

SEP 17 1974

Docket Nos. 50-438/439

Tennessee Valley Authority  
ATTN: James E. Watson  
Manager of Power  
818 Power Building  
Chattanooga, Tennessee 37401

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Docket File (ENVIRON) 2  
AEC PDR  
Local PDR  
L Reading  
EP-4 Reading  
A. Giambusso  
H. Denton  
R. Boyd  
V. Moore  
RO (3)  
Attorney, OCC  
ASchwencer/DDavis, LWR  
WRegan/GDittman  
EGoulbourne  
KHub, ANL  
ACRS (15)  
S. Reed  
A. Braitman

Gentlemen:

A public hearing before the Atomic Safety and Licensing Board (Board) on issues covered by 10 CFR Section 50.10(e) (2) (1i) and 10 CFR Part 50, Appendix D was held on July 9, 10 and 11, 1974 at Scottsboro, Alabama. On September 6, 1974, the Board issued a Partial Initial Decision on Environmental Matters and Site Suitability in which it made all the findings required by 10 CFR Part 50, Appendix D for issuance of the construction permits with respect to NEPA matters and determined that the activities identified below are within the scope of the activities authorized in 10 CFR Part 50.10(e) (1), and may be undertaken by Tennessee Valley Authority at the site of the proposed Bellefonte Nuclear Plant, Units 1 and 2.

This letter constitutes authorization to conduct those activities you identified in your letter of June 25, 1974, specifically:

A. Construction Plant

1. Move and set office and shop trailers and vans on site including utility services.
2. Upgrade roads on site including drainage structures.
3. Clear and grub construction plant areas including roads, railroads, shops, offices, storage, dock, utilities, drainage structures, holding ponds, and parking areas.
4. Grade and surface with crushed stone as appropriate construction plant areas including roads, railroads, shops, offices, storage, dock, utilities, drainage structures, holding ponds, and parking areas.
5. Receive both permanent and construction plant materials and equipment and store and/or handle as appropriate.

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6. Erect construction dock at river including dredging and erection of sheet pile cells and equipment handling crane.
7. Install electrical, telephone, air and water utilities including electrical substation, elevated water tank, pumping station, and sewage facilities.
8. Place concrete or other type foundations as appropriate and erect shops, offices, trailers, concrete mixing plant, and fuel and water tanks and pumps with protective dikes.
9. Install protective fencing.
10. Clear, grub, and construct 46-kV electrical feeder line from existing transmission line west of U.S. Highway 72 to construction substation.
11. Clear, grade, and install telephone and potable water lines from offsite to project facilities.

B. Permanent Features

1. Clear and grub for powerhouse and general yard including reactor, auxiliary, diesel generator, office and service bay, and turbine room buildings, switchyards, cooling tower and yard drainage pond areas.
2. Excavate both earth and rock from the above areas as applicable.
3. Place useable dirt excavation or borrow material as fill in switchyard or other fill areas and the unuseable material to spoil areas.
4. Place excavated rock either in storage or use as appropriate for road beds, fill, etc.
5. Clear, grub, grade, and build permanent railroad to plant including interchange yard near Hollywood, Alabama.
6. Clear, grub, grade, and construct access road from U.S. Highway 72 to vicinity of powerhouse including causeway across Town Creek embayment.

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- 7. Clear, grub, grade, and erect environmental data collecting station including parking areas, road, and utilities.
- 8. Relocate Shipp Cemetery.

The above activities will begin shortly after receipt of the limited work authorization and will continue throughout the period until the receipt of a construction permit. Under the limited work authorization, TVA will not construct structures, systems, or components which fall under the provisions of Appendix B to 10 CFR 50.

This authorization is subject to the following conditions for the protection of the environment:

- a. An approved sampling program, as outlined in Section 5.4.2.5 and 6.2.1.1 of the AEC staff's Final Environmental Statement (SFES) will be implemented to obtain data necessary for assessment of the significance of the loss of ichthyoplankton through entrainment in the proposed intake.
- b. The data obtained in the program specified in (a) above shall be submitted to the staff for review on a continuing basis and shall form the basis for a final decision on the acceptability of the proposed intake. The results will be subjected to thorough evaluation and a decision on the intake acceptability will be made on the basis of a cost-benefit analysis which will include both projected losses of fisheries resources on the entire reservoir and real and projected costs for the plant.
- c. The applicant shall not use the broadcast application of herbicides on the right-of-way covered under Step One (Section 3.3, SFES) of the transmission line construction plan. (Section 5.4.1 and Appendix B, SFES).

