

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8003240534 DOC. DATE: 80/03/20 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
 UHRIG, R.E. Florida Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION
 EISENHUT, D.G. Division of Operating Reactors

SUBJECT: Suppl to proposed Tech Spec amend to Licenses DPR-31 &
 DPR-41 submitted on 770125.

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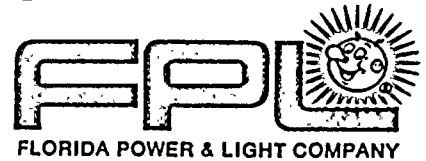
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March 20, 1980
L-80-93

Office of Nuclear Reactor Regulation
Attention: Mr. Darrell G. Eisenhut, Acting Director
Division of Operating Reactors
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Eisenhut:

Re: TURKEY POINT UNITS 3 & 4
DOCKET NOS. 50-250 & 50-251
"ΔT vs. REACTOR POWER" CURVE

The attached information is provided as a supplement to a proposed Technical Specification amendment, which was submitted by letter L-77-32 on January 25, 1977.

Very truly yours,

Robert E. Uhrig
Vice President
Advanced Systems & Technology

REU/MAS/RGM/pa

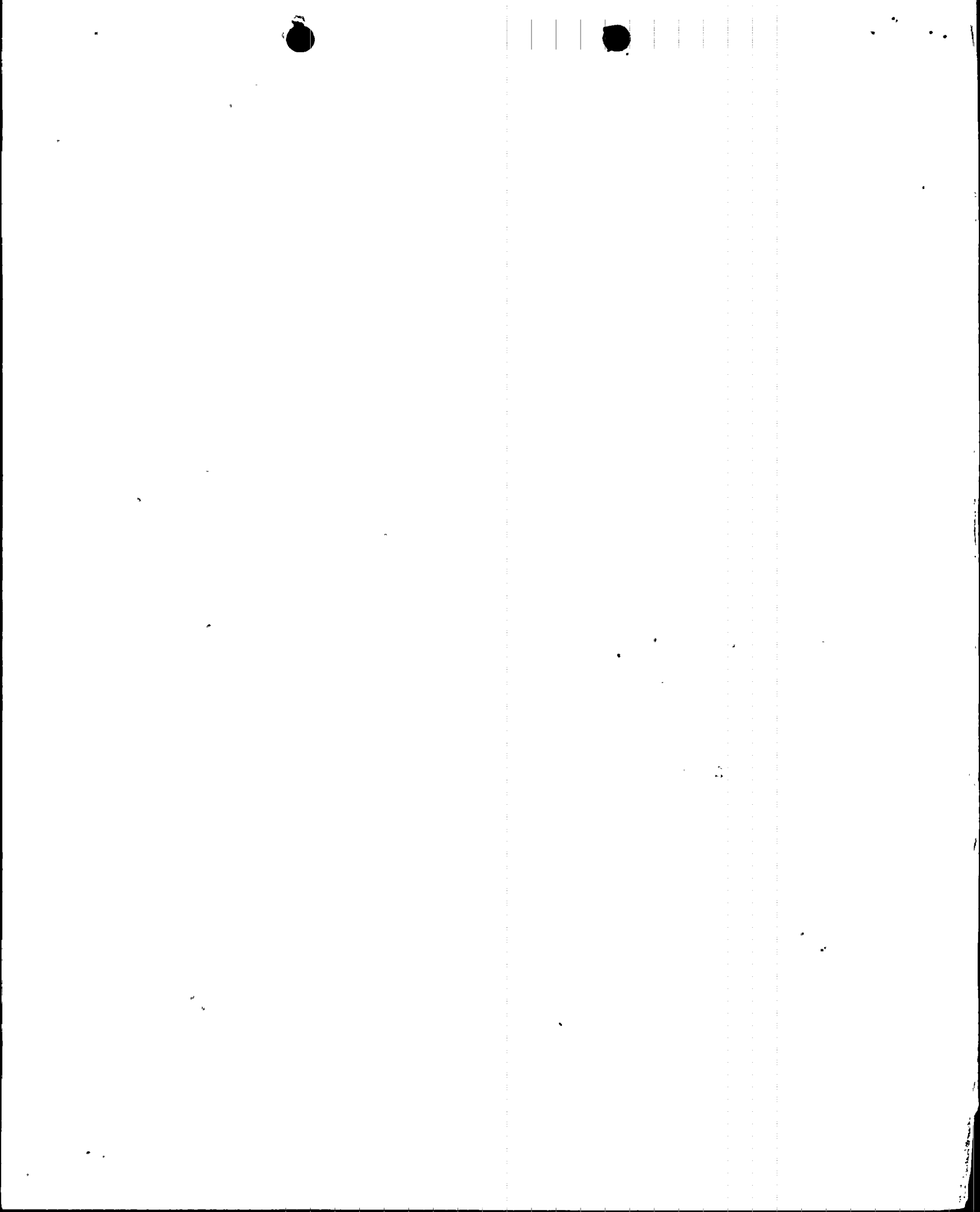
Attachments (3)

