

## NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20555

MAY 2 8 1985

Docket No. 50-458

MEMORANDUM FOR:

Dennis Crutchfield, Assistant Director

for Safety Assessment Division of Licensing

Office of Nuclear Reactor Regulation

FROM:

Brian K. Grimes, Director

Division of Quality Assurance, Vendor, and Technical Training Center Programs Office of Inspection and Enforcement

SUBJECT:

QA REVIEW OF RIVER BEND UNIT 1 FINAL DRAFT TECHNICAL

SPECIFICATIONS

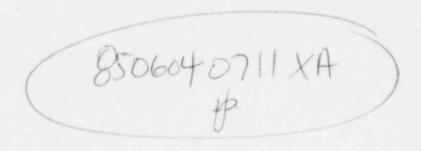
Your memorandum dated April 19, 1985, enclosed the final draft of River Bend Unit 1 Technical Specifications for review and comment. We have reviewed Sections 6.2.1, 6.5.1, 6.5.3, 6.8, and 6.10 as they relate to QA and find them acceptable as is.

Any questions you might have concerning this review should be directed to

John Gilray at x27242.

Brian K. Grimes, Director

Division of Quality Assurance, Vendor, and Technical Training Center Programs Office of Inspection and Enforcement





#### UNITED STATES

#### NUCLEAR REGULATORY COMMISSION

REGION IV

611 RYAN PLAZA DRIVE, SUITE 1000 ARLINGTON, TEXAS 76011

MAY 3 0 1985



MEMORANDUM FOR: Dennis M. Crutchfield, Assistant Director for Safety

Assessment, Division of Licensing

Thomas M. Novak, Assistant Director for Licensing,

Division of Licensing

FROM:

Richard P. Denise, Director, Division of Reactor Safety

and Projects, Region IV

SUBJECT:

FINAL DRAFT OF THE RIVER BEND UNIT 1 TECHNICAL SPECIFICATIONS

This provides additional information to that forwarded in our letter on the same subject dated May 13, 1985.

Additional review of the findings of the Region IV inspection team identified an additional five items which appear to be under NRR cognizance. These are documented in the attached inspection report forms. All findings will also be documented in Inspection Report 50-458/85-35.

T.H. Johnson

FOR

Richard P. Denise, Director Division of Reactor Safety and Projects

Attachments: As stated

LIC. PROCEDURE NO.:	ISSUE DATE:	RE	v.:	
TITLE:				
		YES	NO	
Is there any difference between	n FSAR/SER and TS?	NA		
Is installed system consistent		NA	-	
Are there any problems with the editorial)?	e TS (factual or	~		
Does procedure carry out TS re	quirement?	NA		
Does the procedure walkdown income work as written?	dicate that it shoul	d _ <i>NA</i>	-	
	re walkdown?	NA		
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# TECHNICAL SPECIFICATION DATA CONTINUATION SHEET

PARA: Tab	ble 33.3-2 PAGE NO.: 3/4 3-36 TMAU 40
RIP funct	hons not correctly stated:
A.I.F	- Values do not properly overlap
A. I. F	- Two different renges
A. I. h	- Values do not properly overlap
B.1.d	- Two different ranges; STP uses allowable value and not Trip Setpoint Value
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0.1.0	(a+b) - Need Trip tolerance; Is Allawable value correct
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INSPECTION REPORT 50-458/ 85-35 PAGE NO.: A-51

TS PARA: 4.6.1.9.3	PAGE NO.: 3/4 6-15
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Does procedure carry out TS requirement?	
Does the procedure walkdown indicate that work as written?	t it should
Has licensee completed procedure walkdown	n?
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FOR "OPENS", WHO MUST DO WHAT BY WHEN?	
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@ Licensee correct procedure	
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FOLLOWUP ACTION: INSPECTION REPORT 50-45	58/
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Were any other problems identified?	Account of the Control of the Contro
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ANSPECTION REPORT 50-458/ 85-35	PAGE NO .: A-209

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Are there any problems with the TS (factu	al or
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Does procedure carry out TS requirement?	
Does the procedure walkdown indicate that	it should
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INSPECTOR(S): Farrel  FOLLOWUP ACTION: INSPECTION REPORT 50-45  Were problems corrected?  Were any other problems identified?  STATUS OF ITEM OPEN	158/

