FPL

September 27, 2007
L-2007-150
10 CFR 50.36

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D. C. 20555-00001

Re: Turkey Point Unit 3
Docket No. 50-250
Core Operating Limits Report

In accordance with Technical Specification 6.9.1.7, the attached Core Operating Limits Report is provided for Turkey Point Unit 3. These curves are applicable for Unit 3 Cycle 23.

Should there be any questions, please contact James Connolly, Licensing Manager, at 305-246-6632.

Very truly yours,

William Jefferson, Jr.
Site Vice President
Turkey Point Nuclear Plant

Attachment

cc: Regional Administrator, Region II, USNRC
Senior Resident Inspector, USNRC, Turkey Point Plant

A001
NRR

CORE OPERATING LIMITS REPORT - UNIT 3 CYCLE 23

The Technical Specifications (TS) affected by this report are:

3.1.3.2	Analog Rod Position Indication System
3.1.3.6	Control Rod Insertion Limits
3.2.1	Axial Flux Difference (AFD)
3.2.2	Heat Flux Hot Channel Factor - $F_Q(Z)$
3.2.3	Nuclear Enthalpy Rise Hot Channel Factor - $F_{\Delta H}$

The Control Rod Insertion Limits, AFD, $F_Q(Z)$, K(Z), and $F_{\Delta H}$ have been developed using the NRC approved methodology specified in TS 6.9.1.7.

TS 3.1.3.2 Analog Rod Position Indication System

The All Rods Out position for all Shutdown Banks and Control Banks is defined to be 228 steps withdrawn.

TS 3.1.3.6 Control Rod Insertion Limits

The control rod banks shall be limited in physical insertion as shown on Figure 1 for All Rods Out = 228 steps withdrawn.

TS 3.2.1 Axial Flux Difference

The AFD limits are provided on Figure 2.

TS 3.2.2 Heat Flux Hot Channel Factor - $F_Q(Z)$

$[F_Q]^L = 2.50$

$K(Z) = 1.0$ for 0 ft. $\leq Z \leq$ 12 ft. where Z = core height.

TS 3.2.3 Nuclear Enthalpy Rise Hot Channel Factor

$F_{\Delta H}^{RTP} = 1.70$

$PF_{\Delta H} = 0.3$

Figure 1
Turkey Point Unit 3 - Cycle 23 Rod Insertion Limits vs Thermal Power
ARO = 228 Steps Withdrawn, Overlap = 100 Steps

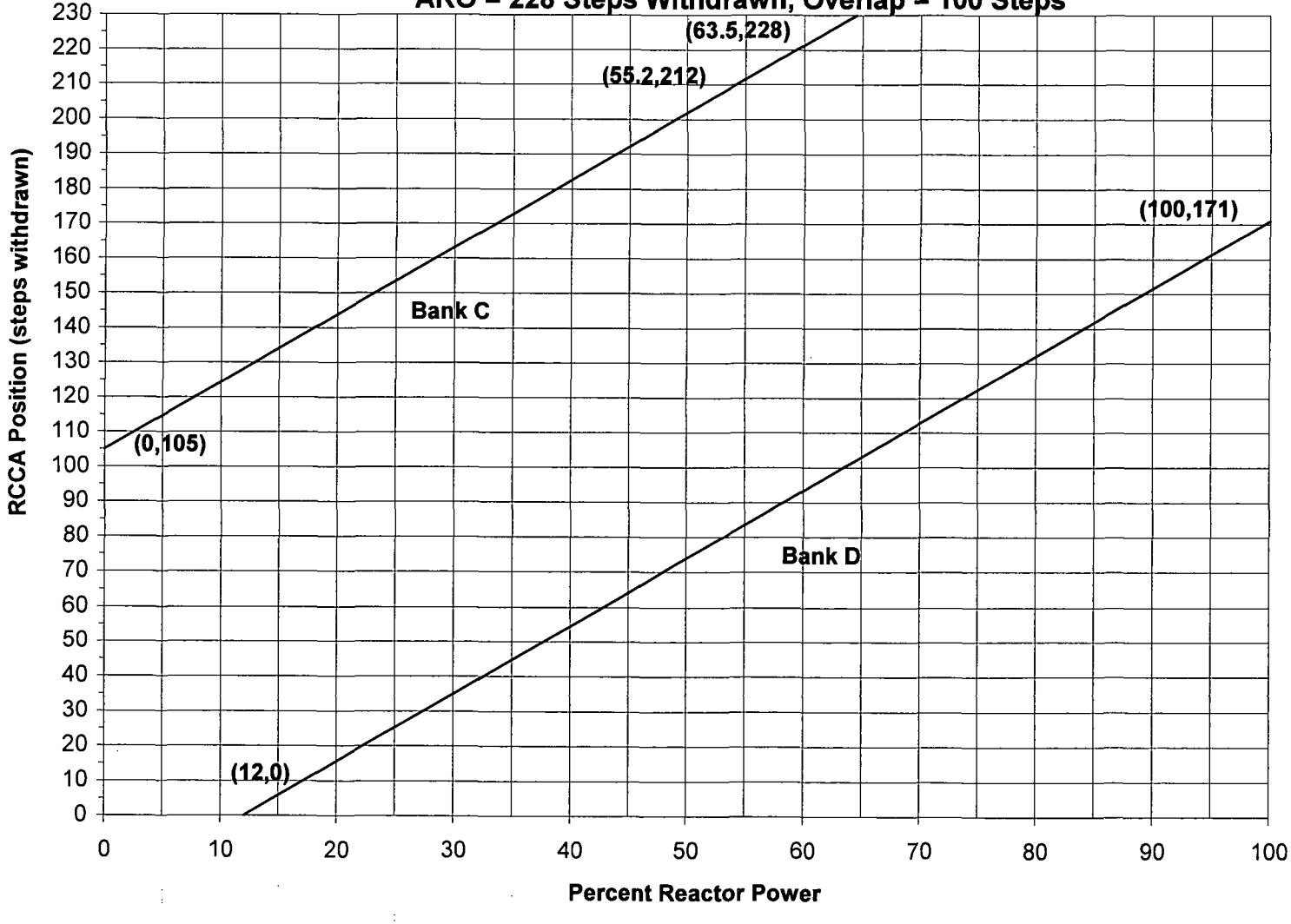

Figure 2
Axial Flux Difference as a Function of Rated Thermal Power
Turkey Point Unit 3 - Cycle 23