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 FACIL:50-438 Bellefonte Nuclear Plant, Unit 1, Tennessee Valley Au 05000438
 50-439 Bellefonte Nuclear Plant, Unit 2, Tennessee Valley Au 05000439
 AUTH.NAME AUTHOR AFFILIATION
 MILLS,L.M. Tennessee Valley Authority
 RECIP.NAME RECIPIENT AFFILIATION
 ADENSAM,E. Licensing Branch 4

SUBJECT: Forwards responses to environ questions,per 831108 ltr.
 Responses re safety aspects will be provided in upcoming
 FSAR amends.Updated environ rept will be providd by late
 1985.

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#144

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

January 31, 1984

Director of Nuclear Reactor Regulation
Attention: Ms. E. Adensam, Chief
Licensing Branch No. 4
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Ms. Adensam:

In the Matter of the Application of) Docket Nos. 50-438
Tennessee Valley Authority) 50-439

Enclosed are our responses to your questions on environmental aspects transmitted in your letter to H. G. Parris dated November 8, 1983, requesting additional information on TVA's Bellefonte Nuclear Plant. Responses to questions concerning safety aspects (questions 230.1-.2, 231.1-.9) will be provided in upcoming FSAR amendments. An update to the Bellefonte Operational License Stage Environmental Report will be provided to the NRC by late 1985.

If you have any questions concerning this matter, please get in touch with Bill Watters at FTS 858-2691.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

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

Sworn to and subscribed before me
this 31st day of January 1984

Paulette J. White
Notary Public
My Commission Expires 9-5-84

Enclosure (20)

cc: U.S. Nuclear Regulatory Commission (Enclosure)
Region II
Attn: Mr. James P. O'Reilly Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30303

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ENCLOSURE

310.19 Question

In Question 310.5 a request was made for an estimate of local purchases to be made once the plant was operating. The response gave an answer based on 1982 experience of \$743,525.44. Since the plant was not operating in 1982 it appears the estimate is based on construction experience, not the operating purchases requested. Please clarify this inconsistency and revise your answer to 310.5.

Response

The amount previously given for local purchases in Question 310.5 was based on the actual 1982 operating experience at TVA's Browns Ferry Nuclear Plant. Therefore, based on the Browns Ferry experience, TVA projected an amount of approximately \$743,500 for Bellefonte (1982 dollars).

310.20 Question

Given the information contained in responses to Questions 310.1 and 310.4 concerning annual payroll and number of operating workers respectively, the average annual payroll per employee would be over \$117,000 (i.e. units 1 and 2 payroll in 1987 \$158,906,500 divided by peak average annual employment in 1987 of 1350.) This average wage is out of line with staff experience of other plants. Please revise your responses to Question 310.1 and/or 310.4.

Response

Please see the revised responses to Questions 310.1, 310.2, 310.3, 310.4, and 310.6 that were transmitted in TVA's December 5, 1983 letter to E. Adensam, NRC.

311.6 Question

Please provide additional information (e.g. type, quantity, frequency of shipments, etc.) pertaining to the bulk shipment of toxic materials that are being transported by barge on the Tennessee River in the vicinity of the Bellefonte site. Using the guidance of Reg. Guide 1.78, please provide an analysis of the potential impact on the operation of the plant in the event of an accidental release of hazardous materials which are frequently shipped.

Response

Tables 2.2.2-3a and 2.2.2-5a of the Bellefonte FSAR, respectively, list barge traffic and hazardous materials that passed the Bellefonte site in calendar year 1978. From Table 2.2.2-5a, the only hazardous materials shipped more than 50 times per year are chemicals and chemical products. Of the materials which the NRC considers to be hazardous, only chlorine and methanol were found to be shipped as basic chemicals not elsewhere classified. However, because shipments of chlorine and methanol do not exceed 50 per year, further analyses of the potential effect of an accident involving these materials would not be required.

311.7 Question

Please provide the distance between the nearest residence and the site. Are there any permanent or temporary occupants residing at this location? Please elaborate.

Response

Please refer to the attached Table 311.7-1 which lists nearest resident locations for each of the 16 sectors around the Bellefonte Nuclear Plant site. For assessment purposes, TVA has assumed that these residences are occupied by permanent year-round residents.

Table 311.7-1

BELLEFONTE NUCLEAR PLANT
NEAREST RESIDENT LOCATIONS

<u>SECTOR</u>	<u>DISTANCE (METERS)</u>
N	1600
NNE	2819
NE	5639
ENE	4915
E	3696
ESE	3353
SE	3962
SSE	4229
S	6553
SSW	5867
SW	2477
WSW	5867
W	1524
WNW	2019
NW	1181
NNW	1334

311.8 Question

Please explain who (federal, state or local agency) will be working in conjunction with the TVA security guards during an emergency to control activity on the Tennessee River.

