ATTACHMENT III TO IPN-97-168

Core Operating Limits Report - Revision 3

NEW YORK POWER AUTHORITY INDIAN POINT 3 NUCLEAR POWER PLANT DOCKET NO. 50-286 DPR-64

9712220162 971212 PDR ADUCK 05000286

| New York Power Authority | Procedure Use Is: Continuous Reference | Control Copy: Effective Date: 3/29/95 | | | |
|---|--|--|--|--|--|
| Indian Point 3 | Information | | | | |
| POP-2.3, Revision: 3 CORE OPERATING LIMITS REPORT FOR CYCLE 9 | | | | | |
| Writer A. Lenniger Reviewer | / 3/7/95 Date / 3/8/95 Date | dian Por | | | |
| Approved By: Procedure Sponsor, DM/Designed 95-056 PORC Meeting Number |) 3/zz/95 ee Date | Seration S | | | |

CORE OPERATING LIMITS REPORT FOR CYCLE 9

No: POP-2.3

Rev: 3

Page 1 of 5

TABLE OF CONTENTS

| <u>Section</u> | <u>Title</u> Pa | ige |
|----------------|--|-----|
| 1.0 | PURPOSE | 2 |
| 2.0 | PRECAUTIONS AND LIMITATIONS | 2 |
| 3.0 | PREREQUISITES | |
| 4.0 | PROCEDURE, | 2 |
| 5.0 | REFERENCES | |
| 6.0 | RECORDS AND DOCUMENTATION | 3 |
| Attachm | ent 1, Height Dependent FQ Multiplier K(Z) | . 4 |
| Attachme | ent 2. Control Rod Insertion Limits VS. Relative Power | . 5 |

CORE OPERATING LIMITS REPORT FOR CYCLE 9

No: POP-2.3 Rev: 3

Page 2 of 5

1.0 PURPOSE

Presents cycle specific safety limits for the current operating cycle.

2.0 PRECAUTIONS AND LIMITATIONS

The data presented in this report applies to <u>Cycle 9 Only</u> and <u>SHALL NOT</u> be used for other operating cycles.

3.0 PREREQUISITES

None

4.0 PROCEDURE

The following are Cycle Specific Safety Limits:

| <u>Limit</u> | | Corresponding T.S. |
|--------------|---|------------------------|
| 4.1 | Hot Channel Factors at Rated Thermal Power | |
| | $4.1.1 	ext{ } 	extstyle F_{\Omega}^{RTP} = 2.32$ | 3.10.2.1 |
| | 4.1.2 $F_{\Delta H}^{RTP} = 1.56$ | 3.10.2.1 |
| 4.2 | Height Dependent F_Q Multiplier K(Z), referred to as "fraction" (REFER to Attachment 1) | 3.10.2.1 |
| 4.3 | Power Factor Multiplier for $F_{\Delta H} = PF_{\Delta H} = 0.3$ | 3.10.2.1 |
| 4.4 | Axial Flux Difference Band Width $= \pm 5\%$ | 3.10.2.4 3.10.2.6.1 |
| 4.5 | Axial Flux Difference Envelope Limits at 90% power = -11%, +11% | 3.10.2.6.1 |
| 4.6 | Axial Flux Difference Envelope Increase for each 2% of rated power below 90% power = \pm 1% | 3.10.2.6.1 |
| 4.7 | Shutdown Bank Position for Criticality = Fully Withdrawn | 3.10.4.1 |
| 4.8 | Control Bank Insertion Limits = (REFER to Attachment 2) | 3.10.4.2 |

CORE OPERATING LIMITS REPORT FOR CYCLE 9

No: POP-2.3 Rev: 3
Page 3 of 5

5.0 REFERENCES

5.1 Commitment Documents

None

5.2 <u>Development Documents</u>

- 5.2.1 NRC Generic Letter 88-16
- 5.2.2 Technical Specifications
- 5.2.3 Indian Point Plant Unit 3 Cycle 9 Reload Safety Evaluation, May 1992

5.3 Interface Documents

None

6.0 RECORDS AND DOCUMENTATION

None

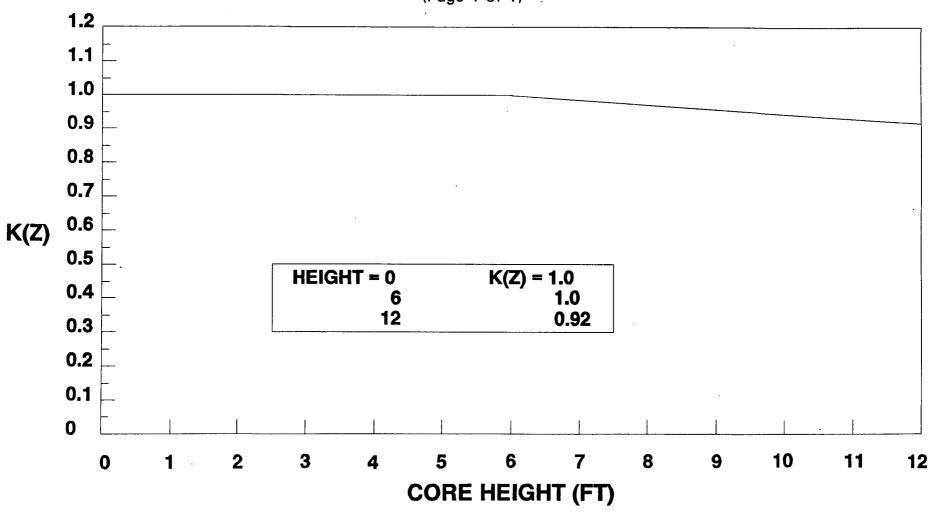
CORE OPERATING LIMITS REPORT FOR CYCLE 9

No: POP-2.3

Rev: 3

Page 4 of 5

ATTACHMENT 1
HEIGHT DEPENDENT FO MULTIPLIER K(Z)
(Page 1 of 1)



Applies to FQ of 2.32

CORE OPERATING LIMITS REPORT FOR CYCLE 9

No: POP-2.3

Rev: 3

Page 5 of 5

ATTACHMENT 2 CONTROL ROD INSERTION LIMITS VS. RELATIVE POWER (Page 1 of 1)

