

REGULATOR INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8303290343 DOC. DATE: 83/03/24 NOTARIZED: NO DOCKET #: 05000438
 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:
 KAMMER, D. S. Tennessee Valley Authority
 RECIPI. NAME: RECIPIENT AFFILIATION:
 EISENHUT, D. G. Division of Licensing

SUBJECT: Notifies that detailed plans & schedules for resolution of TMI Action Item II, XI, 3.5, "Automatic Trip of Reactor Coolant Pumps," will be provided by 830815. Continued const. Justified & CPs should not be modified, suspended or revoked.

DISTRIBUTION CODE: B0015 COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 2
 TITLE: Licensing Submittals PSAR/FSAR Amdts & Related Correspondence

NOTES:

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INTERNAL:	ELDVHDS2	1 0	IEI FILEI	1 1
	IEVDEPER/EPB 36	3 3	IEVDEPER/IRB 35	1 1
	NRR/DEVAEAB	1 0	NRR/DEVCEB 11	1 1
	NRR/DEVEHEB	1 1	NRR/DEVEQB 13	2 2
	NRR/DEVGB 28	2 2	NRR/DEVHGB 30	1 1
	NRR/DEVMEB 18	1 1	NRR/DEVMTEB 17	1 1
	NRR/DEVQAB 21	1 1	NRR/DEVSAB 24	1 1
	NRR/DHFS/HFEB40	1 1	NRR/DHFS/LQB 32	1 1
	NRR/DL/SSPB	1 0	NRR/DSI/AEB 26	1 1
	NRR/DSI/ASB	1 1	NRR/DSI/CPB 10	1 1
	NRR/DSI/CIB 09	1 1	NRR/DSI/ICIB 16	1 1
	NRR/DSI/MEIB 12	1 1	NRR/DSI/PSB 19	1 1
	NRR/DSI/RAB 22	1 1	NRR/DSI/RSB 23	1 1
	REG FILEI	1 1	RGN2	3 3
	RM/DDAMI/MIB	1 0		
EXTERNAL:	ACRS 41	6 6	BNLIC(AMDTS ONLY)	1 1
	DMB/DSS (AMDTS)	1 1	FEMA-REPI DIVI 39	1 1
	LPDR 03	1 1	NRCI POR 02	1 1
	NSICI 05	1 1	NTIS	1 1

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TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

March 24, 1983

Mr. Darrell G. Eisenhut, Director
Division of Licensing
Office of Nuclear Reactor Regulation
Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Eisenhut:

In the Matter of the Application of) Docket No. 50-438
Tennessee Valley Authority) 50-439

Your letter to all applicants with Babcock & Wilcox designed nuclear steam supply systems regarding resolution of TMI action item II.K.3.5, "Automatic Trip of Reactor Coolant Pumps," requested TVA's plans and schedules for resolution of this issue for Bellefonte Nuclear Plant. It is TVA's intention to pursue resolution of the RCP trip issue through the B&W Owners Group. In accordance with your request, TVA expects to be able to submit detailed plans and schedules for resolution of this issue by August 15, 1983.

TVA therefore believes that continued construction of all portions of the Bellefonte Nuclear Plant is justified, and the construction permits for Bellefonte units 1 and 2 should not be modified, suspended, or revoked. TVA will notify you immediately of any changes in our plans or schedules.

If you have any questions concerning this matter, please get in touch with R. H. Shell at FTS 858-2688.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

D S Kammer

D. S. Kammer
Nuclear Engineer

Sworn to and subscribed before me
this 24th day of Mar. 1983

Bryant M. Lowery
Notary Public
My Commission Expires 4/8/86

Boo!

cc: See page 2

8303290343 830324
PDR ADOCK 05000438
A PDR

Director of Nuclear Reactor Regulation

March 24, 1983

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

Mr. James McFarland
Senior Project Manager
Babcock & Wilcox Company
P.O. Box 1260
Lynchburg, Virginia 24505

REGULATOR INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8303210340 DOC. DATE: 83/03/16 NOTARIZED: YES DOCKET #
 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
 ADESAM, E. Licensing Branch 4

SUBJECT: Forwards interim environ radiological monitoring program,
 replacing preoperational monitoring program until to fuel
 load schedule slippages.

