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June 19, 2000

Re: Indian Point Unit No. 2
Docket No. 50-247

Document Control Desk
US Nuclear Regulatory Commission
Mail Station P1-137
Washington, DC 20555

SUBJECT: Indian Point Unit 2 Cycle 15 Core Operating Limit Report (COLR)

Dear Sirs:

In accordance with Indian Point Unit 2 Technical Specification 6.9.1.11, enclosed is the IP2 COLR for Cycle 15.

Should you or your staff have any questions concerning this item, please contact Mr. John McCann, Manager, Nuclear Safety & Licensing (914) 734-5129.

Sincerely,

A001

cc: Mr. Hubert J. Miller
Regional Administrator - Region I
US Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406

Mr. Patrick D. Milano, Project Manager
Project Directorate I-1
Division of Reactor Projects I/II
US Nuclear Regulatory Commission
Mail Stop 14B-2
Washington, DC 20555

Senior Resident Inspector
US Nuclear Regulatory Commission
PO Box 38
Buchanan, NY 10511

CYCLE 15 CORE OPERATING LIMITS REPORT

Prepared by: W. OSMIN AS PER TELCO 6/14/00 Reviewer: A. J. Horman

Reviewer: _____ Reviewer: _____

Reviewer: _____ Reviewer: _____

SNSC Review: NA PREVIOUS SNSC 2742 6/14/00 Reviewer: _____
SE-00-370-MM
Meeting No. / Date

Approval: _____ 6/16/00
Signature Date

6/19/00
Effective Date

BIENNIAL REVIEW

_____ _____
Reviewer / Date Reviewer / Date

For use as field copy. Valid for 24 hours: _____
Control Room Supervisor Date / Time

Reference USE CREW ""

rpc6.wpd

NOTE

The Technical Specification references shown next to each Factor OR Limit in this COLR, are there to identify the corresponding sections in Technical Specifications, that refer to the COLR.

The data presented in this report applies to Cycle 15 Only and may NOT be used for other cycles of operation. Any technical change to this graph requires a Safety Evaluation to be performed.

NUCLEAR ENTHALPY RISE HOT CHANNEL FACTOR

NOTE

P is the fraction of full power at which the core is operating.

$F^N_\Delta \leq 1.70\ [1 + 0.3\ (1-P)]$ Tech. Spec. 3.10.2.1

HEIGHT DEPENDENT HEAT FLUX HOT CHANNEL FACTOR FOR ≤ 25% TUBE PLUGGING

NOTE

K(Z) is the fraction given in Figure 1 AND Z is the core height location of F_Q.

IF P > .5, $F_Q(Z) \leq (2.50/P) \times K(Z)$ Tech. Spec. 3.10.2.1

IF P ≤ .5, $F_Q(Z) \leq (5.00) \times K(Z)$ Tech. Spec. 3.10.2.1

NA-PREVIOUS SNSC #7742 6/4/
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AXIAL FLUX DIFFERENCE ENVELOPE LIMITS

The Indicated Axial Flux Difference limit is the Target Band; i.e., the Target ± 5%. Tech. Spec. 3.10.2.6.1

The Axial Flux Difference Envelope Limits at 90 percent power are -11%, +11% AND increase by -1% and +1%, for each 2% of rated power below 90% power, as indicated by Graph RPC-5, Target Flux And Operating. Envelope Diagram. Tech. Spec. 3.10.2.6.1

INSERTION LIMITS

The Shutdown Banks shall be fully withdrawn when the reactor is critical OR approaching criticality. Tech. Spec. 3.10.4.1

The Control Bank Insertion Limits for Criticality, are as indicated by Figure 2. Tech. Spec. 3.10.4.2

NA Previous SNSC #3742 6/1.
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FIGURE 2

