

ORIGINATING OFFICE NRR

AUTHOR _____

DATE:(or time period covered) 4/8 - 4/13/79DESCRIPTION OF DOCUMENT CONTENTS: CHARTS AND TABLES OF GEOGRAPHIC RADIATION
LEVELS AND ENVIRONMENTAL SUMMARIES

OTHER IDENTIFYING PARTICULARS: _____

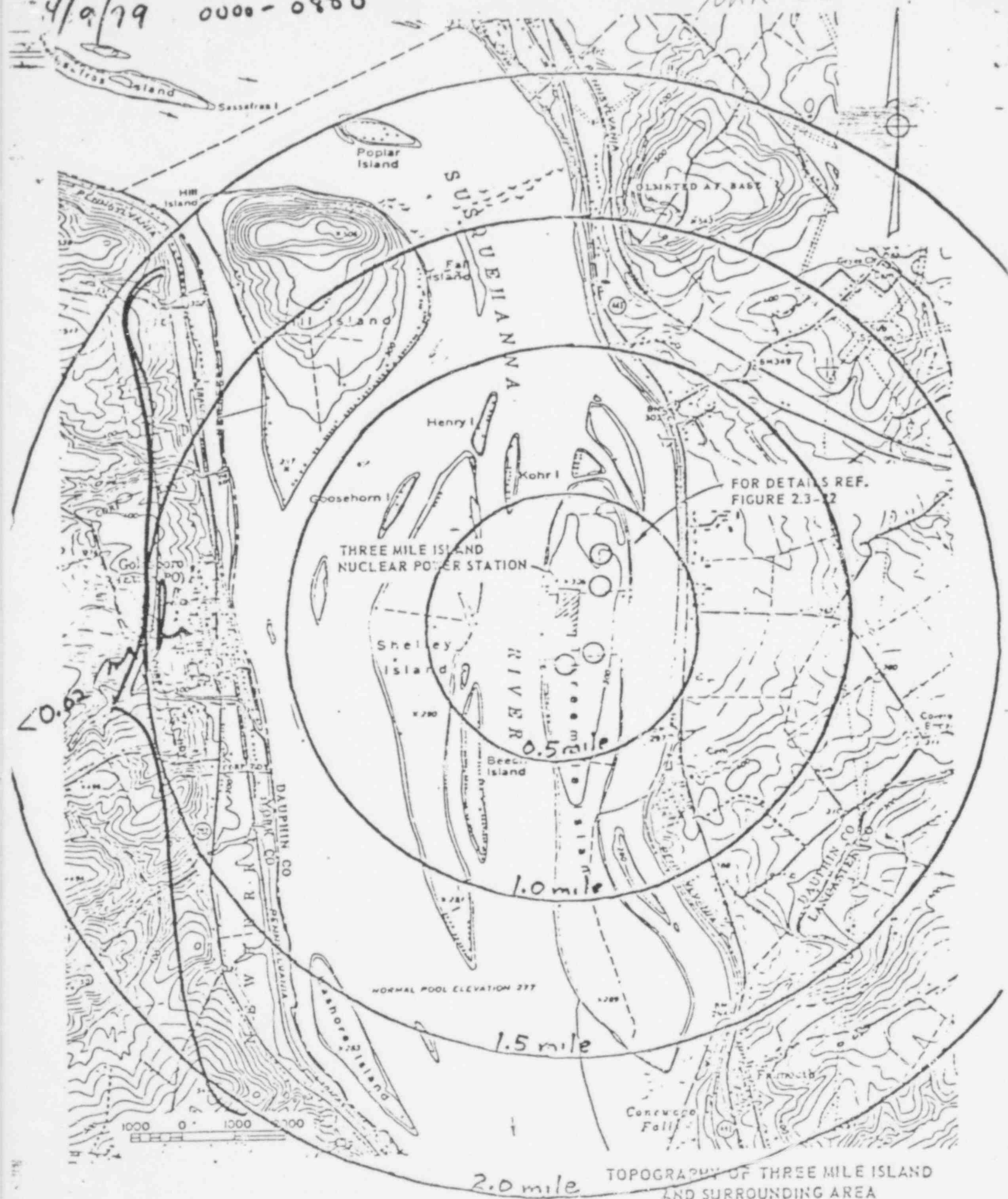
7905220444

161 316

4/9/79

0000-0800

NRR 30



TOPOGRAPHY OF THREE MILE ISLAND
AND SURROUNDING AREA

161 317

THREE MILE ISLAND NUCLEAR STATION UNIT 2

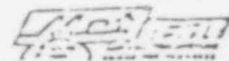


FIGURE 2.3-22A

4/9/79

0000-0800

1)

METEOROLOGICAL DATA

TIME	DIRECTION	SPEED	WIND SPEED	WIND DIR
0000	90°	5		219
0430	90°	5	40	> 10°
0100	90	5	25	> 10°
0130	40-50	4		
0200	90	4	20	9 E 5
0320	90	5		
0400	50-70°	4-6		8.1 E 5
0430	90	6		8.0 E 5
0500	90°	10		> 10°
0535	100	6	18	
0600	90-105	6		
0630	90	6	17	6.8 E 5

2.)

PLUME DATA

0248

NRC GROUND SURVEY, WEST SIDE
22 STANDARD POINTS < 0.02 m/hr

0556

NRC GROUND SURVEY, WEST SIDE
22 STANDARD POINTS, < 0.02 m/hr

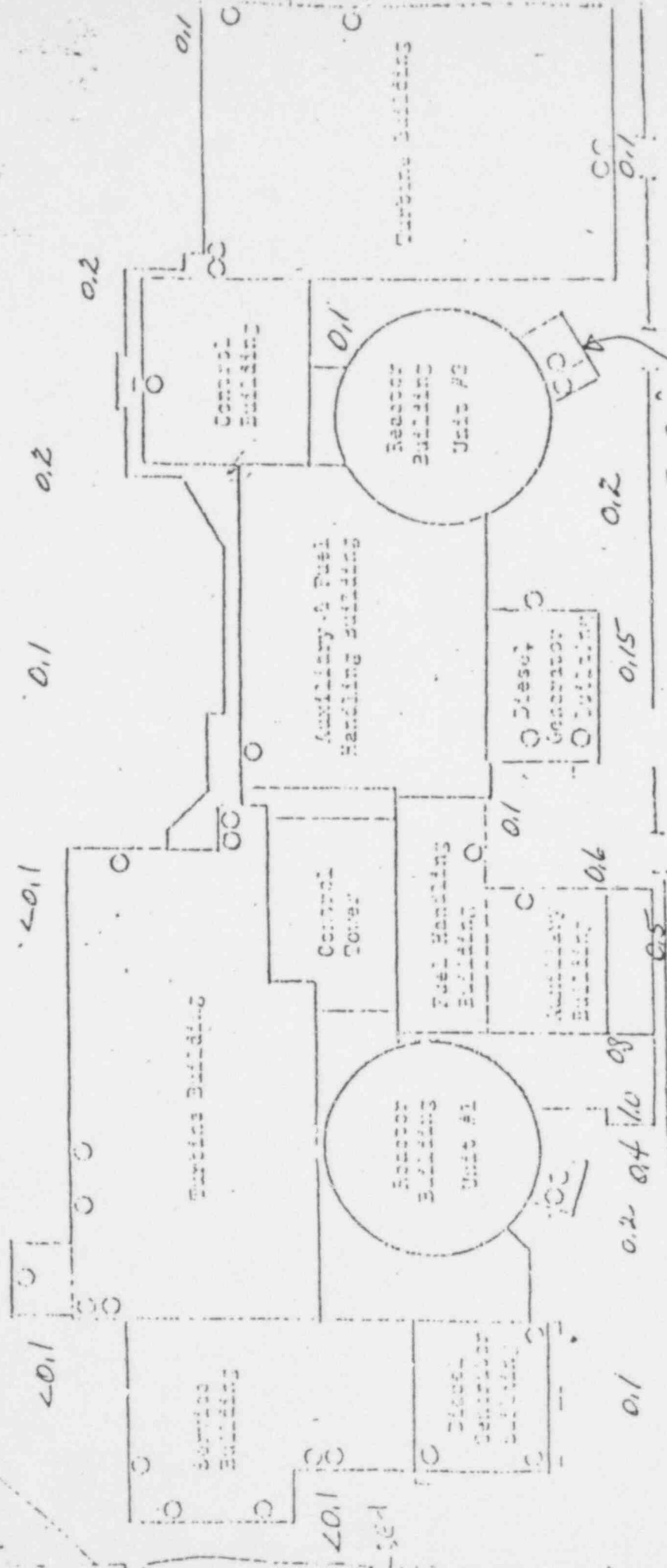
161 318

3) AIR SAMPLE DATA

DATE	TIME	VOL	LOCATION	RESULT
4/8	1140-1200	20 FT ³	0.1 miles N of GEYER CL Rd on RT. 441	2131 < 1E-10
4/8	1450-1510	20 FT ³	RT 441 + BOAT CREEK	< 1E-10
4/8	1950-2010	20 FT ³	WEST POINT #2	< 1E-10
4/9	0140-0155	15 ³	WEST POINT #2	< 1E-10

1
2
3
4
5
6
7

161 320



rmc

UNIVERSITY CITY SCIENCE CENTER
3508 MARKET STREET
PHILADELPHIA, PA. 19104

DATE REPORTED

BY

GROUND WIRE
Y1 - Y1
- - - - -

NO	STATION I. D.	DOSIMETER I. D.	START		STOP		TOTAL DOSE AVG. (mR)	REMARKS
			DATE	TIME	DATE	TIME		
27	SW-4	20127 20128	4-7-79	216	7/8/79	207	(.55 ± .08) 0.01	
28	S-4	20103 20104		230		222	(.38 ± .17) 0.02	
29	SE-5	20110 20120		340		312	(.35 ± .08) 0.01	
30	SE-4	20122 20124		504		525	(.33 ± .05) 0.01	
31	SE-3	20107 20108	✓	410		400	(.42 ± .08) 0.02	
32	SE-2	78 20		410		425	(.50 ± .00) 0.02	
33	SE-1	25 86		417		440	(.53 ± .05) 0.02	
34	E-2	20119 20120		521		547	(.28 ± .08) 0.01	
35	E-3	20105 20106		410		452	(.12 ± .08) 0.01	
36	E-4	1122 20124		410		411	(.27 ± .05) 0.01	
37	E-5			410		411	(.38 ± .13) 0.02	
3a	N-1a			410		411	(.24 ± .11) 0.01	
4a	N-1c	20102 20105		410		425	(.32 ± .12) 0.01	
4b	N-1f	20102 20105		410		425	(.32 ± .04) 0.01	
4c	N-1e	20102 20102		410		425	(.37 ± .08) 0.02	
4d	N-1b	20105 20110		410		425	(.32 ± .10) 0.01	
4e	N-1d	20127 20128		410		425	(.32 ± .04) 0.01	
5a	NE-3a	20102 20105		410		425	(.32 ± .08) 0.01	
21a	11-3a	20102 20105		417		425	(.30 ± .06) 0.01	
23a	S-1a	20127 20128		412		425	(.40 ± .00) 0.02	
29a	SE-4a	20102 20105		410		425	(.37 ± .04) 0.01	

NO	STATION I. D.	DOSIMETER I. D.	START DATE TIME	STOP DATE TIME	TOTAL DOSE AVG. (mR)	REMARKS
1	E-1	82, 84	4-7-79	8:02 AM '79	8:02 (.33 ± .10) 0.01	
2	NE-1	21, 72		8:10	(.30 ± .08) 0.01	
3	NE-2	22, 73		8:20	(.33 ± .09) 0.01	
4	N-1			8:30	(.30 ± .08) 0.01	
5	NE-3			8:40	(.25 ± .08) 0.01	
6	NE-4	2011, 20112		8:47	(.32 ± .12) 0.01	
7	N-2	121, 122		8:48-1	(.28 ± .10) 0.02	
8	N-3	2015, 20110		8:51	(.35 ± .05) 0.01	
9	N-4	20139, 20140		10:10	(.30 ± .00) 0.01	
10	N-5			10:20	(.52 ± .25) 0.02	
11	NW-5			10:31	(.32 ± .04) 0.01	
12	NW-4			10:32	(.27 ± .08) 0.01	
13	NW-3	20121, 20124		10:33	(.35 ± .10) 0.02	
14	NW-2	20117, 20117		10:37	(.30 ± .06) 0.01	
15	NW-1	87, 88		10:40	(.30 ± .00) 0.01	
16	W-1	81, 82		10:45	(.25 ± .06) 0.01	
17	W-2	71, 74		10:50	(.33 ± .01) 0.01	
18	SW-1	12, 15		10:52	(.37 ± .23) 0.02	
19	W-3	20111, 20136		10:53	(.22 ± .04) 0.01	
20	W-5	20117, 20118		10:54	(.35 ± .10) 0.02	
21	W-4	20103, 20104		11:00	(.40 ± .07) 0.02	
22	SW-2	20105, 20116		11:05	(.33 ± .08) 0.01	
23	S-1	20101, 20102		11:07	(.42 ± .08) 0.02	
24	S-2	20101, 20102		11:08	(.27 ± .05) 0.01	
25	S-3	20101, 20103		11:09	(.33 ± .08) 0.01	
26	SW-3	20101, 20102		11:08	(.27 ± .05) 0.01	

161 323

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SMEAR SURVEY RECORD
THREE MILE ISLAND GENERATING STATION

SURVEY INFORMATION: UNIT II

Location Control Bldg ALL Levels
Date 4-8-79
Time 1400
Number _____
Surveyor D. Keesler

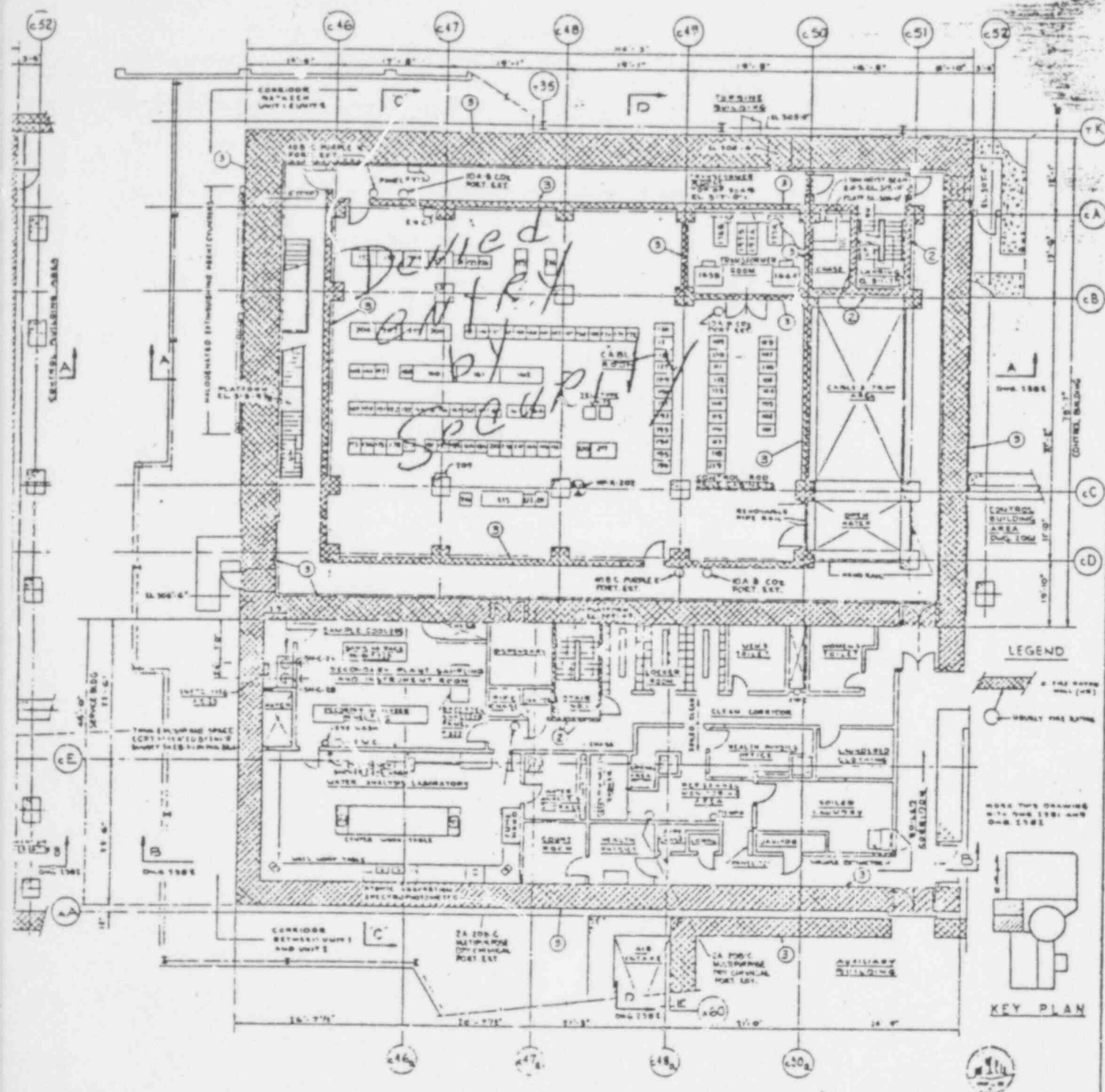
COUNTING INFORMATION:

Instrument Used Ludlum III
Efficiency: BY 10.00 Bkg: BY 6.2
Date 4-8-79
Time 1420
Technician D.K.

