1.0	1	1	93	93	0.0	0.0	0.0	0.0
0100	93	1.0	1	1	93	93	0.0	0.0	0.0	0.0
0200	93	1.0	1	1	93	93	0.0	0.0	0.0	0.0
0300	93	1.0	1	1	93	93	0.0	0.0	0.0	0.0
0400	93	1.0	1	1	93	93	0.0	0.0	0.0	0.0
0500	93	1.0	1	1	93	93	0.0	0.0	0.0	0.0
0600	93	5.4	51	1	499	9531	8.0	0.8	7.0	3.7
0700	93	33.3	177	1	3562	260306	36.7	3.8	45.9	30.7
0800	93	105.5	321	1	9812	1574460	76.6	7.9	121.4	89.6
0900	93	193.5	501	8	18457	5116320	125.7	13.0	224.5	172.4
1000	93	235.7	747	8	26567	9485780	143.6	14.9	315.4	255.9
1100	93	351.4	821	15	32683	14348400	176.4	18.3	388.0	314.8
1200	93	371.9	735	44	34567	15597600	172.4	17.9	407.7	336.1
1300	93	355.3	634	60	33039	13814800	150.3	15.6	386.4	324.1
1400	93	247.4	524	22	23006	7090540	123.3	12.8	275.0	221.8
1500	93	154.1	344	8	14330	2767330	78.0	8.1	170.3	137.9
1600	93	55.6	176	1	5174	413630	37.0	3.8	63.3	48.0
1700	93	9.0	72	1	836	22664	12.8	1.3	11.7	6.3
1800	93	1.0	1	1	93	93	0.0	0.0	0.0	0.0
1900	93	1.0	1	1	93	93	0.0	0.0	0.0	0.0
2000	93	1.0	1	1	93	93	0.0	0.0	0.0	0.0
2100	93	1.0	1	1	93	93	0.0	0.0	0.0	0.0
2200	93	1.0	1	1	93	93	0.0	0.0	0.0	0.0
2300	93	1.0	1	1	93	93	0.0	0.0	0.0	0.0

MONTHLY STATISTICAL SUMMARY FOR THE TIME PERIOD OF 01 SEP 85 TO 31 DEC 85  
 STATION: 11 LEVEL: 10 TYPE OF MEASUREMENT: LIGHT IN UNITS OF  $\mu$  Einsteins

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Data for the month of NOV 1985

HOUR	N	MEAN	MAX	MIN	SUM	SUM SQ.	STD.DEV	STD.ERR	+2 STD.ERR	-2 STD.ERR
0000	57	1.0	1	1	57	57	0.0	0.0	0.0	0.0
0100	57	1.0	1	1	57	57	0.0	0.0	0.0	0.0
0200	57	1.0	1	1	57	57	0.0	0.0	0.0	0.0
0300	57	1.0	1	1	57	57	0.0	0.0	0.0	0.0
0400	57	1.0	1	1	57	57	0.0	0.0	0.0	0.0
0500	57	1.0	1	1	57	57	0.0	0.0	0.0	0.0
0600	57	1.6	6	1	91	329	1.0	0.2	2.1	1.1
0700	57	23.1	78	1	1319	44297	15.7	2.1	27.3	19.0
0800	57	93.5	213	1	5613	715275	53.9	7.1	112.7	84.2
0900	57	174.2	341	1	9931	2169110	88.5	11.7	197.7	150.8
1000	57	266.2	436	11	15171	4727060	110.9	14.7	295.5	236.8
1100	57	314.4	560	95	17921	6305610	109.5	14.5	343.4	285.4
1200	57	317.7	540	2	18110	6753010	133.6	17.7	353.1	202.3
1300	57	265.4	512	1	15126	5054910	136.3	18.1	301.5	229.3
1400	54	187.7	427	30	10136	2377050	94.6	12.9	213.5	162.0
1500	56	108.4	243	8	6063	830416	56.1	7.5	123.3	95.4
1600	57	27.6	75	1	1575	60419	17.4	2.3	32.2	23.0
1700	57	1.6	8	1	89	301	1.7	0.2	2.0	1.1
1800	57	1.0	1	1	57	57	0.0	0.0	0.0	0.0
1900	57	1.0	1	1	57	57	0.0	0.0	0.0	0.0
2000	57	1.0	1	1	57	57	0.0	0.0	0.0	0.0
2100	57	1.0	1	1	57	57	0.0	0.0	0.0	0.0
2200	57	1.0	1	1	57	57	0.0	0.0	0.0	0.0
2300	55	1.0	1	1	55	55	0.0	0.0	0.0	0.0

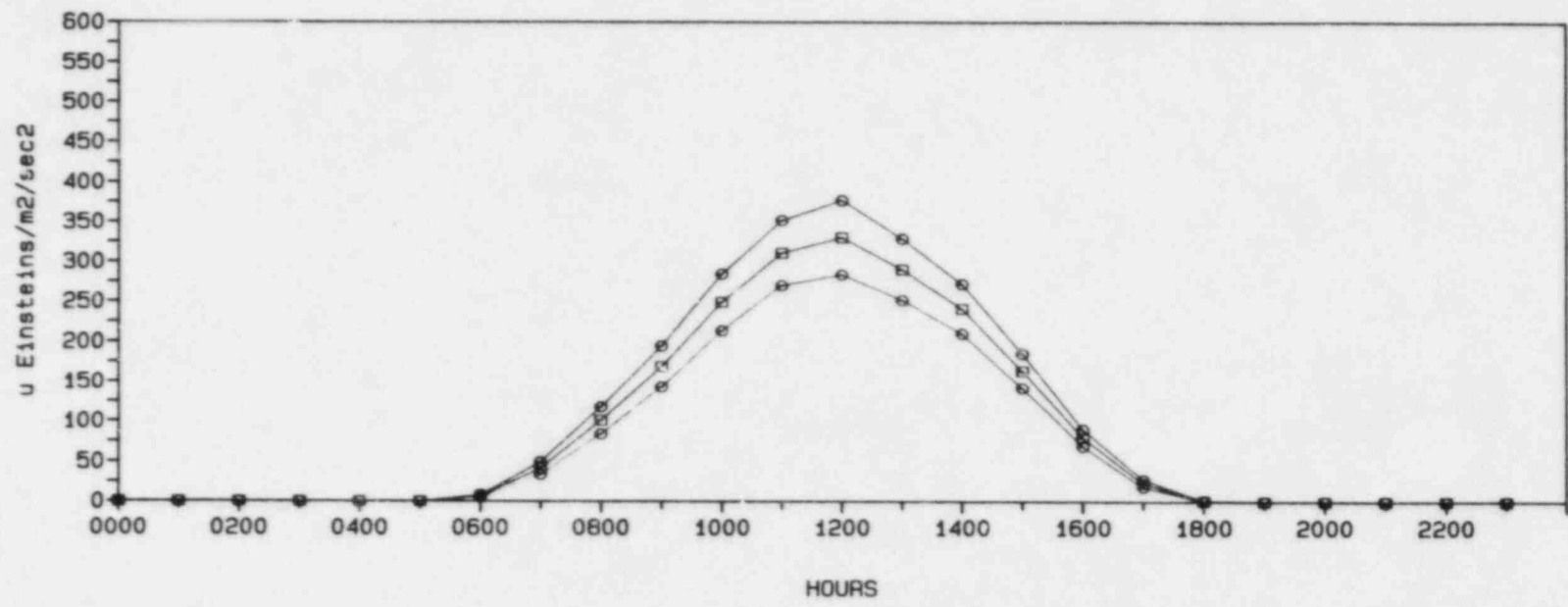
MONTHLY STATISTICAL SUMMARY FOR THE TIME PERIOD OF 01 SEP 85 TO 31 DEC 85  
STATION: 11 LEVEL: 10 TYPE OF MEASUREMENT: LIGHT IN UNITS OF  $\mu$  Einsteins

