Technical Specification Review
Procedure TS-1

I. PURPOSE

To define the requirements for the review of the Grand Gulf Nuclear Station (GGNS) Technical Specifications by Project Engineering.

II. SCOPE

Project Engineering will review the GGNS Technical Specifications or portions thereof within the Bechtel scope of responsibility, against the Design Analysis for correctness, for consistency with the FSAR and SER and the As-built Configuration of the Plant.

III. REFERENCES

A. Final Safety Analysis Report (FSAR) Amendment 57
B. Safety Evaluation Report (SER) through Supplement 4
C. Technical Specification Sections as marked by MP&L
D. Design Documents
E. Division of Responsibility (Procedure Attachment 7A and 7B)

IV. DOCUMENTS/FORMS

A. Technical Specification Review Sheet and Review Checklist - Attachment No. 1
B. Technical Specification Review Sign-off - Attachment No. 2
C. Technical Specification Review - Attachment No. 3
D. Technical Specification Instrument Review Sheet - Attachment No. 4
E. Technical Specification Problem Sheet - Attachment No. 5
F. Technical Specification Punch List Review Sheet - Attachment No. 6
G. Technical Specification Priority Transmittal - Attachment No. 8
H. Transmittal of Proposed Changes to Grand Gulf Technical Specifications - Attachment No. 9
I. FSAR/ER Change Request - Attachment No. 10

V. PROCEDURE

A. The Bechtel review is a multidiscipline effort, comprised of the following elements:

1. Review by a Responsible Engineer

2. Review by a checker

3. Review by the applicable Group Supervisor

4. Input from and coordination with other disciplines, as required, with input subjected to secondary discipline review as in 1, 2, and 3 above.

5. Independent review by Review Committee, composed of applicable discipline representatives, independent of review personnel in 1 through 4 above.

6. Review/approval of Project Coordinator

7. Monitoring and sample surveillances by the Project Quality Engineer

B. The criteria for the review is as follows:

1. The GGNS Technical Specifications or portions thereof for which Bechtel is responsible will be reviewed against the design analysis for correctness. The Tech Specs will also be compared to the FSAR and the SER for consistency and to the as-built plant.

2. The scope of the review is based on the content of the Standard Technical Specifications for the BWR-6, as provided by MP&L.

3. The GGNS Tech Specs serving as the basis for review is that version provided by MP&L which has been marked up to include the MP&L punchlist items requiring evaluation.

4. The as-built condition of the plant is to be determined as noted below:

a. The "red-line" as-built drawings provided by MP&L to Bechtel by transmittals of DCA NPE-4-028 dated February 27, 1984, and DCA NPE-4-038 dated March 6, 1984, define the latest as-built condition of the plant and are to be used for defining the as-built plant.

b. For items not covered by these "red-line" as-built drawings, verification is to be obtained for the "as-built" condition of applicable components evaluated as follows:

1) Available documentation from MP&L is to be used where it defines the as-built plant. This could be documented surveillances or other properly documented information.

2) The intent is to define the "as-built" condition of physical components.

3) Physical characteristics, such as proper electrical connections, are assumed known to be acceptable and correct through verified continuity checks and component/system functioning.

C. Administrative and documentation functions to be observed are as follows:

1. The requirements and standard documentation forms of the MP&L GGNS Tech Spec Review Procedures No. TS-1 will be used to document the results of the Tech Spec review. (Attachment 1)

NOTE: 1. BPC forms may vary in format but not content from MP&L forms.

2. Onsite review team will supplement BPC review packages as follows:

   a. Insert TSPF form when no punchlist item applies.

   b. Add punchlist item number to BPC TSPS form identifying problems.

2. A coordination sheet will be used to record the interdiscipline review of applicable Tech Spec sections, and this sheet will be retained for in-house verification of interdiscipline review. (Attachment 2)

3. Other forms of documentation will be used as deemed by the Group Supervisor to be necessary to accomplish the Tech Spec Review in an efficient and effective manner (Attachments 3 through 6 include all forms used).

4. Requests and responses for as-built walkdowns or other forms of as-built verification will be controlled and documented. (Attachment 3)

5. A Division of Responsibility (DOR) showing Bechtel-reviewed sections or the interface of Bechtel/GE jointly reviewed sections has been established (Attachment 7A & 7B) and will be controlled. For specific Bechtel/GE interface points, a copy of the GGNS Tech Specs marked up per the DOR for joint sections has been established and will be controlled.