REMARKS:

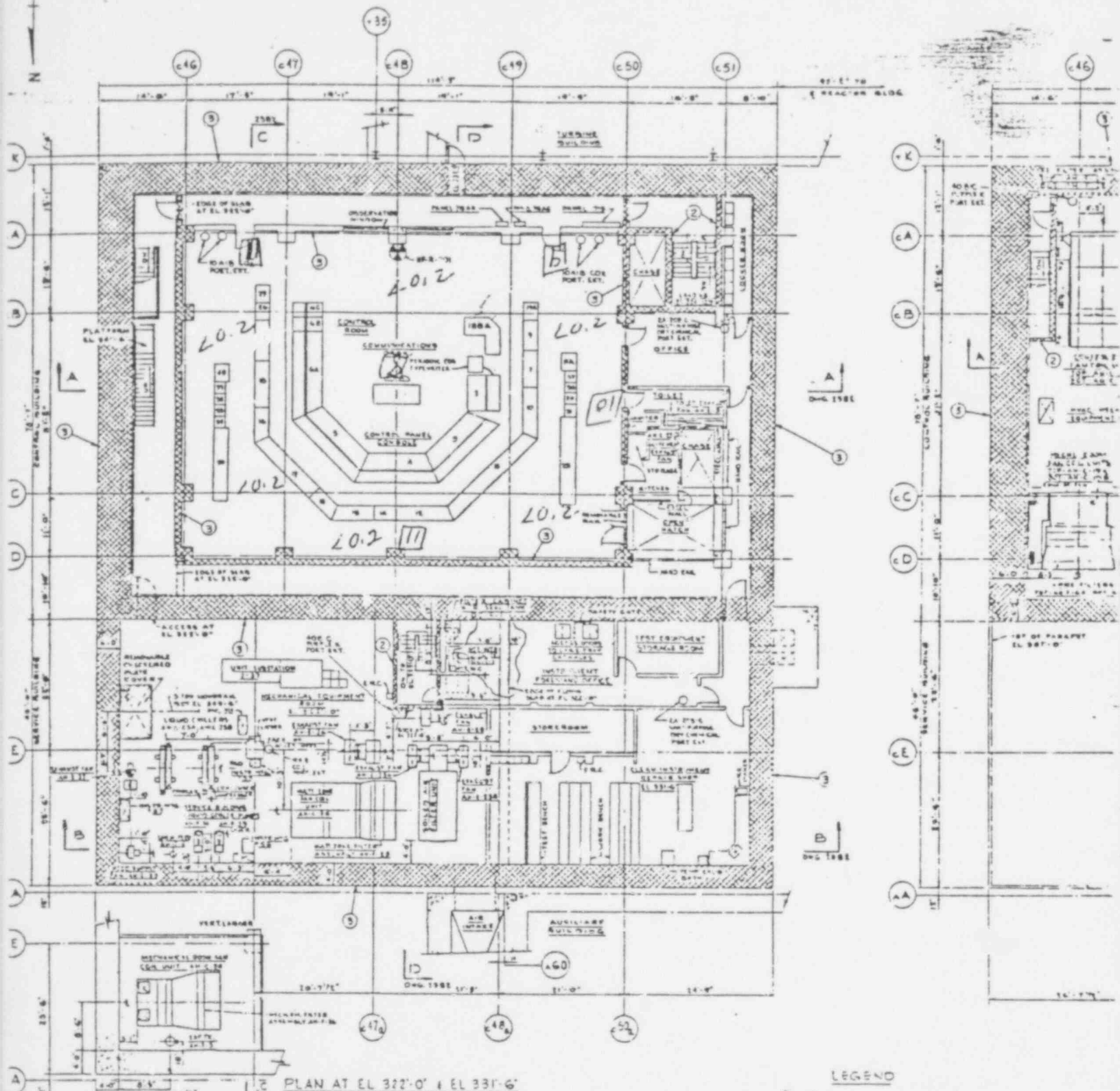
LOCATION: SAMPLE NUMBER	GROSS SAMPLE COUNTS	COUNT TIME	GROSS CPM	2σPLUS BKG CPM	NET CPM	DPM	LOCATION: SAMPLE NUMBER	GROSS SAMPLE COUNTS	COUNT TIME	GROSS CPM	2σPLUS BKG CPM	NET CPM	DPM
1 351' EL	38	1 min	38	78			26						
2	43		43				27						
3	50		50				28						
4	37		37				29						
5	31		31				30						
6	42		42				31						
7 331' EL	43		43				32						
8	34		34				33						
9	29		29				34						
10	41		41				35						
11	34		34				36						
12 280' EL	41		41				37						
13	40		40				38						
14	45		45				39						
15	47		47				40						
16	41		41				41						
17	42		42				42						
18	50		50				43						
19	114		114		52	530	44						
20	71		71				45						
21	72		72				46						
22	76		76				47						
23							48						
24							49						
25							50						

327



UNIT # 2 CONTROL BLDG 305' 11" L

APPROVED BY <i>[Signature]</i> DATE <i>10/1/55</i>	BURNS AND ROE INC. ENGINEERS AND CONSTRUCTORS CHICAGO, ILL. 60604	PROJECT NO. <i>100-5</i>
NOT RECORDED	GENERAL ARRANGEMENT CONTROL & SERVICE BUILDING PLAN AT FL 200-5 & FL 305-0	DRAWING NO. <i>W O 2355</i>
PROJECT NO. <i>100-5</i>	JERSEY CENTRAL POWER & LIGHT CO. THREE MILE CREEK STATION - UNIT 2	SCALE: <i>1" = 10'</i>
DATE: <i>10/1/55</i>	DRAWN BY: <i>[Signature]</i>	CHECKED BY: <i>[Signature]</i>
PROJECT NO. <i>100-5</i>	DRAWING NO. <i>W O 2355</i>	SCALE: <i>1" = 10'</i>
DATE: <i>10/1/55</i>	DRAWN BY: <i>[Signature]</i>	CHECKED BY: <i>[Signature]</i>



PLAN AT EL 322'-0" & EL 331'-6"

UNIT #2 CONTROL BLDG 331' EL

4-8-79 @ 1730

Dean Kuhn

PLAN-PLATFORM EL 333'-6"

LEGEND

164 329

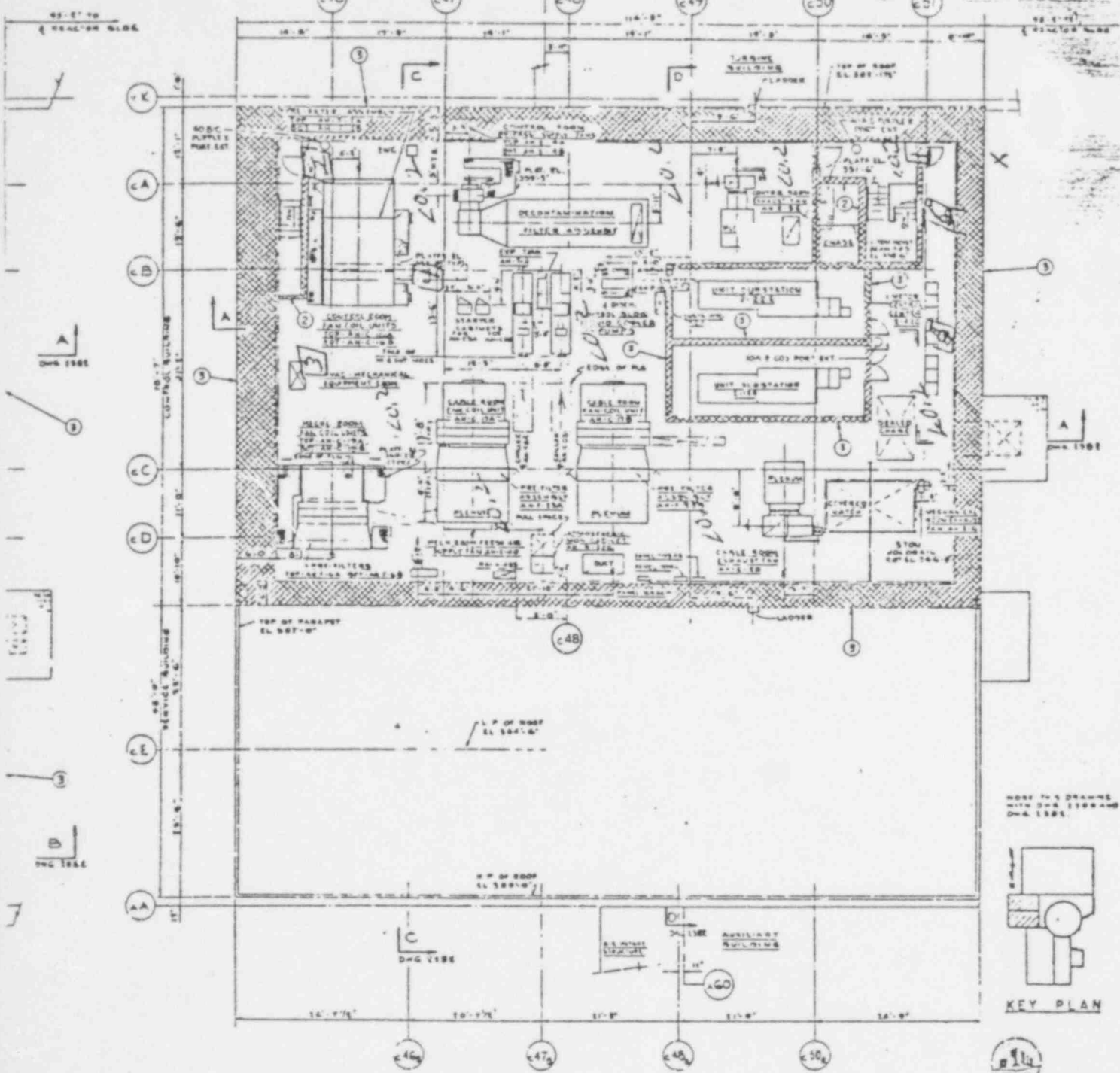
POOR ORIGINAL

45'-0" TO
46'-0" ON BLOC

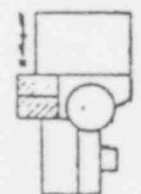
A
DWG 1985

B
DWG 1986

7



NOTE: THIS DRAWING
WITH DWG 1188 AND
DWG 1985.



KEY PLAN

LEGEND

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

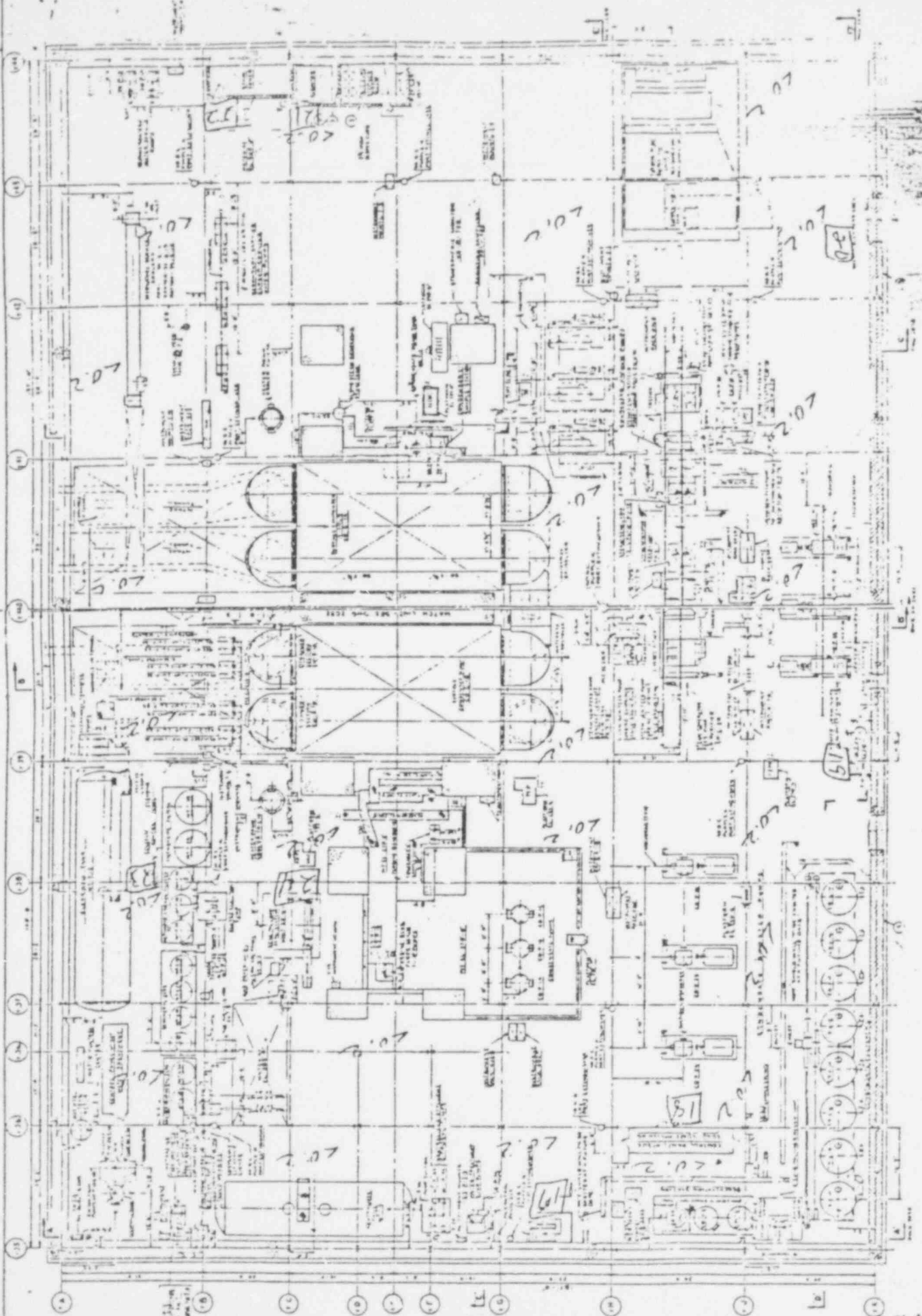
PLAN AT EL 351'-6"

