



Public Service

Public Service  
Company of Colorado

16805 WCR 19 1/2, Platteville, Colorado 80651

July 24, 1985  
Fort St. Vrain  
Unit No. 1  
P-85261

Mr. Robert Burnett, Director  
Office of Nuclear Reactor Regulation  
Operating Reactors Safeguards Branch  
Division of Operating Reactors  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Docket No. 50-267

SUBJECT: Cycle 4 Base Reactivity  
Curve And Rod Withdrawal  
Sequence

Gentlemen:

In accordance with the requirements of LCO 4.1.8 of the Fort St. Vrain Technical Specifications, I am transmitting a revised Base Reactivity Curve (Figure 18), correcting a typographical error on the x-axis, and a new Figure 19, incorporating a fuel temperature dependent adjustment to base reactivity, which incorporates an adjustment to Figure 18 based on empirically determined trends to the 4-thermal neutron group GAUGE code base reactivity. Extensive evaluations by GA Technologies (GAT) and Public Service Company (PSC) have resulted in this new Figure 19. It is felt by both Public Service Company and GA Technologies that use of this figure will improve the accuracy of modeling the core reactivity status.

These changes became effective with revisions to SOP 12-02, effective July 12, 1985. Reactor criticality occurred on July 21, 1985, utilizing these figures with very satisfactory results. If you have questions regarding this transmittal, please contact me at (303) 785-2223.

Sincerely,

J. W. Gahm  
Manager, Nuclear Production

Attachments

JWG/JMS:djm

8507290299 850724  
PDR ADOCK 05000267  
P PDR

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*Add: Robert Burnett*  
*Original to: Region 4*  
*Filer*

