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TO: Mr. Edson G. Case

FROM: Duke Power Co.  
Charlotte, N. C. 28242  
William O. Parker

DATE OF DOCUMENT

07-11-77

DATE RECEIVED

07-15-77

LETTER  
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DESCRIPTION

Ltr. Concluding that the current Tech Specs limits for Oconee Unit 1, 2, & 3 and the proposed Tech Specs changes for Oconee 1 Cycle 4 and Oconee 2 Cycle 3 are conservatively valid...

ENCLOSURE

ACKNOWLEDGED

1 pages

DO NOT REMOVE

PLANT NAME: OCONEE UNITS 1, 2, & 3  
jcm 07/18/77

SAFETY

FOR ACTION/INFORMATION

ENVIRONMENTAL

ASSIGNED AD:		ASSIGNED AD:	V. MOORE (LTR)
BRANCH CHIEF:	(6) Schwencer	BRANCH CHIEF:	
PROJECT MANAGER:	Neighbors	PROJECT MANAGER:	
LICENSING ASSISTANT:	Sheppard	LICENSING ASSISTANT:	
			B. HARLESS

INTERNAL DISTRIBUTION

REG FILES	SYSTEMS SAFETY	PLANT SYSTEMS	SITE SAFETY & ENVIRON ANALYSIS
NRC PDR	HEINEMAN	TEDESCO	DENTON & MULLER
T & E (2)	SCHROEDER	BENAROYA	CRITCHFIELD
OELD		LAINAS	
GOSSICK & STAFF	ENGINEERING	IPPOLITO	ENVIRO TECH.
HANAUER	KNIGHT	F. ROSA	ERNST
MTPC	BOSNAK		BALLARD
CASE	SIHWELL	OPERATING REACTORS	YOUNGBLOOD
BOYD	PAWLICKI	STELLO	
		EISENHUT	
PROJECT MANAGEMENT	REACTOR SAFETY	SHAO	SITE TECH.
SKOVHOLT	ROSS	BAER	GAMMILL (2)
P. COLLINS	NOVAK	BUTLER	
HOUSTON	ROSZTGCZY	GRIMES	SITE ANALYSIS
MELTZ	CHECK		VOLLMER
HELTEMES			BUNCH
SK	AT&I		J. COLLINS
	SALTZMAN		KREGER
	RUTBERG		

EXTERNAL DISTRIBUTION

CONTROL NUMBER

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<input checked="" type="checkbox"/> TIC	<input checked="" type="checkbox"/> NSIC		
<input checked="" type="checkbox"/> NAT LAB			
<input checked="" type="checkbox"/> REG IV (J. HANCHETT)			
<input checked="" type="checkbox"/> 16 CYS ACRS SENT CATEGORY	B		

Misc  
771990129  
PB

## DUKE POWER COMPANY

POWER BUILDING

422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28242

WILLIAM O. PARKER, JR.  
VICE PRESIDENT  
STEAM PRODUCTION

July 11, 1977

TELEPHONE: AREA 704  
373-4083

Mr. Edson G. Case, Acting Director  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Attention: Mr. A. Schwencer, Chief  
Operating Reactor Branch #1

Reference: Oconee Nuclear Station  
Docket Nos. 50-269, -270, -287



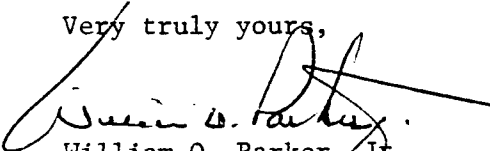
Dear Sir:

The B&W Topical Report BAW-10103, "ECCS Analysis of B&W's 177 FA Lowered-Loop NSS", contains the ECCS analysis applicable to Oconee Units 1, 2 and 3. Recently, a discrepancy has been identified in the value of the flow resistance factor associated with the reactor vessel inlet U-baffle assumed in the BAW-10103 analysis. The discrepancy relates to the fact that the BAW-10103-assumed values of these flow resistance factors were based on the original design characteristics of the U-baffle and did not take into account the modification of the U-baffle structure that was made since the original design. This was reported by letter dated June 10, 1977 which transmitted Reportable Occurrence Report RO-269/77-18.

A re-analysis of the ECCS performance has now been completed by B&W for the Oconee class reactors using the corrected flow resistance factors and utilizing the approved B&W ECCS Evaluation Model. This re-analysis is documented in a letter from Mr. James H. Taylor of B&W to Dr. R. L. Baer of the NRC, dated July 8, 1977. The analysis indicates that the ECCS evaluation results reported in BAW-10103 are conservative with respect to the re-analysis using the corrected flow resistance factors.

The Oconee Nuclear Station Technical Specifications include certain specified limits on core power distribution parameters which have been based on the linear heat rate limits established in BAW-10103. Since the ECCS evaluation results contained in BAW-10103 are found to be conservative compared to the results of the analysis using the corrected flow resistance factors, it is concluded that the current Technical Specifications limits for Oconee Unit 1, 2, and 3 and the proposed Technical Specification changes for Oconee 1 Cycle 4 and Oconee 2 Cycle 3 are conservatively valid.

Very truly yours,

  
William O. Parker, Jr.  
PMA:ge  
cc: Mr. N. C. Moseley

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