

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8011180548 DOC. DATE: 80/11/14 NOTARIZED: NO
 FACIL: 50-269 Oconee Nuclear Station, Unit 1, Duke Power Co.
 50-270 Oconee Nuclear Station, Unit 2, Duke Power Co.
 50-287 Oconee Nuclear Station, Unit 3, Duke Power Co.

DOCKET #
05000269
 05000270
 05000287

AUTH. NAME: PARKER, W.O. AUTHOR AFFILIATION: Duke Power Co.
 RECIP. NAME: DENTON, H.R. RECIPIENT AFFILIATION: Office of Nuclear Reactor Regulation, Director
 REID, R.W. Operating Reactors Branch 4

SUBJECT: Responds to TMI Action Plan Item II.K.3.30. Existing small break LOCA model fully meets requirements of 10CFR50 App K. Currently reviewing several aspects of model for possible improvement &/or addl justification.

DISTRIBUTION CODE: A001S COPIES RECEIVED: LTR 1 ENCL 0 SIZE: 2
 TITLE: General Distribution for after Issuance of Operating License

NOTES: M Cunningham: all amends to FSAR & changes to Tech Specs. 05000269
 AEOD, Ornstein: lcc.
 M Cunningham: all amends to FSAR & changes to Tech Specs. 05000270
 AEOD, Ornstein: lcc.
 M Cunningham: all amends to FSAR & changes to Tech Specs. 05000287
 AEOD, Ornstein: lcc.

ACTION:	RECIPIENT		COPIES		RECIPIENT	COPIES		
	ID	CODE/NAME	LTR	ENCL		ID	CODE/NAME	LTR
ACTION:	REID, R.	04	13	13				
INTERNAL:	D/DIR, HUM	FAC08	1	1	I&E	06	2	2
	NRC	PDR	02	1	OELD	11	1	1
	OR ASSESS	BR 10	1	0	<u>REG FILE</u>	01	1	1
EXTERNAL:	ACRS	09	16	1	LPDR	03	1	1
	NSIC	05	1	1				

NOV 19 1980

TOTAL NUMBER OF COPIES REQUIRED: LTR

39

38

ENCL

0

36

DUKE POWER COMPANY

POWER BUILDING

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

RECEIVED DISTRIBUTION
SERVICES UNIT

1980 NOV 17 AM 11 00

WILLIAM O. PARKER, JR.
VICE PRESIDENT
STEAM PRODUCTION

November 14, 1980

US NRC TELEPHONE: AREA 704
DISTRIBUTION SERVICES 373-4083
BRANCH

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Attention: Mr. R. W. Reid, Chief
Operating Reactors Branch No. 4

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

Dear Sir:

Duke has reviewed the applicable NUREG documents as requested by Item II.K.3.30 of the NRC letters of September 5 and October 31, 1980. Duke believes the existing small break LOCA model, as approved by the NRC Staff, fully meets the requirements of 10CFR 50, Appendix K. Duke plans, however, to review several aspects of the model for possible improvement and/or additional justification. Additional discussion, sensitivity studies, and/or benchmarking with appropriate test data will be provided. The present anticipated areas of investigations are as follows:

Condensation Heat Transfer Rates

1. Equilibrium pressurizer model
2. Present nodding scheme
3. ECC condensation efficiency

Justification of acceptability will be provided.

System Verification

1. Various natural circulation modes
2. Two-phase flow
3. PORV discharge flow

Evaluation of applicable test data (e.g. L3-5/L3-5A, L3-6, EPRI PWR valve test program). Revise or justify existing models as appropriate.

Duke believes that analysis of the Semi-scale Mod 5 test data would provide additional realism in the calculational model of once-through steam generator systems, and as such we recommend that the NRC take appropriate action to provide the test data.

1001
S/P

8011180548

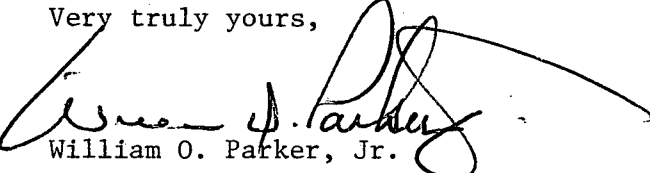
Mr. Harold R. Denton, Director
November 14, 1980
Page Two

Core Mixture Level Model

Examination of ORNL core uncover test data. Revise or justify existing model as appropriate.

Duke has deferred development of a detailed scope and schedule for the above effort until after a discussion with your staff. To this end, it is proposed that a meeting be held with the Staff on December 16, 1980. Please contact the normal licensing representative for Ocone to make the final arrangements.

Very truly yours,



William O. Parker, Jr.

RLG:scs