Figure 19  
Adjustment to Base Reactivity  
As a Function of Fuel Temperature

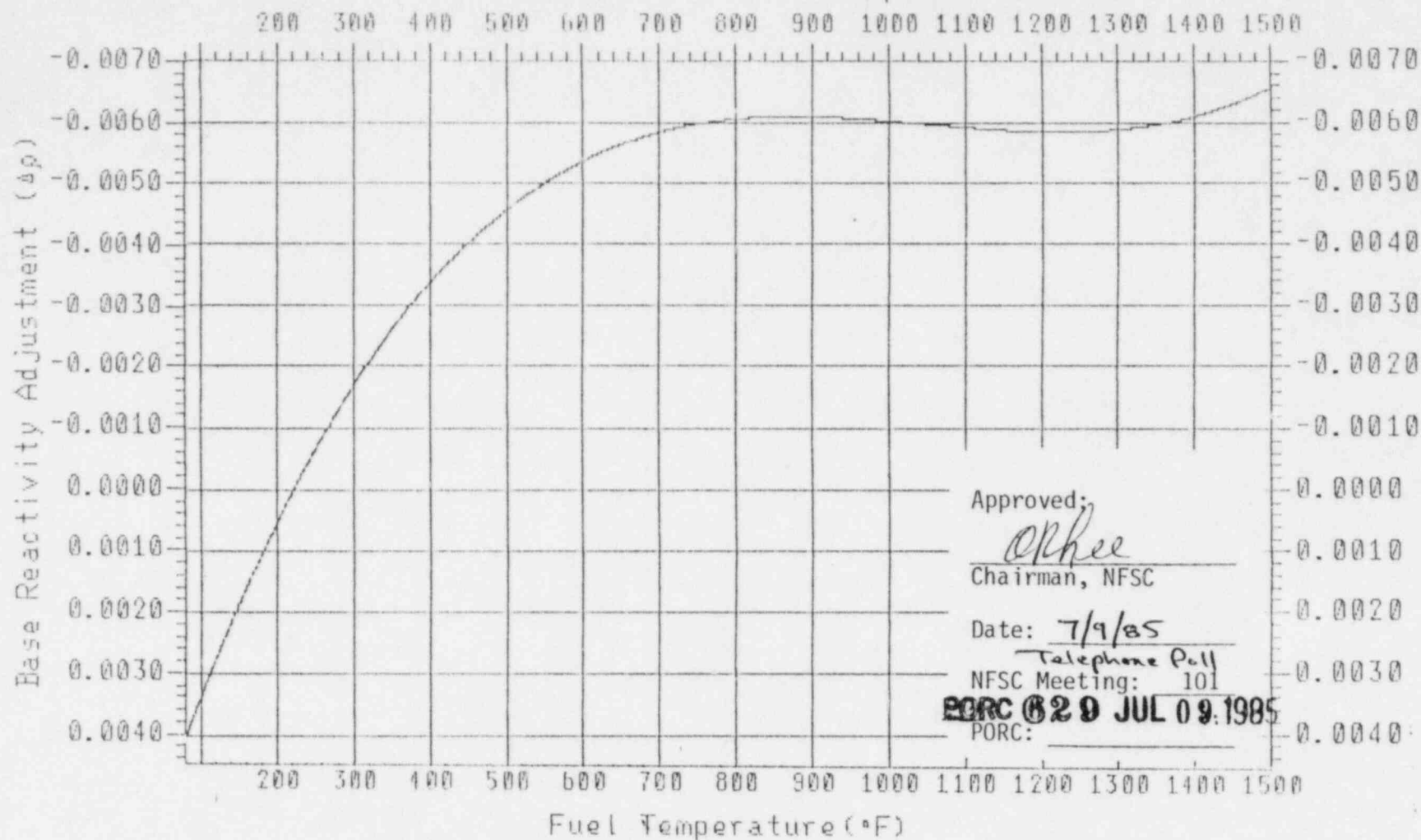
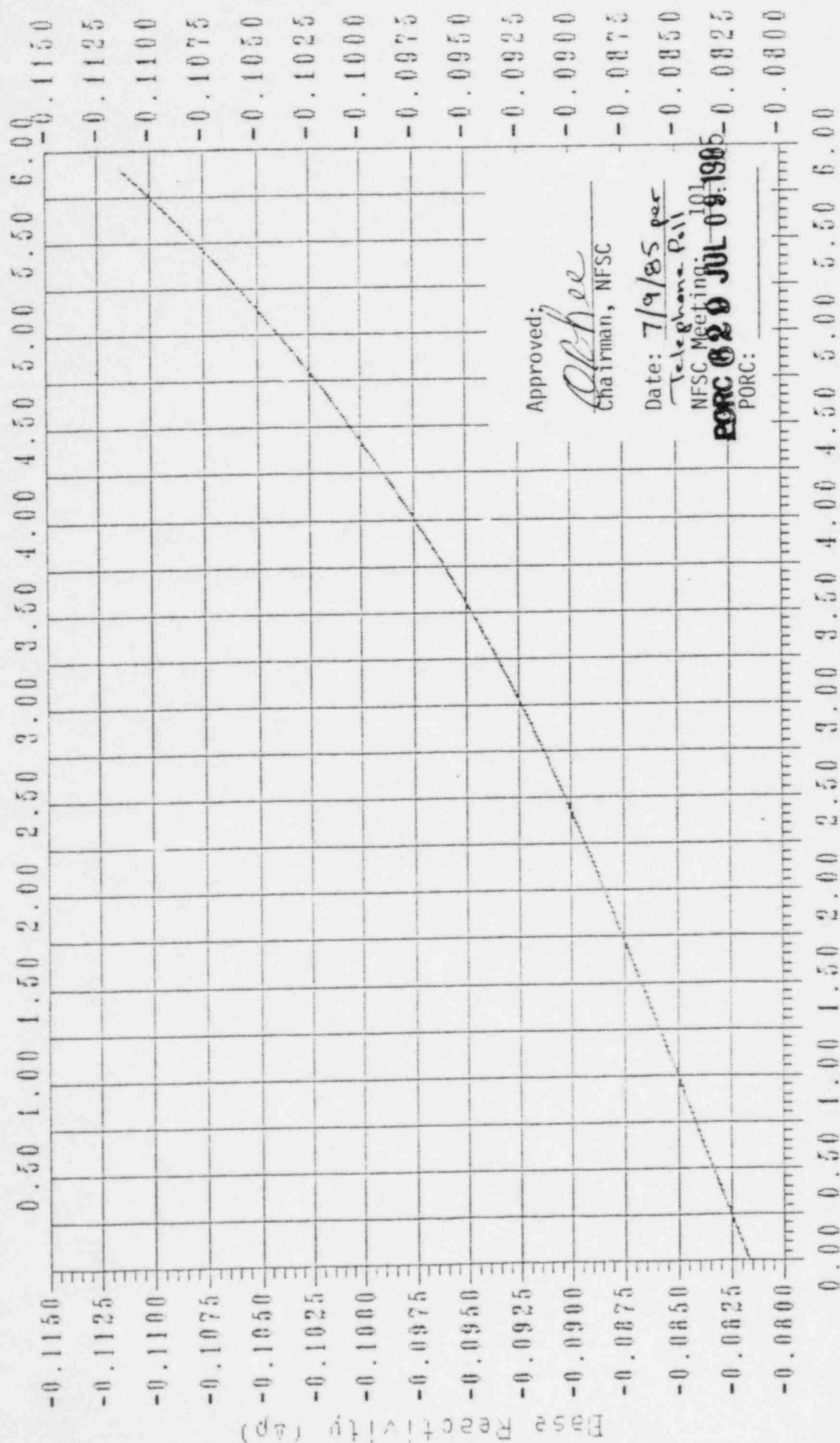


FIGURE 18.  
BASE REACTIVITY CURVE CYCLE 4



Approved:

*Albee*  
Chairman, NFSC

Date: 7/9/85 per

Telephone Poll

NFSC Meeting: 101

FORC 029 JUL 09 1985

PORC: