

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

March 22, 1983

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Denton:

In the Matter of the) Docket Nos. STN 50-519
Tennessee Valley Authority) STN 50-521

We are enclosing six copies of TVA's proposed cancellation plans for the Hartsville Nuclear Plant B. We request that you withdraw our construction permits, Nos. CPPR-151 and CPPR-153.

Please let me know if you have any questions.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills
L. M. Mills, Manager
Nuclear Licensing

Subscribed and sworn to before
me this 22nd day of March 1983.

Paulette J. White
Notary Public

My Commission Expires 9-5-84

Enclosure (6)

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TENNESSEE VALLEY AUTHORITY

TVA CANCELLATION OF
THE HARTSVILLE NUCLEAR PLANT B

Docket Nos. STN 50-519
STN 50-521

March 1983

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1.0 Introduction

On August 25, 1982 the Tennessee Valley Authority decided to cancel the Hartsville Nuclear Plant B. Section 2.0 provides a summary of those activities TVA will conduct to stabilize the portion of the site dedicated exclusively to construction of Hartsville Plant B.

Several activities associated with the Hartsville Nuclear Plant B 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 FAA 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 the cancelled nuclear units. Thus, descriptions of these activities are not addressed herein.

2.0 Site Stabilization

The following information describes the stabilization plans for the 78 acres which were exclusively committed to the cancelled Hartsville Nuclear Plant B (HTB).

The situation at Hartsville Nuclear Plant (HTN) site is unique in that TVA has two plants located in close proximity within a common boundary. While HTB has been cancelled, the Hartsville Plant A (HTA) is in deferred status and depending on future need, may eventually be completed. The stabilization program will prepare the 78 acres exclusively committed to HTB for incorporation into the HTA construction project. Any features that are common to the operation of both HTA and HTB will be modified as required and included as part of the HTA construction effort.

2.1 Disturbed Areas and Environmental Redressing

The disturbed areas that resulted from construction of HTB (approximately 78 acres) are denoted on figure 1. Within this area there are 12 acres committed to the permanent features of the cancelled HTB, 4 acres of roadways, 4 acres resulting from the excavation of 1 of the spray ponds in rock, 3 acres committed to the 500-kV switchyard, and 55 acres of temporarily disturbed land. The original land use of the site (before construction of HTB) is described in section 2.2 of TVA's Environmental Report.

The partially completed permanent structures will be left in place in essentially their present condition. Access to these structures will be barricaded to prevent unauthorized entry and thus limit conditions that could constitute a hazard to TVA employees or visitors to the site. Barricades will be in addition to normal HTA plant security that will be maintained for the entire site. Current plans are for these partially completed permanent plant buildings to be cleared of debris and drained for vector control.

Since roadways are currently gravelled, no further stabilization is planned.

The partially completed ESW spray pond which was excavated into rock will remain as is.

The remaining areas of cancelled HTB will be stabilized by backfilling existing depressions, sumps, or temporary excavations as required to provide drainage, and grass cover will be established. Existing grassed or gravelled areas will be left as is. Remaining denuded areas will be graded to drain and will be grassed. HTB site drainage will continue to be directed to the HTN construction holding ponds during the stabilization effort. Current plans are for all temporary construction warehouses to be left in place for onsite materials storage in support of HTA.

Miscellaneous steel equipment within the Hartsville Plant B 500-kV switchyard area will be removed. Remaining concrete foundations will be left in place. The switchyard area around the foundations is currently gravelled and drains into the construction holding ponds. No further stabilization is required.

2.2 State of Completion at Cancellation

At the time of cancellation (August 25, 1982), HTB construction progress for unit 1 was 19-percent complete and unit 2 was 9-percent complete. Listed below is a percent of structural completion for the major permanent features/structures. (Structural completion is based on quantity of concrete poured to date.)

HTB Permanent Plant Features

| <u>Feature</u> | <u>Percent Complete</u> | | |
|---|-------------------------|---------------|----------------------|
| | <u>Unit 1</u> | <u>Unit 2</u> | <u>Common to HTB</u> |
| 1. Auxiliary building | 37 | 22 | |
| 2. Fuel building | 24 | 8 | |
| 3. Reactor building | 17 | 7 | |
| 4. Turbine building | 44 | 16 | |
| 5. Cooling towers | 0 | 0 | |
| 6. Control building | 9 | 0 | |
| 7. CCW pump station | | | 60 |
| 8. ESW pump stations and intake structure | | | 43 |
| 9. Makeup water treatment plant | | | 27 |
| 10. Safety office and security building | | | 0 |
| 11. Radwaste building | | | 22 |
| 12. Central service facility | | | 56 |
| 13. Switchyard | | | 32 |

Some miscellaneous equipment has been installed in the plant buildings. This equipment will be dispositioned at TVA's option. Also, buried piping and electrical conduits, either permanent or temporary, will be abandoned.

2.3 Permanent Site Modifications

Permanent modifications to the site which may preclude other land uses include the main plant features listed previously and the partially completed spray pond.

The partially completed permanent structures will be left in place in essentially their present condition. Access to these structures will be barricaded to prevent unauthorized entry and thus limit conditions that could constitute a hazard to TVA employees or visitors to the site. Current plans are for these partially completed permanent plant buildings to be cleared of debris and drained for vector control.

The partially completed spray pond will remain as is.

Concrete foundations which exist within the 500-kV switchyard will be left as is.

2.4 Future Use

The HTB area is a part of the HTN reservation. Final grade and stabilization will be incorporated into the HTN site reservation. The HTB

area is dedicated to the support of TVA's power system facilities as a part of HIN reservation. The area may be used as required for materials storage, laydown areas, transmission facilities, and other work or use in support of completion of HTA.

Surfaced roads, grassed, and gravelled areas, etc., will be maintained in a stable condition. Any areas that become susceptible to erosion will be graded to drain and will be grassed.

TVA will permit secondary use of the site when a requested use is compatible with existing or projected TVA facilities and operations at the site.

3.0 Environmental Monitoring and Mitigation Programs

The environmental monitoring and mitigation programs were developed and have been maintained as single programs for the Hartsville Plants A and B.

The waterfowl/wetlands wildlife program will be discontinued after the fall/winter cycle (April 1983). This would complete the collection of 10 years of data committed to in construction permit licensing. We believe that this data would 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 required during the deferral period.

The meteorological tower will be considered dedicated to HTA and will be maintained in an inoperative mode.

4.0 Socioeconomics

Deferral/Cancellation Impact Mitigation--A deferral/cancellation impact mitigation program was developed and is being implemented as a single program for the Hartsville, Phipps Bend, and Yellow Creek projects.

In August 1981, TVA authorized \$150,000 at each project for implementation of a deferral economic impact mitigation program. 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 the loan program efforts.

TVA is presently receiving and evaluating requests for participation in the loan program and will continue to do so until September 30, 1983. As of that date, any unexpended funds will be retained by TVA and all mitigation assistance activities will be terminated. Also at that time, summary socioeconomic impact monitoring reports will be prepared.