UNIT #2 Control Bldg 351' EL
4-8-79 @ 1300
Dean R. Kechin

| | |
|--|----------------|
| BURNS AND ROE INC.
ENGINEERS AND CONSTRUCTORS
ORANGE, N.J. 07067 | |
| GENERAL ARRANGEMENT
CONTROL & SERVICE BUILDING
PLAN AT EL 351'-6" & EL 301'-6" | |
| JERSEY CENTRAL POWER & LIGHT CO.
THREE HILL PLANT STATION-UNIT 2 | |
| DATE: 4-8-79 | BY: W. O. 2555 |
| CHECKED: 4-8-79 | DATE: 4-8-79 |
| DWG 238113 | |

POOR ORIGINAL

161 330



SMEAR SURVEY RECORD
THREE MILE ISLAND GENERATING STATION

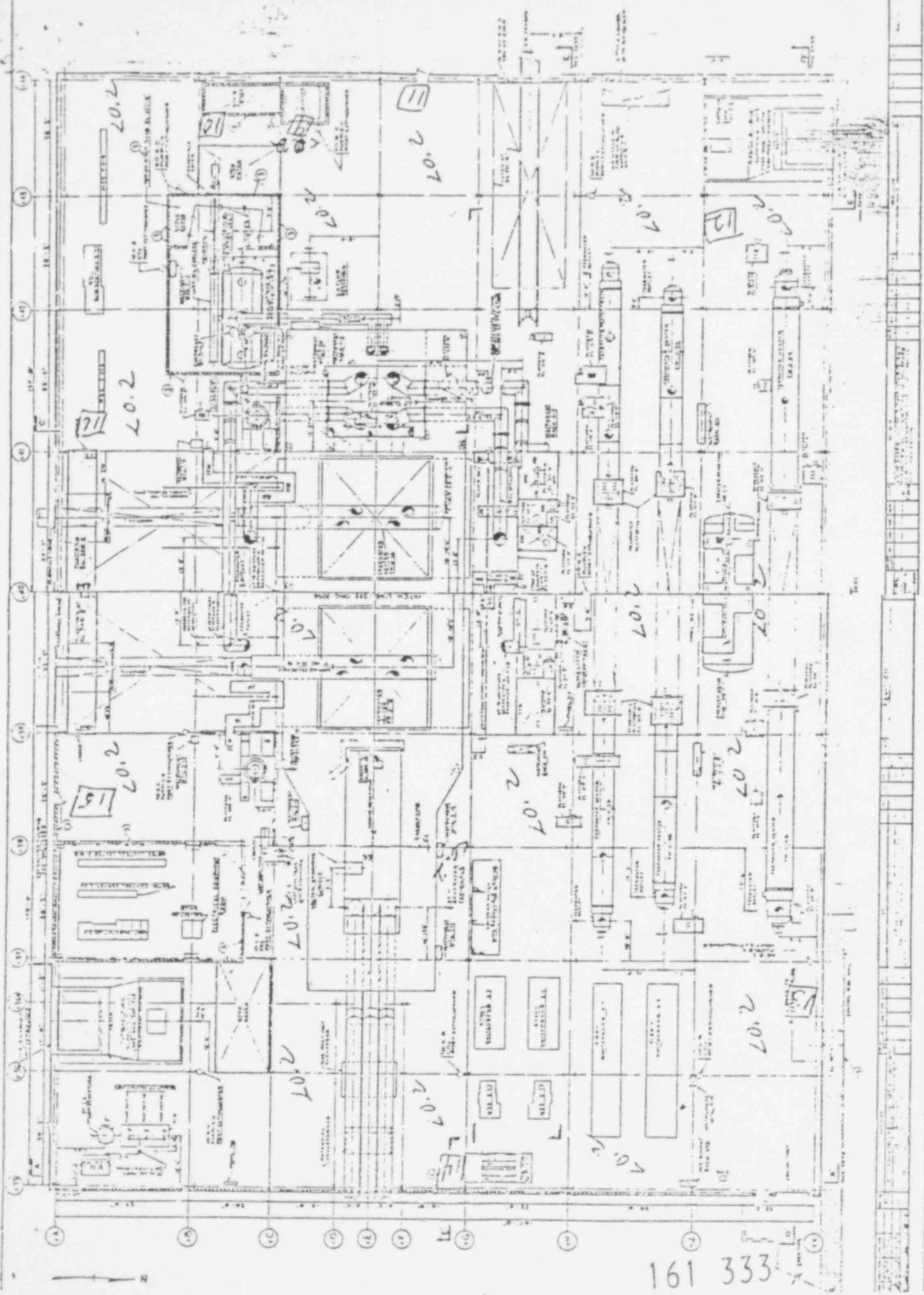
SURVEY INFORMATION: Unit #2
Location Turbine Bldg 286' EL
Date 4-8-79
Time 1050
Number
Surveyor D. Ressler

COUNTING INFORMATION:
Instrument Used Ludlum #3
Efficiency: By 1200 Bkg: By 62
Date 4-8-79
Time 1200
Technician DK

REMARKS:

| LOCATION:
SAMPLE
NUMBER | GROSS
SAMPLE
COUNTS | COUNT
TIME | GROSS
CPM | 2σPLUS
BKG
CPM | NET
CPM | DPM | LOCATION:
SAMPLE
NUMBER | GROSS
SAMPLE
COUNTS | COUNT
TIME | GROSS
CPM | 2σPLUS
BKG
CPM | NET
CPM | DPM |
|-------------------------------|---------------------------|---------------|--------------|----------------------|------------|-----|-------------------------------|---------------------------|---------------|--------------|----------------------|------------|-----|
| 1 | | | | | | | 26 | | | | | | |
| 2 | | | | | | | 27 | | | | | | |
| 3 | | | | | | | 28 | | | | | | |
| 4 | | | | | | | 29 | | | | | | |
| 5 | | | | | | | 30 | | | | | | |
| 6 | | | | | | | 31 | | | | | | |
| 7 | | | | | | | 32 | | | | | | |
| 8 | | | | | | | 33 | | | | | | |
| 9 | | | | | | | 34 | | | | | | |
| 10 | | | | | | | 35 | | | | | | |
| 11 | | | | | | | 36 | | | | | | |
| 12 | | | | | | | 37 | | | | | | |
| 13 | | | | | | | 38 | | | | | | |
| 14 | | | | | | | 39 | | | | | | |
| 15 | | | | | | | 40 | | | | | | |
| 16 | | | | | | | 41 | | | | | | |
| 17 | see Survey | 44 | 1 min | 44 | 78 | | 42 | | | | | | |
| 18 | | 41 | | 41 | | | 43 | | | | | | |
| 19 | | 51 | | 51 | | | 44 | | | | | | |
| 20 | | 56 | | 56 | | | 45 | | | | | | |
| 21 | | 75 | | 75 | | | 46 | | | | | | |
| 22 | | 31 | | 31 | | | 47 | | | | | | |
| 23 | | 43 | | 43 | | | 48 | | | | | | |
| 24 | | 51 | | 51 | | | 49 | | | | | | |
| 25 | | | | | | | 50 | | | | | | |

332



4-8-79 @ 10:30
305' x 1117' 2" TURB R/LR -4

D. Ke. 'R

SMEAR SURVEY RECORD
THREE MILE ISLAND GENERATING STATION

SURVEY INFORMATION: UNIT #2

Location Turb Bldg 305' EL
Date 4-8-79
Time 1030
Number
Surveyor D. Keesler

COUNTING INFORMATION:

Instrument Used Ludlum #3
Efficiency: By 10.00 Bkg: By 6.2
Date 4-8-79
Time 1145
Technician D.R.

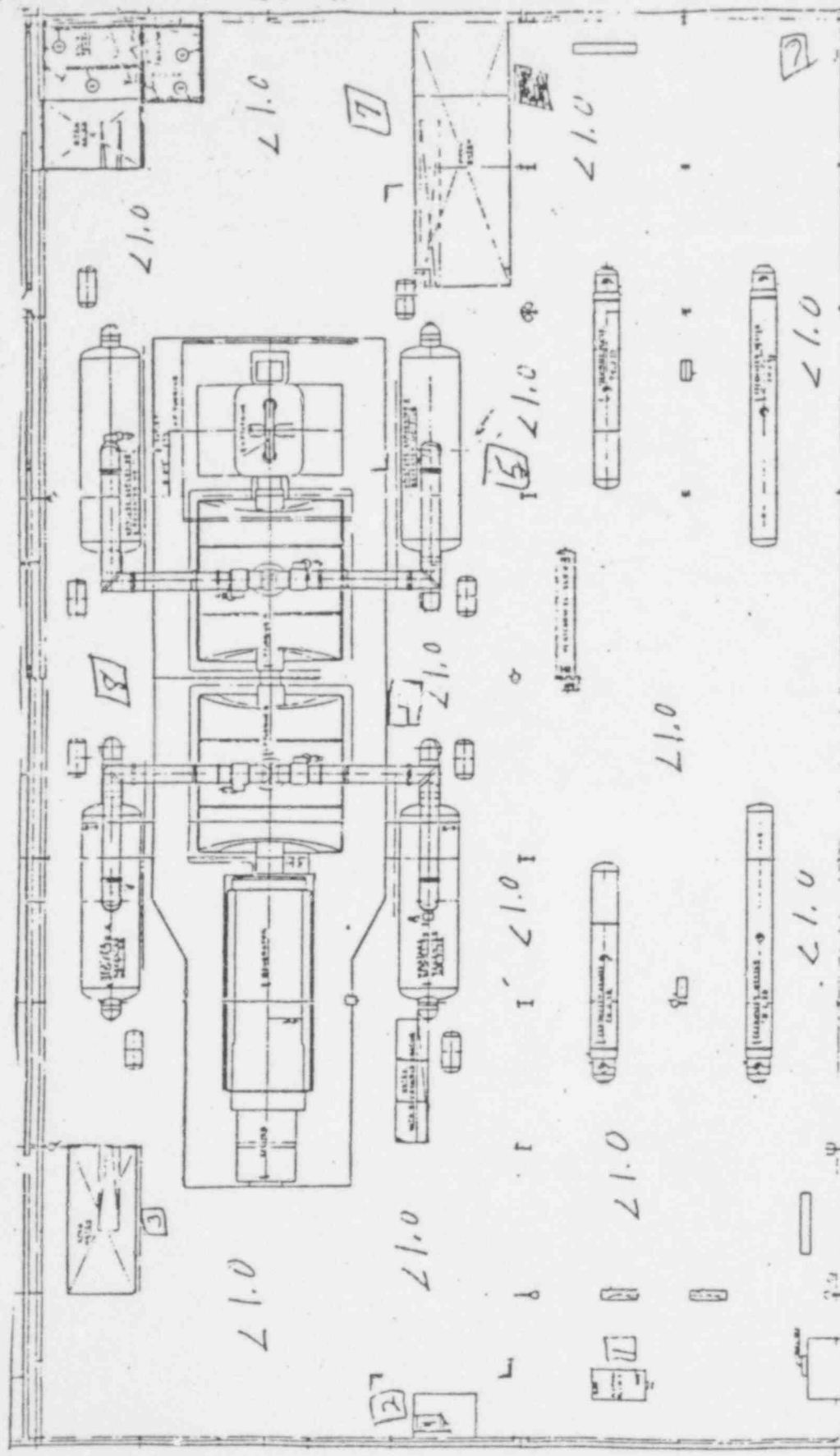
REMARKS:

| LOCATION:
SAMPLE
NUMBER | GROSS
SAMPLE
COUNTS | COUNT
TIME | GROSS
CPM | 2σPLUS
BKG
CPM | NET
CPM | DPM | LOCATION:
SAMPLE
NUMBER | GROSS
SAMPLE
COUNTS | COUNT
TIME | GROSS
CPM | 2σPLUS
BKG
CPM | NET
CPM | DPM |
|-------------------------------|---------------------------|---------------|--------------|----------------------|------------|-----|-------------------------------|---------------------------|---------------|--------------|----------------------|------------|-----|
| 15 | | | | | | | 26 | | | | | | |
| 16 | | | | | | | 27 | | | | | | |
| 17 | | | | | | | 28 | | | | | | |
| 18 | | | | | | | 29 | | | | | | |
| 19 | | | | | | | 30 | | | | | | |
| 20 | | | | | | | 31 | | | | | | |
| 21 | | | | | | | 32 | | | | | | |
| 22 | | | | | | | 33 | | | | | | |
| 23 | | | | | | | 34 | | | | | | |
| 24 | | | | | | | 35 | | | | | | |
| 25 | | | | | | | 36 | | | | | | |
| 26 | | | | | | | 37 | | | | | | |
| 27 | | | | | | | 38 | | | | | | |
| 28 | | | | | | | 39 | | | | | | |
| 29 | | | | | | | 40 | | | | | | |
| 30 | | | | | | | 41 | | | | | | |
| 31 | | | | | | | 42 | | | | | | |
| 32 | | | | | | | 43 | | | | | | |
| 33 | | | | | | | 44 | | | | | | |
| 34 | | | | | | | 45 | | | | | | |
| 35 | | | | | | | 46 | | | | | | |
| 36 | | | | | | | 47 | | | | | | |
| 37 | | | | | | | 48 | | | | | | |
| 38 | | | | | | | 49 | | | | | | |
| 39 | | | | | | | 50 | | | | | | |
| 40 | | | | | | | | | | | | | |
| 41 | | | | | | | | | | | | | |
| 42 | | | | | | | | | | | | | |
| 43 | | | | | | | | | | | | | |
| 44 | | | | | | | | | | | | | |
| 45 | | | | | | | | | | | | | |
| 46 | | | | | | | | | | | | | |
| 47 | | | | | | | | | | | | | |
| 48 | | | | | | | | | | | | | |
| 49 | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | |

3 Sec Survey 41 1 min 41 78 — 4000
10 34
11 37
12 40
13 47
14 31
15 41
16 40
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161
334

UNIT II TURBINE BUILDING 328'