FIGURE 3.10-3.
ROD BANK INSERTION LIMITS
(Four Loop Operation)
100 Step Overlap

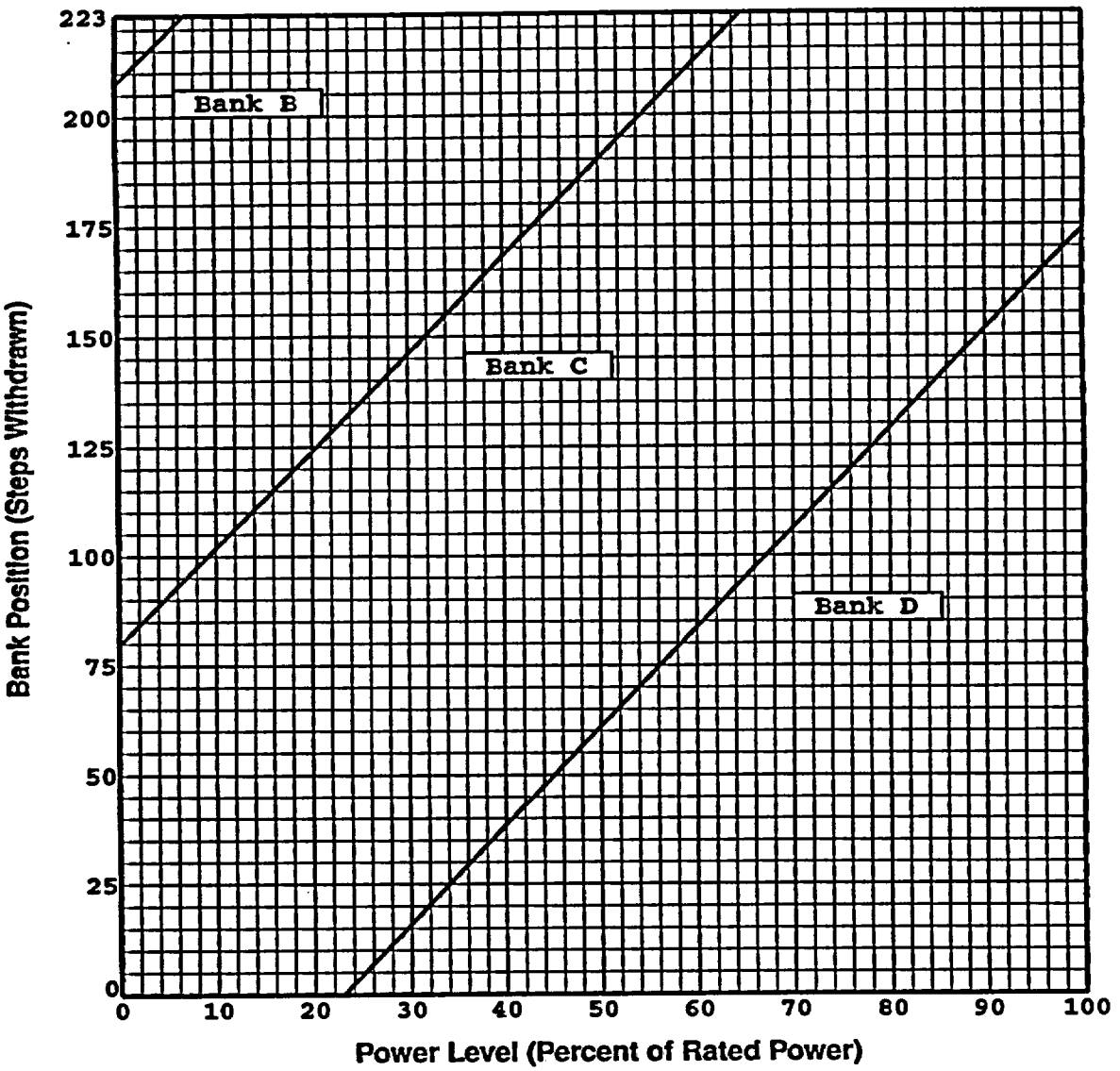

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