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132

GEORGIA POWER COMPANY
POWER GENERATION DEPARTMENT
VOGTLE ELECTRIC GENERATING PLANT

TRAINING LESSON PLAN

TITLE:	INTRODUCTION TO TECHNICAL SPECIFICATIONS	NUMBER:	LO-LP-39201-06-C
PROGRAM:	LICENSED OPERATOR TRAINING	REVISION:	6
SME:	RUBIN	DATE:	4/19/91
APPROVED:	<i>Rubinc</i>	DATE:	4-22-91

INSTRUCTOR GUIDELINES:

- I. LESSON FORMAT
 - A. Lecture with visual aids
- II. MATERIALS
 - A. Overhead projector
 - B. Transparencies
 - C. White board with markers
- III. EVALUATION
 - A. Written or oral exam in conjunction with other lesson plans
- IV. REMARKS
 - A. All Technical Specifications Interpretations are contained in this Lesson

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Licensed Operator Objectives for this lesson plan can be found in the Licensed Operator System Master Plan Section 2.3 (Qualification Signoff Criteria)

Latest Revision of
Cluster 39 Technical Specifications

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REFERENCES:

1. 10CFR50.36
2. TECH SPECS VEGP UNIT 1 DOCKET NO. 50-424
3. TRANSPARENCIES:
 - LO-TP-39201-001 OBJECTIVES
 - LO-TP-39201-002 REQUIRED TECH SPEC CATEGORIES
 - LO-TP-39201-003 TECH SPEC FORMAT
 - LO-TP-39201-004 FORMAT FOR LCOs AND SURVEILLANCES
 - LO-TP-39201-005 TECH SPEC INTERPRETATION REQUEST FORM
4. Procedure 10000-C
5. COMMITMENTS
 - FF 88.028 CYCLE 2 T.S. CHANGE
6. Technical Specifications Interpretations

LESSON OUTLINE:

NOTES

I. INTRODUCTION

This lesson is designed to familiarize the students with where the requirements for having technical specifications come from and to teach the format that the technical specifications are arranged in

LO-TP-39201-001

II. PRESENTATION

A. Requirements for Technical Specifications

1. Required by 10CFR50.36

Objective 1

a. Code of Federal Regulations

b. Chapter 10 is Energy

c. Part 50 is the entitled the Domestic Licensing of Production and Utilization Facilities

d. Section 50.36 is Technical Specifications

2. Requires each applicant to submit a draft

a. In accordance with the following section

b. Must include summary statement of bases or reasons for spec

1) Other than administrative

2) Shall not become part of specifications

3. Each license authorizing operation will include technical specifications

a. Will be derived from evaluation of PSAR

b. Commission may include those it finds appropriate

B. Will include the following categories (also described in 10CFR50.36)

LO-TP-39201-002

1. Safety Limits, Limiting Safety System Settings

a. Safety Limits

1) Definition- operating limits imposed on the plant to prevent damage to the fuel

Objective 3

cladding and RCS piping and thereby prevent the release of radioactivity to the environment

- 2) protects the fuel cladding by limiting the departure from nucleate boiling of the RCS
 - a. as the departure from nucleate boiling increases, the heat transfer from the fuel decreases
 - b. regulation of DNB is accomplished by limiting RCS flow for a given RCS pressure
- 3) protects the RCS piping by limiting RCS pressure
- 4) If exceeded, required actions are:
 - a) Reactor shall be shut down
 - b) Notify commission
 - c) Submit report - LER
 - d) Not startup until permission from NRC

b. Limiting Safety System Settings

- 1) Settings for automatic protective devices
- 2) Designed to protect against exceeding safety limits
 - a) Must be set before safety limit is reached
- 3) If protective action does not occur
 - a) Take appropriate action which may include shutting down the reactor
 - b) Notify commission
 - c) Submit report

2. Limiting Condition for Operation

- a. Lowest functional capability or performance level for equipment required for safe operation
 - b. When LCO not met
 - 1) Follow the "ACTION" statement of T.S.
 - a) If compliance not met within "ACTION" time, shutdown may be required
 - 2) Notify the commission
 - 3) Review the matter and record the results of the review
3. Surveillance Requirements
- a. Requirements related to test, calibration or inspection
 - b. Provides assurance that:
 - 1) Necessary quality of systems and components is maintained
 - 2) Facility operation will be within the safety limits
 - 3) Limiting Conditions for Operation will be met
4. Design Features
- a. Features of facility which:
 - 1) Would have a significant affect on safety if altered or modified, or
 - 2) Are not covered in Safety Limits, LCOs, or Surveillances
 - b. Examples are:
 - 1) Materials of construction
 - 2) Geometric arrangements
5. Administrative Controls
- a. Provisions necessary to assure operation of

Objective 4

LESSON OUTLINE:

NOTES

facility in a safety manner

- 1) Organization and management
- 2) Procedures
- 3) Record keeping
- 4) Review and audit
- 5) Reporting
- 6) Initial Notification
 - a) Reports to commission in response to requirements of this section

C. Format of Technical Specifications

1. Addresses categories of 10CFR
2. Consists of six sections (modified W standard Tech Specs/NUREG 1247 modified for Vogtle design)

LO-TP-39201-003
Objective 2

 - a. Section 1.0 - Definitions
 - b. Section 2.0 - Safety Limits and LSSS
 - c. Section 3.0 - Limiting Conditions for Operation
 - d. Section 4.0 - Surveillance Requirements
 - e. Section 5.0 - Design Features
 - f. Section 6.0 - Administrative Controls
3. LCOs and surveillances presented in combined format (Sections 3 and 4)