The applicant shall conduct studies which will assess the impacts of various alternative methods of transmission line construction and maintenance, and prior to any construction of Steps Two and Three (Section 3.3, SFES), the applicant shall submit (1) for staff evaluation the results of these studies and (2) an updated version of its proposed clearing and maintenance methods for staff approval. This submittal should include analysis of cost experience factors as well as environmental impacts such as the effects on vegetation, wildlife and soil stability. (Sections 4.1.2 and 9.2.4 SFES)

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- d. Prior to initiating construction of the discharge facility, the applicant shall provide the results of thermal-hydraulic analytical studies and plans for physical modelling experiments to be conducted in support of the final design and location of the plant cooling water discharge. (Sections 5.4.2.3.1 and 9.2.5 SFES)
- e. The applicant shall take the necessary mitigating actions, including those summarized in Section 4.4 of this Environmental Statement, during construction of the plant and associated transmission lines to avoid unnecessary adverse environmental impacts from construction activities.
- f. A control program shall be established by the applicant to provide for a periodic review of all construction activities to assure that those activities conform to the environmental conditions set forth in the construction permit.
- g. Before engaging in a construction activity which may result in a significant adverse environmental impact that was not evaluated or that is significantly greater than that evaluated in this Environmental Statement, the applicant shall provide written notification to the Director of Licensing.
- h. The applicant may develop either, but not both, of the two alternative access routes to the plant as the permanent plant access road; provided that approximately 500 acres of land located on the northeast tip of Bellefonte peninsula will be developed as a "generally dispersed recreation area" as defined in Tennessee Valley Authority's Recreation Plan, Volume 1, Methodology (1973); and that the proposed recreation area will be developed consistent with the maximum "peak hour recreation visits" of approximately 300 visits within a two mile radius of the plant for the life of the facility.

Any activities undertaken pursuant to this authorization shall be entirely at the risk of the applicant and the grant of the authorization shall have no bearing on the issuance of a construction permit with respect to the requirements of the Atomic Energy Act, and rules, regulations, or orders promulgated pursuant thereto.

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SEP 17 1974

Enclosed for your information is a copy of a related Notice which has been sent to the Office of the Federal Register for filing and publication.

Sincerely,

Original signed by:  
Roger S. Boyd

A. Giambusso, Deputy Director  
for Reactor Projects  
Directorate of Licensing

Enclosure:  
F. R. Notice

cc w/encl.: See attached page

OFFICE >	L:EP-4	L:EP	OCC	L:LWR	OAI	L:RP
SURNAME >	SDReed:pc	WHRegan		ASchwencer	ABraitman	AGiambusso
DATE >	GLDittman 9/10/74	DRMuller 9/ /74	9/ /74	9/ /74	9/ /74	9/ /74

cc w/encl.:

William E. Garner, Esq.  
Route 4, Box 354  
Scottsboro, Alabama 35768

Alabama Development Office  
State Office Building  
Montgomery, Alabama 36104

Top of Alabama Regional Council  
of Governments  
P. O. Box 308  
City Hall - 6th Floor  
Huntsville, Alabama 35801

Honorable John Reid  
Mayor of the City of Scottsboro  
City Hall  
Scottsboro, Alabama 35768

Honorable Eugene Dutton  
Mayor of the City of Hollywood  
City Hall  
Hollywood, Alabama

Mr. John Robins (1)  
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Room 615C  
270 Washington Street, SW  
Atlanta, Georgia 30334

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Office of Urban & Federal Affairs  
321 Seventh Avenue, North  
Nashville, Tennessee 37219

Mr. J. L. Church, Jr., Director (1)  
Bureau of Environmental Health Services  
Tennessee Department of Public Health  
Cordell Hull Building  
Nashville, Tennessee 37219

Office of Urban & Federal Affairs (1)  
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Alvin H. Gutterman, Esq.  
Division of Law  
Tennessee Valley Authority  
New Sprinkle Building  
Knoxville, Tennessee 37902

