

AUG 10 1973

ENVIRON, FILE (NEPA)

Docket Nos. 50-438
and 50-439

Mr. J. E. Watson
Manager of Power
Tennessee Valley Authority
Chattanooga, Tennessee

Dear Mr. Watson:

This letter confirms conversations with Mr. R. Kennedy establishing the dates of August 21 and 22, 1973, for a visit of the AEC's environmental review staff to the site of your proposed Bellefonte Nuclear Plant.

The visiting team will consist of the AEC's Environmental Project Manager (EPM) and members of the Argonne National Laboratory (ANL) team assigned to this project. In addition, other members of the Regulatory Staff will accompany the EPM for a portion of the visit. For planning purposes you can expect six people from ANL and five or six people from Washington.

The enclosed schedule describes our plans during the week of August 20, 1973, and is for your general information. A list of topics and questions is also enclosed that we plan to use as the agenda for discussions during the technical meetings following the site visit.

Sincerely,

Original signed by
D. E. Sells / *[Signature]*

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

Enclosures:
As stated

CC: Mr. R. H. Marquis, General Counsel
629 New Sprinkle Bldg.
Knoxville, Tennessee 37902

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✓ Docket File (ENVIRON) 2

EP-4 Reading

RP Reading

W. Paton, OGC

G. Dittman, EP-4

S. Sheppard, EP-4

RO (3)

H. Denton, SS, L

W. Regan, EP-4

D. Muller, EP

A. Giambusso

K. A. Hub, ANL

P. Gustafson, ANL

D. Davis, PWR-4

R. DeYoung, ADPWR

MSpangler, CBAB

RBoyle, CBAB

CShort, CBAB

CBillups, ESB

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DATE ▶

8/10/73

8/10/73

Bellefonte Environmental Site Visit
AEC, ANL Schedule, Week of August 20, 1973

August 20, 1973

AEC, ANL meet with:

TARCOG	11:30 a.m.	Huntsville, Ala.
Honorable J. Reid	2:00 p.m.	Scottsboro
Board of Education Jackson County Scottsboro	2:45 p.m.	Scottsboro
Honorable E. Dutton	3:30 p.m.	Hollywood
Spend night at Holiday Inn	(205)574-1115	Scottsboro

August 21, 1973

Meet with TVA personnel at Holiday Inn	8 a.m.	Scottsboro
Site Visit	8:00 a.m.	
Technical Meeting	3:00 p.m.	TVA, Chattanooga, Tenn.
Spend night at Downtowner Motor Inn	(615)649-0316	Chattanooga

August 22, 1973

Technical Meeting	9:00 a.m.	TVA, Chattanooga
Spend night at Howard Johnson South	(205)288-7820	Montgomery, Ala.

August 23, 1973

Alabama Water Improvement Comm.	9:00 a.m.	Montgomery
Alabama Development Office	10:00 a.m.	Montgomery
Department of Conservation and Natural Resources Division of Game and Fish Division of Land	11:00 a.m.	Montgomery
Alabama Historical Commission	2:30 p.m.	Montgomery

Bellefonte Environmental Site Visit

Proposed Meeting Agenda

A. Plant Discharge

1. What is the status of the analytical studies and hydraulic modeling work being performed to determine the best location of the blowdown diffuser and the spatial and temporal characteristics of the thermal plume? (This can be a separate meeting.)
2. What is the design status of the diffuser facility?

B. Water Quality

3. What are the water standards for the State of Alabama on dissolved solids?
4. Discussion concerning the TVA response to Staff pre-acceptance review comments contained in the July 12, 1973 environmental statement supplement with respect to the following:

The water quality data for the period from May 1963 through April 1964 is of academic interest but may not be characteristic of the present environment. More recent data should be provided. TVA plans in this regard detailing water quality parameters, sampling locations, sampling frequency, monitoring program initiation, statistical methodology to be employed and the qualifications of the personnel involved should also be provided.

C. Transmission Lines

5. What is the status of the studies being performed to establish the preferred and alternate routing of the transmission lines from the Bellefonte plant?
6. What is the influence of the Bellefonte historical site on line placement and design?
7. Discuss the considerations (including absolute rather than incremental costs) related to submarine crossings of Guntersville Lake and Town Creek.
8. Discussion concerning the TVA response to staff comments contained in the supplement with respect to the following:

-Alternative methods of constructing new transmission lines should be evaluated in addition to shear clearing.

-Alternate methods (e.g., wood chipping) for disposal of slash should be evaluated in addition to burning.

-Procedures, quantities, frequency of use, ingredients, manufacturer, registration numbers, and application methods for the use of herbicides should be provided.

D. Plant Cooling Water Intake

9. Discussion concerning the TVA response to staff comments contained in the supplement with respect to the following:

-A detailed discussion of the alternate intake designs to be considered (e.g., louvers, bypass devices, traveling band screens, etc.) should be provided.

-Alternative intake sites should be considered.

-A diagram of the intake structure showing details such as 1/8" strainers should be provided.