DISTRIBUTION CODE: B001S COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 14
 TITLE: Licensing Submittal: PSAR/FSAR Amdts & Related Correspondence

NOTES:

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		LTR	ENCL		LTR	ENCL
	NRR/DL/ADL	1	0	NRR LB4 BC	1	0
	NRR LB4 LA	1	0	HERNAN, R. 01	1	1
INTERNAL:	ELD/HDS2	1	0	IE FILE	1	1
	IE/DEP EPDS 35	1	1	IE/DEP/EPLB 36	3	3
	NRR/DE/AEAB	1	0	NRR/DE/CEB 11	1	1
	NRR/DE/EQB 13	2	2	NRR/DE/GB 28	2	2
	NRR/DE/HGEB 30	1	1	NRR/DE/MEB 18	1	1
	NRR/DE/MTEB 17	1	1	NRR/DE/QAB 21	1	1
	NRR/DE/SAB 24	1	1	NRR/DE/SEB 25	1	1
	NRR/DHFS/HFEB40	1	1	NRR/DHFS/LQB 32	1	1
	NRR/DL/SSPB	1	0	NRR/DSI/AEB 26	1	1
	NRR/DSI/ASB	1	1	NRR/DSI/CPB 10	1	1
	NRR/DSI/CSB 09	1	1	NRR/DSI/ICSB 16	1	1
	NRR/DSI/METB 12	1	1	NRR/DSI/PSB 19	1	1
	NRR/DSI/RAB 22	1	1	NRR/DSI/RSB 23	1	1
	REG FILE 04	1	1	RGN2	3	3
	RM/DDAMI/MIB	1	0			
EXTERNAL:	ACRS 41	6	6	BNL (AMDTs ONLY)	1	1
	DMB/DSS (AMDTs)	1	1	FEMA-REP DIV 39	1	1
	LPDR 03	1	1	NRC PDR 02	1	1
	NSIC 05	1	1	NTIS	1	1

TOTAL NUMBER OF COPIES REQUIRED: LTR 52 ENCL 45

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

March 16, 1983

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 No. 50-438
Tennessee Valley Authority) 50-439

This letter is to inform you of changes TVA proposes to make in the Bellefonte Nuclear Plant preoperational radiological monitoring program. As discussed in the Operational License Stage Environmental Report (OLER), section 2.8, page 2.8-1 and subsection 6.1.6, page 6.1-22, TVA committed to initiate the above monitoring program two years before plant operation. This program was initiated in 1978 anticipating fuel load in 1980. Reports on these program activities have been annually transmitted to the NRC beginning with the first report on January 29, 1980 (which covered the 1978 time period).

TVA has slipped the fuel load schedule for Bellefonte several times since the OLER was docketed in 1978. Currently, TVA estimates fuel load for unit 1 to be May 1985. Due to these schedule slippages and the accumulation of more than two years of preoperational data, we propose to modify our preoperational radiological monitoring program and continue with an interim program (enclosure 1) until one year before unit 1 fuel load, at which time we propose to reinstate our present program. TVA believes that the interim program will provide for necessary data collection while eliminating the expense of collecting needless additional data. Enclosure 2 is a comparison of the current and the interim programs.

Boo1

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PDR ADOCK 05000438
R PDR

Director of Nuclear Reactor Regulation

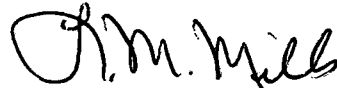
March 16, 1983

We plan to begin our interim program on May 1, 1983.

If you have any questions concerning this matter, please get in touch with R. H. Shell at FTS 858-2688.

Very truly yours,

TENNESSEE VALLEY AUTHORITY



L. M. Mills, Manager
Nuclear Licensing

Sworn to and subscribed before me
this 16th day of March 1983

Paulette H. White

Notary Public

My Commission Expires 9-5-84

Enclosures (2)

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

ENCLOSURE 1

INTERIM ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM

<u>Exposure Pathway and/or Sample</u>	<u>Number of Samples and Locations</u>	<u>Sampling and Collection Frequency</u>	<u>Type and Frequency of Analysis</u>
AIRBORNE			
Particulates	<p>2 samples from locations (in different sectors) at or near the site boundary</p> <p>6 samples from communities within 10 miles of the plant</p> <p>2 samples from control locations greater than 10 miles from the plant</p>	Continuous sampler operation with sample collection every 2 weeks	Gross beta following filter change; composite (by location) quarterly for gamma scan, ^{89}Sr and ^{90}Sr
Soil	Samples from same locations	Once per 3 years	Gamma scan, ^{89}Sr and ^{90}Sr once each 3 years
DIRECT			
	<p>2 or more dosimeters placed at the offsite air particulate sampling stations</p> <p>2 or more dosimeters placed at 10 or more locations (in different sectors) at or near the site boundary and at least 16 stations approximately 5 miles from the plant</p>	Quarterly	Gamma dose quarterly