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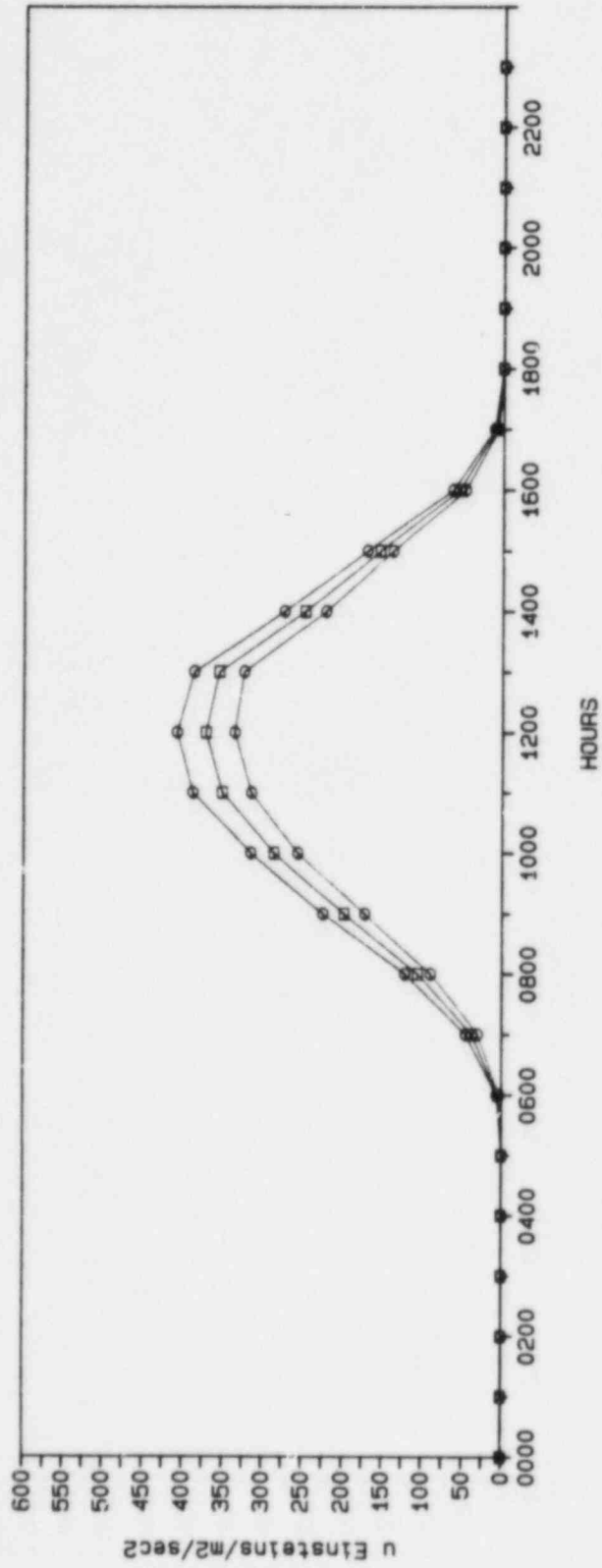
Data for the month of DEC 1985

NO DATA FOR THAT PERIOD  
\*\*\*\*\*

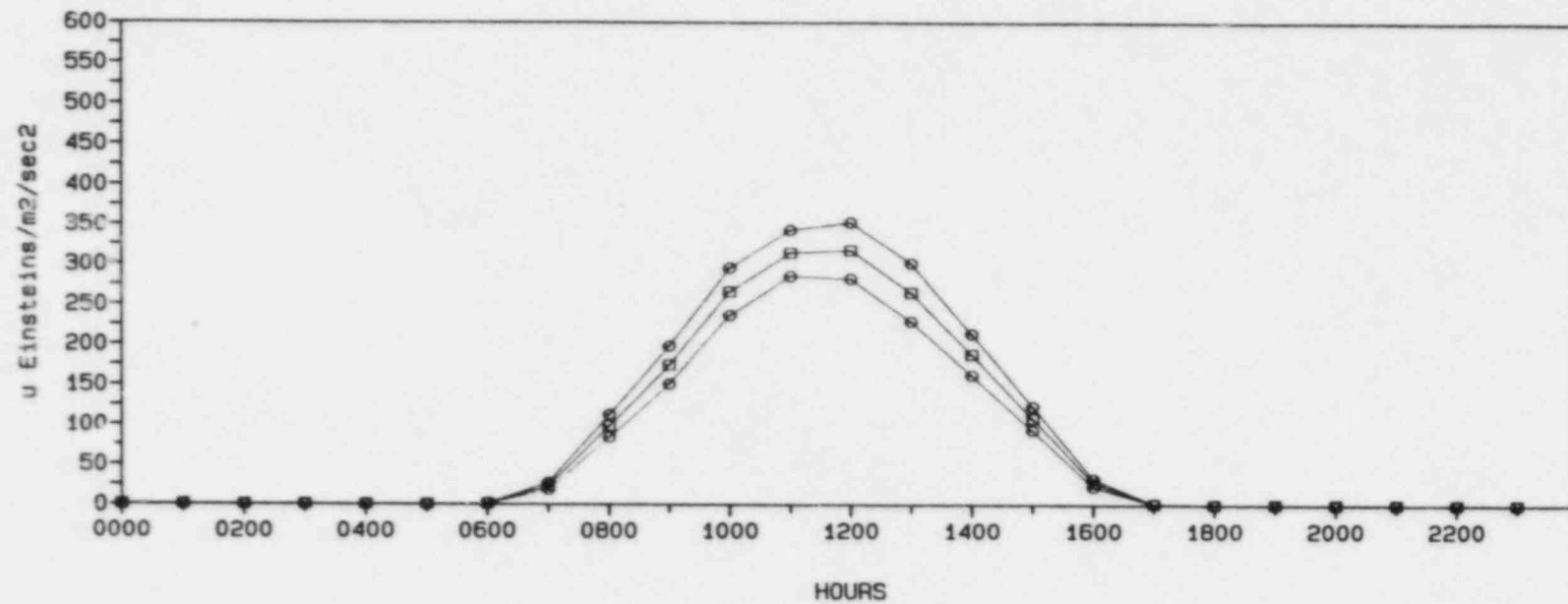
PLOT OF HOURLY MEAN LIGHT VALUES AT STATION 11-10 FOR SEPTEMBER, 1985  
(upper and lower lines are + and - 2 std. errors)



PLOT OF HOURLY MEAN LIGHT VALUES AT STATION 11-10 FOR OCTOBER, 1985  
(upper and lower lines are + and - 2 std. errors)



PLOT OF HOURLY MEAN LIGHT VALUES AT STATION 11-10 FOR NOVEMBER, 1985  
(upper and lower lines are + and - 2 std. errors)



MONTHLY STATISTICAL SUMMARY FOR THE TIME PERIOD OF 01 SEP 85 TO 31 DEC 85  
 STATION: 11 LEVEL: 15 TYPE OF MEASUREMENT: LIGHT IN UNITS OF  $\mu$  Einsteins