6. Upon completion of Bechtel-reviewed sections, the review package (less any coordination sheets) will be transmitted to MP&L via standard transmittal (Attachment 8). One advance copy will be telecopied to MP&L. Hard copies will be transmitted to GE (Al Smith) and MP&L (MP&L will be responsible for their internal distribution).

D. Document changes:

1. When a Technical Specification change is necessary, a Proposed Change to Operating Licenses (PCOL) safety evaluation (Attachment 9) will be prepared. This will be included in the transmittal package or will follow within one day.

2. When an FSAR change is necessary for consistency, a mark up of the FSAR page(s) will be prepared and included in the package for information. An SAR change request will subsequently be prepared using standard procedures. (Attachment 10)

MISSISSIPPI POWER & LIGHT COMPANY

GRAND GULF NUCLEAR POWER STATION
UNIT 1

Technical Specification Review Signoff

Technical Specification _____

Parameter _____

Reviewed: _____
Signature/Date

Checked: _____
Signature/Date

Group Supervisor: _____
Signature/Date

Coordination:

Mechanical _____
Signature/Date

Elec/Control Systems _____
Signature/Date

Plant Facilities _____
Signature/Date

Civil _____
Signature/Date

Licensing _____
Signature/Date

Review Committee _____
Signature/Date

MISSISSIPPI POWER & LIGHT COMPANY

GRAND GULF NUCLEAR POWER STATION
UNIT 1

Technical Specification Review

Walkdown Request No. _____

Technical Specification _____

Discipline _____

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Response _____

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MISSISSIPPI POWER & LIGHT COMPANY

GRAND GULF NUCLEAR POWER STATION
UNIT 1

Technical Specification Instrument Review Sheet

Parameter _____ _____

Instrument Numbers _____
(Trip Unit for trip channels/indicating device for monitoring channels)

	Review Document	Comments
Minimum Number of Channels	_____	_____
		_____
		_____
		_____
Setpoint/allowable Value	_____	_____
		_____
		_____
		_____
		_____
Surveillance Requirements	_____	_____
		_____
		_____
		_____
		_____
Action Statements	_____	_____
		_____
		_____
		_____
		_____

MISSISSIPPI POWER & LIGHT COMPANY

GRAND GULF NUCLEAR POWER STATION
UNIT 1

Technical Specification Problem Sheet

Item No._____ Priority_____

_____ _____
Identified By Date Responsible Supervisor

Tech Spec Reference:_____

Problem Title:_____

1. Problem Description (Tech Spec, FSAR, SER, GE Design, Other):_____

2. Safety Significance:_____

3. Anticipated Resolution:_____

4. NRC Response to Item (NRR/IE):_____

NRC Notified:_____ _____ / _____
Individual Notified Date Time

5. Disposition:_____

Items Closed: (How)_____

_____ / _____
Date Time

MISSISSIPPI POWER & LIGHT COMPANY

GRAND GULF NUCLEAR POWER STATION
UNIT 1

Technical Specification Punchlist Review Sheet

Punchlist No.	Comments

REV 0 3/11/84

TECHNICAL SPECIFICATION INDEX

DENOTING

MP&L / G.E. / BECHTEL

DIVISION OF RESPONSIBILITY

REV 1 3/14/84 REVISED D.O.R FOR SECTION 3/4.9.5 FROM M/&L TO BECHTEL; FOR SECTION 3/4.6.2.6, ADDED GE TO D.O.R.; CHANGED D.O.R. FOR SECTION 3/4.9.7 TO ALL GE SCOPE

REV 2 3/13/84 ADDED GE TO D.O.R. FOR SECTIONS 3/4.8.2.1, 3/4.8.2.2, 3/4.8.3.1, 3/4.8.3.2, AND 3/4.8.4.2

NOTE: Cover Sheet Only: Copies may be obtained from Planning and Control.

REV 0 3/9/84

GE / BECHTEL

DIVISION OF RESPONSIBILITY

REV 1, 3/11/84 REVISED PAGE 3/4 6-19 ; ADDED PAGES B 3/4 6-4 AND 3/4 9-9.

REV 2, 3/12/84 REVISE PAGE 3/4 9-9 TO MAKE SECTION 3/4.9.7 GE SCOPE

REV 3, 3/13/84 ADDED PAGES 3/4 4-24, 3/4 4-25, 3/4 6-24, 3/4 6-25, 3/4 9-16 AND 3/4 9-17.