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

*Acc
3/3*

8003240534

PEOPLE...SERVING PEOPLE



ATTACHMENT 1

Re: TURKEY POINT UNITS 3 & 4
DOCKET NOS. 50-250 & 50-251
" ΔT vs. REACTOR POWER" CURVE

NRC "PRELIMINARY REVIEW" QUESTIONS

1. Describe, using sketches or drawings as necessary, all the instrumentation used in the existing load vs. flux method. Include channel accuracy, calibration frequency and overall curve accuracies. What section (s) of the FSAR covers this equipment?
2. Does the ΔT vs. power curve include flow rate?
3. Describe, using sketches or drawings as necessary, all the instrumentation used in the proposed ΔT vs. power method. Include channel accuracy, location of sensors, calibration frequency and overall curve accuracies. What section (s) of the FSAR covers this equipment?
4. Describe procedures and calculations used in both methods of this calibration check. Reference the written procedures and logs of this check.
5. List the qualifications of the instrumentation for the proposed ΔT vs. power method. Specifically, is it qualified as safety grade equipment?



ATTACHMENT 2

Re: TURKEY POINT UNITS 3 & 4
DOCKET NOS. 50-250 & 50-251
"AT vs. REACTOR POWER" CURVE

FPL RESPONSE TO NRC "PRELIMINARY REVIEW" QUESTIONS

1. To determine backpressure one of the two following methods is used:

- a. Rosemont backpressure sensor used to input to plant computer. Calibration performed each refueling. ± 1 in Hg
- b. Difference between mercury column barometers measuring condenser vacuum and atmospheric pressure. ± 1 in Hg

To determine gross generation:

Leeds & Northrup strip chart recorder. Calibrated at 6 months intervals. ± 5 MWe

The FSAR does not address this equipment.

2. No, the AT vs Power Curve does not include flow rate.

3. Rosemont temperature sensors located in RTD bypass loop, 1 sensor for cold leg and 1 for hot leg for each of the RCS loops. Sensors are checked to be in spec each refueling and are replaced when failed or out of spec. This instrumentation is addressed in the FSAR, section 7.2, pps. 1, 12, 20, 21, 27-29 and Figures 7.2-1, 2, 8, and 9.

4. A. Flux Vs. Load

Operating Procedure 12304.3, Power Range Nuclear Instrumentation Shift Checks and Daily Calibrations. Determine backpressure from the difference between barometric pressure and condenser vacuum or from the plant computer. Read reactor power as a function of backpressure and indicated generator load (see attached figures). The difference between calorimetric power and Flux Vs. Load Power is the correction factor for the shift.

B. AT Vs. Power

This check would be incorporated as an addition to the calorimetric procedure (see "A" above). Read reactor power directly as a function of AT. The difference between AT power and calorimetric power is the correction factor for the shift. Using AT Vs. Power will eliminate secondary system influences related to Flux Vs. Load.