PAGE 01

Data for the month of SEP 1985

HOUR	N	MEAN	MAX	MIN	SUM	SUM.SQ.	STD.DEV	STD.ERR	+2 STD.ERR	-2 STD.ERR
0000	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
0100	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
0200	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
0300	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
0400	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
0500	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
0600	63	11.1	23	2	699	9249	4.9	0.6	12.3	9.9
0700	87	34.2	96	7	2973	137949	20.6	2.2	38.6	29.8
0800	89	79.9	186	2	7109	750997	46.6	4.9	89.8	70.0
0900	90	135.6	271	7	12200	2070630	68.4	7.2	150.0	121.1
1000	90	193.6	404	10	17421	4199900	96.4	10.2	213.9	173.2
1100	90	223.0	399	10	20524	5511170	96.6	10.2	248.4	207.7
1200	90	249.0	412	10	22483	6339560	90.1	9.5	268.8	230.8
1300	90	219.1	355	10	19721	4788550	72.5	7.6	234.4	203.8
1400	90	175.4	232	61	15733	3016910	52.7	5.6	186.5	164.3
1500	90	115.4	197	10	10303	1316170	36.5	3.8	123.1	107.7
1600	90	53.7	115	19	5233	352227	21.8	2.3	63.3	54.1
1700	83	20.2	67	2	1775	48387	12.0	1.3	22.7	17.6
1800	13	8.5	10	5	111	997	2.0	0.6	9.7	7.4
1900	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
2000	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
2100	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
2200	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
2300	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0



MONTHLY STATISTICAL SUMMARY FOR THE TIME PERIOD OF 01 SEP 85 TO 31 DEC 85  
 STATION: 11 LEVEL: 15 TYPE OF MEASUREMENT: LIGHT IN UNITS OF  $\mu$  Einsteins

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Data for the month of OCT 1985

HOUR	N	MEAN	MAX	MIN	SUM	SUM SQ.	STD.DEV	STD.ERR	+2 STD.ERR	-2 STD.ERR
0000	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
0100	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
0200	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
0300	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
0400	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
0500	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
0600	29	8.2	19	0	237	2499	4.5	0.8	9.8	6.5
0700	80	17.6	30	0	1410	47756	17.0	1.9	21.4	13.8
0800	93	43.0	185	2	4456	399444	44.6	4.6	57.3	30.7
0900	93	93.7	295	6	8711	1350240	76.2	7.9	109.5	77.9
1000	93	120.4	392	2	11944	2304130	91.5	9.5	147.4	109.5
1100	93	156.4	436	8	14547	3320690	107.0	11.1	170.6	134.2
1200	93	173.1	407	6	16097	3835060	106.8	11.1	195.2	150.9
1300	93	151.9	336	6	14124	2647650	87.4	9.1	170.0	133.7
1400	93	107.4	256	8	9965	1495920	67.9	7.0	121.4	93.3
1500	93	63.3	180	6	5891	533041	41.7	4.3	72.0	54.7
1600	91	25.4	99	0	2315	68003	13.0	1.9	29.2	21.7
1700	43	9.4	31	0	449	5765	5.8	0.8	11.0	7.7
1800	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
1900	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
2000	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
2100	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
2200	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
2300	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0

MONTHLY STATISTICAL SUMMARY FOR THE TIME PERIOD OF 01 SEP 85 TO 31 DEC 85  
 STATION: 11 LEVEL: 15 TYPE OF MEASUREMENT: LIGHT IN UNITS OF  $\mu$  Einsteins

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Data for the month of NOV 1985

HOUR	N	MEAN	MAX	MIN	SUM	SUM SQ.	STD. DEV	STD. ERR	+2 STD. ERR	-2 STD. ERR
0000	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
0100	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
0200	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
0300	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
0400	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
0500	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
0600	8	4.8	8	0	38	292	4.0	1.4	7.6	1.9
0700	37	13.0	42	2	481	9171	9.0	1.5	16.0	10.0
0800	43	35.5	94	6	1568	30240	23.4	3.6	43.6	29.3
0900	44	72.0	160	6	3167	306335	42.8	6.5	84.9	59.1
1000	45	98.5	207	8	4431	550361	50.9	7.6	113.6	83.3
1100	45	120.6	220	6	5428	765034	50.1	7.5	135.5	105.7
1200	45	126.9	199	39	5709	830009	49.2	7.3	141.5	112.2
1300	43	92.3	132	19	3969	464607	48.4	7.4	107.1	77.6
1400	42	64.4	163	11	2706	241404	40.4	6.2	76.9	51.9
1500	41	40.3	96	8	1654	85032	21.4	3.3	47.0	33.7
1600	40	12.4	42	2	495	8677	8.1	1.3	14.9	9.8
1700	7	5.4	8	2	33	244	2.5	0.9	7.3	3.5
1800	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
1900	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
2000	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
2100	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
2200	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0
2300	0	0.0	0	0	0	0	0.0	0.0	0.0	0.0

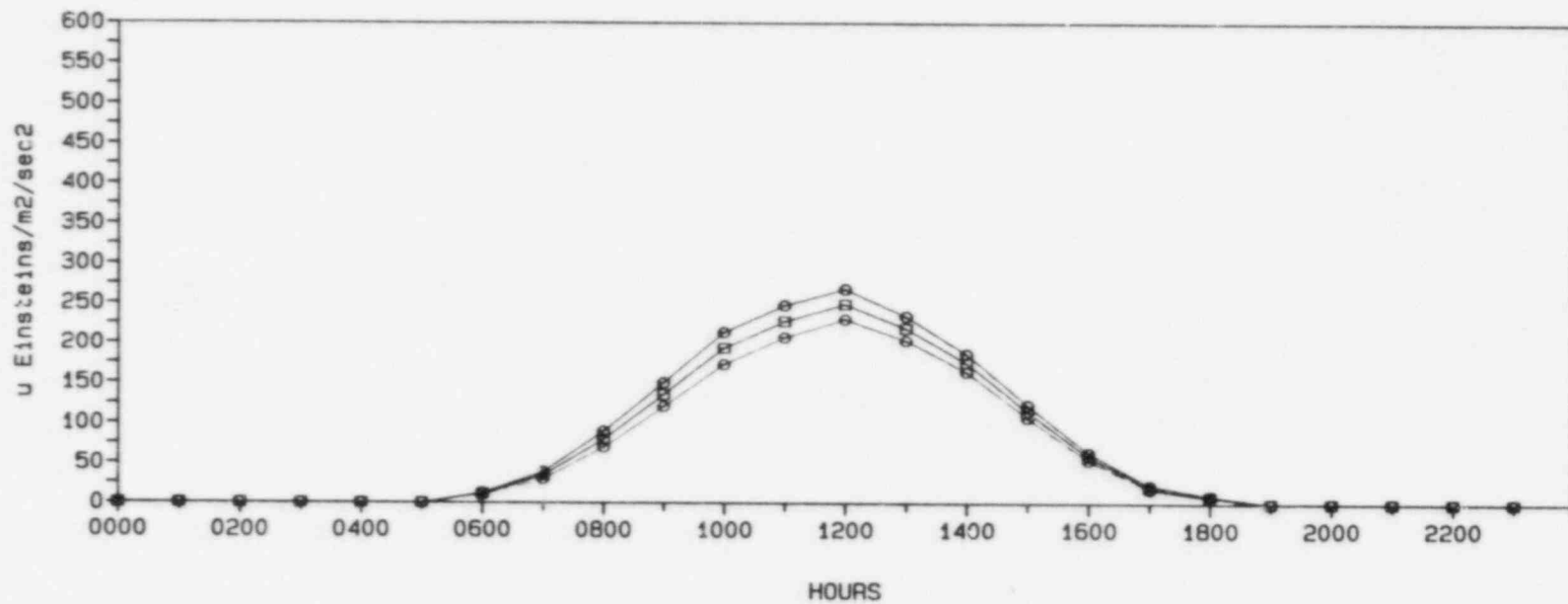
MONTHLY STATISTICAL SUMMARY FOR THE TIME PERIOD OF 01 SEP 85 TO 31 DEC 85  
STATION: 11 LEVEL: 15 TYPE OF MEASUREMENT: LIGHT IN UNITS OF  $\mu$  Einsteins