Ira L. Myers, M.D.  
State Health Officer  
State of Alabama Department  
of Public Health  
State Office Building  
Montgomery, Alabama 36104

Mr. Bruce Blanchard, Director  
Office of Environmental Projects  
Review  
Department of Interior - Rm. 5321  
18th & C Sts., NW  
Washington, D. C. 20240

Mr. Sheldon Myers  
ATTN: Jack Anderson  
Office of Federal Activities  
Environmental Protection Agency  
Rm. W-541 Waterside Mall  
401 M Street, SW  
Washington, D. C. 20460

Mr. Dave Hopkins  
Environmental Protection Agency  
1421 Peachtree Street  
Atlanta, Georgia 30309

U.S. Army Engineering District,  
Nashville  
P. O. Box 1070  
Nashville, Tennessee 37202

Mr. James W. Warr  
Alabama Water Improvement Commission  
749 State Office Building  
Montgomery, Alabama 36104

Mr. Charles B. Kelley  
Department of Conservation &  
Natural Resources  
Division of Game & Fish  
84 North Union Street  
Montgomery, Alabama 36104

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Docket No. 50-438  
50-439

Docketing and Service Section, Office of the Secretary CMiles

FEDERAL REGISTER NOTICE

Two signed originals of a Federal Register Notice identified as follows are enclosed for transmittal to the Office of the Federal Register for filing and publication:

TENNESSEE VALLEY AUTHORITY  
BELLEFONTE NUCLEAR PLANT, UNITS 1 AND 2  
NOTICE OF LIMITED WORK AUTHORIZATION

Twelve additional conformed copies are enclosed for your use.

Original signed by  
Wm. H. Regan, Jr.

Wm. H. Regan, Jr., Chief  
Environmental Projects Branch-4  
Directorate of Licensing

Enclosure:  
As stated

OFFICE >	L:EP-4 <i>SDR</i>	L:EP-4 <i>WHR</i>				
SURNAME >	SDReed:s1	WRegan				
DATE >	9/10/74	9/12/74				

UNITED STATES ATOMIC ENERGY COMMISSION

DOCKET NOS. 50-438 AND 50-439

TENNESSEE VALLEY AUTHORITY

BELLEFONTE NUCLEAR PLANT, UNITS 1 AND 2

NOTICE OF LIMITED WORK AUTHORIZATION

Pursuant to the provisions of 10 CFR Section 50.10(e) of the Atomic Energy Commission's (Commission) regulations, the Commission has authorized the Tennessee Valley Authority to conduct certain site activities in connection with the Bellefonte Nuclear Plant, Units 1 and 2, prior to a decision regarding the issuance of construction permits.

The activities that are authorized are within the scope of those authorized by 10 CFR 50.10(e) (1) and specifically include the following:

A. Construction Plant

1. Move and set office and shop trailers and vans on site including utility services.
2. Upgrade roads on site including drainage structures.
3. Clear and grub construction plant areas including roads, railroads, shops, offices, storage, dock, utilities, drainage structures, holding ponds, and parking areas.
4. Grade and surface with crushed stone as appropriate construction plant areas including roads, railroads, shops, offices, storage, dock, utilities, drainage structures, holding ponds, and parking areas.

5. Receive both permanent and construction plant materials and equipment and store and/or handle as appropriate.
6. Erect construction dock at river including dredging and erection of sheet pile cells and equipment handling crane.
7. Install electrical, telephone, air and water utilities including electrical substation, elevated water tank, pumping station, and sewage facilities.
8. Place concrete or other type foundations as appropriate and erect shops. Offices, trailers, concrete mixing plant, and fuel and water tanks and pumps with protective dikes.
9. Install protective fencing.
10. Clear, grub, and construct 46-kV electrical feeder line from existing transmission line west of U.S. Highway 72 to construction substation.
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2. Excavate both earth and rock from the above areas as applicable.
3. Place useable dirt excavation or borrow material as fill in switchyard or other fill areas and the unuseable material to spoil areas.

4. Place excavated rock either in storage or use as appropriate for road beds, fill, etc.
5. Clear, grub, grade, and build permanent railroad to plant including interchange yard near Hollywood, Alabama.
6. Clear, grub, grade, and construct access road from U.S. Highway 72 to vicinity of powerhouse including causeway across Town Creek embayment.
7. Clear, grub, grade, and erect environmental data collecting station including parking areas, road, and utilities.
8. Relocate Shipp Cemetery.