5. The AT instrumentation is safety grade.



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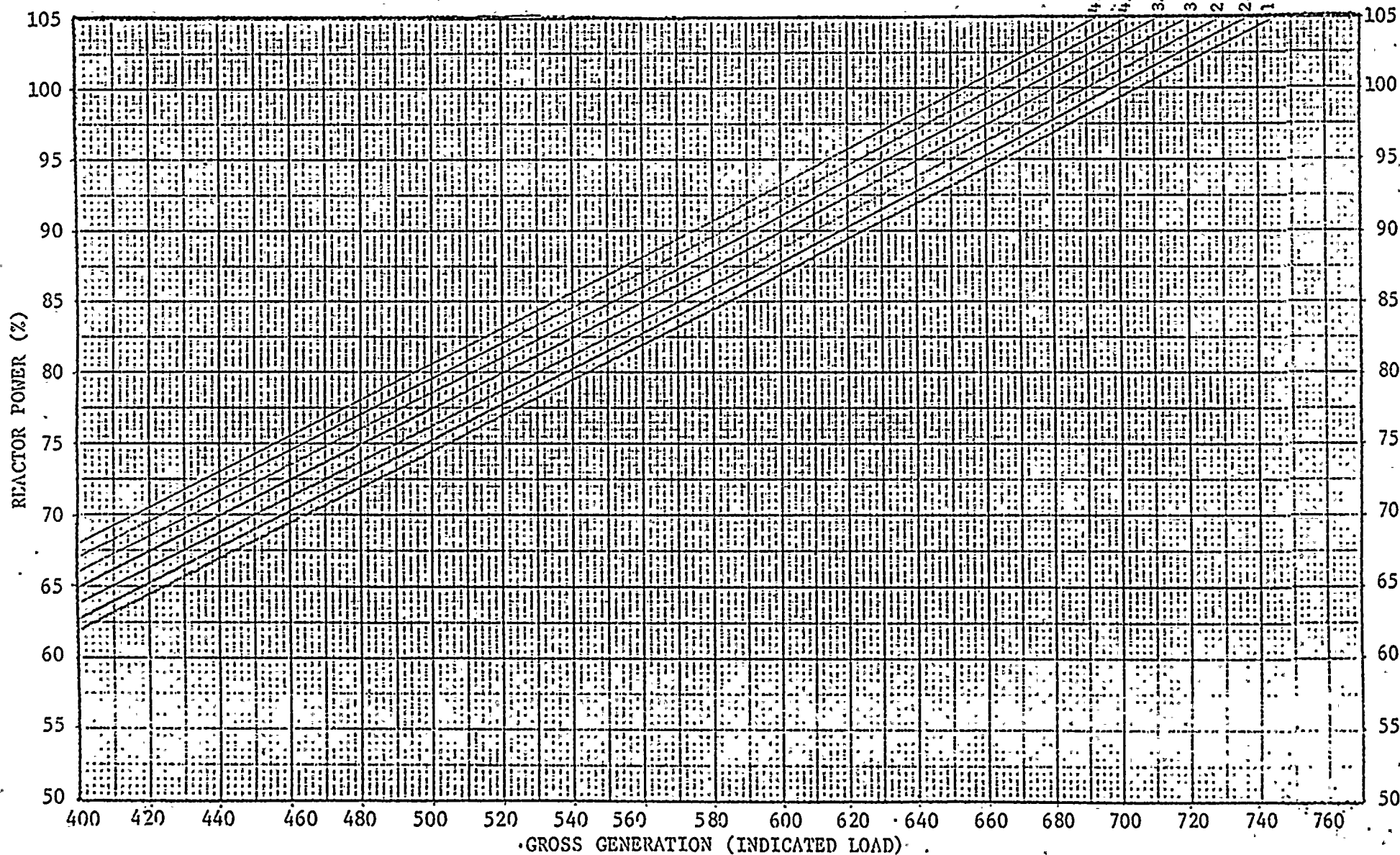