Data for the month of DEC 1985

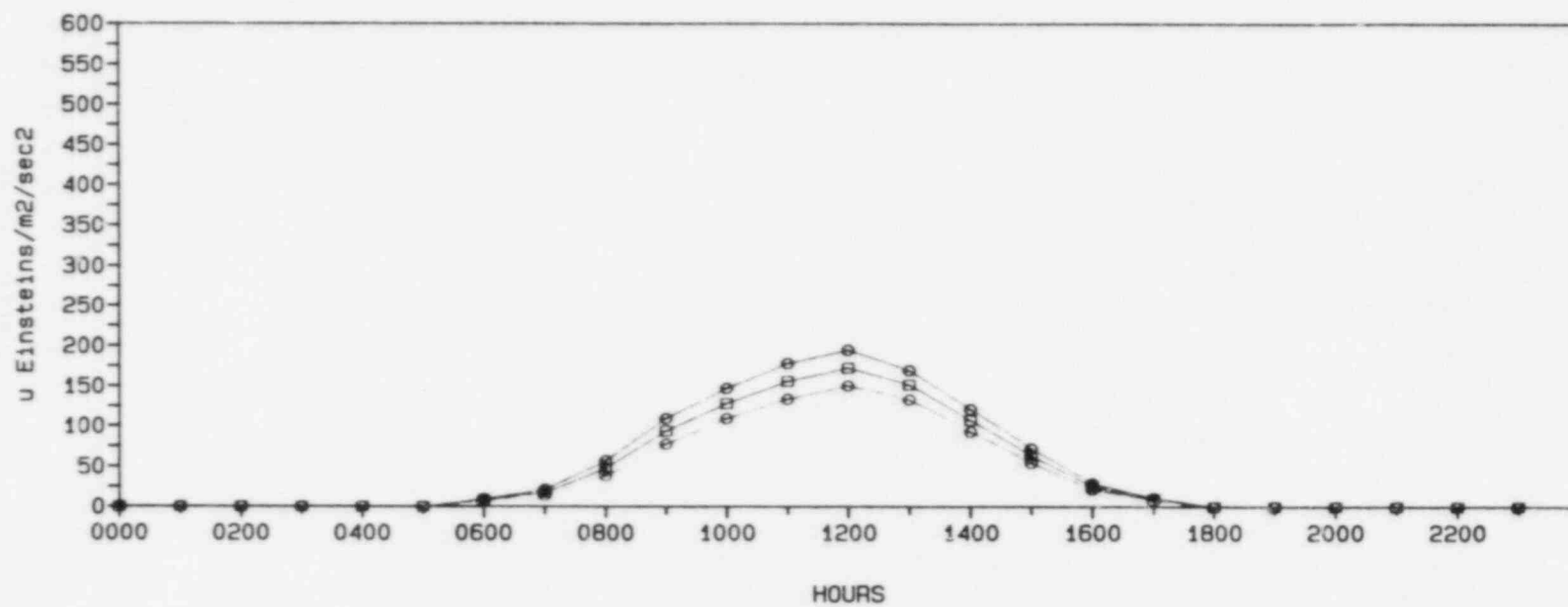
NO DATA FOR THAT PERIOD

\*\*\*\*\*

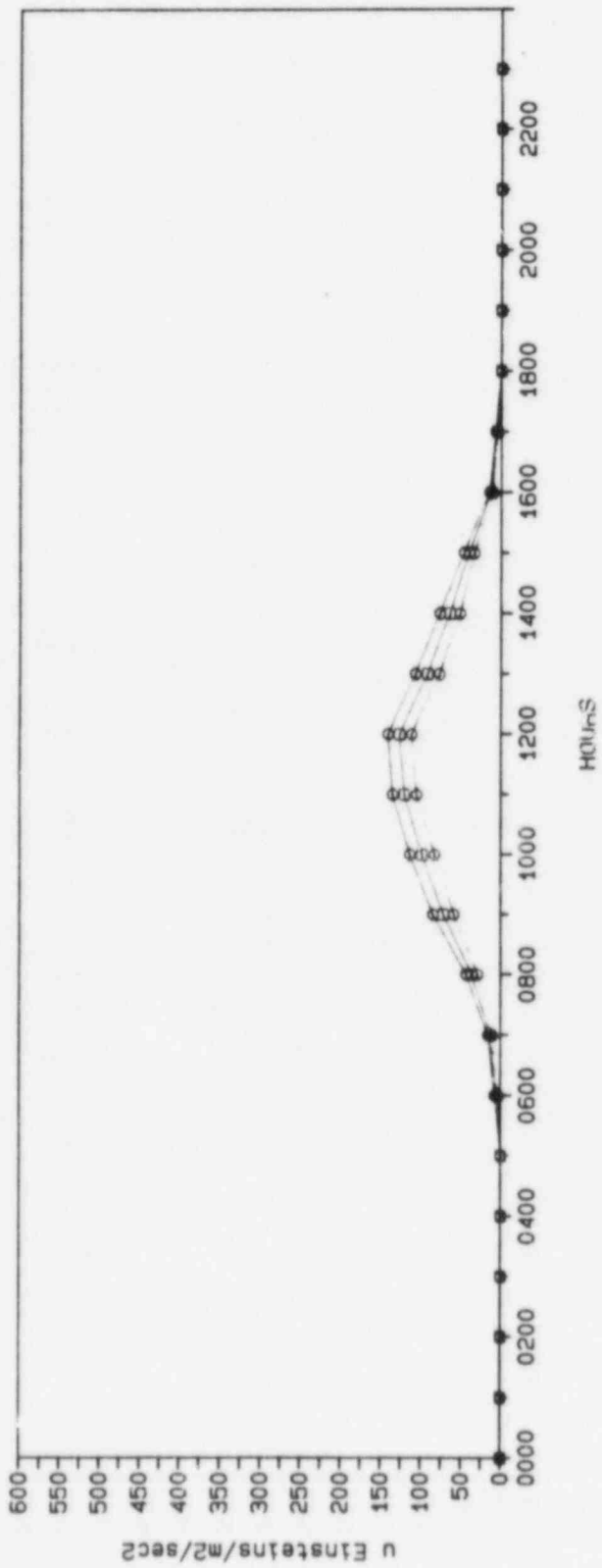
PLOT OF HOURLY MEAN LIGHT VALUES AT STATION 11-15 FOR SEPTEMBER, 1985  
(upper and lower lines are + and - 2 std. errors)



PLOT OF HOURLY MEAN LIGHT VALUES AT STATION 11-15 FOR OCTOBER, 1985  
(upper and lower lines are + and - 2 std. errors)



PLOT OF HOURLY MEAN LIGHT VALUES AT STATION 11-15 FOR NOVEMBER, 1985  
(upper and lower lines are + and - 2 std. errors)



MONTHLY STATISTICAL SUMMARY FOR THE TIME PERIOD OF 01 SEP 85 TO 31 DEC 85  
 STATION: 99 LEVEL: 35 TYPE OF MEASUREMENT: SOLAR IN UNITS OF  $\mu$  Einsteins