INTERIM ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM (Continued)

<u>Exposure Pathway and/or Sample</u>	<u>Number of Samples and Locations</u>	<u>Sampling and Collection Frequency</u>	<u>Type and Frequency of Analysis</u>
WATERBORNE			
Surface	1 sample upstream 1 sample immediately down- stream of discharge 1 sample downstream, after dilution	Quarterly	Gamma scan, ^3H , ^{89}Sr , and ^{90}Sr quarterly
Ground	6 samples near plant 2 samples from ground water source upgradient	Quarterly	Gamma scan, ^3H quarterly
Drinking	3 samples potable surface water supplies downstream from the plant	Quarterly	Gross beta, gamma scan tritium, ^{89}Sr and ^{90}Sr quarterly
	1 sample at control locations	Quarterly	
AQUATIC			
Sediment and Benthos*	1 sample upstream from discharge point 1 sample in immediate downstream area of discharge point 1 sample downstream	Semiannually	Gamma scan, ^{89}Sr and ^{90}Sr analyses semiannually (^{89}Sr and ^{90}Sr on sediment and shells only)
Shoreline Sediment	1 sample upstream 1 sample downstream	Semiannually	Gamma scan, ^{89}Sr and ^{90}Sr Semiannually

*Species to be determined at a later date.

INTERIM ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM (Continued)

Exposure Pathway and/or Sample	Number of Samples and Locations	Sampling and Collection Frequency	Type and Frequency of Analysis
Plankton and aquatic macrophytes	1 sample upstream from discharge point 1 sample in immediate downstream area of discharge point 1 sample downstream	Semiannually	Gross beta semiannually; gamma scan, ^{89}Sr and ^{90}Sr when sufficient quantities are available
INGESTION			
Milk	1-3 samples from dairy farms in the immediate vicinity of the plant 1 sample from control location	Monthly	^{131}I analysis, gamma scan, ^{89}Sr and ^{90}Sr monthly
Fish	1 sample each of a commercial and a game specie in Nickajack Reservoir above the plant		

INTERIM ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM (Continued)

<u>Exposure Pathway and/or Sample</u>	<u>Number of Samples and Locations</u>	<u>Sampling and Collection Frequency</u>	<u>Type and Frequency of Analysis</u>
INGESTION			
Fish	1 sample each of a commercial and a game specie in Gunter-ville Reservoir near the plant	Semiannually (Collected as part of Browns Ferry and Sequoyah Nuclear Plants monitoring programs)	Gamma scan semiannually
	1 sample each of a commercial and a game specie in Wheeler Reservoir below the plant		
Vegetation (pasturage and grass)	2 samples from local monitoring stations and 2 controls	Monthly	Gamma scan, ¹³¹ I monthly; ⁸⁹ Sr and ⁹⁰ Sr quarterly
Fruits and vegetables	1 sample of each principal food product grown at private gardens and/or farms in the immediate vicinity of the plant	Annually, at time of harvest	Gamma scan, ¹³¹ I on edible portion annually
	1 sample of each of the same foods grown at greater than 10 miles distance from the plant		
Poultry or meat	1 sample of poultry or meat from animals fed on crops grown within 10 miles of the facility	Annually	Gamma scan on edible portion annually
	1 sample of each of the same goods produced at locations greater than 10 miles distant from the plant		

TYPES AND LOCATIONS OF BIOLOGICAL SAMPLES COLLECTED
IN GUNTERSVILLE RESERVOIR IN RELATION
TO THE BELLEFONTE NUCLEAR PLANT

