

## FINAL SAFETY ANALYSIS REPORT INTRODUCTION

This Final Safety Analysis Report (FSAR) is a repository of information comprising the U.S. EPR™ standard design. The FSAR also provides design-related information that is to be incorporated by reference into the U.S. EPR™ design certification rule as an appendix of 10 CFR Part 52 following NRC approval. The FSAR contains this introduction, the Tier 1 information and the Tier 2 information for the U.S. EPR™ standard design. Further sections of this introduction summarize the contents and use of the FSAR.

### 1.0 Tier 1 Information

Tier 1 means the portion of the design-related information contained in the U.S. EPR™ FSAR that is approved and certified by the NRC. Tier 1 information includes:

- Definitions and general provisions.
- Design descriptions.
- Inspections, tests, analyses, and acceptance criteria (ITAAC).
- Significant site parameters.
- Significant interface requirements between the U.S. EPR™ standard design and systems that are wholly or partially outside the scope of the U.S. EPR™ standard design.

The Tier 1 information also includes a table of contents, a figure legend, and an abbreviation and acronyms list.

### 2.0 Tier 2 Information

Tier 2 means the portion of the design-related information contained in the U.S. EPR™ FSAR that is approved but not certified by the NRC. Tier 2 information includes:

- Information required by 10 CFR 52.47.
- Supporting information on the inspections, tests, and analyses that will be performed to demonstrate that the acceptance criteria in the ITAAC have been met.
- Combined license (COL) information items which identify certain matters that shall be addressed in the site-specific portion of the FSAR by an applicant who references the U.S. EPR™ design certification rule.

Tier 2 also includes conceptual designs for those portions of the plant that are outside the scope of the U.S. EPR™ standard design, and which are designated as out-of-scope in various places in the Tier 2 information. Those portions of the U.S. EPR™ standard design for which conceptual design information is included in the Tier 2 information are identified and listed in Section 1.8 of the Tier 2 information. Conceptual design information is delineated by double brackets ([[ ]]).

Tier 2 also includes generic technical specifications.

### 3.0 Relationship of the Tier 1 Information to the Tier 2 Information

The design descriptions, interface requirements, and site parameters in Tier 1 are derived from Tier 2 information.

Compliance with Tier 2 is required, but generic changes to, and plant-specific departures from, Tier 2 will be governed by the U.S. EPR™ design certification rule. Compliance with Tier 2 provides a sufficient, but not the only acceptable, method for complying with Tier 1. Compliance methods differing from Tier 2 must satisfy the change process in the U.S. EPR™ design certification rule.

### 4.0 Tier 2\* Information

*Tier 2\** means the portion of the Tier 2 information, designated as such in the U.S. EPR FSAR, which is subject to the change process in Section VIII.B.6 of the U.S. EPR design certification rule. This designation expires for some Tier 2\* information under Section VIII.B.6 of the U.S. EPR design certification rule.

An applicant who references the U.S. EPR design certification rule may not depart from Tier 2\* information, which is designated with italicized text or brackets and an asterisk in the U.S. EPR FSAR, without NRC approval. The departure will not be considered a resolved issue, within the meaning of Section VI of the U.S. EPR design certification rule and 10 CFR 52.63(a)(5).

The U.S. EPR Tier 2\* information, summarized in Table I-1 of this introduction, is designated with italicized text in the Tier 2 Information. A plant-specific change to any of this Tier 2\* information shall require NRC approval prior to implementation of the change. A request for departure from Tier 2\* will be treated as a request for license amendment under 10 CFR 50.90.

The requirement for prior NRC approval of plant specific changes for some Tier 2\* information will expire when the plant first achieves 100% power. The U.S. EPR Tier 2\* information for which the Tier 2\* designation expires when the COL holder first achieves 100% power operation is indicated in Table I-1 of this introduction. After the plant first achieves full power, these Tier 2\* information reverts to Tier 2



information and is subject to the same departure provisions that apply to Tier 2 information.



**Table I-1—Summary of Tier 2\* Information**

| Location | Description of Tier 2* Information | Expiration |
|----------|------------------------------------|------------|
|          | (LATER)                            |            |