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W. R. McCollum, Jr. Vice President

May 22, 2002

U. S. Nuclear Regulatory Commission Document Control Desk Washington, D. C. 20555

Subject: Oconee Nuclear Site Docket No. 50-269 Core Operating Limits Report (COLR)

Gentlemen:

Attached, pursuant to Oconee Technical Specifications 5.6.5, is an information copy of a revision to the Core Operating Limits Report for Oconee Unit 1, Cycle 21, Rev. 18.

Very truly yours,

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W. R. McCollum, Site Vice President Oconee Nuclear Site

Attachment



NRC Document Control Desk May 22, 2002 Page 2

xc w/att: Mr. L. A. Reyes, Regional Administrator U. S. Nuclear Regulatory Commission, Region II

> Mr. L. N. Olshan, Project Manager Office of Nuclear Reactor Regulation

Mr. Mel Shannon Senior Resident Inspector Oconee Nuclear Site

PRIORITY SuperRush	DISPOSITION OF THE ORIGINAL DOCUMENT WILL BE TO THE TRANSMITTAL SIGNATURE UNLESS RECIPIENT IS OTHERWISE IDENTIFIED BELOW					Date: 04/23/02 Document Transmittal #: DUK021130046															
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				NUCLEAR GENERAL OFFICE OCONEE NUCLEAR STATION EXEMPTION CODE: M-5 RESP GROUP: N/E OCONEE 1 CYCLE 21 CORE OPERATING LIMITS REPORT					Duke Power Company P.O. Box 1006 Energy Center EC03C Charlotte, N.C												
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DOCUMENT NO 		QA COND	REV #	#/ DATE	DISTR CODE	1 X	2 V1	3 V1	4	5	6	7	8	9	10	11	12	13	14	15	TOTAL
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REMARKS: DUKE

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BY:

J W SIMMONS JWS/AYB ECO8H SBC

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Oconee 1 Cycle 21 FOR INFORMATION ONLY

Core Operating Limits Report

QA Condition 1

And Reviewed or Approved by CFAM 3:13

REVIEWED AND APPROVED BY CFAM 3.13

Date : $\partial \partial A \partial R \partial \partial \partial$ Prepared By: J. D. Forster Jan D. Forster Checked By : L. D. McClain L. Davin M. J. Olin Date : 22Apr 2002 CDR By: R. Q. Huynh for $Many March Date: \frac{22}{202}$ Approved By: R. R. St. Clair $\mathcal{R}, \mathcal{R}, \mathcal{M}, \mathcal{Olarin}$ Date: $\frac{22}{12} \mathcal{A} \mathcal{P} \mathcal{A} \mathcal{P} \mathcal{A}$

Oconee 1 Cycle 21

Core Operating Limits Report

Insertion Sheet for Revision 18

Th	is revision is n	ot valid until t	he end of ope	eration for O	conee 1 Cycle 20.			
Remove thes	e revision 17	pages		Insert these revision 18 pages				
	1, 2 and 4		1, 2 and 4					
					•			
			Revision Log					
	Effective	Pages	Pages	Pages	Total Effective			
Revision	Date	Revised	Added	Deleted	Pages			
Oconee 1 Cy	cle 21 revisio	ns below						
18	Apr-02	1, 2, 4	-	-	32			

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Oconee 1 C	ycle 20 revision	s below			
16	May-01	1-4	-	-	31
15	Nov-00	1-31	-	-	31

1-31

Mar-02

17

4.4	Oct 00	1005			21
14	Oct-00	1,2,3,5	-	-	51
13	Feb-00	1,2,3,4	-	-	31
12	Jul-99	1, 2, 3, 8,	-	-	31
		10, 13, 31			
11	May-99	1 - 31	-	-	31

10	Mar-99	1 - 31	-	32-38	31
9	Feb-98	1,2,3,5,13,	-	-	38
		16,17,32,36			
8	Nov-97	1,2,3,5,10,	37	-	38
		32			
7	Aug-97	1 - 38	-	-	38

Oconee 1 Cycle 21

Miscellaneous Setpoints

BWST boron concentration shall be greater than 2220 ppm and less than 3000 ppm. Referred to by ITS 3.5.4.

Spent fuel pool boron concentration shall be greater than 2220 ppm and less than 3000 ppm. Referred to by ITS 3.7.12.

The equivalent of at least 1100 cubic feet of 11,000 ppm boron shall be maintained in the CBAST. Referred to by ITS SLC 16.5.13.

CFT boron concentration shall be greater than 1835 ppm. The average boron concentration in the CFT's shall be less than 4000 ppm. Referred to by ITS 3.5.1.

RCS and Refueling canal boron concentration shall be greater than 2220 ppm. Referred to by ITS 3.9.1.

Shutdown Margin (SDM) shall be greater than 1% $\Delta k/k$. Referred to by ITS 3.1.1.

Moderator Temperature Coefficient (M	MTC x 10-4		
Linear interpolation is valid within the ta	Δρ / ° F	% FP	
Referred to by ITS 3.1.3.		+0.70	0
		+0.40	15
		0.00	80
	· · · · ·	-0.125	100
		-0.25	120

Departure from Nucleate Boiling (DNB) parameter for RCS loop pressure shall beReferred to by ITS 3.4.1.4 RCP:3 RCP:measured hot leg pressure \geq 2125 psig3 RCP:measured hot leg pressure \geq 2125 psig

DNB parameter for RCS loop average temperature shall be: Max Loop Tavg (Incl 2°F unc) Referred to by ITS 3.4.1. ∆Tc, °F 4 RCP Op 3 RCP Op 0 581.0 581.0 The measured Tavg must be less than COLR limits minus 1 581.4 581.2 instrument uncertainty. ΔTc is the setpoint value selected by 2 581.8 581.4 the operators. Values are expanded by linear interpolation on 3 582.1 581.7 page 32 of this document without instrument uncertainty. 4 582.5 581.9 5 582.9 582.1

* This limit is applied to the loop with the lowest loop average temperature consistent with the NOTE in SR 3.4.1.2. All other temperature limits apply to the maximum loop Tavg.

DNB parameter for RCS loop total flow shall be:	4 RCP:	Measured ≥ 108.5 %df
Referred to by ITS 3.4.1.	3 RCP:	Measured > 74.7 % of 4 RCP min flow

Regulating rod groups shall be withdrawn in sequence starting with group 5, group 6, and finally group 7. Referred to by ITS 3.2.1.

Regulating rod group overlap shall be $25\% \pm 5\%$ between two sequential groups. Referred to by ITS 3.2.1.