TITLE:	NO.: 254-1600 ISSU	E DATE: 4/20/3	S REV	.: 1
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expusure.				
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LIC. PROCEDURE NO.: ISSUE	DATE:	REV.	:
TITLE: (see attached page)			
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Is installed system consistent with TS?			
Are there any problems with the TS (fact	ual or		
editorial)?			
Does procedure carry out TS requirement?			
Does the procedure walkdown indicate that	t it should		NIA
work as written?			
Has licensee completed procedure walkdown	n?		1
REMARKS: (0) STP-309-610 \$ 611			
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the TS for Diviand			
The intent appears to re			
an ECCS actuation signal			pecified try
STATUS OF ITEM OPEN	CLOSED		(continu
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# TECHNICAL SPECIFICATION DATA CONTINUATION SHEET

TS PARA: 34.8.1.1.2.f. 7 PAGE NO.: 3/4 8-6
continued . TS should also require that this same test be done to verify that the designated automatic trips are bypassed
- Emergency bus UV
3. Wrong TS referenced
(b) STP-309-0612  The Procedure does not appear to meet the intent of the 7.5 for the Divist desiel generator.  The intent appears to require that the desiel be given an ECCS actuation signal and then have the
stays running. Instead, the procedure
is inserted. Then an ECCS actuation signal is inserted. The trip by pass is verified by measuring across the relay coil for the
multimeter. The associated contacts which opens is not however, observed.
The Procedure indicates that the desel gen auto starts on bus undervoltage. IF SC, then the TS should require this test. IF not then there may be a problem with the not then there may be a problem with the Div 3 disect logic, (There is; licensee has
Procedure STP-204-0601 and STP-205-0601, 4 applicable for performing this TS, should be issued.

INSPECTION REPORT 50-458/ 35-35 PAGE NO .: A-176

#### UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON D. C. 20555

MEMORANDUM FOR: Dennis Crutchfield, Assistant Director

for Licensing

Division of Licensing

FROM:

Robert Bosnak, Acting Assistant Director for Components and Structures Engineering

Division of Engineering

SUBJECT:

TECHNICAL (SPECIFICATIONS) CHANGE REQUESTS RIVER BEND UNIT 1

As verbally requested by R. Houston, LPM on above subject, we have reviewed the proposed Technical Specification change 3/4.7.10 on Structural Settlement (enclosed). We find the Technical Specification, as annotated is acceptable.

> Robert Bosnak, Acting Assistant Director for Components and Structures Engineering Division of Engineering

Enclosure: As stated

cc: J. Knight

G. Lear

L. Heller

H. Polk

R. Houston

J. Chen

provessed Took Suce

Dear Houston

# TECHNICAL CHANGE REQUESTS

DESCRIPTION OF CHANGE/JUSTIFICATION:

28) TS 3.7.6.2 - Deleted Railroad Bay.

No sprinkler systems are identified for the railroad bay as there is no safety related equipment located in this area.

29) TS 4.7.6.3.a - Delete.

There are no valwes in the flow path of any PGCC subsystem.

- 30) TS 3/4.7.6. Table 3.7.6. 1-1 Added footnote \*. Not is 3.7.6.4 Reflects River Bend design.
- 31) TS Table 3.7.8-1 Add items and revise temperatures.

Additional item have been identified for inclusion and corrections to temperatures from review of Environmental

3/4.7.10 - Added Table 3.7.10-2, revised the Technical Specification accordingly and also revised Table 3.7.10-1.

These changes make the Technical Specification consistent with FSAR Section 2.5.

33) TS 3/4.7.11 - Add new Specification.

This Specification is provided to address SER requirement in

34) TS 3/4.8.1, 3.8.1.1 4.8.1.1.2.f.6.b.2, 3.8.1.2 Action b, 3.8.2.1 Action b, 3.8.2.2 Action b, and 3.8.3.1 Action b.2. - Addition of C SOW pump. Look Unlinguin

Revisions reflect the powering of standby service water pump ISWP\*P2C and it's auxiliaries from the EPCS diesel (Div III).