DATE 4-8-79 INST. ES20 # 421

TIME 1000 TECH. D. Keesler

% PWR. 0 SURVEY # ---

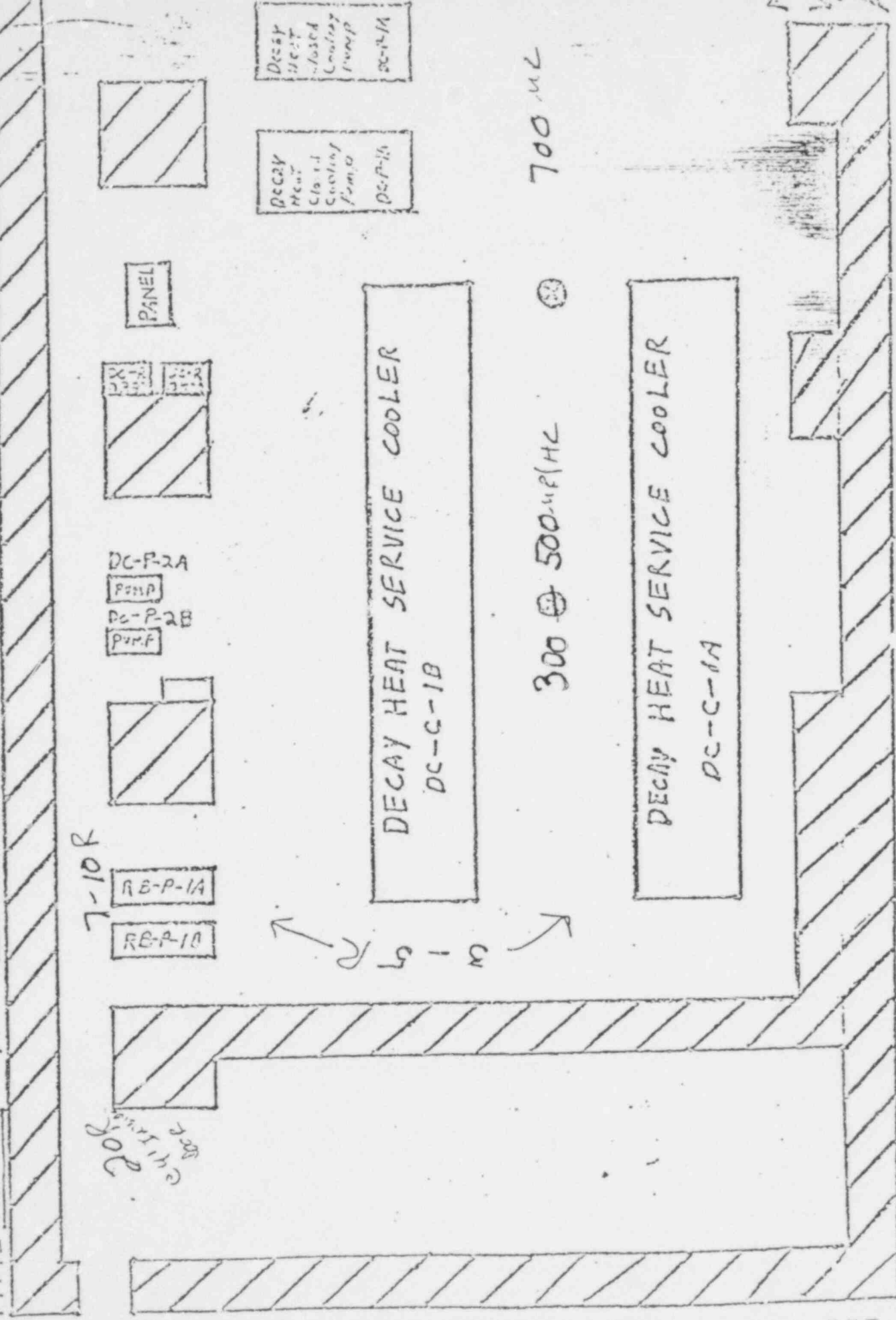
SMEAR SURVEY RECORD
THREE MILE ISLAND GENERATING STATION

| | | |
|---|---|--|
| SURVEY INFORMATION: <u>UNIT # 2</u>
Location <u>Turb. Bldg. 3rd EL</u>
Date <u>4-8-79</u>
Time <u>1000</u>
Number _____
Surveyor <u>D. Reesler</u> | COUNTING INFORMATION:
Instrument Used <u>Ludlum #3</u>
Efficiency: BY <u>10.00</u> Bkg: BY <u>52</u>
Date <u>4-8-79</u>
Time <u>1130</u>
Technician <u>D.K.</u> | REMARKS:

<u>ALL smears less than</u>
<u>2 sigma</u> |
|---|---|--|

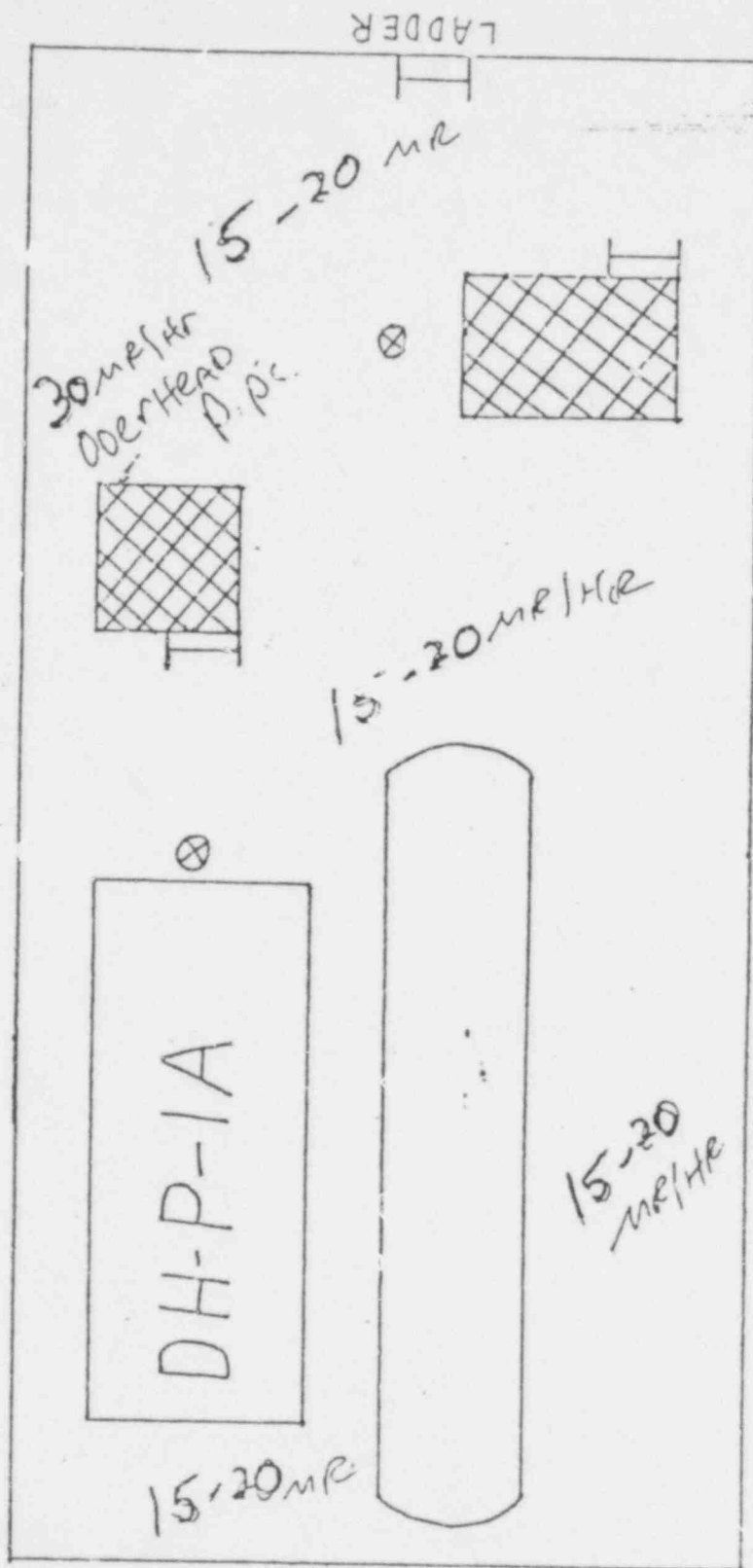
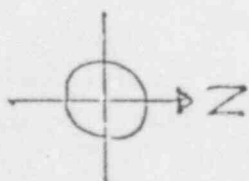
| LOCATION:
SAMPLE
NUMBER | GROSS
SAMPLE
COUNTS | COUNT
TIME | GROSS
CPM | 2σ PLUS
BKG
CPM | NET
CPM | DPM | LOCATION:
SAMPLE
NUMBER | GROSS
SAMPLE
COUNTS | COUNT
TIME | GROSS
CPM | 2σ PLUS
BKG
CPM | NET
CPM | DPM |
|-------------------------------|---------------------------|---------------|--------------|-----------------------|------------|------|-------------------------------|---------------------------|---------------|--------------|-----------------------|------------|-----|
| 1 See Survey | 54 | 1 min | 54 | 28 | — | < 25 | 26 | | | | | | |
| 2 | 37 | | 37 | | — | | 27 | | | | | | |
| 3 | 39 | | 39 | | — | | 28 | | | | | | |
| 4 | 44 | | 44 | | — | | 29 | | | | | | |
| 5 | 39 | | 39 | | — | | 30 | | | | | | |
| 6 | 39 | | 39 | | — | | 31 | | | | | | |
| 7 | 41 | | 41 | | — | | 32 | | | | | | |
| 8 ✓ | 43 | ✓ | 43 | ✓ | — | ✓ | 33 | | | | | | |
| 9 | | | | | | | 34 | | | | | | |
| 10 | | | | | | | 35 | | | | | | |
| 11 | | | | | | | 36 | | | | | | |
| 12 | | | | | | | 37 | | | | | | |
| 13 | | | | | | | 38 | | | | | | |
| 14 | | | | | | | 39 | | | | | | |
| 15 | | | | | | | 40 | | | | | | |
| 16 | | | | | | | 41 | | | | | | |
| 17 | | | | | | | 42 | | | | | | |
| 18 | | | | | | | 43 | | | | | | |
| 19 | | | | | | | 44 | | | | | | |
| 20 | | | | | | | 45 | | | | | | |
| 21 | | | | | | | 46 | | | | | | |
| 22 | | | | | | | 47 | | | | | | |
| 23 | | | | | | | 48 | | | | | | |
| 24 | | | | | | | 49 | | | | | | |
| 25 | | | | | | | 50 | | | | | | |

DECAY HEAT CLOSED COOLING : 280' LEVEL UNIT 2-10
 DATE 4-8-79 0% PWR. 0 TECH. KNOW SURVEY NO. 44
 TIME INST. TELETYPE



DECAY HEAT VAULT 1A 280' LEVEL

UNIT 2



DATE 8 APR 79
 TIME 2130
 % PWR. 51.0

INST. Teletext
 TECH. KNOPF

SURVEY
 NO. 31

1600-2800

4/8/79



FOR DETAILS REF. FIGURE 2.3

THREE MILE ISLAND NUCLEAR POWER STATION

0.5 mile

1.0 mile

1.5 mile

2.0 mile

TOPOGRAPHY OF THREE MILE ISLAND AND SURROUNDING AREA

* Air Sample

161 539

THREE MILE ISLAND NUCLEAR STATION UNIT 2

FIGURE 2.3-22A

Summary

1600 - 2400

4/8/79

1. Meteorological Data

| Time | Dir. | Speed | Gas Mon.
APR 3240 (mph) | Gas Mon.
APR 213 (CF) |
|------|-------|-------|----------------------------|--------------------------|
| 1630 | 90° | 3 | — | 4ES |
| 1700 | 90 | 5 | 25 | — |
| 1730 | 90 | 5 | — | 8ES |
| 1800 | 100 | 3-5 | 15 | 7ES |
| 1830 | 90 | 5-10 | — | — |
| 1900 | 90 | 5 | 18 | 7ES |
| 1930 | 90 | 3-5 | — | — |
| 2000 | 90 | 5-10 | 18 | — |
| 2030 | 90 | 3-5 | — | — |
| 2100 | * 90 | 0-3 | 30 | > 1ES |
| 2130 | * 90 | 0-5 | — | — |
| 2200 | 90 | 5-10 | 25 | 8ES |
| 2330 | 70-90 | 4-8 | — | — |

Indicator

* Wind direction variable due to low wind speed.

2. Ground Surveys

#1 East side at 1704 hrs, std. 15 pts. all readings less than 0.02 m/ph.

#2 West side at 2040 hrs, std. 14 pts. ^{both} readings < 0.02 m/ph to 0.25 m/ph. Air sample taken at Pt #2 Goldsboro.

161 340

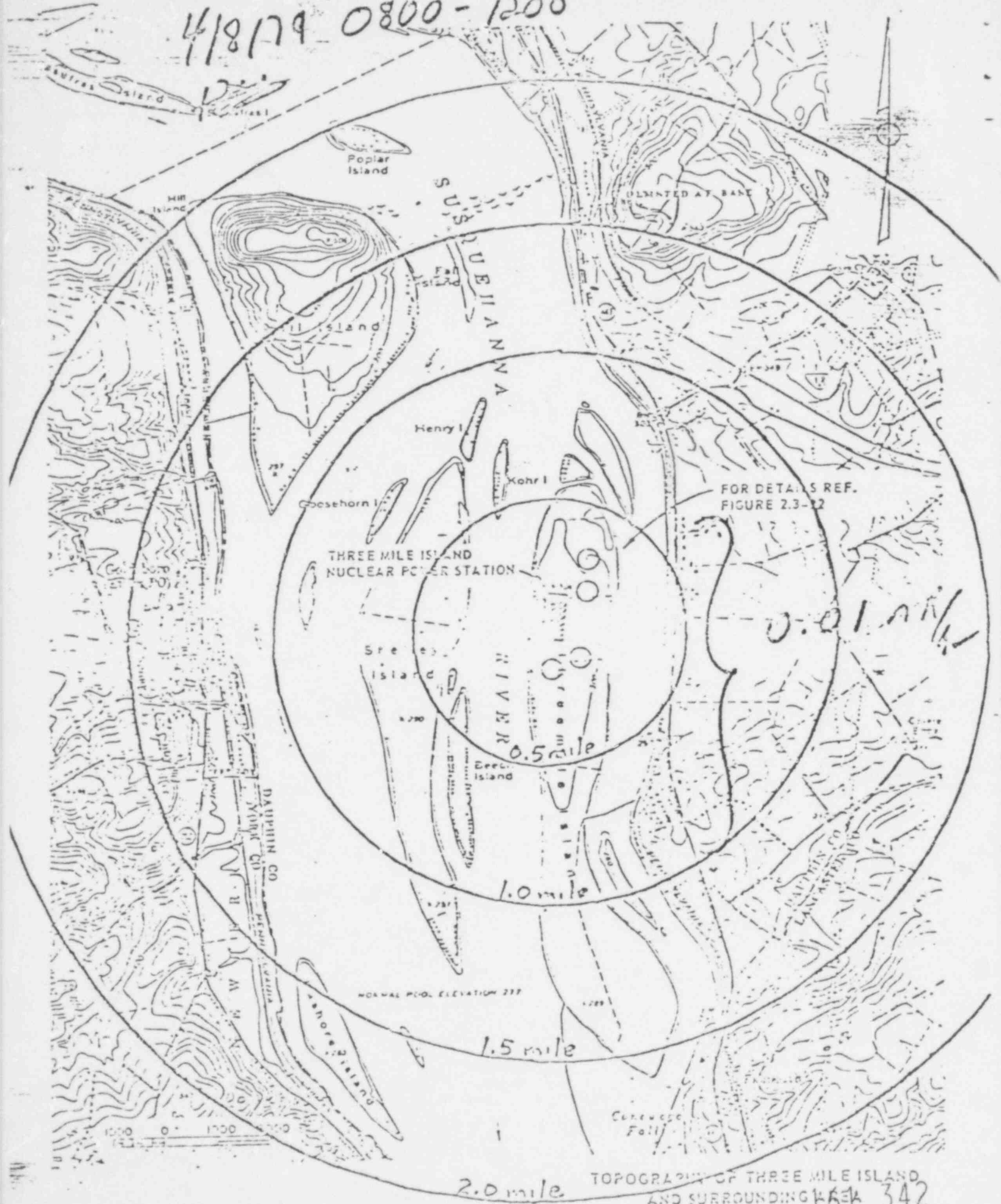
3. Aerial Surveys

| | | | |
|---------------|----------|-----|-------------|
| 1830 - 1 mile | 270-280° | max | 0.05 in/hr |
| 3 " | 270-285° | max | 0.03 in/hr |
| 6 " | 270-290° | max | 0.015 in/hr |

top of plane 1100 ft.