PAGE 01

Data for the month of SEP 1985

HOUR	N	MEAN	MAX	MIN	SUM	SUM.SQ.	STD.DEV	STD.ERR	+2 STD.ERR	-2 STD.ERR
0000	90	24.8	29	18	2230	56618	3.9	0.4	25.6	24.0
0100	87	24.8	29	18	2154	54534	4.0	0.4	25.6	23.9
0200	87	24.8	30	18	2157	54345	4.0	0.4	25.6	23.9
0300	90	24.8	29	18	2236	56254	3.8	0.4	25.7	24.0
0400	90	24.7	29	18	2225	56201	3.8	0.4	25.5	23.9
0500	90	25.4	37	19	2283	59749	4.5	0.5	26.3	24.4
0600	87	75.5	222	25	6571	715141	50.4	5.4	86.3	64.7
0700	89	210.8	445	56	18758	5047030	111.5	11.8	234.4	187.1
0800	90	375.7	630	89	33814	15131300	165.1	17.4	410.5	340.9
0900	90	515.6	738	122	46401	27054600	137.6	19.8	555.1	476.0
1000	90	635.0	920	175	57153	40235300	210.4	22.2	679.4	590.7
1100	90	609.3	834	156	62037	45920000	180.6	19.9	720.1	649.5
1200	90	710.2	959	330	64634	48251200	145.5	15.1	743.4	607.9
1300	90	667.3	954	297	60053	41674600	134.2	14.2	695.6	639.0
1400	90	539.7	730	240	48571	27665500	127.8	13.5	566.6	512.7
1500	90	374.7	567	118	33722	13999000	123.8	13.0	400.8	343.6
1600	90	210.1	382	52	13913	4557440	80.9	8.5	227.2	193.1
1700	90	70.0	134	21	6293	566952	37.7	4.0	77.9	62.0
1800	90	25.8	34	19	2145	52069	3.5	0.3	24.5	23.1
1900	90	24.4	29	18	2193	54343	3.7	0.4	25.1	23.6
2000	90	24.5	29	18	2206	55260	3.7	0.4	25.3	23.7
2100	90	24.5	29	18	2209	55501	3.8	0.4	25.3	23.7
2200	90	24.6	29	18	2214	55052	3.9	0.4	25.4	23.8
2300	90	24.6	30	18	2216	55998	4.0	0.4	25.5	23.8

MONTHLY STATISTICAL SUMMARY FOR THE TIME PERIOD OF 01 SEP 85 TO 31 DEC 85  
 STATION: 99 LEVEL: 35 TYPE OF MEASUREMENT: SOLAR IN UNITS OF  $\mu$  Einsteins

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Data for the month of OCT 1985

HOUR	N	MEAN	MAX	MIN	SUM	SUM.SQ.	STD.DEV	STD.ERR	+2 STD.ERR	-2 STD.ERR
0000	91	25.5	31	20	2317	60105	3.5	0.4	25.2	24.7
0100	95	25.5	32	20	2376	61886	3.6	0.4	26.3	24.8
0200	91	25.5	32	20	2325	60551	3.6	0.4	26.3	24.8
0300	83	25.5	32	20	2246	58386	3.5	0.4	26.3	24.8
0400	87	25.6	32	20	2227	58065	3.5	0.4	26.4	24.8
0500	87	25.4	31	20	2207	56847	3.2	0.3	26.0	24.7
0600	89	59.2	141	24	5269	412777	33.9	3.6	66.4	52.0
0700	90	185.1	386	41	16657	3701660	83.4	8.8	202.7	167.5
0800	90	336.1	498	93	30251	11530100	123.7	13.0	362.2	310.0
0900	90	463.0	675	152	41667	21223200	147.4	15.5	494.0	431.9
1000	92	553.1	735	162	50631	30207300	150.7	15.7	584.5	521.6
1100	93	614.6	874	170	57156	37116000	147.0	15.2	645.1	584.1
1200	93	606.5	765	201	56405	36033100	140.8	14.6	635.7	577.3
1300	93	529.7	686	122	49263	27718300	132.8	13.8	557.3	502.2
1400	91	417.4	623	100	37905	17104900	117.8	12.4	442.1	392.7
1500	90	257.6	404	56	23136	6649620	87.2	9.2	276.0	239.2
1600	92	110.6	237	29	10175	1362060	51.0	5.3	121.2	100.0
1700	91	30.9	82	22	2015	97767	10.9	1.1	33.2	28.6
1800	90	25.4	31	21	2285	58937	3.2	0.3	26.1	24.7
1900	91	25.3	31	21	2305	59345	3.3	0.3	26.0	24.6
2000	91	25.5	32	21	2323	60319	3.4	0.4	26.2	24.8
2100	90	25.4	32	21	2287	59063	3.3	0.3	26.1	24.7
2200	83	25.5	31	21	2245	58257	3.4	0.4	26.2	24.8
2300	87	25.6	32	21	2225	57801	3.4	0.4	26.3	24.8



MONTHLY STATISTICAL SUMMARY FOR THE TIME PERIOD OF 01 SEP 85 TO 31 DEC 85  
 STATION: 99 LEVEL: 35 TYPE OF MEASUREMENT: SOLAR IN UNITS OF  $\mu$  Einsteins

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Data for the month of NOV 1985

HOURL	N	MEAN	MAX	MIN	SUM	SUM SQ.	STD. DEV	STD. ERR	+2 STD. ERR	-2 STD. ERR
0000	90	22.6	23	20	2032	45933	0.8	0.1	22.8	22.4
0100	90	22.6	23	20	2032	45940	0.8	0.1	22.8	22.4
0200	90	22.6	23	20	2030	45852	0.8	0.1	22.7	22.4
0300	90	22.6	23	20	2031	45895	0.8	0.1	22.7	22.4
0400	90	22.6	24	20	2036	46126	0.9	0.1	22.8	22.4
0500	90	22.6	24	20	2032	45940	0.8	0.1	22.8	22.4
0600	90	30.8	76	21	2769	98051	12.0	1.3	33.3	26.2
0700	90	114.0	235	23	10260	1494060	60.4	6.4	126.7	101.5
0800	90	232.2	452	40	20901	5385130	107.6	11.3	254.9	209.5
0900	90	320.8	524	35	28870	11211400	148.0	15.6	352.0	289.6
1000	90	421.7	613	52	37954	18227500	190.0	16.7	455.0	336.4
1100	90	464.3	773	54	41736	21551600	195.5	16.4	497.1	431.5
1200	90	459.0	730	71	41307	21070600	194.0	16.2	491.4	426.5
1300	90	360.3	543	66	32429	13403300	142.3	15.0	390.3	330.3
1400	90	277.5	492	40	24075	7930360	106.5	11.2	299.0	255.0
1500	89	155.9	266	40	13874	2595080	70.2	7.4	170.8	141.0
1600	87	47.6	122	25	4143	254097	25.7	2.3	53.1	42.1
1700	87	22.7	25	20	1971	44709	0.8	0.1	22.8	22.5
1800	84	22.6	23	20	1399	42903	0.8	0.1	22.8	22.4
1900	85	22.5	23	20	1916	43254	0.9	0.1	22.7	22.4
2000	87	22.6	23	20	1962	44306	0.8	0.1	22.7	22.4
2100	87	22.7	44	20	1973	45494	2.5	0.3	23.3	22.2
2200	87	22.5	23	20	1960	44213	0.8	0.1	22.7	22.3
2300	83	22.6	24	20	1933	44072	0.8	0.1	22.8	22.4