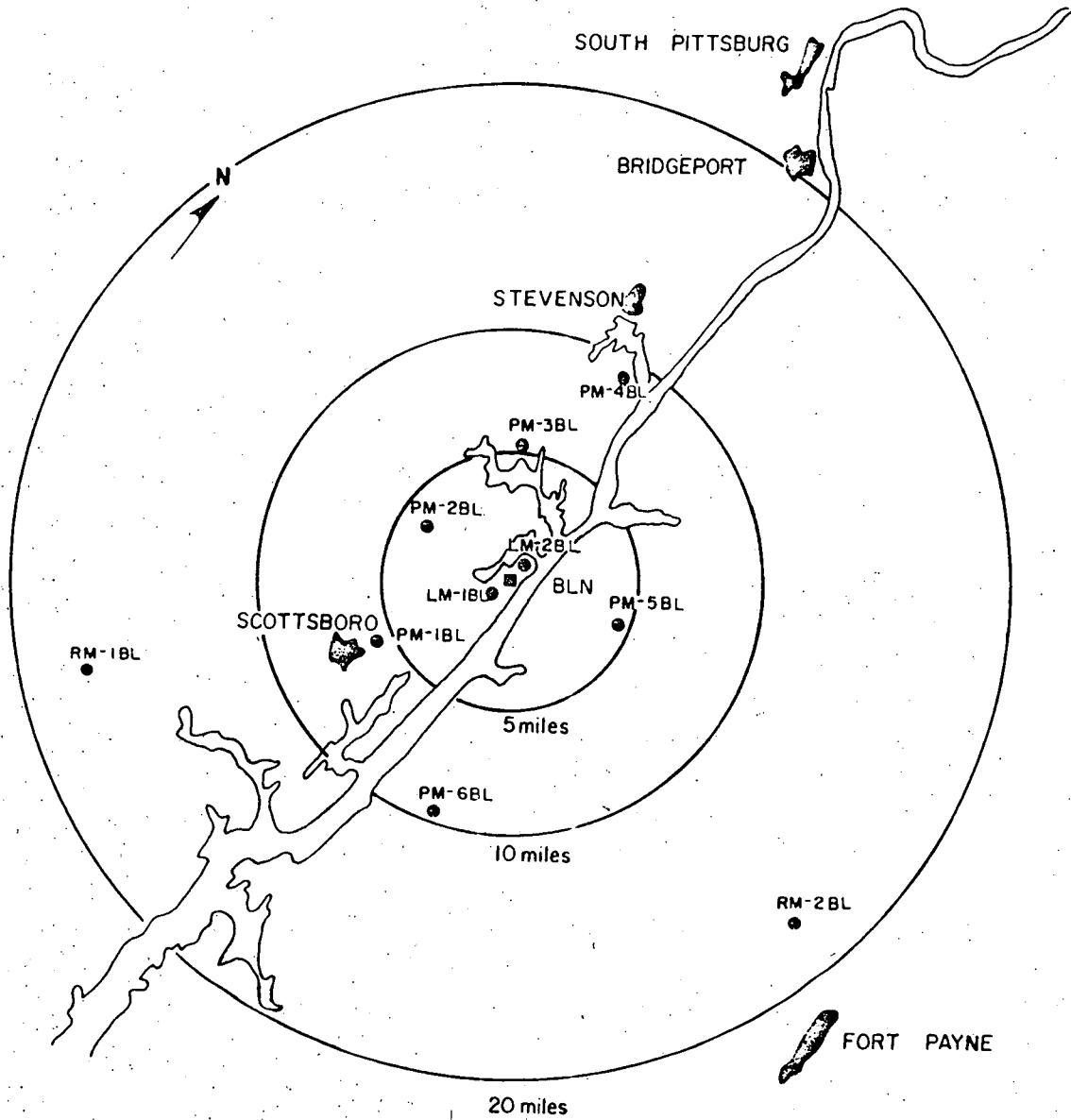
<u>TRM STATION</u>	<u>PLANKTON^a</u>	<u>BENTHIC FAUNA</u>	<u>MACROPHYTES</u>	<u>SEDIMENT</u>	<u>SHORELINE SEDIMENT^b</u>	<u>FISH^c</u>
396.8	X	X	X	X		
391.2	X	X	X	X		
388.0	X	X	X	X		

a. Vertical tows.