Response

The Alabama Radiological Emergency Response Plan provides that the Alabama Department of Conservation will assume river traffic control responsibilities.

311.9 Question

Please specify the distances from the Bellefonte site to those facilities (schools, jails, hospitals, etc.) listed in your July 22, 1982 submittal.

Response

Please refer to attached Table 311.9-1.

Table 311.9-1

SPECIAL FACILITIES NEAR BELLEFONTE

<u>FACILITY</u>	<u>ADDRESS</u>	<u>ENROLLMENT/ POPULATION</u>	<u>DISTANCE/ (MILES) DIRECTION</u>
<u>SCHOOLS</u>			
Brownwood Elementary	305 Bingham St., Scottsboro, Ala 35768	459	6-7 SE
Caldwell Elementary School	905 S. Market St., Scottsboro, Ala 35768	581	6-7 SE
Dutton School Grades 1-8	Dutton, Ala	217	6-7 S
Bollywood Jr., High School Grades (K-8)	Hollywood, Ala 35752	294	2-3 NE
Jackson County Tech. School	Hollywood, Ala 35752 2:50am - 2:00pm	450	2-3 NE
Nelson Elementary School	202 Ida Woody Rd., Scottsboro, Ala 35768	340	8-9 SE
Page Elementary School	305 S. Scott St., Scottsboro, Ala 35768	601	6-7 SE
Pisgah School (K-12)	Pisgah, Ala 35765	689	5-6 SE
Scottsboro High School	102 Legion Dr., Scottsboro, Ala 35768	936	7-8 SE
Scottsboro Jr. High School (Middle)	1601 Jefferson St., Scottsboro, Ala 35768	564	7-8 SE
Section School, (K-12)	Section, Ala 35771	657	8-9 S
<u>DAYCARE/NURSERY SCHOOLS</u>			
Scottsboro-Jackson County Child Development Center	Scottsboro, Ala 35768	80	7-8 SE
Amerikid	404 Scottsboro Plaza, Scottsboro, Ala 35768	50	8-9 SE
Calvary Baptist Church	County Park Road, Scottsboro, Ala 35768	60	6-7 SE
Tiny Tots Kindergarten	827 Market St., Scottsboro, Ala 35768	50	6-7 SE
Jackson County Developmental (Mentally Handicapped)	Scottsboro, Ala 35768	56	7-8 WSW
<u>JAILS</u>			
Jackson County Jail	Courthouse, Scottsboro, Ala 35768	45	6-7 WSW
City of Scottsboro Police Dept. Jail	City Hall, Scottsboro, Ala 35768	5	6-7 WSW
(All other municipalities involved bring their prisoners to Jackson County Jail).			
<u>HOSPITALS</u>			
Jackson County Hospital	Woods Cove Road, Scottsboro, Ala 35768	116	7-8 WSW
<u>NURSING HOMES</u>			
Jackson County Nursing Home	Woods Cove Road, Scottsboro, Ala 35768	50	7-8 WSW
Scottsboro Nursing Home	Woods Cove Road, Scottsboro, Ala 35768	82	7-8 WSW

311.10 Question

Please discuss how TVA (Bellefonte) will control the activities in and around the Fennell Cemetery, particularly in conjunction with the rights of third parties which were not acquired when TVA took over the property. Specifically, address the action that will be taken for controlling access within the exclusion area by persons visiting the cemetery to participate in burial services, performing maintenance, etc.

Response

Fennell cemetery, which lies approximately 3/4 mile inside the exclusion zone, is not a frequently visited area. Upon implementation of the Radiological Emergency Plan public safety officers will be dispatched to make sure that the area is clear. Access to Fennell cemetery, as well as to any other area within the exclusion zone, will be controlled by TVA until the emergency is terminated.

311.11 Question

Please provide information on the current status of plans for the recreational area and access routes specified (paragraph 3.D.8) as a condition of the Bellefonte Construction Permit.

Response

The access road constructed by TVA for the Bellefonte Nuclear Plant leaves the north side of the plant and traverses generally north until it crosses Town Creek embayment. The road continues northwest until it intersects U.S. Highway 72. The causeway access route was constructed as described in Sections 2.7 and 2.9 of the Bellefonte Final Environmental Statement and allows access to the 500 acres at the tip of the peninsula set aside to be developed as a 'generally dispersed recreation area.'

Development of the 500 acres for recreational purposes is still proposed; however, final planning, construction of recreational facilities, and recreational use of the peninsula will begin after the completion of the construction phase of Bellefonte Nuclear Plant. In the meantime, the preliminary recreation plans for the area that were developed in the early 1970's (described in TVA's FES; Section 2.9, pages 2.9-5-2.9-6) are being reevaluated to determine whether the type of facilities and level of development originally proposed is still appropriate in light of current conditions. Specific recommendations and a concept plan for the area should be completed by the end of fiscal year 1985.