50-321
50-366

Raymond D. Baker
Southern Nuclear
Hatch License Renewal
Project Manager

April 13, 1999

SOUTHERN COMPANY

Energy to Serve Your World™

per: L. Burton
DF01

Jeff Mulvehill
Southern Nuclear
Hatch License Renewal
Project Senior Engineer

April 13, 1999

SOUTHERN COMPANY

Energy to Serve Your World™

SOUTHERN COMPANY
Energy to Serve Your World™

Overview - Chapter Headings

General Section
Exhibit A Technical Section
1.0 Introduction and Description of Hatch Nuclear Plant
2.0 IPA Methodology
3.0 Generic Safety Issues
4.0 SSCs Subject to an Aging Management Review
5.0 Identification and Management of Aging Effects
6.0 Aging Effects
Exhibit B Updated Final Safety Analysis Report Supplement
Exhibit C Technical Specification Changes
Exhibit D Proposed Operating Licenses
Exhibit E Environmental Report

SOUTHERN COMPANY
Energy to Serve Your World™

Methodology

2.0 IPA Methodology
- 2.1 General
- 2.2 Scoping
- 2.3 Boundaries
- 2.4 Screening
- 2.5 TLAAs

SOUTHERN COMPANY
Energy to Serve Your World™

Process Mapping

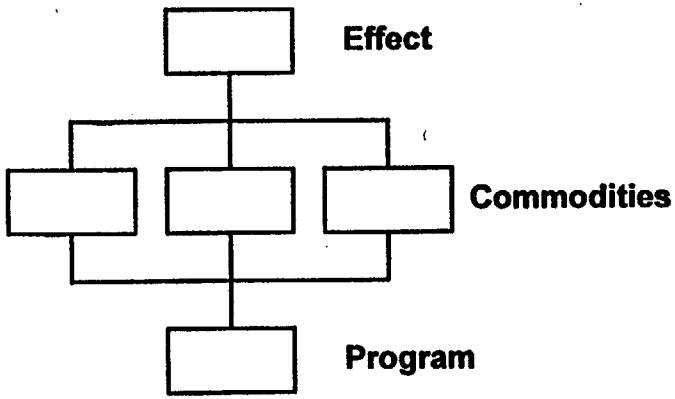
Systems

Intended Functions

Functional Boundaries

Screened Commodities

System-by-System



Plant-wide

SOUTHERN COMPANY
Energy to Serve Your World™

Generic Safety Issues

3.0 Generic Safety Issues
- 3.1 Evaluation
- 3.2 GSI-XXX
- 3.3 GSI-YYY
- 3.4 References for Section 3

- Each GSI section addresses
  - Background
  - Generic Industry Technical Rationale
  - Hatch Confirmatory Research
  - Hatch License Renewal Position for GSI

SOUTHERN COMPANY
Energy to Serve Your World™

Systems and Structures Subject to an AMR

4.0 SSCs Subject to an Aging Management Review

- 4.1 Structures
  - 4.1.1 Structure XXX
    - 4.1.1.1 Description
    - 4.1.1.2 Intended Functions
    - 4.1.1.3 Function Boundaries
    - 4.1.1.4 SSCs Subject to Aging Management Review
    - 4.1.1.5 Component Functions
  - 4.1.2 Structure YYY

    (Same format as 4.1.1)
- 4.2 Reactor

  (Same format as 4.1.1, etc.)
- 4.3 Reactor Coolant System and Connected Systems

  (Same format as 4.1.1, etc.)

Systems and Structures Subject to an AMR (Continued)

SOUTHERN COMPANY
Energy to Serve Your World™

4.4 Engineered Safety Features
(Same format as 4.1.1, etc.)

4.5 Instrumentation and Controls
(Same format as 4.1.1, etc.)

4.6 Electric Power
(Same format as 4.1.1, etc.)

4.7 Auxiliary Systems
(Same format as 4.1.1, etc.)

4.8 Steam and Power Conversion System
(Same format as 4.1.1, etc.)

4.9 Radioactive Waste
(Same format as 4.1.1, etc.)

Systems and Structures Subject to an AMR (Continued)

SOUTHERN COMPANY
Energy to Serve Your World™

4.10 Electrical Components

- 4.10.1 Electrical Components Subject to Aging Management Review
- 4.10.2 Discussion of Special Topics
- 4.10.3 Structures and Areas Containing Electrical Components Subject to Aging Management Review
- 4.10.4 Aging Management Review of Electrical Components Using Spaces Approach
- 4.10.5 References
- Table 4.10-1 Electrical Component Types Subject to an Aging Management Review and Their Intended Functions

Identification and Management of Aging Effects

SOUTHERN COMPANY
Energy to Serve Your World™

5.0 Identification and Management of Aging Effects

- 5.1 Commodity Aging Effects Terminology
- 5.2 Commodity Groups
  - 5.2.1 Commodity Group 1
    - 5.2.1.1 Description (including materials, internal and external environments)
    - 5.2.1.2 Plausible and Detrimental Aging Effects
    - Table 5.2-xx Plausible and Detrimental Aging Effects for Commodity Group 1
  - 5.2.2 Commodity Group 2
    - (Repeat for each commodity group)
- 5.3 Management of Detrimental Aging Effects
  - (subdivided by aging effect)
  - (Demonstration is made for each aging effect)

6.0 Aging Effects

- 6.1 Aging Effect xxx
- 6.2 Aging Effect yyy

SOUTHERN COMPANY
Energy to Serve Your World™

Aging Management Programs

- Aging Management Programs are described in the FSAR Supplement
- Programs are grouped into three broad areas
  - Monitoring Programs
  - Mitigating Programs
  - Supporting Programs