4. Primary Sample - To be taken at 0800 hrs
4/9/78

4/8/79 0800-1200



AMS Helicopter Survey on 4/8/77
0900-0950

At 500 ft — @ 170°

Maximum Level d 0.03-0.04 mR/hr @ 1 mile

At 3 miles 0.013 mR/hr.

^{131}I Air Sample collected by NRC
team at 11:40 to 12:00, 20 ft³ on
Rt 441, ≈ 0.1 miles N of Beyers
Church Rd.

| NO | STATION
I. D. | DOSIMETER
I. D. | START
DATE TIME | STOP
DATE TIME | TOTAL DOSE
AVG. (mR) | REMARKS |
|-----|--------------------|--------------------|--------------------|-------------------|-------------------------|---------|
| 27 | SW-4 | 30115, 30116 | 4/9/79 1342 | 4/10/79 2:00 | .33(.05) | .01 |
| 28 | S-4 | 30129, 30130 | 1400 | 2:45 | .43(.23) | .02 |
| 29 | SE-5 | 30129, 30140 | 1505 | 2:07 | .30(.06) | .01 |
| 30 | SE-4 | 30119, 30120 | 1520 | 2:20 | .32(.08) | .01 |
| 31 | SE-3 | 30137, 30138 | 1530 | 2:25 | .32(.08) | .01 |
| 32 | SE-2 | 89, 90 | 1533 | 2:50 | .30(.00) | .01 |
| 33 | SE-1 | 83, 84 | 1536 | 2:25 | .35(.06) | .01 |
| 34 | E-2 | 30101, 30102 | 1544 | 3:45 | .57(.12) | .02 |
| 35 | E-3 | 6009, 6010 | 1550 | 2:52 | .63(.08) | .03 |
| 36 | E-4 | 40, 50 | 1600 | 4:02 | .68(.21) | .02 |
| 37 | E-5 F1A | 73, 74 | 1618 | 4:25 | .6(.00) | .03 |
| 3a | N-1a | 30107, 30108 | 0805 | 8:32 | .27(.01) | .01 |
| 4a | N-1c | 60117, 60118 | 0813 | 8:40 | .32(.15) | .01 |
| 4b | N-1f | 30105, 30106 | 0819 | 8:48 | .28(.04) | .01 |
| 4c | N-1e | 60105, 60106 | 0824 | 8:53 | .30(.06) | .01 |
| 4d | N-1b | 60119, 60120 | 0835 | 9:02 | .37(.14) | .02 |
| 4e | N-1d | 30109, 30110 | 0830 | 9:00 | .34(.09) | .01 |
| 5a | NE-3a | 30127, 30128 | 0847 | 9:15 | .32(.04) | .01 |
| 29a | U-3a | 60121, 60122 | 1242 | 1:50 | .43(.15) | .02 |
| 29a | S-1a | 30125, 30126 | 1256 | 1:02 | .30(.06) | .01 |
| 29a | SE-4a | 60115, 60116 | 1515 | 2:15 | .35(.08) | .01 |

44. E

DATE REPORTED

Ground Level

BY

| NC | STATION
I. D. | DOSIMETER
I. D. | START
DATE TIME | STOP
DATE TIME | TOTAL DOSE
AVG. (mR) | REMARKS | 1/8 |
|----|------------------|--------------------|--------------------|-------------------|-------------------------|---------|-----|
| 1 | E-1 | 87, 88 | 4/9/79 750 | 4/10/79 818 | .357 (.13) | .01 | .02 |
| 2 | NE-1 | 75, 76 | 0755 | 821 | .28 (.05) | .01 | .02 |
| 3 | NE-2 | 85, 86 | 0800 | 827 | .33 (.05) | .01 | .02 |
| 4 | N-1 | 77, 78 | 0810 | 825 | .30 (.04) | .01 | .02 |
| 5 | NE-3 | 60107, 60108 | 0842 | 910 | .33 (.14) | .01 | .02 |
| 6 | NE-4 | 60113, 60114 | 0900 | 926 | .35 (.05) | .01 | .02 |
| 7 | N-2 | 30131, 30132 | 0915 | 937 | .30 (.06) | .01 | .02 |
| 8 | N-3 | 30149, 30150 | 0922 | 947 | .32 (.12) | .01 | .02 |
| 9 | N-4 | 30123, 30124 | 1015 | 1016 | .30 (.06) | .01 | .02 |
| 10 | N-5 | 30145, 30146 | 1024 | 1026 | .32 (.04) | .01 | .02 |
| 11 | NW-5 | 30135, 30136 | 1050 | 1051 | .28 (.04) | .01 | .02 |
| 12 | NW-4 | 60103, 60104 | 1107 | 1106 | .28 (.04) | .01 | .02 |
| 13 | NW-3 | 60123, 60124 | 1112 | 1112 | .30 (.02) | .01 | .02 |
| 14 | NW-2 | 30143, 30144 | 1116 | 1116 | .32 (.04) | .01 | .02 |
| 15 | NW-1 | 79, 80 | 1133 | 1126 | .32 (.10) | .02 | .02 |
| 16 | W-1 | 71, 72 | 1139 | 1144 | .32 (.04) | .01 | .02 |
| 17 | W-2 | 81, 82 | 1204 | 1210 | .23 (.13) | .01 | .02 |
| 18 | SW-1 | 30133, 30134 | 1210 | 1215 | .37 (.05) | .02 | .02 |
| 19 | W-3 | 30147, 30148 | 1221 | 1225 | .32 (.04) | .01 | .02 |
| 20 | W-5 | 121, 122 | 1230 | 1235 | .35 (.14) | .01 | .02 |
| 21 | W-4 | 30117, 30118 | 1236 | 1245 | .37 (.10) | .02 | .02 |
| 22 | SW-2 | 30103, 30104 | 1249 | 1255 | .32 (.10) | .01 | .02 |
| 23 | S-1 | 60111, 60112 | 1301 | 1307 | .33 (.05) | .01 | .02 |
| 24 | S-2 | 60101, 60102 | 1310 | 1318 | .33 (.05) | .01 | .02 |
| 25 | S-3 | 30111, 30112 | 1319 | 140 | .32 (.08) | .02 | .02 |
| 26 | SW-3 | 30141, 30142 | 1335 | 153 | .33 (.08) | .01 | .02 |

161 345

AREA

RADIATION LEVEL

0

$< 2 \text{ mR/hr}$ @ 2"

1

2

Plastic Pail $\sim 3 \text{ mR/hr}$ @ 2"

3

DOT $\sim 2 \text{ R}$ pipe $\sim 8 \text{ mR/hr}$ contact

4

unshielded bottle $\sim 2 \text{ R/hr}$ contact

Transferable contamination

Location

Reading

exterior of "2R" pipe

none detectable

exterior of plastic pail

none detectable

exterior of 55 gallon drum

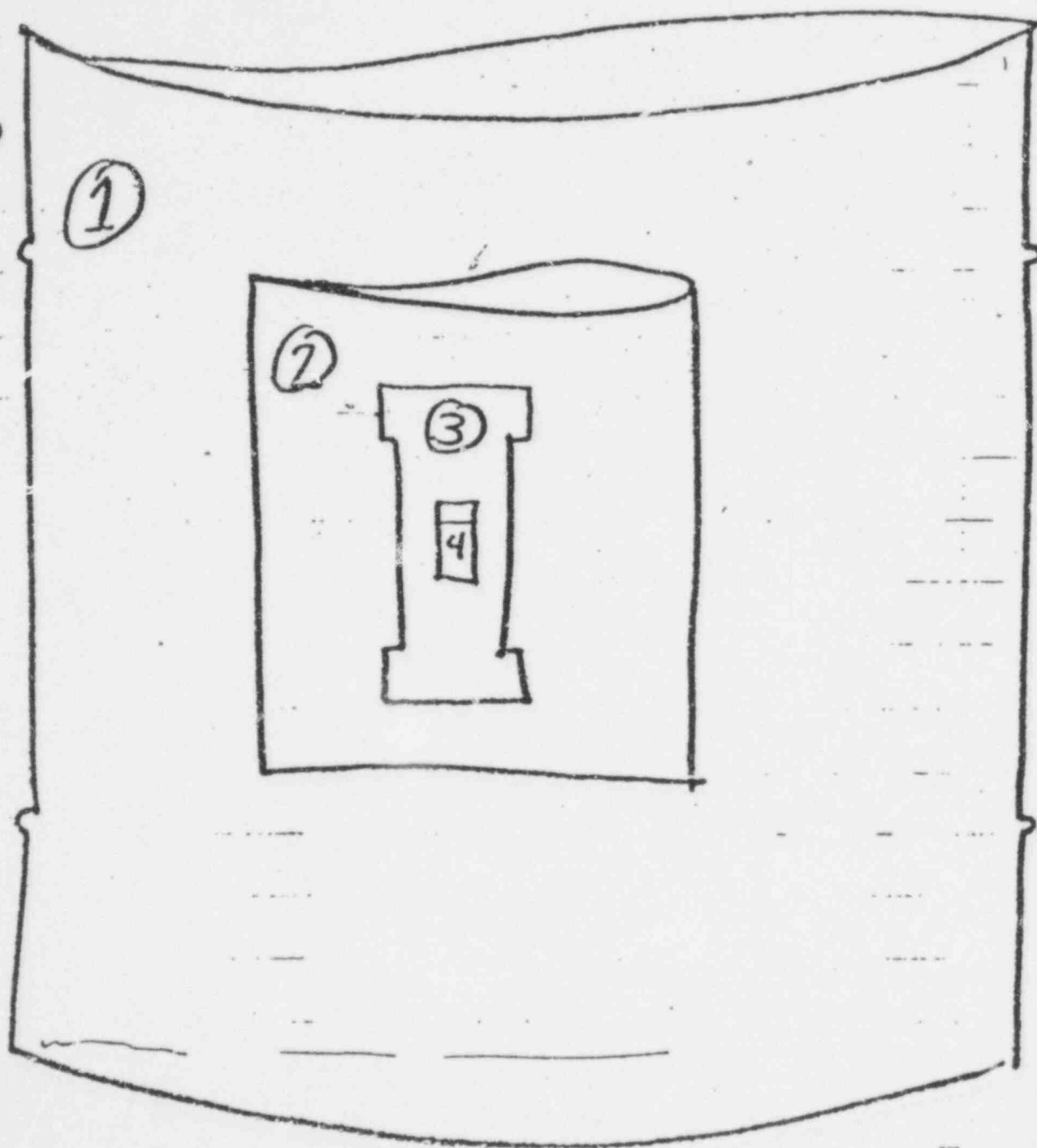
none detectable

161 346

PACKING DESCRIPTION

PRIMARY
COOLANT
SAMPLE
4/10/79

ATT. D.



- 0 - 55 gallon steel drum
- 1 - rags absorbent and cushioning
- 2 - 5-gallon plastic pail with lid with rag cushion
- 3 - "2R" ~~essped~~ capped pipe
- 4 - 4"x2"x2" lead pig with 3ml sample

161 347

ATT. CBNO 17

A State of Pennsylvania air sample taken at the Observation Center for the period of 3/22/79 to 4/2/79 indicated 2.4×10^{-12} $\mu\text{Ci}/\text{m}^3$ I-131.

24 hr
An NRC air sample taken in the vicinity of the observation center indicated airborne I-131 concentrations of 4.2×10^{-12} $\mu\text{Ci}/\text{m}^3$ for the period 1600 hrs 4/9 to 1600 hrs 4/10.

A soil sample and vegetation sample taken in the Goldsboro area on 4/10/79 by NRC indicated no detectable ~~the~~ radioactivity.

Att. B & C

~~$7.5 \times 10^{-4} \text{ pCi/m}^3$
 75 pCi/m^3~~

Milk Samples

Approximately 35 samples per day were taken on 4/5 and 4/6.

All I-131 levels were less than MDA ~~off site~~ (10 pCi/l).

Other DOE Samples

DOE analyzed between 0800 on 4/9 and 1600 on 4/10: 15 water, 12 vegetation, 1 air, + 4 soil samples. I-131 was found only in 1 air sample taken for 1 hour in Goldsboro - results were 8.5 pCi/m^3

Att. A.

As of 4:00 p.m., 24 people have been scanned under the whole body counter which has been set up outside the town hall in Middletown. The people are residents of Lower Swatara, Londonderry, Middletown, Royalton and Falmouth Townships who live within a three mile radius of Three Mile Island. The results of each scan have been normal. Included have been those families who live closest to the site and those families who have milk cows for their own use. Over 300 residents signed up today for appointments through Saturday.

Dictated by R. McClintock

4:40 p.m., 4/10

This session of counting is scheduled to continue until approximately 2 a.m. 4/11/79. It is expected that daily counting will continue thru at least Saturday 4/14/79. Updated information will be provided daily.

~~For more information/update,
call 944-7478~~

74 as of 2:00 am on 4/11

4. Whole Body Counting of Area Residents.
(see Att. A)

5. Air, Soil & Vegetation Samples
(see Att. B & C)

6. Packaging Description of PC Sample
(see Att. D.)

2235 hrs
Samples (3) departed site at ~ ~~2030~~ 2030 hrs
under escort by Mr. Slobodkin. Max. rad-
iation level on drum was 3 m/hr @ 2".

Notified the following agencies:

Capt. Vick (A.F.) 944-0471 x 258

DOE

774-1153

Beth's (Mullins) 412-462-5000 x 6527

IE: HQ

NRC - Joe Murphy

7. TLD Results for 4-10-79
(see Att. E.)

Shift Summary - Environmental 1600-2400 4/19/79

1. Meteorological & Monitor Data

| <u>time</u> | <u>Wind</u> | | <u>Station Vent</u> | | | <u>HPR 3240
monitor</u> |
|-------------|--------------|-----------------|---------------------|----------------------|------------|-----------------------------|
| | <u>Speed</u> | <u>Dir</u> | <u>Part</u> | <u>I₂</u> | <u>Gas</u> | |
| 1600 | 12-13 | 330° | 3EY | 1.3ES | 5EY | 12 |
| 1700 | 5-15 | 325 | 4EY | 1.5ES | 5ES | 25 |
| 1800 | 5-15 | 305 | 3EY | 1.3ES | 12ES | 10 |
| 1900 | 0-10 | 325 | 3EY | 1.5ES | 1ES | 10 |
| 2000 | 0-5 | 306 | 3EY | 1.1ES | 1ES | 10 |
| 2100 | Zero | 360
variable | 3EY | 1.1ES | 4EY | 10 |
| 2200 | Zero | 280
variable | 3.8EY | 1.3ES | 8EY | 19 200 |
| 2300 | 0-5 | 270
variable | 3.8EY | 1.3ES | 8EY | 10 |

2. Ground Surveys

1715-1741 East side, 15 points, all readings
 < 0.02 m/h.

