

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:8403080020 DOC.DATE: 84/03/01 NOTARIZED: NO DOCKET #
 FACIL:50-250 Turkey Point Plant, Unit 3, Florida Power and Light C 05000250
 50-251 Turkey Point Plant, Unit 4, Florida Power and Light C 05000251
 AUTH.NAME AUTHOR AFFILIATION
 WILLIAMS,J.W. Florida Power & Light Co.
 RECIP.NAME RECIPIENT AFFILIATION
 VARGA,S.A. Operating Reactors Branch 1

SUBJECT: Forwards integral neutron source data for evaluating &
 verifying flux reduction per 84117 request.Data for Cycle 9
 core octant time averaged relative power density,critical
 weld peaking factor & peripheral assembly pin power encl.

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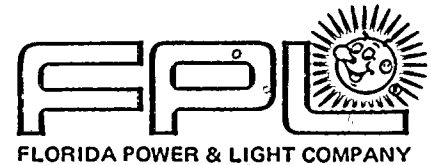
TO : DIRECTOR, FBI (100-388610)
FROM : SAC, NEW YORK (100-100000)
SUBJECT: [REDACTED]

RE: [REDACTED]
[REDACTED]
[REDACTED]

On 10/10/68, [REDACTED] advised that [REDACTED] had been observed at [REDACTED] on 10/10/68. [REDACTED] was observed at [REDACTED] at approximately 10:00 PM. [REDACTED] was observed at [REDACTED] at approximately 10:00 PM. [REDACTED] was observed at [REDACTED] at approximately 10:00 PM.

10/10/68
[REDACTED]

DATE	TIME	LOCATION	PERSONS	REMARKS
10/10/68	10:00 PM	[REDACTED]	[REDACTED]	[REDACTED]
10/10/68	10:00 PM	[REDACTED]	[REDACTED]	[REDACTED]
10/10/68	10:00 PM	[REDACTED]	[REDACTED]	[REDACTED]
10/10/68	10:00 PM	[REDACTED]	[REDACTED]	[REDACTED]
10/10/68	10:00 PM	[REDACTED]	[REDACTED]	[REDACTED]
10/10/68	10:00 PM	[REDACTED]	[REDACTED]	[REDACTED]
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10/10/68	10:00 PM	[REDACTED]	[REDACTED]	[REDACTED]
10/10/68	10:00 PM	[REDACTED]	[REDACTED]	[REDACTED]



March 1, 1984
L-84-54

Office of Nuclear Reactor Regulation
Attention: Mr. Steven A. Varga, Chief
Operating Reactors Branch #1
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

RE: Turkey Point Units 3 & 4
Docket Nos. 50-250 & 50-251
Pressurized Thermal Shock -
Flux Reduction Program

Reference: "Turkey Point Unit 3 and 4 Neutron Source Data
Schedule", Letter from Mr. J. W. Williams to
Mr. S. A. Varga, December 21, 1983, L-83-597

Dear Mr. Varga:

Your letter dated November 17, 1983, requested integral neutron source data for the purpose of evaluating and verifying flux reduction. The data in Attachment A to this letter is submitted for Turkey Point Unit 4, Cycle 9 in accordance with our schedule in Reference 1, and consists of:

1. Cycle 9 core octant time averaged relative power density.
2. Critical weld axial peaking factor.
3. Peripheral assembly pin power.

The time averaged core octant relative power densities provided are based on predicted assembly powers from the FPL PDQ-7 model, assuming an expected core average burnup of 8000 MWD/MTU. Comparisons of predicted and measured assembly relative power densities from available measured incore data are in good agreement, thus making the use of predicted values appropriate.

The peripheral assembly axial peaking factor at the critical weld location is based on predicted data from the FPL EPRI-NODE model. Comparisons of measured and predicted axial power data show good correlation and make the predicted value applicable for the purpose of the flux reduction evaluation.

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PDR ADOCK 05000250
PDR

March 1, 1984
Page Two

The peripheral assembly pin powers provided are based on predicted values from the FPL PDQ-7 model and are representative of the cycle average. These pin powers form the basis of the azimuthal flux variation to be used at the core periphery. The pin powers of all other assemblies are assumed to be flat.