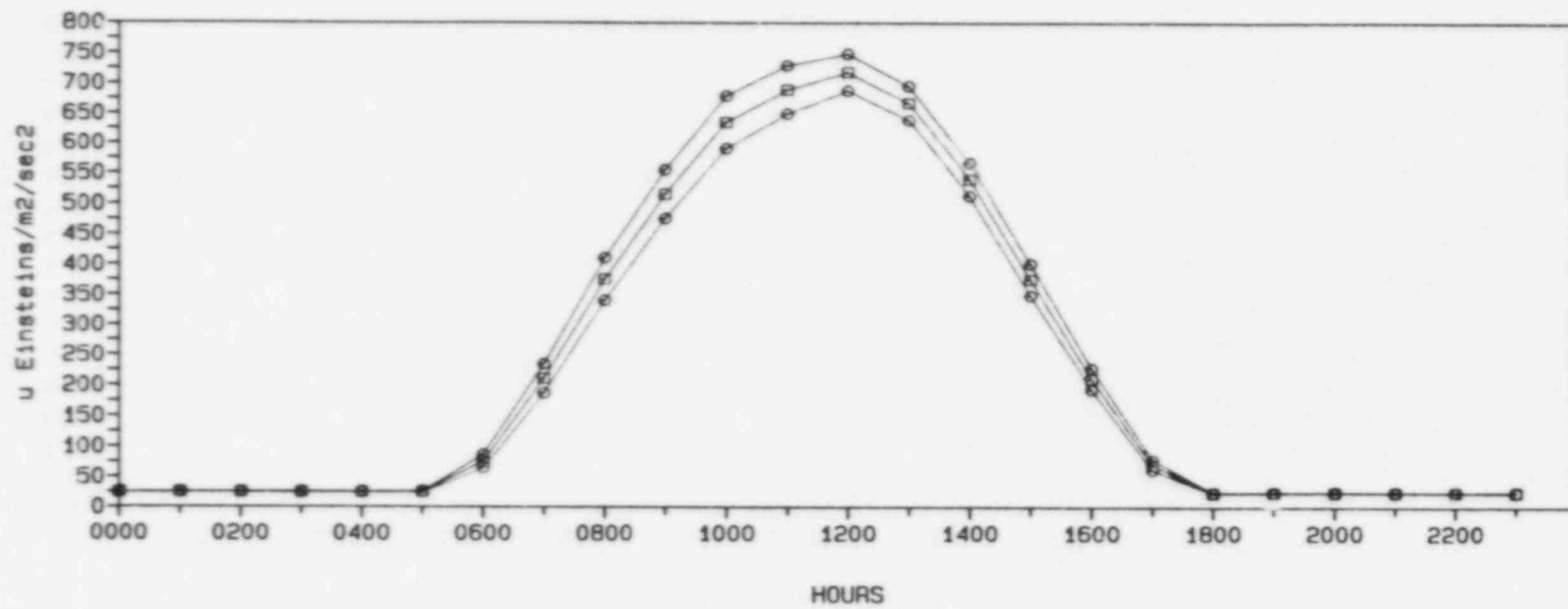
MONTHLY STATISTICAL SUMMARY FOR THE TIME PERIOD OF 01 SEP 85 TO 31 DEC 85  
 STATION: 99 LEVEL: 35 TYPE OF MEASUREMENT: SOLAR IN UNITS OF  $\mu$  Einsteins

PAGE 04

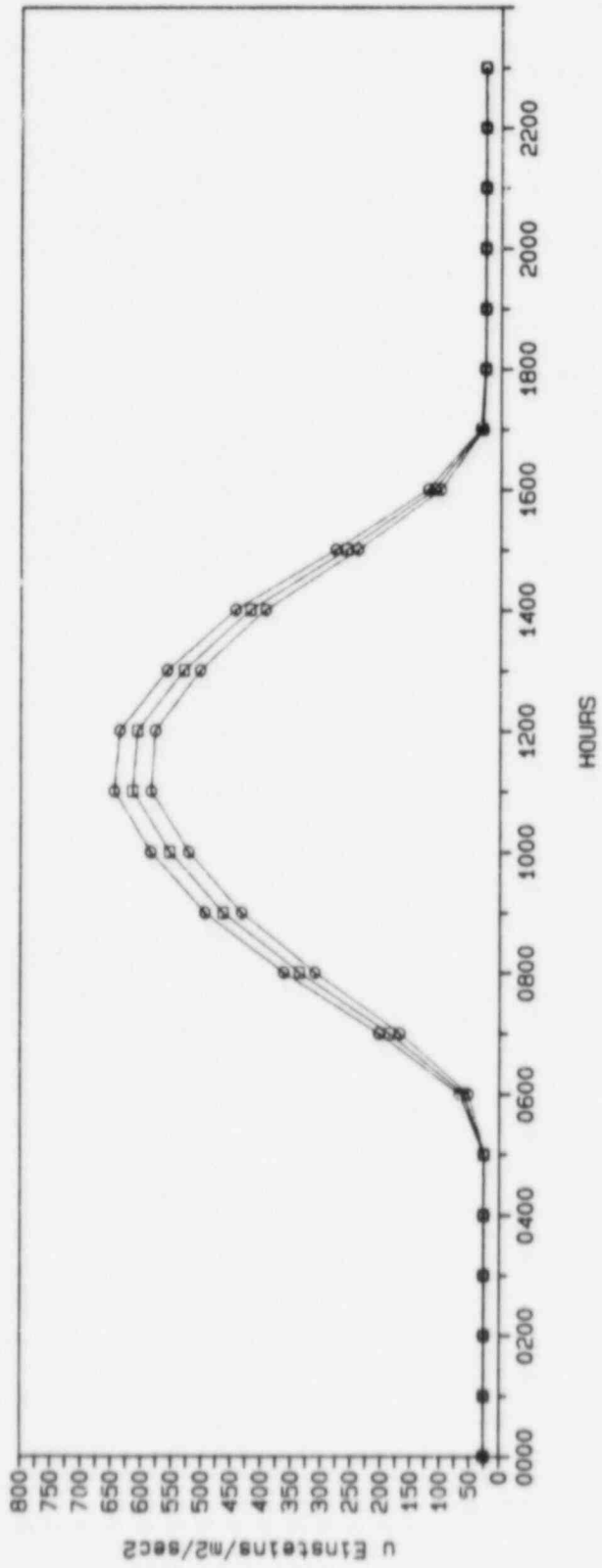
## Data for the month of DEC 1985

HOUR	N	MEAN	MAX	MIN	SUM	SUM.SQ.	STD.DEV	STD.ERR	+2 STD.ERR	-2 STD.ERR
0000	45	23.5	24	23	1059	24933	0.5	0.1	23.7	23.4
0100	45	23.7	24	23	1065	25215	0.5	0.1	23.8	23.5
0200	45	23.4	24	23	1055	24745	0.5	0.1	23.6	23.3
0300	45	23.6	24	23	1061	25027	0.5	0.1	23.7	23.4
0400	45	23.4	25	23	1054	24700	0.5	0.1	23.6	23.3
0500	45	23.6	24	23	1061	25027	0.5	0.1	23.7	23.4
0600	45	24.4	33	23	1090	26938	1.8	0.3	24.9	23.9
0700	47	67.6	134	27	3170	253460	32.5	4.7	77.1	58.1
0800	45	137.3	311	47	8423	1742000	61.0	9.1	205.5	169.1
0900	45	300.8	454	47	13537	4419430	88.8	13.2	327.3	274.3
1000	45	381.9	482	103	17105	7093560	110.3	16.4	414.8	349.0
1100	45	433.9	553	106	19525	9092100	118.7	17.7	469.3	390.5
1200	45	440.6	649	97	19923	9393310	122.2	18.2	477.0	404.2
1300	45	359.0	476	85	16157	6283450	105.2	15.7	390.4	327.7
1400	45	271.1	394	58	12200	3634250	86.2	12.8	295.8	245.4
1500	45	150.1	233	35	6755	1141830	53.9	8.0	166.2	134.0
1600	45	46.3	91	24	2035	113971	20.0	3.0	52.2	40.3
1700	44	23.8	24	23	1045	24027	0.4	0.1	23.9	23.6
1800	42	23.6	24	23	992	23440	0.5	0.1	23.8	23.5
1900	42	23.5	24	23	930	23299	0.5	0.1	23.7	23.4
2000	42	23.6	24	23	992	23440	0.5	0.1	23.8	23.5
2100	42	23.7	24	23	995	23681	0.5	0.1	23.8	23.5
2200	42	23.6	24	23	991	23393	0.5	0.1	23.7	23.4
2300	42	23.6	24	23	992	23440	0.5	0.1	23.8	23.5