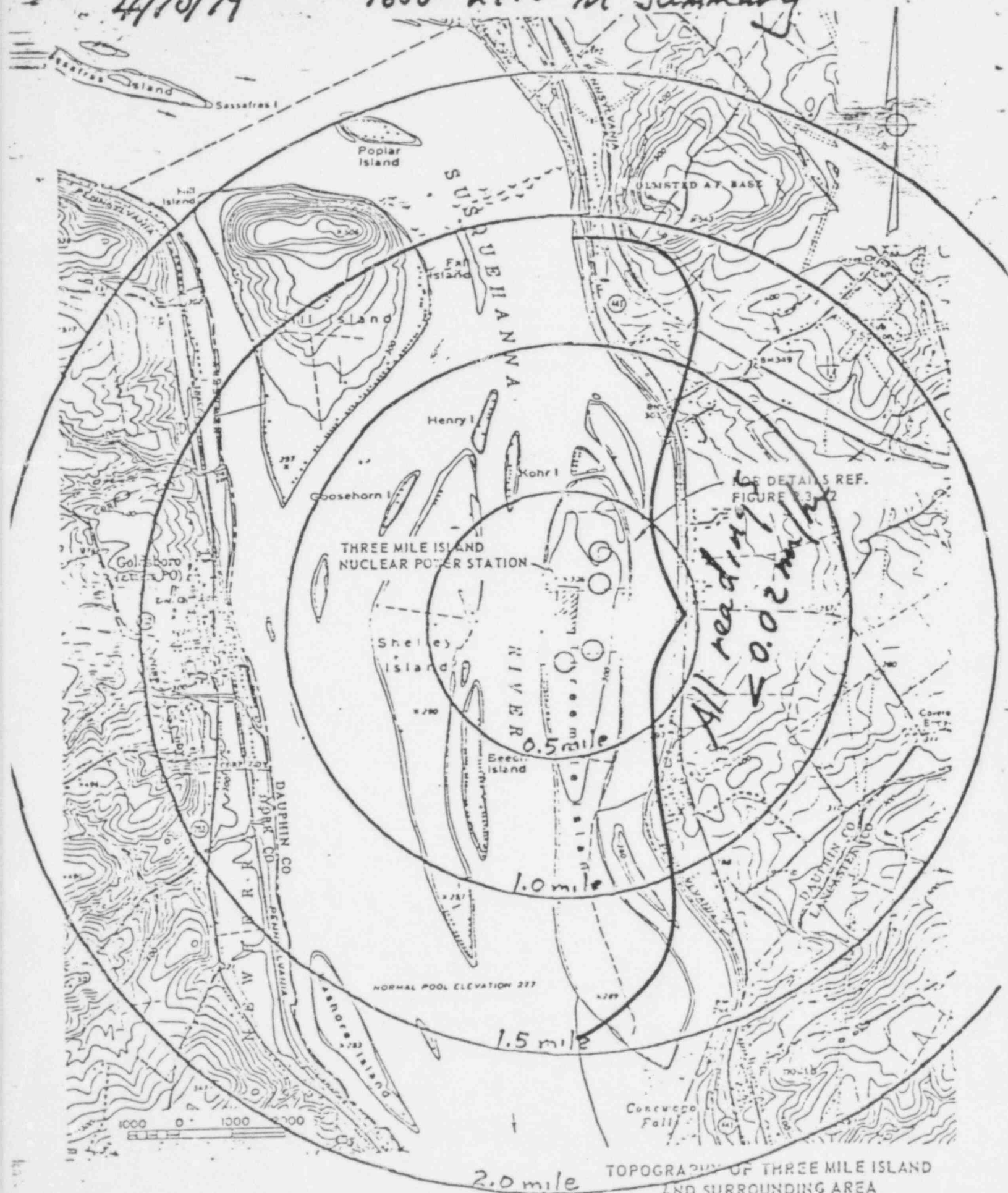
2230-2256 East side, 15 points, all readings
 < 0.02 m/h

3. Aerial Surveys

1933-1913 max. reading of .015 m/h @ 1 mile
 500 ft on heading of 120° from plant

4/10/79

1650-2400 hr Summary



TOPOGRAPHY OF THREE MILE ISLAND AND SURROUNDING AREA

THREE MILE ISLAND NUCLEAR STATION UNIT 2

161 353

FIGURE 2.3-22A

DATE REPORTED

4/13/79

BY

R. J. [Signature]

GROUND

WATER

Y/P-X

8/E-X

| | NO | STATION
I. D. | DOSIMETER
I. D. | START
DATE TIME | STOP
DATE TIME | TOTAL DOSE
AVG. (mR) | | REMARKS |
|------|----|------------------|--------------------|--------------------|-------------------|-------------------------|-----|---------|
| Beta | 1 | E-1 | 71, 72 | 4/12/79 7:55 | 4/13/79 07:45 | 30(.08) | .01 | |
| Beta | 2 | NE-1 | 87, 88 | 7:57 | 07:49 | 28(.10) | .01 | |
| Beta | 3 | NE-2 | 85, 86 | 8:01 | 07:52 | 30(.08) | .01 | |
| Beta | 3a | N-1a | 60105, 60106 | 8:05 | 07:55 | 37(.18) | .02 | |
| Beta | 4 | N-1 | 89, 90 | 8:06 | 07:58 | 25(.06) | .01 | |
| | 4a | N-1c | 30101, 30102 | 8:10 | 08:00 | 28(.04) | .01 | |
| | 4b | N-1f | 60101, 60102 | 8:16 | 08:07 | 30(.09) | .01 | |
| | 4c | N-1e | 30129, 30130 | 8:21 | 08:10 | 33(.08) | .01 | |
| | 4d | N-1d | 60117, 60118 | 8:28 | 08:16 | 30(.09) | .01 | |
| | 4e | N-1e | 30109, 30110 | 8:32 | 08:22 | 33(.08) | .01 | |
| | 5 | NE-3 | 60107, 60108 | 8:35 | 08:30 | 28(.08) | .01 | |
| | 5a | NE-3a | 30140, 30150 | 9:45 | 08:30 | 32(.08) | .01 | |
| | 6 | NE-4 | 30143, 30144 | 10:03 | 08:46 | 27(.08) | .01 | |
| | 7 | N-2 | 30147, 30148 | 10:18 | 09:00 | 30(.06) | .01 | |
| | 8 | N-3 | 30113, 30116 | 10:22 | 09:15 | 27(.05) | .01 | |
| | 9 | N-4 | 30141, 30142 | 11:00 | 9:37 | 25(.05) | .01 | |
| | 10 | N-5 | 30139, 30140 | 11:06 | 09:48 | 28(.08) | .01 | |
| | 11 | NW-5 | 30117, 30118 | 11:31 | 10:10 | 27(.05) | .01 | |
| | 12 | NW-4 | 30131, 30132 | 11:46 | 10:30 | 25(.08) | .01 | |
| | 13 | NW-3 | 30145, 30146 | 11:50 | 10:34 | 32(.08) | .01 | |
| | 14 | NW-2 | 30107, 30108 | 11:56 | 10:39 | 25(.05) | .01 | |
| Beta | 15 | NW-1 | 79, 80 | 12/2 | 10:55 | 35(.06) | .02 | |
| Beta | 16 | W-1 | 77, 78 | 12/10 | 11:01 | 28(.15) | .01 | |
| Beta | 17 | W-2 | 81, 82 | 12/2 | 11:06 | 23(.05) | .01 | |
| | 18 | SW-1 | 30123, 30124 | 1:26 | 11:10 | 23(.05) | .01 | |
| | 19 | W-3 | 30137, 30138 | 1:44 | 11:21 | 28(.04) | .01 | |

rmc

UNIVERSITY CITY SCIENCE CENTER
3508 MARKET STREET
PHILADELPHIA, PA 19104

DATE REPORTED

4/13/79

BY

R. S. S.

ground
Y/B-Y

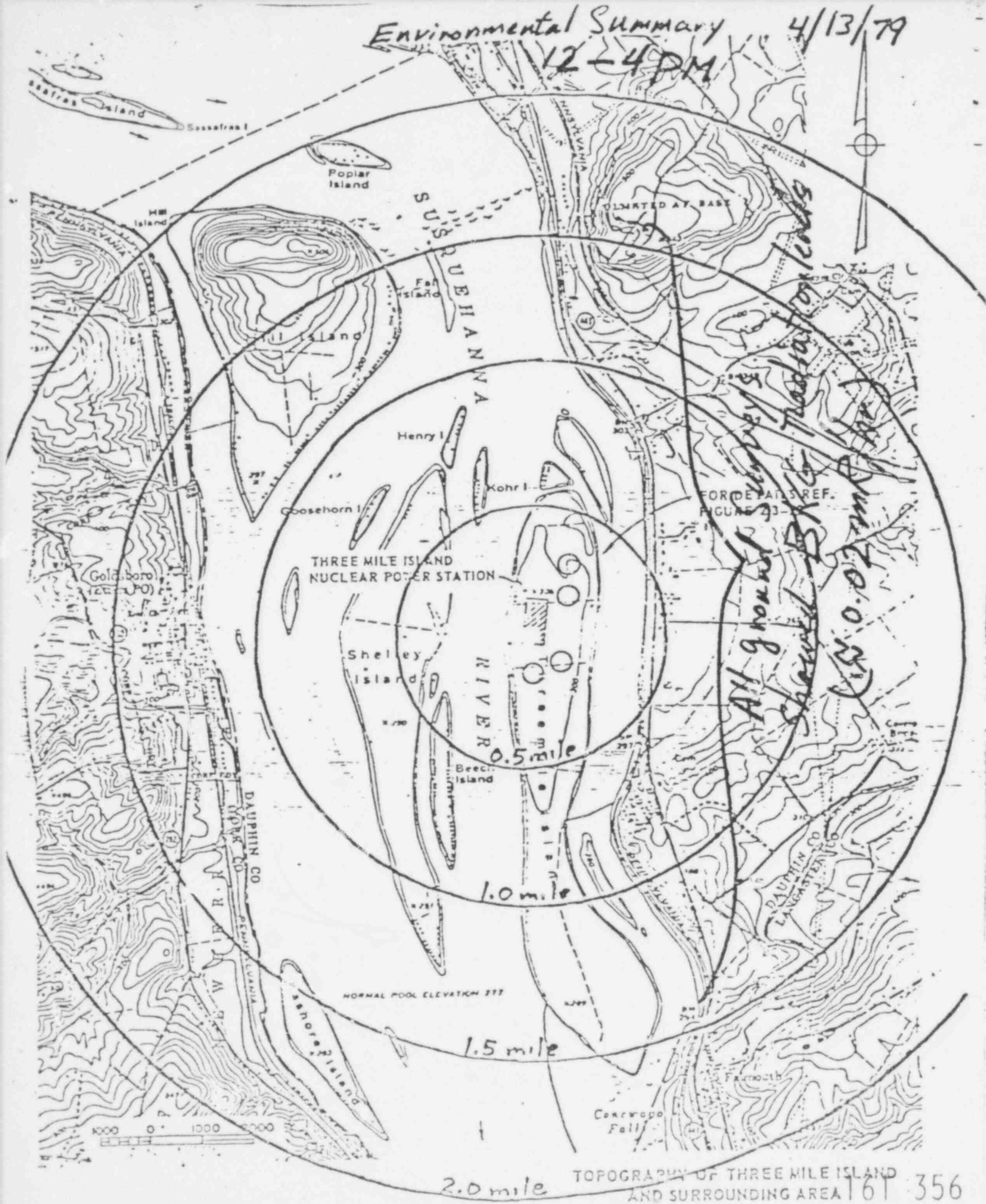
waist
Y/B-r

| NO | STATION
I. D. | DOSIMETER
I. D. | START
DATE TIME | STOP
DATE TIME | TOTAL DOSE
AVG. (mR) | REMARKS |
|-----|------------------|--------------------|--------------------|-------------------|-------------------------|---------|
| 20 | W-5 | 30125, 30126 | 4/12/79 150 | 4/13/79 1130 | .27(.05) .01 | |
| 21 | W-4 | 6013, 6014 | 158 | 1138 | .35(.10) .02 | |
| 21a | W-3a | 60121, 60122 | 200 | 1144 | .35(.05) .02 | |
| 22 | SW-2 | 30111, 30112 | 205 | 1154 | .25(.08) .01 | |
| 22a | S-1a | 121, 122 | 212 | 1159 | .25(.05) .01 | |
| 23 | S-1 | 60119, 60120 | 215 | 1201 | .27(.08) .01 | |
| 24 | S-2 | 30103, 30104 | 221 | 1208 | .30(.00) .01 | |
| 25 | S-3 | 40, 50 | 227 | 1237 | .45(.19) .02 | |
| 26 | SW-3 | 30105, 30106 | 242 | 1300 | .25(.05) .01 | |
| 27 | SW-4 | 60113, 60114 | 240 | 1305 | .35(.10) .02 | |
| 28 | S-4 | 30123, 30134 | 300 | 1322 | .27(.08) .01 | |
| 29 | SE-5 | 60109, 60110 | 342 | 1422 | .37(.08) .02 | |
| 29a | SE-4a | 30119, 30120 | 348 | 1430 | .23(.05) .01 | |
| 30 | SE-4 | 60111, 60112 | 350 | 1433 | .37(.05) .02 | |
| 31 | SE-3 | 60115, 60116 | 355 | 1438 | .27(.05) .01 | |
| 32 | SE-2 | 73, 74 | 358 | 1445 | .25(.06) .01 | |
| 33 | SE-1 | 83, 84 | 400 | 1450 | .33(.05) .01 | |
| 34 | E-2 | 30135, 30136 | 405 | 1457 | .32(.10) .01 | |
| 35 | E-3 | 60123, 60124 | 409 | 1500 | .30(.06) .01 | |
| 36 | E-4 | 30127, 30128 | 415 | 1507 | .28(.04) .01 | |
| 37 | E-5 | 75, 76 | 440 | 1555 | .30(.00) .01 | |

161 355 C

Environmental Summary
12-4 PM

4/13/79



TOPOGRAPHY OF THREE MILE ISLAND
AND SURROUNDING AREA 161 356
THREE MILE ISLAND NUCLEAR STATION UNIT 2
FIGURE 2.3-22A

Environmental Summary

4/13/79

12-4 PM

1. Ground Surveys

Several ground surveys were made at both of the river banks between 8 AM and 4 PM at the 15 monitoring locations. Most of the performed ground radiation surveys were at down wind direction from the plant. All the ground surveys continued to show gamma exposure rates at background (BKG) levels (0.02 mR/hr). The teams were unable to detect the plume. The ground survey team at the west bank of the river is still on a standby status to perform additional direct radiation surveys and air sampling during the planned charcoal filter change at the Aux. Building.

2. AMS Flight

One AMS flight was conducted at 0908-0940. One flight was in progress during writing this report. AMS flight is planned during the change of the Aux. Building charcoal filter.
(Details in the Environ Summary of 8:12 AM)

3. Meteorological & Monitor Data (8 AM - 4 PM)

| Time | Direction | Wind | | HPR-219 | | | HPR
3240 | VAR
748 |
|------|-----------|-------|-------|---------|-----|----|-------------|------------|
| | | Speed | part | I | Gas | | | |
| 0800 | 100° | 15 | 4E4 | 2E5 | 7E4 | 20 | 200 | |
| 0900 | 90-120° | 10 | 3E4 | 2E5 | 7E4 | 20 | 200 | |
| 1000 | 110° | 15-20 | 4E4 | 2E5 | 6E4 | 20 | 200 | |
| 1100 | 130 | 10 | 4E4 | 2E5 | 6E4 | 18 | 200 | |
| 1200 | 125 | 15 | 3.5E4 | 2E5 | 6E4 | 18 | 150 | |
| 1300 | 135 | 15 | 3E4 | 2E5 | 7E4 | 20 | 150 | |
| 1400 | 110 | 17 | 3E4 | 2E5 | 6E4 | 20 | 100 | |
| 1500 | 115 | 13 | 3E4 | 2E5 | 6E4 | 20 | 150 | |
| 1600 | 110 | 10-15 | 3E4 | 2E5 | 6E4 | 20 | 150 | |

4. Environmental Media Sampling and Analyses

a. Milk

Several milk samples were collected from farms in the TMI area. All the analytical results for samples collected on 4/7 and 4/11/79 showed less than 5 pCi/l. These samples were analyzed by the State of Maryland.

b. Vegetation and Soil

Vegetation and soil samples were collected from location SE-1 and all sample showed less than minimum detectable level ($< 7.5 \times 10^{-4}$ pCi/sample).