The format of this data is based on information provided by Mr. Lambros Lois of your office by telephone on December 9, 1983. Should you have any questions, please contact Dr. Finis Southworth at 305-552-3468.

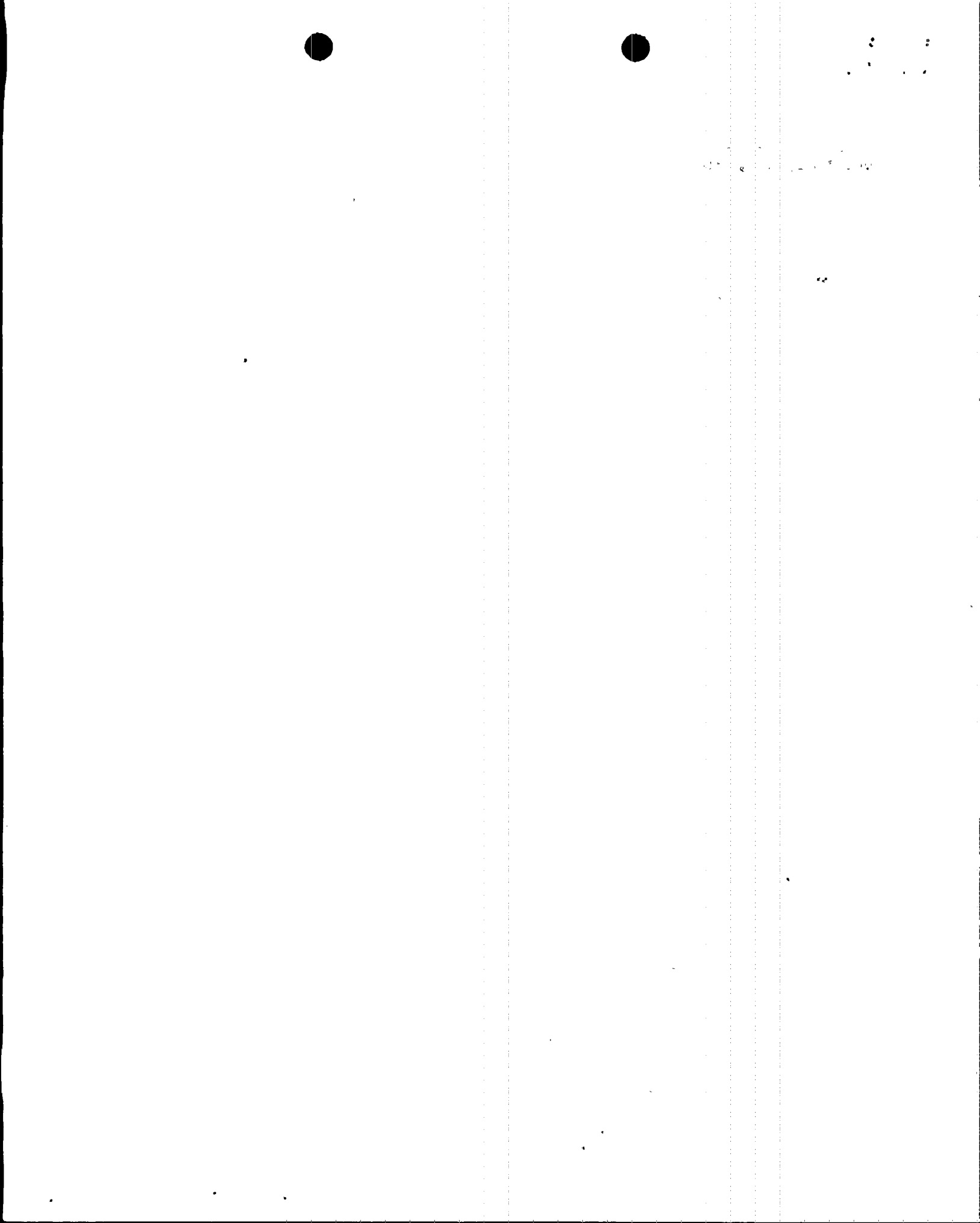
Very truly yours,



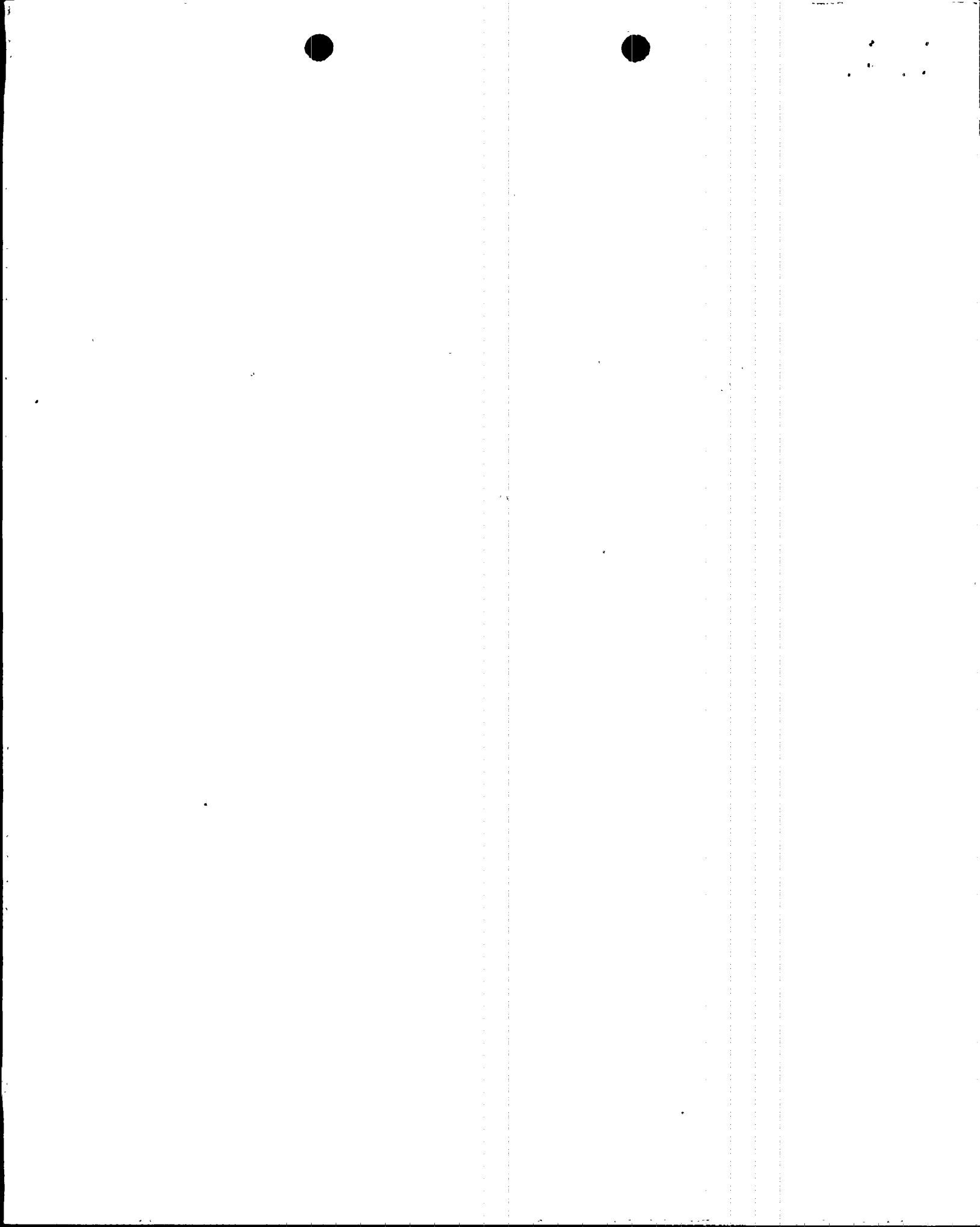
J. W. Williams, Jr.
Vice President
Nuclear Energy

