

TENNESSEE VALLEY AUTHORITY

DETAILS OF DEFERRAL PLANS
FOR THE HARTSVILE NUCLEAR PLANT A

Docket Nos. STN 50-518
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1.0 Introduction

TVA requested construction permit extensions for the Hartsville Nuclear Plant A on January 21, 1983. In response to A. Schwencer's letter dated February 17, 1983, TVA provided additional information on February 24, 1983 regarding our cause for deferral and need for extensions. The following pages describe the details of our deferral plans for the Hartsville Nuclear Plant A (HTA). TVA will make the appropriate submittals (i.e., SAR, ER amendments) addressing generic issues, plant status, completion schedules, and other information necessary if a decision is made to resume construction activities.

Several activities associated with the Hartsville Nuclear Plant A are conducted under the permits issued by other regulatory agencies. Examples of permits within this category include: NPDES permits issued by the Environmental Protection Agency, Section 404 and Section 10 permits issued by the Corps of Engineers, air quality permits issued by the State, and permits issued by the Federal Aviation Administration. TVA is in the process of discussing with these regulatory agencies the need to retain, modify, and/or renew those aspects of the permits which relate to these deferred nuclear units. Thus, descriptions of these activities are not addressed herein.

2.0 Site Activities During the Deferral Period

2.1 Permanent Plant Features and Structures

During the period of deferral at HTA a limited maintenance effort is underway for permanent plant structures. (No progress is being made toward completion of the permanent plant structures or features.) Critical items associated with permanent plant structures will be maintained such that restart of construction of these structures at the end of the deferral period may begin without a major rehabilitation effort. In order to accomplish this, TVA has prepared a preventative maintenance document which establishes guidance for the protection, preservation, and periodic inspection of specified materials. In addition, guidance for preparing these items for the continuation of construction following the deferral period is outlined.

2.2 Temporary Construction Buildings and Features

TVA presently plans no additional temporary buildings or features at the Hartsville A site. Temporary structures may be transferred to other facilities or sold in accordance with TVA's investment recovery program.

2.3 Site Maintenance

Site maintenance will be implemented in accordance with the conditions specified in Attachment A, 4.5.1.1(a) through (o) and 4.5.1.3(b), (c), (f), (g), (h), (i), (k), (l), and (m) of the Hartsville A construction permit.

The more significant activities associated with proper maintenance of the site include protection against soil erosion by various techniques such as seeding and mulching exposed areas (e.g., borrow pits), maintaining buffer zones, and maintaining controlled drainage pathways. All water-related items on site will be handled and monitored in accordance with the requirements of the site NPDES permit.

Noise and dust will be controlled so as to not significantly affect adjacent offsite activities.

Should evidence of environmental impact be detected during the deferral period, TVA will do an analysis of the problem and eliminate or significantly reduce the impacts, if necessary.

3.0 Common Features of Cancelled Hartsville B and Deferred Hartsville A

Structures/features which are common to both Hartsville A and B include:

1. The discharge system (composed of the holding pond, the holding pond outlet structure, the flow monitoring station, the discharge pipe, and the diffuser pipe, concrete cradles, and ballast).

2. The intake system (including the intake channel, the intake pipes, and the trash and return sluice).
3. The plant access features (the plant railroad, the rail barge facility, and the access highway).
4. The meteorological tower and data station.

At the restart of construction, the design of these common structures will be reviewed and modified as required to support Hartsville A only.

4.0 Environmental Monitoring and Mitigation Programs

The environmental monitoring and mitigation programs were developed and will be maintained as single programs for Hartsville Plants A and B. TVA will continue to provide for periodic management audits to determine the adequacy of implementation of environmental monitoring at Hartsville A.

The waterfowl/wetlands wildlife program was discontinued after the fall/winter cycle (April 1983). This completed the collection of 10 years of data committed to in the construction permit licensing. We believe that this data will be beneficial and could be utilized at the resumption of site activities. Data will be analyzed and the results summarized.

The threatened bird species monitoring program will be discontinued after the May 1983 census. The five years of census data will be analyzed and the results summarized.

The preconstruction/construction radiological monitoring program will be discontinued. TVA will evaluate the need for reestablishment of this monitoring program if future site activities warrant.

Ground water monitoring will be discontinued.

Attachment C of the construction permit requires specific monitoring activities, all of which are associated with monitoring the effects of diffuser excavation on the endangered mussel, Lampsillis orbiculata. Because most of the monitoring efforts are required immediately before, during, and after excavation, only minor review activities will be conducted during the deferral period.

The meteorological tower will be maintained in an inoperative mode.

5.0 Socioeconomic

The deferral/cancellation impact mitigation program will replace TVA's original socioeconomic monitoring and mitigation program. Activities under

the construction mitigation program have been or are being phased out. Should the decision be made to restart construction at Hartsville, TVA will evaluate the need for reestablishment of construction impact socioeconomic monitoring and mitigation programs.

Deferral/Cancellation Impact Mitigation--A deferral/cancellation impact mitigation program was developed and is being implemented as a single program for Hartsville, Phipps Bend, and Yellow Creek projects. In August 1981, TVA authorized \$150,000 at each project for implementation. The purpose of this program was to help offset the impacts of sudden unexpected unemployment in the areas around the deferred nuclear plants.

More recently, TVA approved an additional two-fold deferral/cancellation economic impact mitigation program. This program is designed to stimulate rapid creation of new, permanent private-sector job opportunities in the impact areas. Under this program, a total of approximately \$3 million for the three project areas is available on a loan basis to local communities for strategic investment in industrial development projects. These loans are to be provided interest free for up to three years with interest at TVA's long-term borrowing rate beyond this period. The program also provides \$250,000 for the three projects for a training/retraining element designed to supply the labor for new industry attracted to the area as a result of TVA's loan program efforts.

TVA is currently receiving and evaluating requests for participation in the loan program and will continue to do so until September 30, 1983. At that time, a summary monitoring report for Hartsville A will be prepared and submitted to the NRC.

6.0 Transmission Line Systems

Work on the erection of the transmission lines for the Hartsville Nuclear Plant A was halted when the plant was deferred. The portions of line which have been completed will be maintained in a normal manner. Further work on the erection of this system will resume as appropriate for completion of the Hartsville Plant A.