C. Air Sampling and Analyses

The NRC sample collected between 1653 on 4/12 through 1607 on 4/13/79. The Charcoal air iodine concentration was less than $1.5 \times 10^{-12} \mu\text{Ci/ml}$ and the air particulate filter showed an air iodine concentration of less than $7.94 \times 10^{-13} \mu\text{Ci/ml}$. The total air iodine activity detected was less than the minimum detectable concentration ($< 2.3 \times 10^{-12} \mu\text{Ci/ml}$).

5. Direct Radiation

The direct radiation levels detected by the ground survey and AMS teams were near or at background levels.

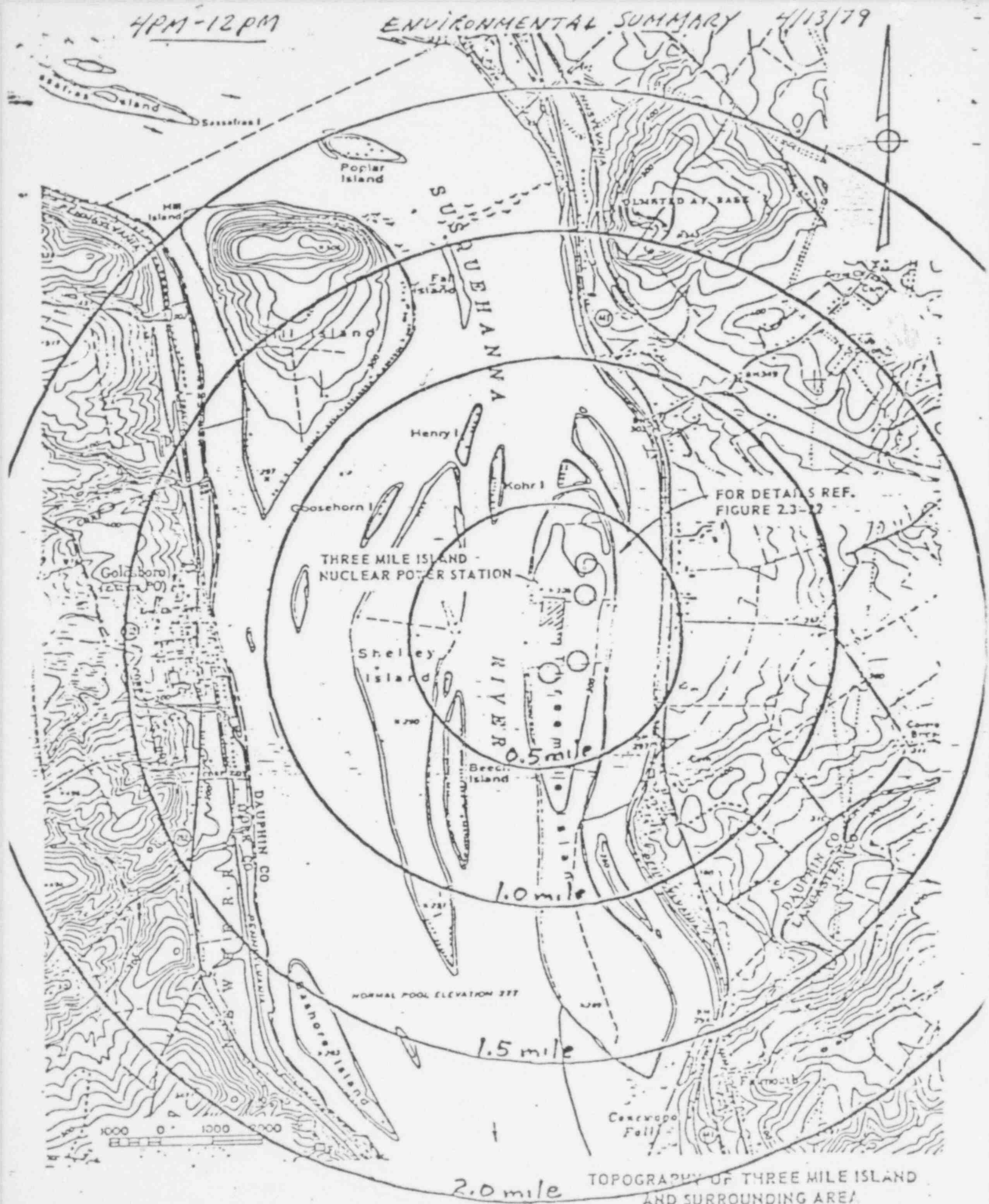
6. Plant Operations

The Aux. Building vent charcoal filter was not changed. The maintenance team is still on a standby status to change the filters. IWT5 effluent releases at $\approx 100 \text{ gpm}$ with I-131 conc. of $1/5 \text{ MPC}$.

4PM-12PM

ENVIRONMENTAL SUMMARY

4/13/79



161 360

THREE MILE ISLAND NUCLEAR STATION UNIT 2C

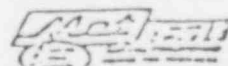


FIGURE 2.3-22A

ENVIRONMENTAL SUMMARY

4/13/79

4:00 PM - 12:00 PM

Grand Surveys

1. A partial survey was made on the west side. All gamma exposure rates were at background levels. No plume was detected.

2. AMS Flight

An AMS flight was conducted at 1454-1530 hrs. Max readings were 30 uR/hr 300 yards downwind from containment. Winds were 14 to 16 mph.

A second flight was initiated at 9:19 p.m. to monitor operations during the taking of the presumed reactor coolant sample. Sample was not taken during this flight. Flight was terminated at 1024. Max readings were 30 uR/hr.

A third flight was initiated at 1045 to monitor operations during the taking of the presumed reactor coolant sample.

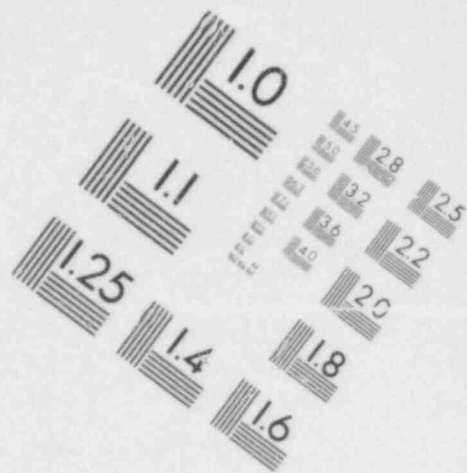
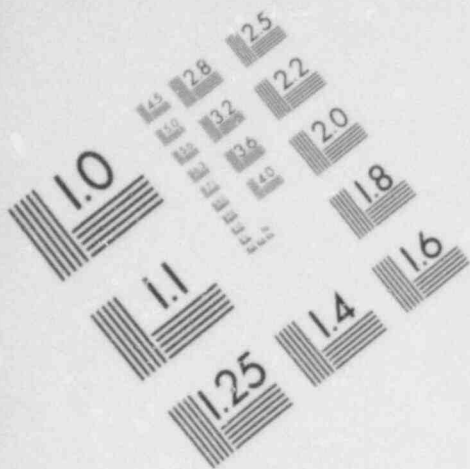
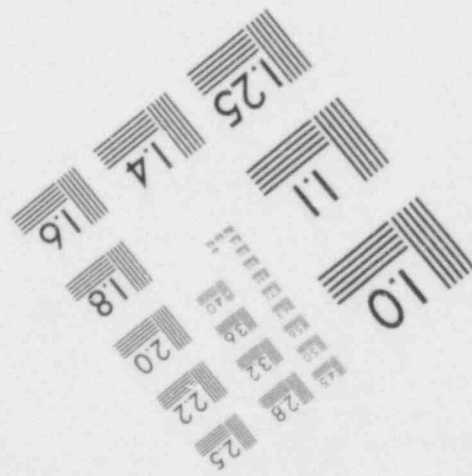
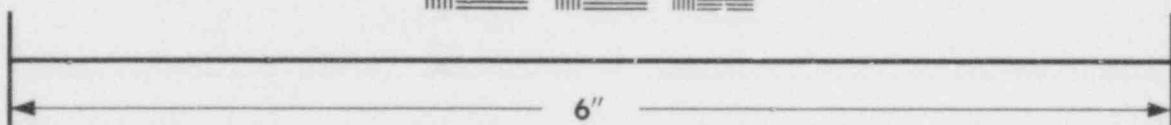
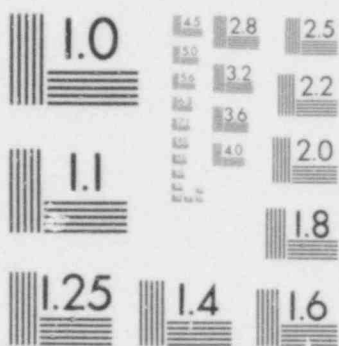


IMAGE EVALUATION
TEST TARGET (MT-3)



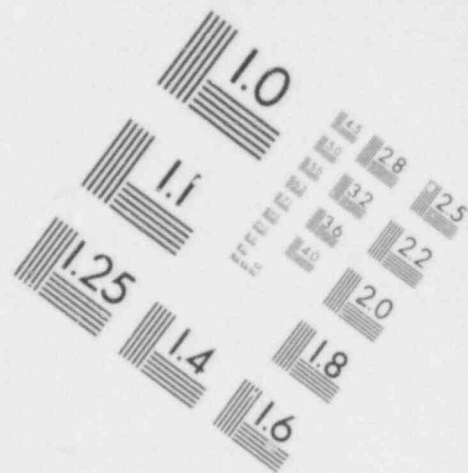
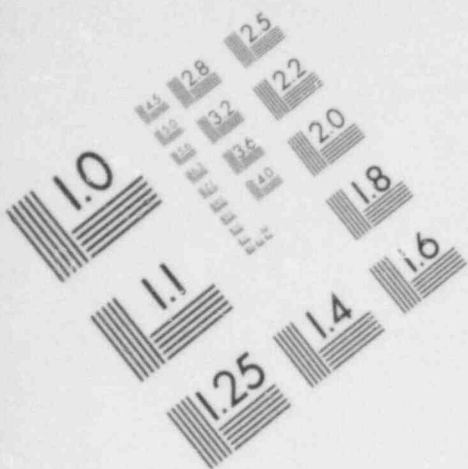
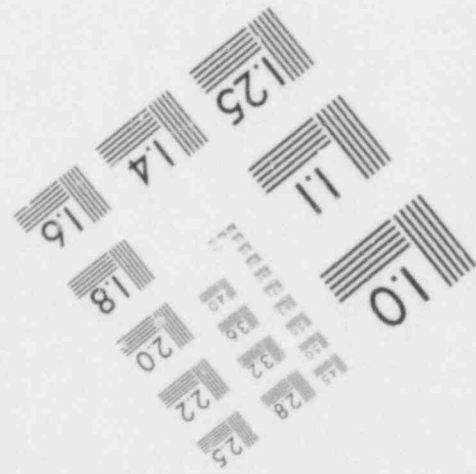
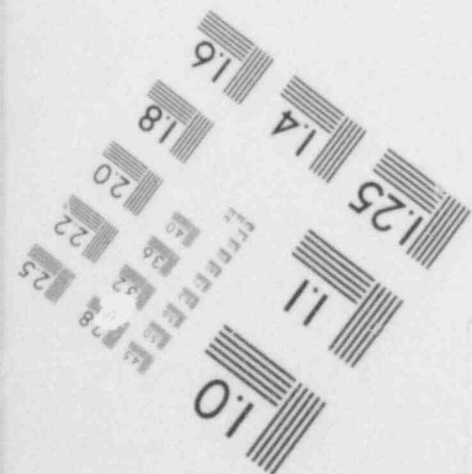
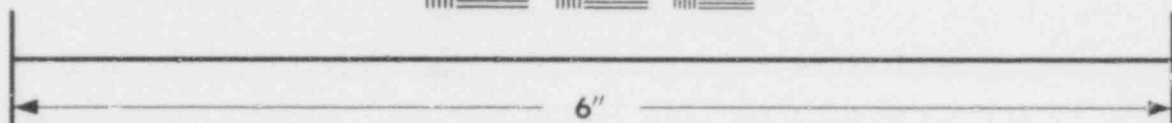


IMAGE EVALUATION
TEST TARGET (MT-3)



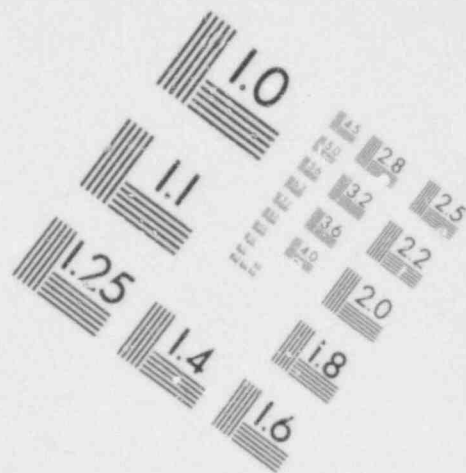
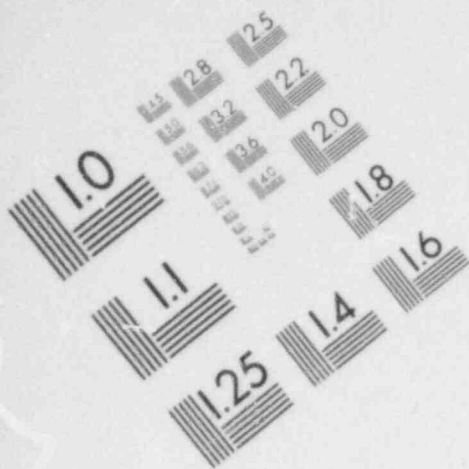
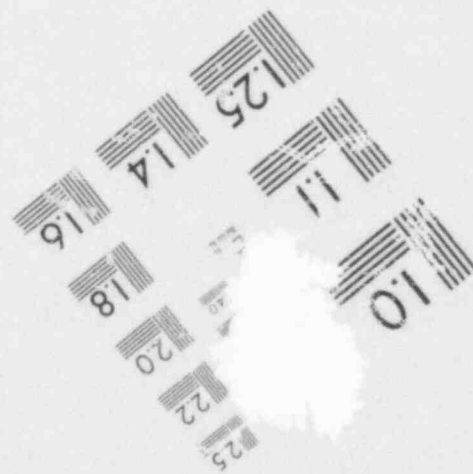
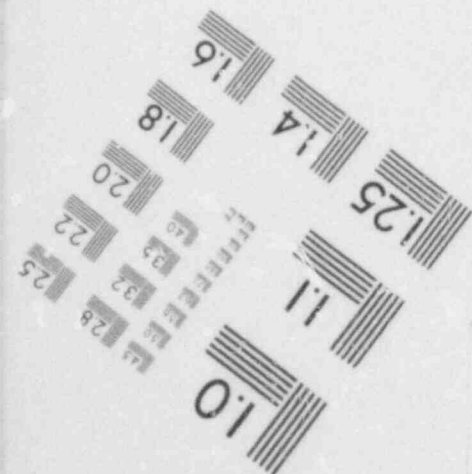
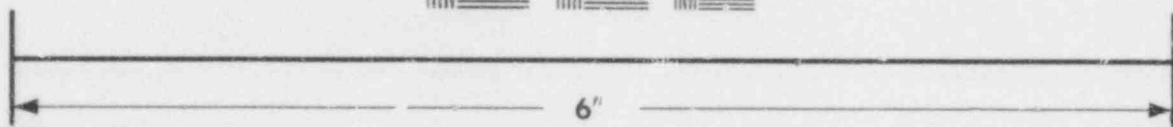