35) TS 3.8.3.1.b.1 and 3.8.3.2.b.2 - Added panel 1ENB\*PNL04A.

Added in conjunction of outstanding SER open item 13, Safe/Alternate Shutdown Design Modification.

Page 6 of 7

#### PLANT SYSTEMS

3/4.7.10 STRUCTURAL SETTLEMENT

# FINAL DRAFT

LIMITING CONDITION FOR OPERATION

3.7.10 Structural settlement of the following structures shall be within the predicted values as shown in Table 3.7.10-10 and calculated differential settlements shall be within the allowable ranges shown in Table 37 10-2.

Reactor Building

Auxiliary Building b. c. Fuel Building

d. Control Building

e. Diesel Generator Building

f. Standby Cooling Tower, Basin and Pump House

APPLICABILITY: At all times.

#### ACTION:

-1.m.+: of Tayes 3.7.10-1 a-1 3.710-2 With the measured structual settlement of any of the above required structures, outside of the predicted settlement, prepare and submit a Special Report to the Commission pursuant to Specification 6.9.2 within the next 30 days providing a record of the settlement measurements and the predicted settlement, an analysis to demonstrate the continued structural integrity of the affected structure(s) and plans to monitor the settlement of the affected structure(s) in the future.

## SURVEILLANCE REQUIREMENTS

- 4.7.10 The structural settlement of the above required structures shall be demonstrated to be within the predicted settlement values immer of Tanter 37:0-1 4-1 37.0-2:
  - At least once per 92 days, using at least three markers per structure, until there is essential', no movement during those 92 days.
  - At least once per 24 months, using at least one marker per structure. for at least 10 years.
  - Following any seismic event equal to or greater than an Operational Basis Earthquake (GBE), using at least three markers per structure.

# TABLE 3.7.10-2

# ALLOWABLE DIFFERENTIAL SETTLEMENTS OF MAJOR STRUCTURAL INTERFACE POINTS

Building Interface	Mar	ker No.	Allowable Differential Settlement
Diesel Generator vs. Control	2 4	5 7 .	+0.35 +0 - 0.39 +0.42 +0 - 0.61
BF Tunnel 45. Diesel Generator BF Tunnel 45. Fuel	10	3,4	+ 0.53 to - 1.08
Fuel vs. Renutor	12	15	+ 0.56 +0 - 1.34 + 0.26 +0 - 0.61
Reactor vs. Americary	16	18	+ 0.30 +0 - 0.60 + 0.32 +0 - 0.08
Auxiliary vs. Main Steam Fuel us. & Tunnel	19,20	20	+ 0.33 +0 - 0.13
Fuel vs. E Tunnel	13	33	+ 0.59 +0 - 0.32
E Tunnel Us. Auxiliary Control Us. Auxiliary	29	21	+ 0.42 +0 - 0.39 + 0.73 +0 - 0.43
	8	19	+ 0.46 +0 - 0.66

NOTE: Positive differential settlement indicates settlement of Marker A with respect to Marker B. Negative sign indicates settlement of Marker B with respect to Marker A

Settlements for these two markers should be averaged when determining differential settlement.

FINAL DRAFT

# TABLE 3.7.10-1 TOTAL PREDICTED SETTLEMENTS OF MAJOR STRUCTURES

STRUCTURE Reactor Building	SETTLEMENT MARKER NO.	PREDICTED SETTLEMENT (IN.)
	15 16 17	4.6 4.0 4.5 4.0 4.9 4.0
Auxiliary Building	18 19 20 21	4.2 3.8 4.1 3.6 4.9 3.7 4.7 3.7
Fuel Building	11 12 13 14	4.1 3.7 4.5 4.0 4.4 3.5 4.7 3.8
Control Suilding	5 6 7 8	3.8 3.7 3.4 3.3 4.0 3.7 4.0 3.7
Diesel Generator Building	1 2 3 4	3.5 3.4 3.6 3.7 3.6 2.6 4.0 3.8
Standby Cooling Tower, Basin and Pump House	30 31 32	3.8 2.7 4.4 3.2 4.3 2.4
BF Tunnel	9	2.1
Main Steam Tunnel	22	3.8
E Tunnel  G Tunnel	28	3.2
J I LUNE!	33 34	2.6