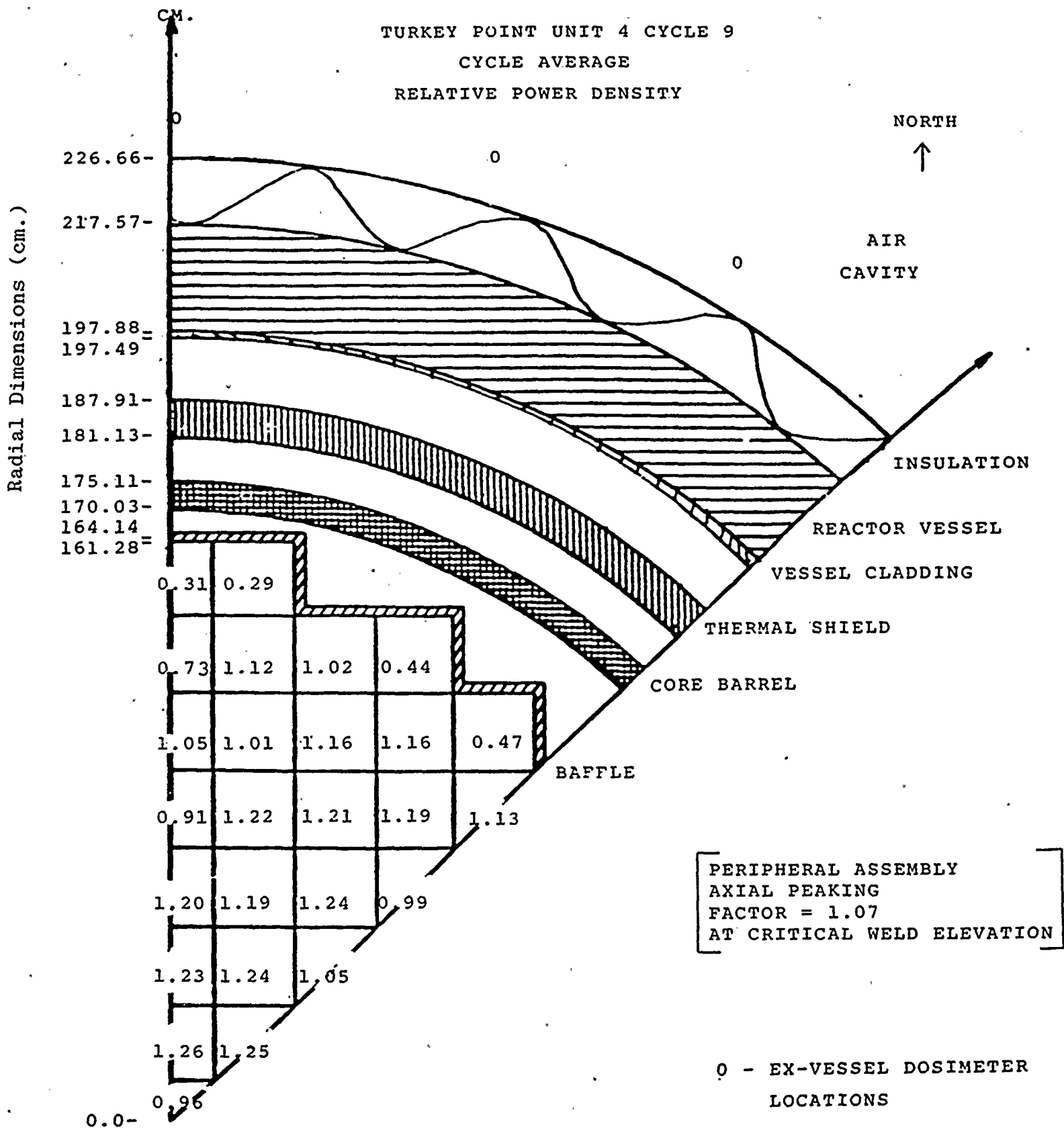
JWW/ERK/daj

cc: J. P. O'Reilly, Region II
Harold F. Reis, Esquire

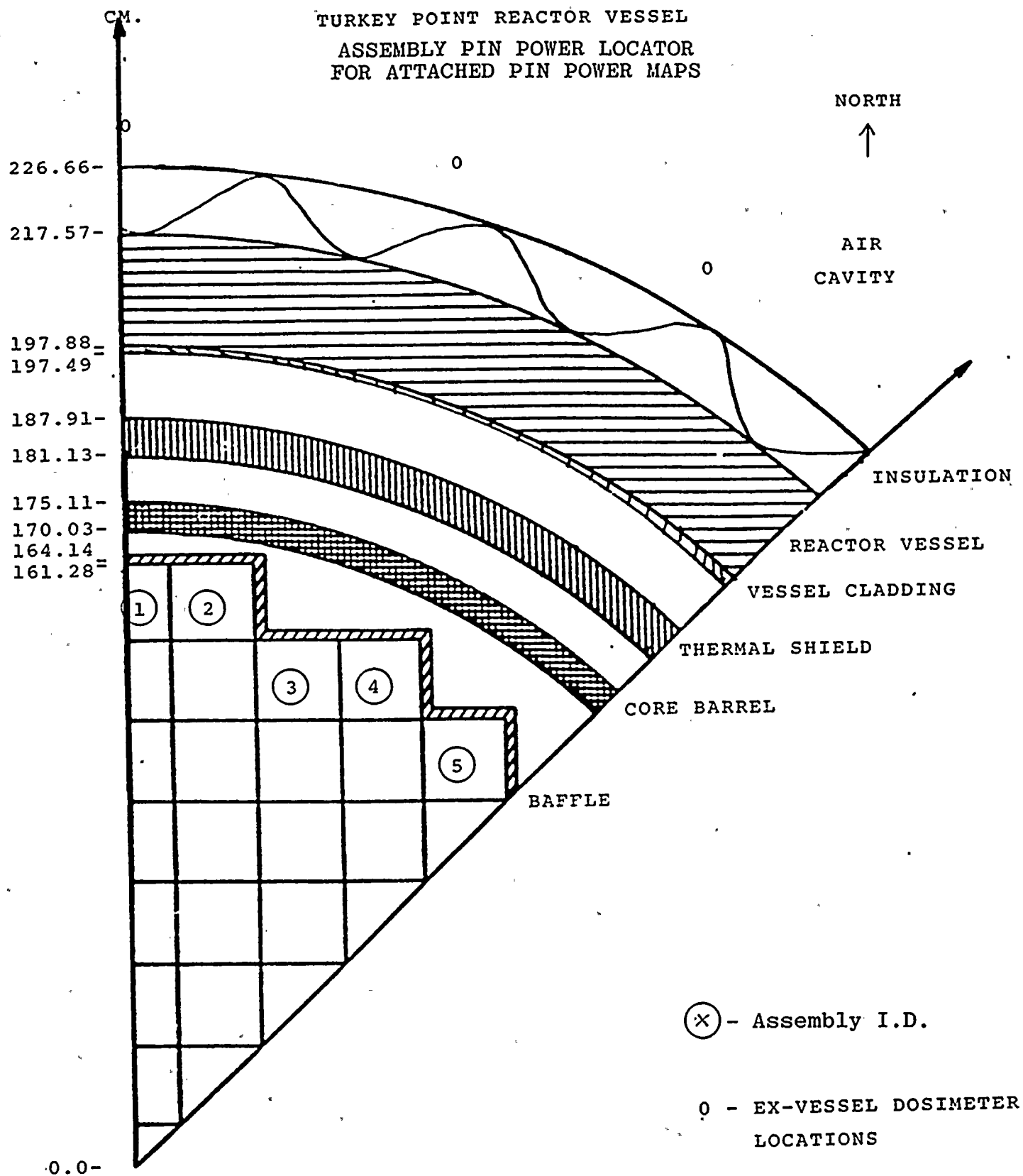


ATTACHMENT A





TURKEY POINT REACTOR VESSEL
ASSEMBLY PIN POWER LOCATOR
FOR ATTACHED PIN POWER MAPS



NORTH
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RELATIVE PIN POWERS (X100)
 ASSEMBLY 1

I	J														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1															
2															
3															
4															
5															
6															
7															
8	48	46	44	0	39	36	33	0	28	25	23	0	19	16	12
9	49	47	45	42	39	36	33	30	27	25	23	21	19	16	12
10	49	47	0	42	39	36	33	30	28	25	23	21	0	16	12
11	49	47	45	42	0	36	33	31	28	26	0	21	19	16	12
12	50	48	46	43	40	37	34	0	29	26	24	21	19	16	12
13	50	48	0	43	40	0	34	31	29	0	24	21	0	16	12
14	50	48	46	43	40	37	34	31	28	26	23	21	18	15	12
15	51	48	45	42	39	36	33	31	28	25	23	20	18	15	12