E. Plant Construction Impacts

10. Provide a list of the schools in the Scottsboro-Hollywood area and Jackson County and include the following data:

Present number of students

Present number of teachers

Estimated student capacity

Estimated space for accommodation of student influx

11. Regarding paragraph 3 on Page 2.8-3, how will normal growth in the area accommodate the additional space required for an abnormal influx of 300 students in Scottsboro schools? (Approx. 10 classrooms required.)
12. What is the present capacity and usage of the Scottsboro city water system?
13. What is the present capacity and usage of the Scottsboro sewage treatment plant?
14. Based on industrial developments described on Page A-2 of Appendix A, the Revere Copper and Brass Corporation is planning to construct a new facility adding 500 workers to their production employment. Goodyear is tentatively planning to expand production which would add another 800 production workers to their current operations. Given these planned and potential events, will there still be

sufficient and employable manpower in the local labor pool to meet both these needs and the expected construction workers projected to be available locally for the Bellefonte plant?

15. Although it is estimated that between 25% and 30% of the total construction force will move into the area (from other areas), what would be the impact on the housing, schools, roads, and other services if say 40% of the construction workforce moved into the area?
16. Will payments in lieu of taxes be made on an increasing basis during construction of the plant in order to mitigate the impact of increased demands on local services caused by the influx of new resident construction workers and their families?
17. Have consultations been held with Scottsboro and county health officials to determine if the local emergency treatment facilities and staff will be adequate for the 2,000 construction workers and increased population during construction of the plant?
18. Discussion concerning the TVA response to staff comments contained in the supplement with respect to the following:
 - With regard to construction employment impact, what are the plans and estimated costs to provide additional hospital service, classroom space, and such municipal services as sewage treatment and fire and police protection?
 - Exactly what are the "special efforts" which will be made to minimize silting in the reservoir? What specifically are the "appropriate siltation control methods" which will be utilized during construction of blowdown diffusers?

F. Plant/Site Design

19. As regards paragraph 4 on Page 8.1-5, provide a description of the plans for recreation areas and facilities including costs for improvements. What types of activities will be allowed?
20. Discussion concerning the TVA response to staff comments contained in the supplement with respect to the following:
 - The use of mechanical systems instead of biocides for cleaning condenser tubes should be evaluated.
 - The drift effects from cooling towers are not sufficiently discussed and more recent references are available on the subject.

-The authority setting standards for disposal of sludge should be identified.

-The design basis for sanitary facilities appears to be low considering that estimated average visits are 200 per day. What disposition will be made of waste from chemical toilets?

-TVA should justify the evaporation rate presented on page 2.6-7, indicating under what conditions this rate is valid, and how often these "periods of high evaporation" are to be expected or exceeded. The drift rate presented on page 2.6-10 should also be justified.

-A discussion concerning the storage of hazardous chemicals should be provided.

21. Can TVA provide an artist's rendering of an overall view of the plant from the direction that will be seen most frequently by the public?

G. Alternative Sites

22. In the site alternative discussion (Section 4.3 of the TVA draft statement), area 2 was eliminated because studies of specific sites had not progressed far enough (4.2-5). Since this area shows the greatest need for additional generating capacity, and, therefore, potentially the lowest transmission costs, what do your studies presently indicate concerning area 2 for alternative sites?

H. Geothermal Power

23. What is the potential for geothermal power in the TVA service area?

I. Eurasion Milfoil

24. Discuss the milfoil problem in Guntersville reservoir, the control programs and the research being carried out on this subject.
25. How will the expected control activities in the vicinity of the plant influence the monitoring programs?

J. Monitoring Programs

26. Discussion concerning the TVA response to staff comments contained in the supplement with respect to the following:

- The aim of the nonradiological environmental monitoring program would be to test the null hypothesis, namely, that no significant differences in the samples can be associated with station construction or operation. Adequate pre-operational as well as post-operational data are needed to determine whether or not significant damage occurs. In addition, more monitoring data for the site preparation and construction period (e.g., effects of dredging) are necessary to indicate impacts and possible use of alternative procedures.
- Fish spawning periods and locations have not been identified; these should be indicated as to time of year, and the species should be identified.
- Phytoplankton and zooplankton sampling depths are too far apart, vertically (See Appendix B4). Methods of enumeration and statistical analyses should be included in the monitoring plans. Water quality samples should be made at the same levels as stations that are used for plankton sampling. Holding times should be given for all samples.
- The sampling periods for both plankton and fish should be carried out at essentially equal intervals throughout the day and night (24 hours).
- Not enough information is given for the benthos in regard to methods, species identification, sampling frequency, etc.
- Macrophyte monitoring data should be provided.
- Biota removed by traveling screens (e.g., kinds, size, condition including size and condition of fish) should be identified. Biota that pass through the screens should also be detailed. Methods and frequency of sampling should be given.
- There are presently no plans for terrestrial monitoring. Such monitoring should include the entire flora and fauna spectrum characteristic of the Bellefonte site area.
- There are not enough upstream sampling stations, and there should be more sampling stations closer to the plant.
- Is there a published report on TVA "impingement experience"?

K. Schedules

27. AEC discussion of its review schedule.
28. TVA discussion of its final statement schedule.
29. TVA discussion of the Bellefonte construction schedule.
30. TVA discussion of the various monitoring schedules and planned transmission of program details to the AEC.
31. TVA discussion of planned transmission of thermal plume distribution data including isotherms to AEC.

L. Formal Site Visit Questions

32. Identification of questions that will be subsequently submitted to TVA for formal response.