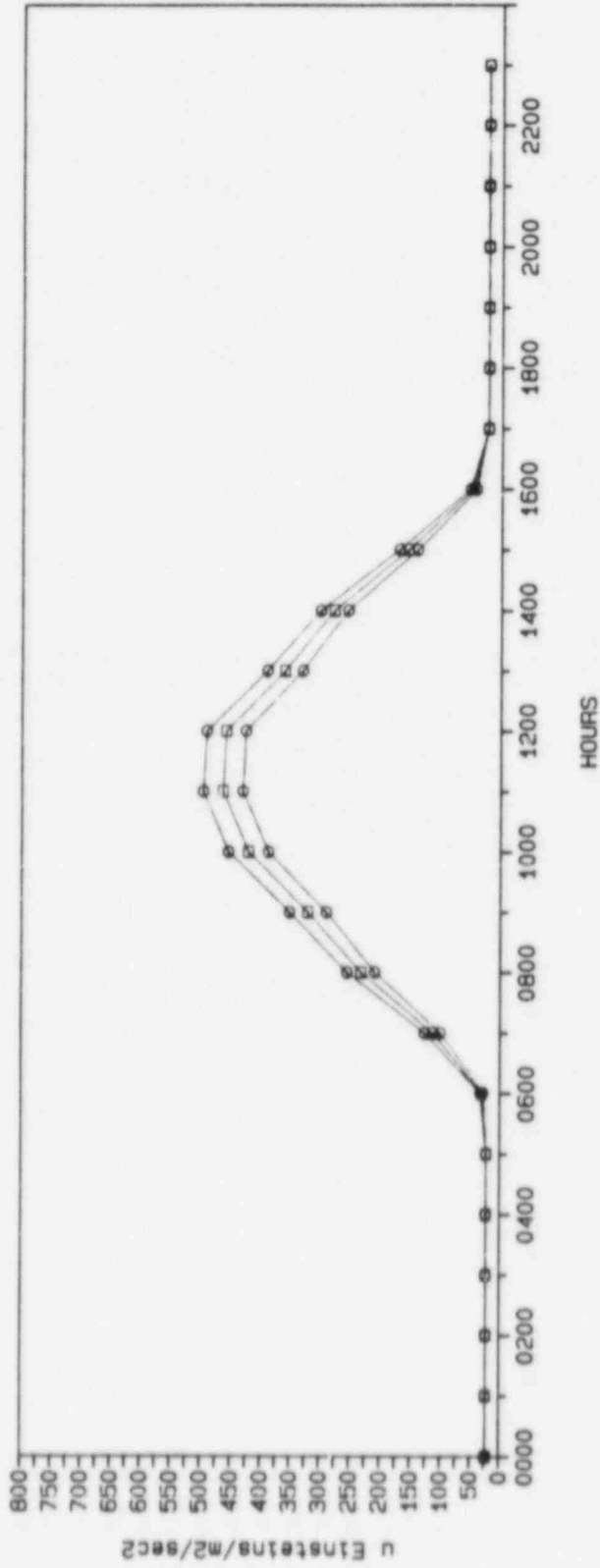
PLOT OF HOURLY MEAN LIGHT VALUES AT STATION 99+35 FOR SEPTEMBER, 1985  
(upper and lower lines are + and - 2 std. errors)



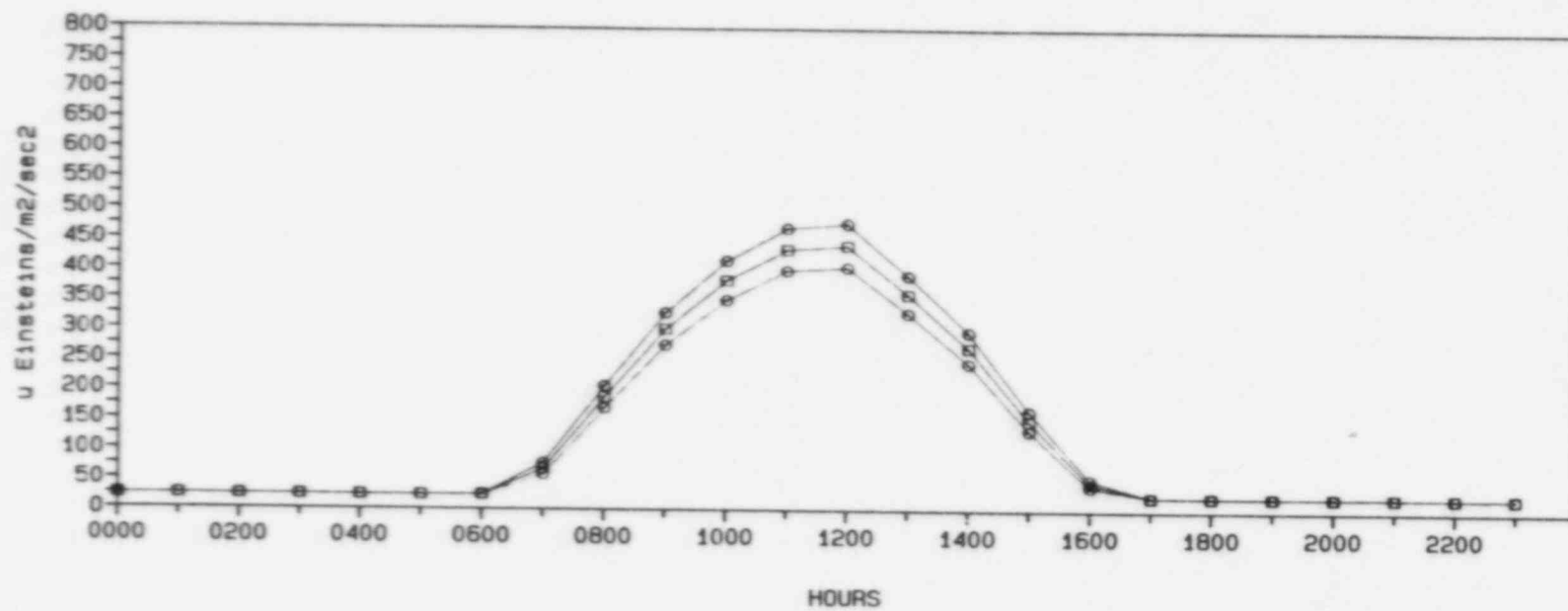
PLOT OF HOURLY MEAN LIGHT VALUES AT STATION 99+35 FOR OCTOBER, 1985  
(upper and lower lines are + and - 2 std. errors)