IMAGE EVALUATION
TEST TARGET (MT-3)



3. Meteorological & Monitor Data (4pm - 12pm)

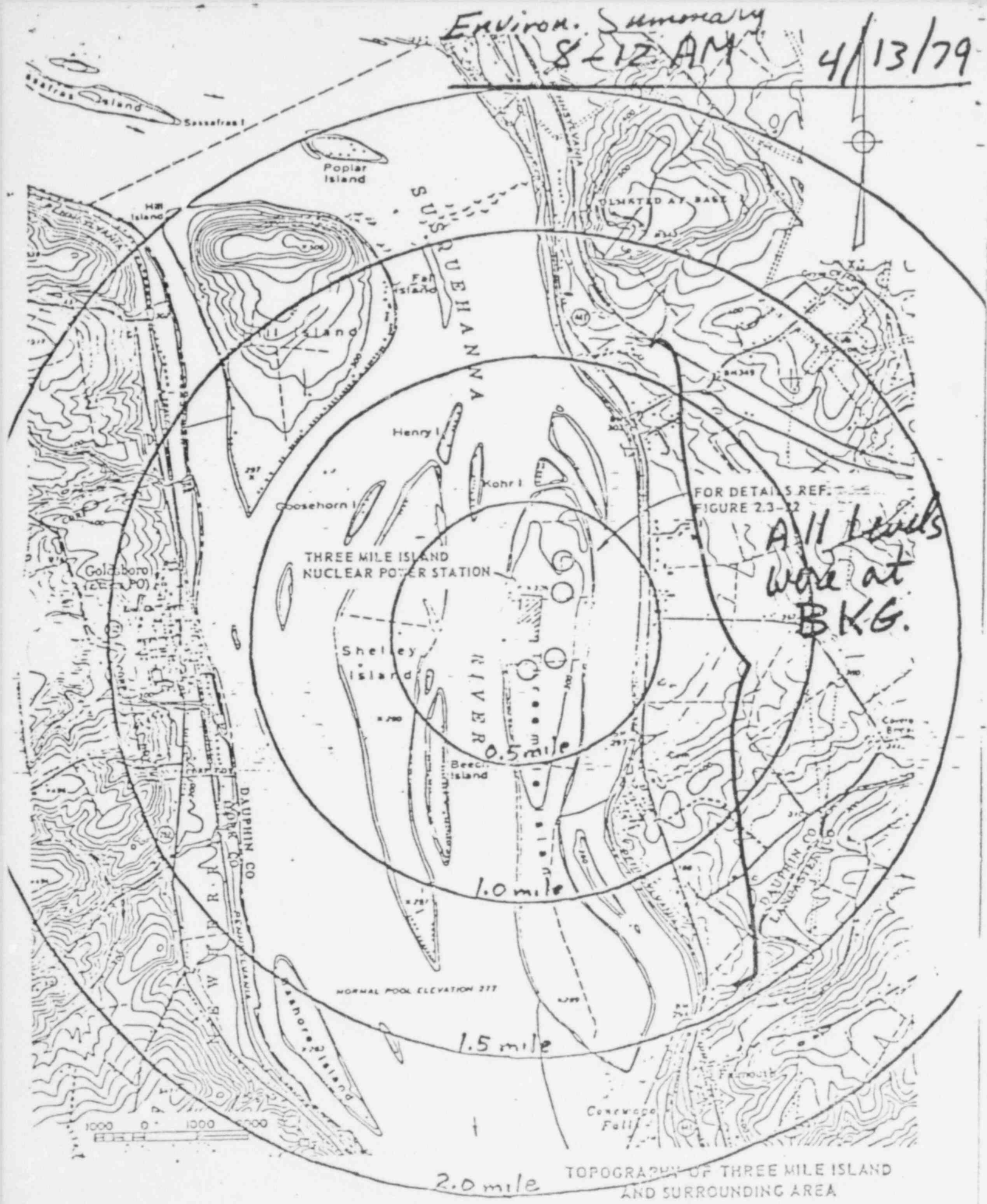
| TIME | DIRECTION | SPEED | APR 219 | | | 3240 | VAR
748 |
|------|-----------|-------|---------|-------|-----|------|------------|
| | | | PART. I | GAS | | | |
| 1600 | 110° | 10-15 | 3E4 | 2E5 | 6E4 | 20 | 100 |
| 1700 | 110° | 5-10 | 3E4 | 2.1E5 | 6E4 | 19 | 120 |
| 1800 | 90-110 | 10-20 | 3E4 | 2E5 | 6E4 | 20 | 120 |
| 1900 | 110-130 | 10-20 | 2.3E4 | 2E5 | 6E4 | 19 | 300 |
| 2000 | 110-130 | 10-15 | 2.5E4 | 2.1E5 | 6E4 | 20 | 130 |
| 2100 | 90° | 5-10 | 3E4 | 2.1E5 | 6E4 | 19 | 130 |
| 2200 | 90° | 5-15 | 3E4 | 2.1E5 | 7E4 | 20 | 110 |
| 2300 | 90° | 5-10 | 3.5E4 | 2.5E5 | 1E5 | 22 | 110 |
| 2400 | | | | | | | |

4. Plant Operations

A pressurized reactor coolant sample was taken at ~ 23:10 hrs. The ARMS helicopter was airborne during this operation and the NRC mobile survey team was situated downwind and initiated a 30 minute air sample. The results of the ARMS flight and the mobile survey team air sample were not available as of this writing.

Environ. Summary
8-12 AM

4/13/79



FOR DETAILS REF.
FIGURE 2.3-22

All levels
were at
BKG.

TOPOGRAPHY OF THREE MILE ISLAND
AND SURROUNDING AREA
162 002 THREE MILE ISLAND NUCLEAR STATION UNIT 2

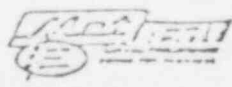


FIGURE 2.3-22A
11 52 10 79

Environmental Summary

8-12 AM

4/13/79

1. Ground Surveys

Several ground surveys were conducted between 8 and 12 AM at the 15 monitoring locations. A ground survey was conducted at the west side of the river and downwind from the plant. All the ground surveys continued to show gamma exposure rates at background (BKG) levels (0.02 mR/hr). The teams were unable to detect the plume.

2. AMS Flight

Flight Time: 0908 - 0940, April 13, 1979.

Met Conditions: Clear; high thin wind at 14-16 miles/hr
110° - 140°

Two flights at 3 miles and 1 mile ~~at~~ Circle, both at 500ft alt. These surveys showed only BKG exposure rates at 0.002 mR/hr.

One path North to South parallel to railroad track at 250ft alt. Levels detected were between 0.010 and 0.011 mR/hr. At 300ft alt. 250-290° relative to plant at 1000ft from containment levels were 0.010 - 0.030 mR/hr. Gamma Spectroscopic analysis showed no evidence of Xe-133. The above BKG levels detected at 1000ft from the TMI station appeared to be from direct gamma radiation shine from the plant.

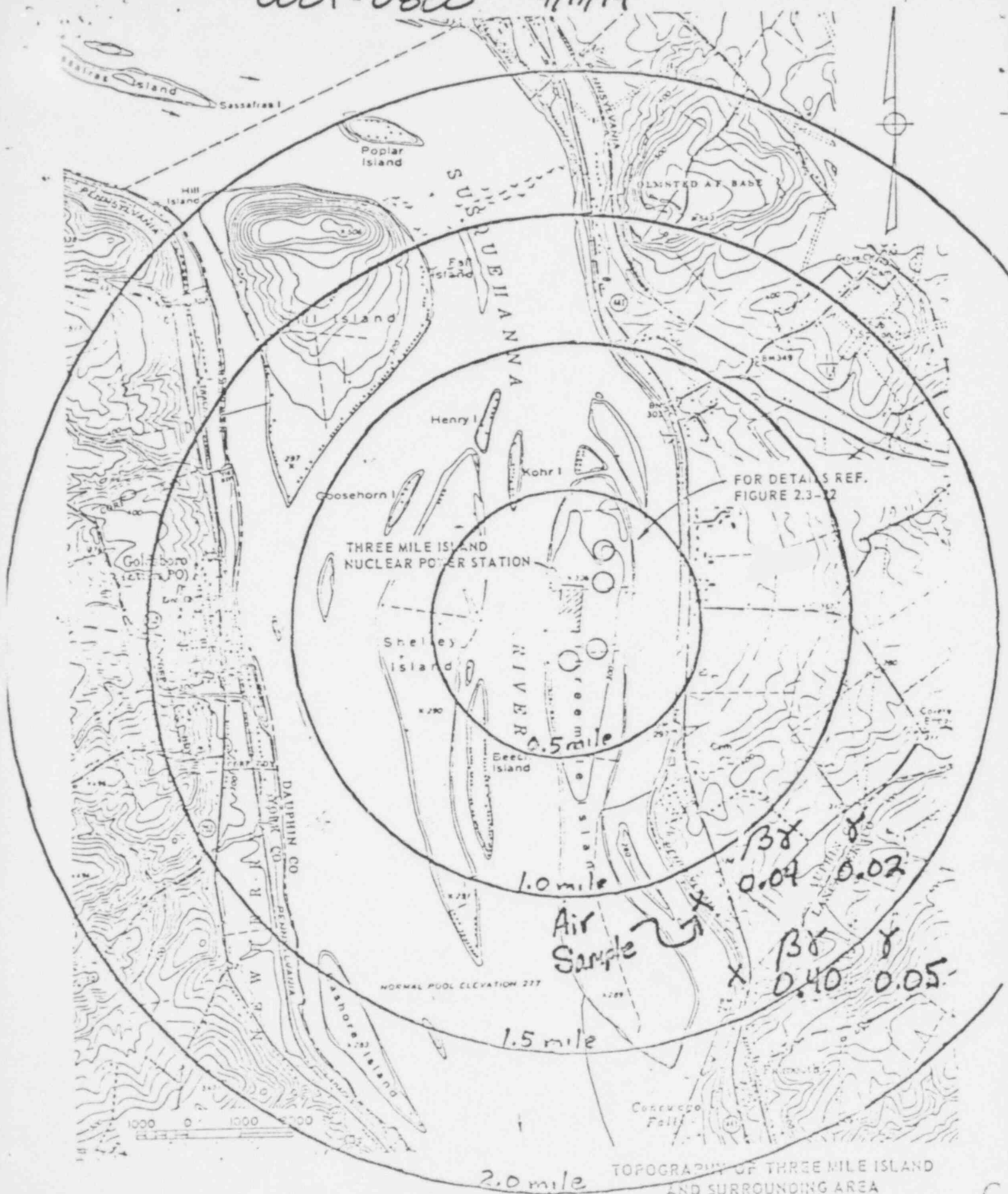
162 003

3. plant Operations

The aux. Building vent Charcoal filter was not changed. The maintenance team is still on a standby status to change the filters. IWTs effluent releases at ≈ 1009 ppm with I-131 Concentration of $\frac{1}{5}$ MPC.

0001-0800

4/11/79



THREE MILE ISLAND
NUCLEAR POWER STATION

FOR DETAILS REF.
FIGURE 2.3-12

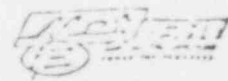
Air
Sample

β γ
0.04 0.02
β γ
0.40 0.05

TOPOGRAPHY OF THREE MILE ISLAND
AND SURROUNDING AREA

THREE MILE ISLAND NUCLEAR STATION UNIT 2

162 005



4-11-79

FIGURE 2.3-22A

AM 14 14 79

Summary 0001-0800 4/11/79

1. Meteorology and Monitor Data

| Time | Wind Dir. | Wind Speed | Part | I ₂ | Gas | HPR 3240 | VAR 748 |
|------|-----------|------------|-------|----------------|-------|----------|---------|
| 0001 | - | - | 4.2E4 | 1.6E5 | 5.5E5 | 3 | 160 |
| 0030 | VAR | 0 | - | - | - | - | - |
| 0100 | VAR | 0 | 5E4 | 1.5E5 | 1E6 | 16 | 200 |
| 0130 | VAR | 0 | - | - | - | - | - |
| 0200 | 340° | 1 | 4.2E4 | 1.6E5 | 7.8E5 | 20 | 200 |
| 0230 | VAR | 0 | - | - | - | - | - |
| 0300 | 70° | 1 | 4.2E4 | 1.5E5 | 5.5E5 | 30 | 220 |
| 0330 | VAR | 0 | - | - | - | - | - |
| 0400 | VAR | 0 | 4.1E4 | 1.6E5 | 1E6 | 18 | 140 |
| 0430 | VAR | 0 | - | - | - | - | - |
| 0500 | VAR | 0 | 3.5E4 | 1.7E5 | 2.5E5 | 18 | 200 |
| 0530 | VAR | 0 | - | - | - | - | - |
| 0600 | VAR | 0 | 3.5E4 | 1.5E5 | 1E6 | 15 | 275 |
| 0630 | VAR | 0 | - | - | - | - | - |
| 0700 | VAR | 0 | 3.8E4 | 1.5E5 | 4E4 | 15 | 200 |
| 0730 | VAR | 0 | - | - | - | - | - |

?

4/11
0300

Personnel Access Hatch
Equipment Hatch

70MR/hr
5.5MR/hr

65MR/hr
4.8MR/hr

2. Water Transfer

The licensee requested approval for the transfer of a Unit 2 bleed tank to the Unit 1 MW ST. No representatives of NRR were available to evaluate the impact of the transfer. It was suggested (by IE operations) that the transfer be delayed until the next shift when NRR could be consulted. J. Baird found that the last analysis of the Unit 2 bleed tanks was performed on 4/3 and indicated levels of I^{131} of $\sim 1 E^2$ $\mu Ci/gal$. Operators stated that the transfer was not necessary at present and would wait.

3. Primary Coolant Sample

The primary coolant sample destined for ORNL landed at 0230 hours on 4/11/79.

Radiation doses for the 4 individuals involved in the primary coolant sampling operation ranged from a high of 120 mr to a low of 5 mr. (Information provided

to Keppler per his request). Air sample taken during operation in plant was 5.7×10^{-11} $\mu\text{Ci}/\text{ml}$. (NOT AN ENVIRONMENTAL SAMPLE)

4. Environmental Air Samples

Two air samples collected on 4/10 and four collected on 4/9 were analysed by the IE:I mobile laboratory. All samples were $< \text{MDA for IE:I}$ (e.g. $< 3.7 \times 10^{-10} \mu\text{Ci}/\text{ml}$)

5. Ground Surveys

#1 0102-0129 East side, 15 points. Maximum readings were between points 11 and 12: $\beta \gamma$ 0.40, γ 0.05. During the survey, winds were light ($< 1 \text{ mph}$) and variable.

#2 0546-0607 East side, 15 points. Maximum readings were at points 11 and 12: $\beta \gamma$ 0.04, γ 0.02. Air sample taken at survey point 11.