RELATIVE PIN POWERS (x100)
 ASSEMBLY 2

	J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
I	1	51	47	44	41	38	35	32	29	27	24	22	19	17	14	11
	2	51	48	45	42	39	36	33	30	27	25	22	20	17	14	11
	3	53	49	0	43	40	0	34	31	28	0	23	20	0	15	11
	4	53	50	47	44	41	38	34	0	28	26	23	20	17	15	11
	5	54	50	47	44	0	38	34	31	28	25	0	20	17	14	11
	6	54	50	0	44	41	37	33	30	27	25	22	20	0	14	11
	7	54	50	48	44	41	36	33	30	27	24	22	20	17	14	11
	8	54	50	47	0	40	36	32	0	26	24	21	0	17	14	10
	9	54	50	47	44	39	35	32	28	26	23	21	19	16	13	10
	10	53	49	0	43	39	35	31	28	25	22	20	18	0	13	10
	11	52	48	45	42	0	34	31	28	24	22	0	17	15	12	10
	12	51	47	43	40	36	33	30	0	24	21	19	16	14	12	9
	13	50	45	0	37	34	0	28	25	22	0	17	15	0	11	8
	14	47	42	38	34	31	28	25	22	20	17	15	13	11	10	7
	15	41	35	31	28	26	23	21	18	16	14	13	11	10	8	6

RELATIVE PIN POWERS (x 100)

ASSEMBLY 3

NORTH
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	J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1		122	122	123	121	120	118	114	110	106	102	96	90	83	73	60
2		124	126	129	126	125	124	119	113	110	107	100	93	86	73	57
3		126	130	0	132	130	0	126	120	116	0	104	96	0	74	56
4		126	129	133	133	133	130	126	0	116	111	105	96	86	72	55
5		126	129	134	135	0	126	119	116	110	107	0	96	85	71	55
6		126	131	0	134	128	120	113	109	104	101	99	94	0	71	54
7		125	128	133	132	124	115	112	110	103	97	94	91	83	68	52
8		123	124	130	0	123	114	112	0	103	94	92	0	80	65	50
9		122	125	130	128	120	112	108	106	99	92	90	87	78	64	49
10		122	125	0	127	120	112	105	100	95	92	89	85	0	63	48
11		119	121	124	124	0	114	107	102	96	93	0	82	73	60	46
12		117	118	121	119	118	114	109	0	98	93	87	78	69	57	44
13		115	117	0	114	112	0	104	98	94	0	81	74	0	55	42
14		111	110	110	106	103	101	95	88	85	81	74	67	61	51	39
15		106	104	102	98	95	91	86	81	77	72	67	61	54	46	37

RELATIVE PIN POWERS (x100)
 ASSEMBLY 4

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

CHKD. BY 2718

DATE 2/25/84

FLORIDA POWER & LIGHT COMPANY

SHEET NO. 5 OF 5

PROJECT NO. 125194

NORTH
↑

RELATIVE PIN POWERS (X100)
ASSEMBLY 5

	J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
I	1	86	83	81	79	77	74	71	67	66	63	60	56	52	47	40
	2	84	82	80	77	75	72	69	66	63	61	57	54	50	44	36
	3	82	80	0	75	73	0	67	64	61	0	55	51	0	41	33
	4	79	77	75	73	70	67	64	0	58	55	52	48	44	38	31
	5	77	74	72	70	0	64	60	57	54	51	0	45	41	36	29
	6	74	72	0	67	63	60	56	53	50	47	45	42	0	33	27
	7	71	69	66	63	60	56	53	50	47	44	41	39	35	31	25
	8	68	65	63	0	57	53	50	0	44	41	38	0	32	28	23
	9	65	63	60	57	53	50	47	44	41	38	35	33	30	26	21
	10	63	60	0	54	50	47	44	41	38	35	33	30	0	24	19
	11	59	56	54	51	0	44	41	38	35	33	0	28	25	22	17
	12	56	53	50	47	44	41	38	0	33	30	28	25	23	20	16
	13	52	49	0	43	40	0	35	32	30	0	25	23	0	18	14
	14	47	44	41	38	35	33	30	28	26	24	22	20	17	15	12
	15	41	36	33	31	29	27	25	23	21	19	17	16	14	12	10