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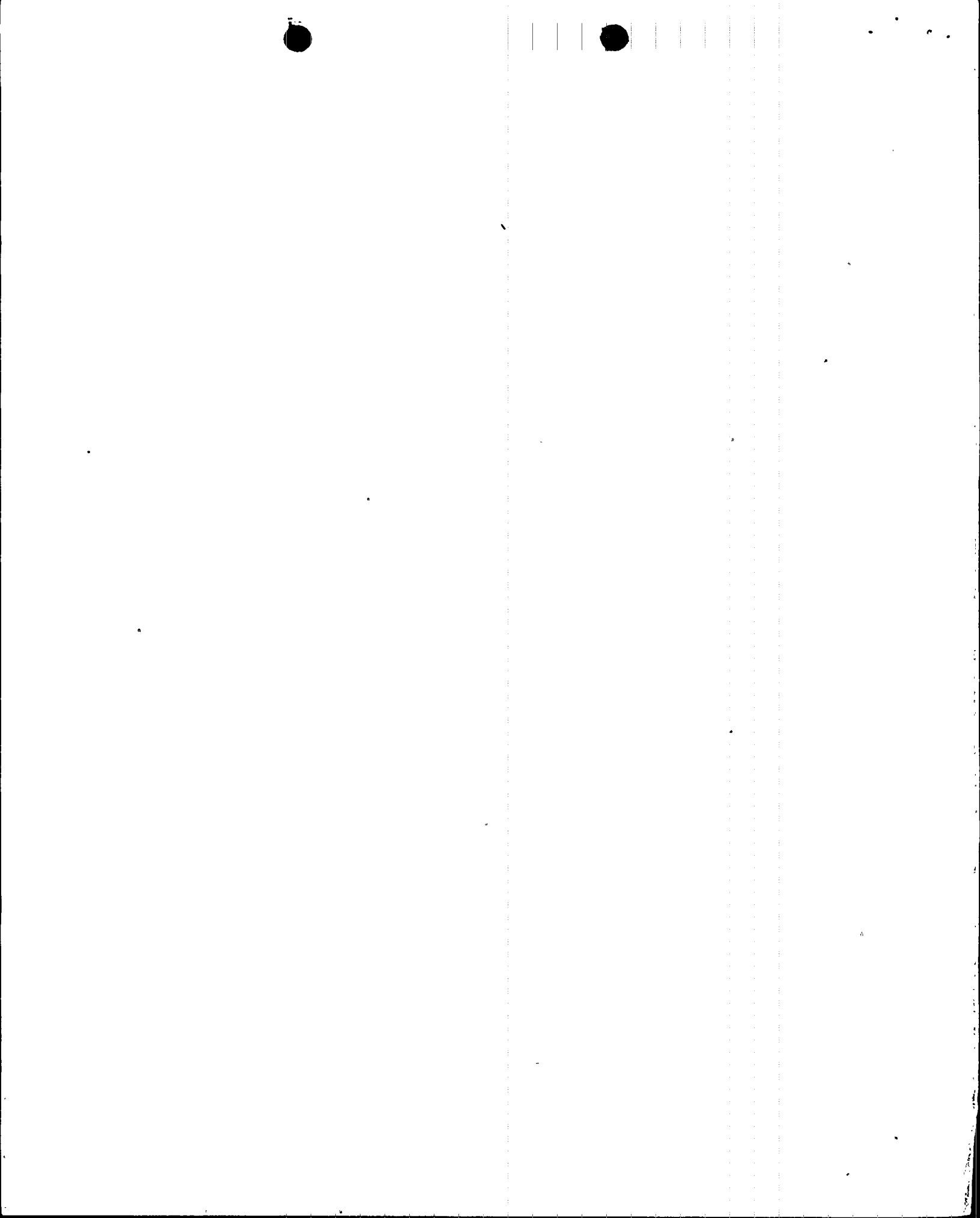
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PTP
CALORIMETRIC SECTION

