

1.11 IDENTIFICATION-RESOLUTION OF CONSTRUCTION PERMIT CONCERN - SUMMARY

1.11.1 General

The information presented in this section and FSAR Appendix I had direct applicability to the licensing efforts expended by TVA at the time of the preparation and submittal of the FSAR. Section 1.11 and Appendix I are retained in the FSAR for historical and traceability reasons only.

The design of the General Electric boiling water reactors for this station is based upon proven technological concepts developed during the development, design, and operation of numerous similar reactors. The AEC in reviewing the Browns Ferry docket at the Construction Permit stage identified several areas where further R&D efforts were required to more definitely assure safe operation of this station. Also, both the AEC Staff and the Advisory Committee for Reactor Safeguards had, in their review of this and more recent reactor projects, identified several additional technical areas for which further detailed support information had to be obtained. All of these development efforts thus were of three general types: (1) those which pertain to the broad category of water-cooled reactors; (2) those which pertain specifically to boiling water reactors; and (3) those which have been noted particularly for a facility during the construction or operating permit licensing activities by the AEC Staff and ACRS reviews.

Appendix I of this FSAR provides a complete, comprehensive examination and discussion of each of these concern areas, indicating the resolution accomplished or planned at the time of FSAR preparation. A summary conclusion of this analysis is provided in this subsection by Tables 1.11-1 through 1.11-6. The concerns have been subdivided as follows:

- a. Areas specified in the Browns Ferry AEC-ACRS Construction Permit Reports. (See Table 1.11-2.)
- b. Areas specified in the Browns Ferry AEC Staff Construction Permit Safety Evaluation Reports. (See Tables 1.11-3 and 1.11-4.)
- c. Areas specified in other related AEC-ACRS construction permit and operating license reports. (See Table 1.11-5.)
- d. Areas specified in other somewhat related AEC Staff construction permit and operating license safety evaluation reports. (See Table 1.11-6.)
- e. Additional information available and supplied by General Electric on BWR. (See Table 1.11-1.)

BFN-16

The scope of many of the areas of technology for items in a, b, and c above is discussed in Appendix I in detail and as part of an official response¹ by General Electric to the various ACRS concern subjects.

General Electric has submitted many topical reports to the AEC in support of this application and those of other facilities. Table 1.11-1 provides a list of all topical reports submitted to the AEC on behalf of TVA while trying to obtain an operating license for Browns Ferry. Topical reports submitted to the NRC (and the former AEC) after receipt of the operating license are not included in this list but can be found from a search of TVA-NRC correspondence.

1 Bray, A. P., et al., "The General Electric Company, Analytical and Experimental programs for Resolution of ACRS Safety Concerns," APED-5608, April 1968.