The authorization is subject to the following conditions for the protection of the environment:

- a. An approved sampling program, as outlined in Section 5.4.2.5 and 6.2.1.1 of the AEC staffs Final Environmental Statement (SFES) will be implemented to obtain data necessary for assessment of the significance of the loss of ichthyoplankton through entrainment in the proposed intake.
- b. The data obtained in the program specified in (a) above shall be submitted to the staff for review on a continuing basis and shall form the basis for a final decision on the acceptability of the proposed intake. The results will be subjected to thorough evaluation and a decision on the intake acceptability will be made on the basis of a cost-benefit analysis which will include both projected losses of fisheries resources on the entire reservoir and real and projected costs for the plant.

- c. The applicant shall not use the broadcast application of herbicides on the right-of-way covered under Step One (Section 3.3, SFES) of the transmission line construction plant. (Section 5.4.1 and Appendix B, SFES).

The applicant shall conduct studies which will assess the impacts of various alternative methods of transmission line construction and maintenance, and prior to any construction of Steps Two and Three (Section 3.3 SFES), the applicant shall submit (1) for staff evaluation the results of these studies and (2) an updated version of its proposed clearing and maintenance methods for staff approval. This submittal should include analysis of cost experience factors as well as environmental impacts such as the effects on vegetation, wildlife and soil stability. (Sections 4.1.2 and 9.2.4 SFES)

- d. Prior to initiating construction of the discharge facility, the applicant shall provide the results of thermal-hydraulic analytical studies and plans for physical modelling experiments to be conducted in support of the final design and location of the plant cooling water discharge. (Sections 5.4.2.3.1 and 9.2.5 SFES)
- e. The applicant shall take the necessary mitigating actions, including those summarized in Section 4.4; SFES, during construction of the plant and associated transmission lines to avoid unnecessary adverse environmental impacts from construction activities.
- f. A control program shall be established by the applicant to provide for a periodic review of all construction activities to assure that those activities conform to the environmental conditions set forth.

in the construction permit.

- g. Before engaging in a construction activity which may result in a significant adverse environmental impact that was not evaluated or that is significantly greater than that evaluated in the SFES, the applicant shall provide written notification to the Director of Licensing.
- h. The applicant may develop either, but not both, of the two alternative access routes to the plant as the permanent plant access road; provided that approximately 500 acres of land located on the northeast tip of Bellefonte peninsula will be developed as a "generally dispersed recreation area" as defined in Tennessee Valley Authority's Recreation Plan, Volume 1, Methodology (1973); and that the proposed recreation area will be developed consistent with the maximum "peak hour recreation visits" of approximately 800 visits within a two mile radius of the plant for the life of the facility.

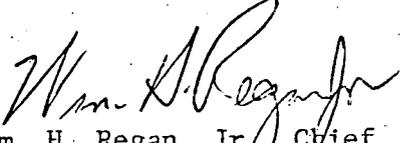
Any activities undertaken pursuant to this authorization are entirely at the risk of the Tennessee Valley Authority and the grant of the authorization has no bearing on the issuance of a construction permit with respect to the requirements of the Atomic Energy Act of 1954, as amended, and rules, and regulations, or orders promulgated pursuant thereto.

An Partial Initial Decision on matters relating to the National Environmental Policy Act and site suitability was issued by the Atomic Safety and Licensing Board in the above captioned proceeding on September 6, 1974. A copy of

(1) The Partial Initial Decision; (2) the applicant's Preliminary Safety Analysis Report and amendments thereto; (3) the applicant's Environmental Report, and amendments thereto; (4) the staff's Final Environmental Statement dated June 1974; and (5) the Commission's letter of authorization, dated September 17, 1974, are available for public inspection at the Commission's Public Document Room at 1717 H Street, N.W., Washington, D.C., and the Scottsboro Public Library, 1002 South Broad Street, Scottsboro, Alabama 35768.

Dated at Bethesda, Maryland the 17<sup>th</sup> day of September, 1974.

FOR THE ATOMIC ENERGY COMMISSION

  
Wm. H. Regan, Jr., Chief  
Environmental Projects Branch-4  
Directorate of Licensing