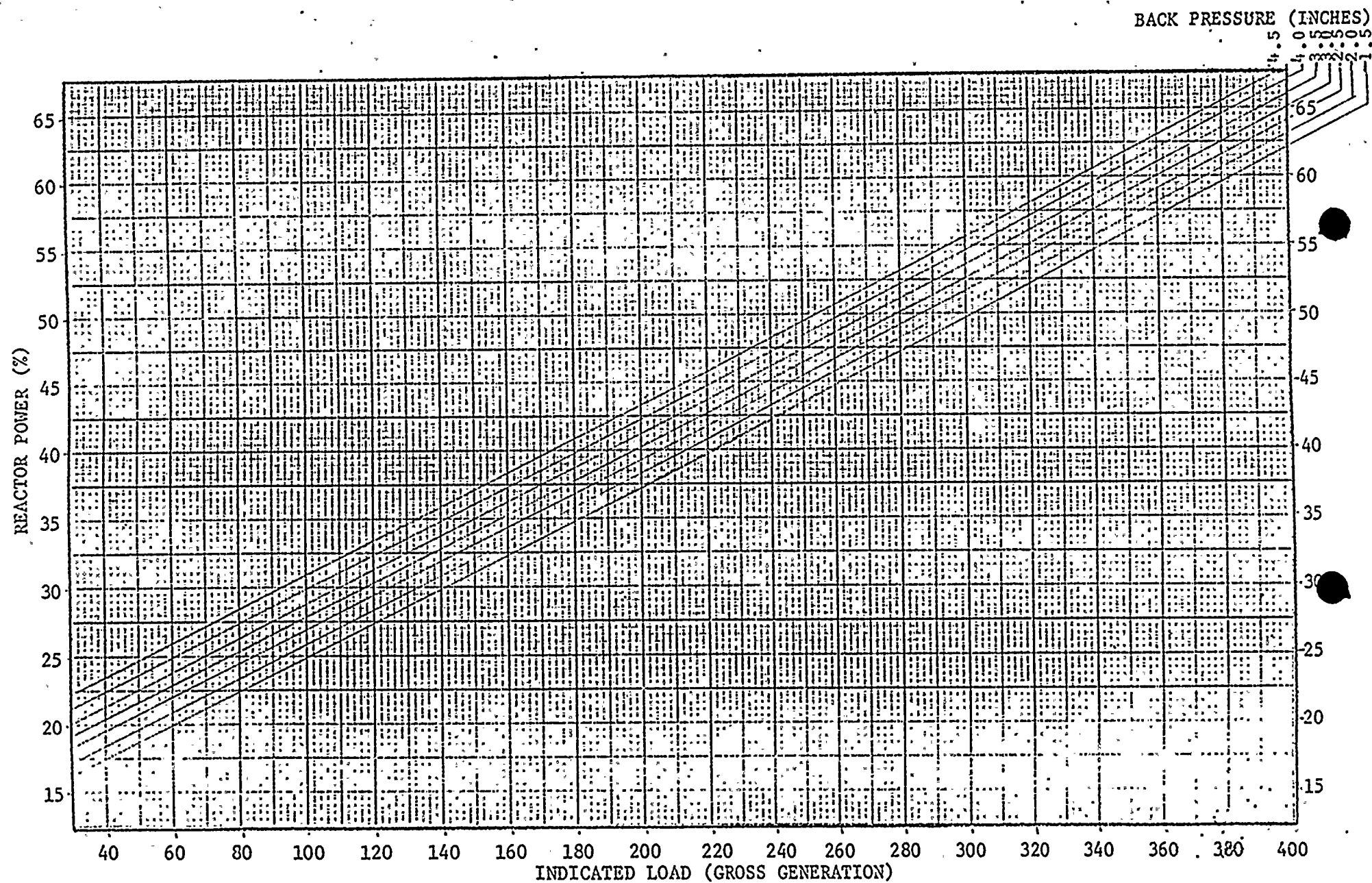
BACK PRESSURE INCHES

4.5
4.0
3.5
3.0
2.5
2.0
1.5





PTP
CALORIMETRIC SECTION





ATTACHMENT 3

Re: TURKEY POINT UNITS 3 & 4
DOCKET NOS. 50-250 & 50-251
" Δ T vs. REACTOR POWER" CURVE

The proposed amendment of January 25, 1977 (L-77-32) is attached.