Objective 2

 - a. LCO appears at top of page
 - b. Followed immediately by applicable surveillance requirement
 - c. Combined section 3/4 further subdivided into 12 subsections
 - 1) Reactivity Control - Section 3/4.1

LO-TP-39201-004
 - 2) Power Distribution - Section 3/4.1

LESSON OUTLINE:

NOTES

- 3) Instrumentation - Section 3/4.3
- 4) Reactor Coolant System - Section 3/4.5
- 5) Emergency Core Cooling System - Section 3/4.5
- 6) Containment Systems - Section 3/4.6
- 7) Plant Systems - Section 3/4.7
- 8) Electrical Systems - Section 3/4.8
- 9) Refueling - Section 3/4.9
- 10) Special Test Exceptions - Section 3/4.10
- 11) Radioactive Effluents - Section 3/4.11
- 12) Radiological Environment Monitoring - Section 3/4.12

d. Explain the LCO and Surveillance requirements in section 3/4.0 Applicability and give examples of each.

D. Technical Specification Clarification

- 1. Implemented per plant procedure 10000-C
 - a. Obtain copy of the current T.S. Clarifications and review with class each clarification
- 2. Helps to clear up discrepancies when clarification problems arise
- 3. Tech Spec clarification is the responsibility of the Operations Department Management
- 4. Implementation Procedure
 - a. When an immediate need exists for an clarification, the requestor will contact one of the following individuals who will give a verbal clarification and a written request form may follow
 - * Shift Superintendent

Objective 5

T.S. Clarifications

- controlled copy may be obtained from the trg ctr library

LESSON OUTLINE:

NOTES

- * Manager Operations
 - * An Operations Superintendent
 - b. If there is not an urgent need for clarification, a form contained in 10000-C is used to request a clarification LO-TP-39201-005
 - c. the requestor fills out the first two portions of the clarification form and forwards it to the Manager of Operations
 - d. after the Operations Manager clarifies, the original is placed in the Clarification Book that is maintained in the Control Room
- E. Making Changes to Technical Specifications
1. Licensing Document Change Request (LDCR) is generated Procedure 00402
 - a. Can be done by anyone on site
 2. LDCR must be processed through chain
 - a. Each individual reviewing LDCR can approve it and send it to next evaluator OR disapprove it and return it to previous individual
 - b. Each LDCR requires safety evaluation
 - c. All questions must be reviewed and approved
 - 1) NSAC coordinates changes
 - d. PRE approval required
 - e. GM approval required
 - f. NRC reviews documents changes

III. SUMMARY

LESSON OUTLINE:

NOTES

1. Define the requirements placed on the plant to have Tech Specs.

- Required by 10CFR50.36

2. List and describe the sections and subsections required in Tech Specs.

- Consists of six sections (modified W standard Tech Specs/NUREG 1247 modified for Vogtle design)

- a. Section 1.0 - Definitions
- b. Section 2.0 - Safety Limits and LSSS
- c. Section 3.0 - Limiting Conditions for Operation
- d. Section 4.0 - Surveillance Requirements
- e. Section 5.0 - Design Features
- f. Section 6.0 - Administrative Controls

3. Define "Safety Limit." State what the Safety Limits are designed to protect.

- Definition- operating limits imposed on the plant to prevent damage to the fuel cladding and RCS piping and thereby prevent the release of radioactivity to the environment
- protects the fuel cladding
- protects the RCS piping

4. List the assurances that surveillance requirements provide.

- Necessary quality of systems and components is maintained
- Facility operation will be within the safety limits
- Limiting Conditions for Operation will be met

5. State how Tech Specs interpretations are made.

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- Implemented per plant procedure 10000-C
 - Implementation Procedure
 - a. When an immediate need exists for an interpretation, the requestor will contact one of the following individuals who will give a verbal interpretation with a follow-up written request form
 - * Onshift Operation Supervisor
 - * Manager Operations
 - * Operations Superintendent
 - b. if there is not an urgent need for interpretation, a form contained in 10000-C is used to request a interpretation

I PURPOSE STATEMENT

Following completion of this lesson, the student will possess those knowledges systematically identified for the performance of the INTRODUCTION TO TECH SPECS tasks.

II LIST OF OBJECTIVES

1. Define the requirements placed on the plant to have Tech Specs.
2. List and describe the sections and subsections required in Tech Specs.
3. Define "Safety Limit." State what the Safety Limits are designed to protect.
4. List the assurances that surveillance requirements provide.
5. State how T.S. clarifications are made.

I. PURPOSE STATEMENT

Following completion of this lesson, the student will possess those knowledges systematically identified for the performance of the INTRODUCTION TO TECH SPECS tasks.

II. LIST OF OBJECTIVES

1. Define the requirements placed on the plant to have Tech Specs.
(Objective: LO-LP-39201-01)
2. List and describe the sections and subsections required in Tech Specs.
(Objective: LO-LP-39201-02)
3. Define "Safety Limit." State what the Safety Limits are designed to protect.
(Objective: LO-LP-39201-03)
4. List the assurances that surveillance requirements provide.
(Objective: LO-LP-39201-04)
5. State how T.S. interpretations are made.
(Objective: LO-LP-39201-05)