NOTE: Cover Sheet Only: Copies may be obtained from Planning and Control.

TECH SPEC-PRIORITY TRANSMITTAL

GTD-2351-G Rev 1983

BECHTEL POWER CORPORATION
GAITHERSBURG POWER DIVISION

15740 Shady Grove Road
Gaithersburg, Maryland 20877-1454

TO: MISSISSIPPI POWER & LIGHT COMPANY
POST OFFICE BOX 756
PORT GIBSON, MISSISSIPPI 39150

ATTN: C. Tyrone

DATE: March 10, 1984 MPT-84/0321

MIDDLE SOUTH ENERGY, Inc
BECHTEL JOB 15026
SPECIFICATION NO
BECHTEL FILE NO 0801/L-391.0

___	Sepias	Encl ☐	Under Sep Cover ☐
___	Prints	Encl ☐	Under Sep Cover ☐
___	Microfilm	Encl ☐	Under Sep Cover ☐
___	Specs	Encl ☐	Under Sep Cover ☐
___	Vellums	Encl ☐	Under Sep Cover ☐
1	Other Originals	Encl ☒	Under Sep Cover ☐

DA (IS NOT) APPLICABLE

ACTION NUMBER

1. Approved. Manufacturing may proceed
2. Approved. Submit final dwg Mfg may proceed
3. Approved except as noted Make changes and submit final dwg Mfg may proceed as approved
4. Not Approved. Correct and resubmit
5. Review not required. Mfg may proceed
6. Comment/Approval Due Date
7. Information Only
8. Other

Comments concerning the Technical Specification Sections indicated below are forwarded for your review and concurrence.

Tech Spec Section	Title	Action Req'd.	Division of Responsibility Shared w/G.E.
3/4.6.1.5	FEEDWATER LEAKAGE CONTROL SYSTEM (31 pgs)	YES	NO

Note: If you have any questions, please contact the Bechtel Technical Specification Review Coordinator, E. J. Ray on extension 3582.

cc: J. B. Richard, w/1
J. P. Mcnaughy, Jr., w/1
J. Green, w/1
J. F. Pinto, w/1
T. H. Cloninger, w/1
J. E. Cross, w/1
L. F. Dale, w/1
A. R. Smith, w/1
D. Stonestreet, w/1
J. Roberts, w/1

Very truly yours
E J Ray for
R W Jackson
Project Engineer

TRANSMITTAL OF PROPOSED CHANGES
TO GRAND GULF TECHNICAL SPECIFICATIONS

SUBJECT: Technical Specification 3.6.1.5, page 3/4 6-8.

DISCUSSION: The present Surveillance Requirements for Technical Specification 3.6.1.5 do not contain the requirements to periodically perform a system functional test or a channel functional test and calibration. The system functional test would demonstrate the operability of system interlocks. Consistent with Section 1.6 of the Grand Gulf Technical Specifications Definitions, the channel functional test would verify the channel failure trip; the channel calibration would ensure that the channel responds with the necessary range and accuracy to known values of the parameter which the channel monitors (pressure), consistent with Section 1.4 of the Grand Gulf Technical Specification Definitions. The proposed change to the Grand Gulf Technical Specifications will require a system functional test at each regularly scheduled refueling outage. The system functional test will include simulated actuation of the system throughout its operating sequence and verification that each automatic valve actuates to its correct position and each interlock performs its intended function. Additionally, the proposed change will require a channel functional test at least once per 31 days and a channel calibration at least once per 18 months.

JUSTIFICATION: The proposed change to the Grand Gulf Technical Specifications is consistent with the applicable Surveillance Requirements of the Standard Technical Specifications. The present Standard Technical Specifications generically address surveillance and testing requirements for water positive seal isolation valve leakage control systems. Surveillance Requirements 4.6.1.9.a.1 and 2 of the Standard Technical Specifications require that the seal water tank level and seal water tank pressure be verified once every [illegible] hours. The Grand Gulf Feedwater Leakage Control System (FWLCS) does not draw suction from a seal water tank nor is the fuel pool used as a source of water. The Grand Gulf FWLCS uses the suppression pool as a source of water; the suppression pool level is monitored once every four hours in accordance with Grand Gulf Technical Specification Surveillance Requirement 4.6.3.1.a. Surveillance Requirement 4.6.1.9.b of the Standard Technical Specifications requires that each water positive seal isolation valve be demonstrated operable via cycling during each cold shutdown, if not performed during the previous 92 days. Standard Technical Specification Surveillance Requirement 4.6.1.9.b is not addressed in the Grand Gulf Technical Specifications since this requirement is already addressed by the ASME Boiler & Pressure Vessel Code, Section XI requirements to which Grand Gulf is committed (reference FSAR Section 3.9.6). Surveillance Requirement 4.6.1.9.c.2 of the Standard Technical Specifications requires the demonstration of the Air Positive Seal Isolation Valve Leakage Control System (APS-IVLCS) pressurization of the seal water tank. Since Grand Gulf uses the suppression pool as the