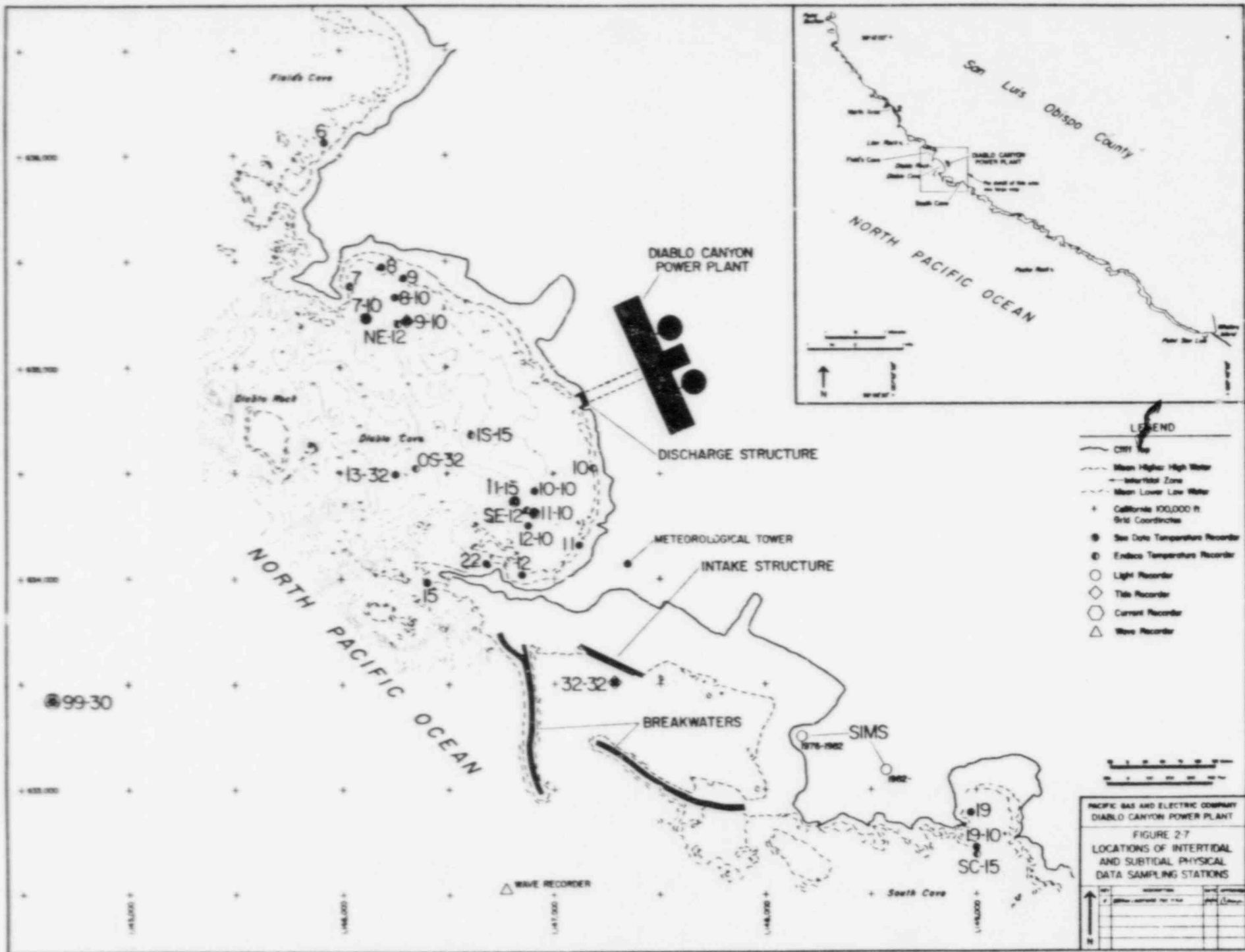


PLOT OF HOURLY MEAN LIGHT VALUES AT STATION 99+35 FOR NOVEMBER, 1985  
(upper and lower lines are + and - 2 std. errors)



PLOT OF HOURLY MEAN LIGHT VALUES AT STATION 99+35 FOR DECEMBER, 1985  
(upper and lower lines are + and - 2 std. errors)





- LEGEND**
- CWT
  - Mean Higher High Water
  - - - Intertidal Zone
  - - - Mean Lower Low Water
  - + California 100,000 ft Grid Coordinates
  - Sea Data Temperature Recorder
  - Endeca Temperature Recorder
  - Light Recorder
  - ◇ Tide Recorder
  - Current Recorder
  - △ Wave Recorder

PACIFIC GAS AND ELECTRIC COMPANY  
 DIABLO CANYON POWER PLANT

**FIGURE 2-7**  
 LOCATIONS OF INTERTIDAL  
 AND SUBTIDAL PHYSICAL  
 DATA SAMPLING STATIONS

Station	Recorder	Year	Status
7-10	Sea Data Temperature Recorder	1976-1982	Active
8-10	Sea Data Temperature Recorder	1976-1982	Active
9-10	Sea Data Temperature Recorder	1976-1982	Active
NE-12	Sea Data Temperature Recorder	1976-1982	Active
15-15	Sea Data Temperature Recorder	1976-1982	Active
10-10	Sea Data Temperature Recorder	1976-1982	Active
SE-12	Sea Data Temperature Recorder	1976-1982	Active
11-10	Sea Data Temperature Recorder	1976-1982	Active
12-10	Sea Data Temperature Recorder	1976-1982	Active
11	Sea Data Temperature Recorder	1976-1982	Active
12	Sea Data Temperature Recorder	1976-1982	Active
15	Sea Data Temperature Recorder	1976-1982	Active
10	Sea Data Temperature Recorder	1976-1982	Active
13-32	Sea Data Temperature Recorder	1976-1982	Active
05-32	Sea Data Temperature Recorder	1976-1982	Active
32-32	Sea Data Temperature Recorder	1976-1982	Active
99-30	Sea Data Temperature Recorder	1976-1982	Active
19	Sea Data Temperature Recorder	1976-1982	Active
19-10	Sea Data Temperature Recorder	1976-1982	Active
SC-15	Sea Data Temperature Recorder	1976-1982	Active

# PACIFIC GAS AND ELECTRIC COMPANY



DIABLO CANYON POWER PLANT  
PO. Box 56 • Avila Beach, California 93424 • (805) 595-7351

R. C. THORNBERRY  
PLANT MANAGER

January 20, 1986

Mr. Kenneth R. Jones, Executive Officer  
California Regional Water Quality Control Board  
Central Coast Region  
1102-A Laurel Lane  
San Luis Obispo, California 93401

Dear Mr. Jones:

Discharge Monitoring and Reporting Program  
Diablo Canyon Power Plant

The monthly report for December 1985 of the Diablo Canyon Power Plant Discharge Monitoring Program, in accordance with Order 85-101, NPDES No. CA0003751 is enclosed.

I certify under penalty of law that I have personally examined and am familiar with the information submitted in the attached document and all enclosures, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the information is true, accurate and complete. The results of the influent and effluent monitoring presented the observed results of the measurements and analyses required by the monitoring program, and is neither an assertion of the adequacy of any instrument reading or any analytical result, nor an endorsement of the appropriateness of any analytical or measurement procedure. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Sincerely,

  
Mr. R.C. THORNBERRY

Enclosure

RCT:cd

IE25  
1.



bcc: WHBarr/TGCasebolt  
DWBehrens  
JVBoots  
PACrane  
MJDoyle/VLWyman  
JBGibson/DJWilliamson  
HMHowe/JFMcKenzie  
BSLew/ERKendle  
RWLorenz/KMGodfrey  
HKMcCluer  
MNNorem  
WAO'Hara  
JARobbins  
JDShiffer  
CPWalton  
JWarrick  
CJWeinberg/JRAdams  
RMS

cc: California Department of Fish and Game  
Marine Resources Region  
245 W. Broadway, Suite 350  
Long Beach, California 90802

Regional Administrator, Region IX  
Environmental Protection Agency  
215 Fremont Street  
San Francisco, California 94105

Regional Administrator  
U. S. Nuclear Regulatory Commission  
Region 5  
1450 Maria Lane, Suite 210  
Walnut Creek, California 94596-5368

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Division of Engineering  
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Washington, DC 20555

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