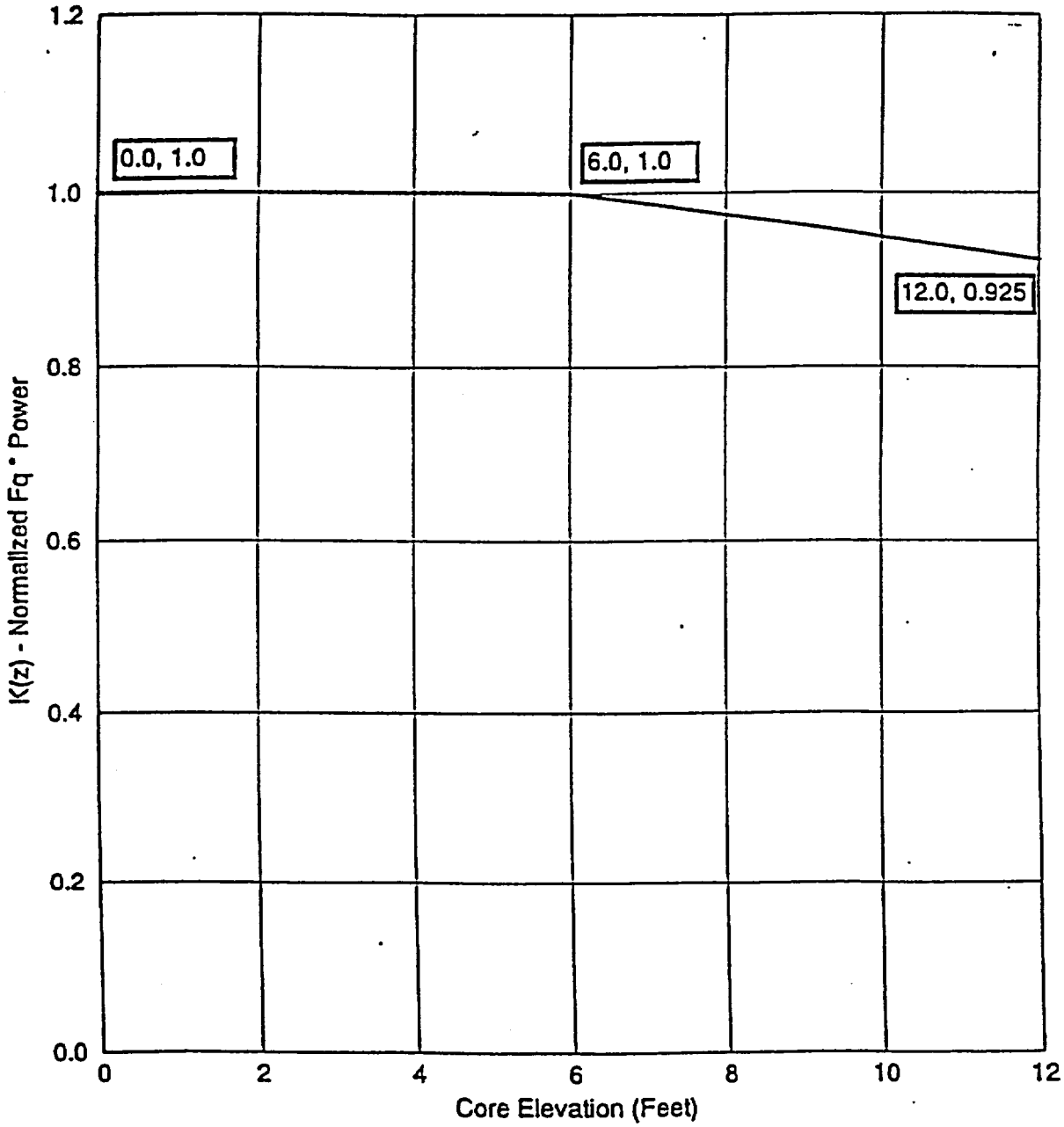
FIGURE 1 HOT CHANNEL FACTOR NORMALIZED OPERATING ENVELOPE
(For S.G. Tube Plugging up to 25%)



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