TRANSMITTAL OF PROPOSED CHANGES
TO GRAND GULF TECHNICAL SPECIFICATIONS (cont.)

Therefore, Surveillance Requirement 4.6.1.9.c.2 of the Standard Technical Specifications is not applicable to Grand Gulf. With the exceptions noted above, resulting from Grand Gulf unique design differences, the existing Grand Gulf Technical Specifications and the proposed changes are consistent with the Standard Technical Specifications.

SIGNIFICANT HAZARDS CONSIDERATION:

These proposed changes to the Grand Gulf Technical Specifications are consistent with the applicable portions of the Standard Technical Specifications. Since the provisions of the Standard Technical Specifications have been approved by the NRC, this change is administrative in nature and involves no significant hazards consideration. There is no reduction in the safety margin associated with this Technical Specification. The probability or consequences of an accident or malfunction of equipment important to safety have not been increased nor has the possibility of an accident or malfunction of a different type than any evaluated previously been created. In fact, the inclusion of additional surveillance requirements, in the form of a system functional test and a channel functional test and calibration will provide additional assurance that the Grand Gulf FWLC will perform its intended safety function. In summary, the proposed changes to the Grand Gulf Technical Specifications involve a significant hazards consideration.

SAMPLE

CONTAINMENT SYSTEMS

INFORMATION ONLY

FEEDWATER LEAKAGE CONTROL SYSTEM

LIMITING CONDITION FOR OPERATION

3.6.1.5 Two independent feedwater leakage control (FWLC) system subsystems shall be OPERABLE.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3.

ACTION:

With one FWLC system subsystem inoperable, restore the inoperable subsystem to OPERABLE status within 30 days or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following hours.

SURVEILLANCE REQUIREMENTS

4.6.1.5 Each FWLC system subsystem shall be demonstrated OPERABLE:

a. At least once per 31 days by observing proper operation of the RHR jockey pump.

b. At least once per 18 months by cycling each valve not testable during POWER OPERATION through at least one complete cycle of full travel.

c. AT EACH REFUELING OUTAGE, PERFORM A FUNCTIONAL TEST WHICH INCLUDES SIMULATED ACTUATION OF THE SYSTEM THROUGHOUT ITS OPERATING SEQUENCE AND VERIFY THAT EACH AUTOMATIC VALVE ACTUATES TO ITS CORRECT POSITION AND EACH INTERLOCK PERFORMS ITS INTENDED FUNCTION.

d. BY VERIFYING THE PRESSURE INSTRUMENTATION TO BE OPERABLE BY PERFORMANCE OF A:

1. CHANNEL FUNCTIONAL TEST AT LEAST ONCE PER 31 DAYS, AND

2. CHANNEL CALIBRATION AT LEAST ONCE PER 18 MONTHS.

SAMPLE

FSAR/ER CHANGE REQUEST

BECHTEL Co.	UNIT APPLICABILITY	Unit 1	Unit 2	Both Units
		:		

SUBJECT OF CHANGE

AFFECTED FSAR SECTIONS (INCLUDING TEXT, TABLES, AND FIGURES)

JUSTIFICATION NECESSITY FOR CHANGE

ORGANIZATION	ORIGINATOR	APPROVED BY (GROUP SUPERVISOR)
	X DATE	X DATE
SAFETY EVALUATION REQUIRED ☐ YES ☐ NO X APPROVED BY (LICENSING) DATE	APPROVED BY (LICENSING ENGINEER) X DATE	APPROVED BY (PROJECT ENGINEER) X DATE

ATTACHMENT

SAFETY/ENVIRONMENTAL EVALUATION FORM (IF REQUIRED)

AFFECTED FSAR PAGES, TABLES (LIST SHEETS), FIGURES (LIST DRAWING NUMBERS)

APPROVED BY NPAL

X DATE