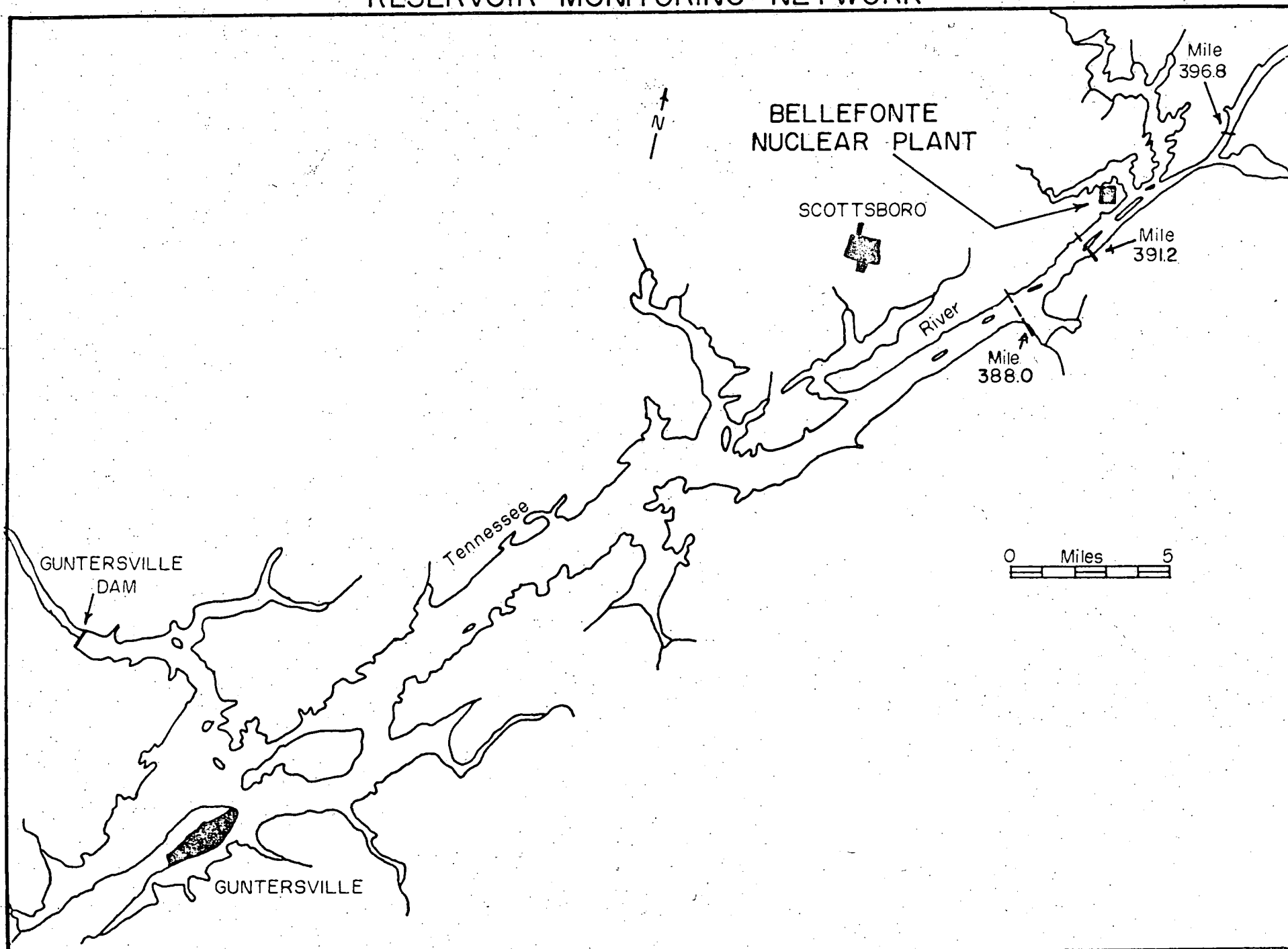
b. Locations to be determined.

c. Samples collected from Nickajack, Gunterville, and Wheeler reservoirs as a part of the Browns Ferry and Sequoyah Nuclear Plants monitoring programs.

BELLEFONTE NUCLEAR PLANT
ATMOSPHERIC AND
TERRESTRIAL MONITORING NETWORK



RESERVOIR MONITORING NETWORK



ENCLOSURE 2

COMPARISON OF CURRENT AND PROPOSED INTERIM
ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM AT BELLEFONTE NUCLEAR PLANT

<u>Exposure Pathway and/or Sample</u>	<u>Monitoring Program</u>	
	<u>Current Program</u>	<u>Proposed Interim Program</u>
AIRBORNE		
Particulates	10 samplers operated continuously with sample collection weekly	10 samplers operated continuously with sample collection every 2 weeks
Radioiodine ¹	10 samplers operated continuously with sample collection weekly	None
Fallout ²	Heavy particulate fallout collected continuously on gummed acetate paper with paper collection monthly from 10 locations	None
Rainwater ²	Rainwater collected continuously from 10 stations with composite sample analyzed monthly	None
DIRECT	2 or more dosimeters at approximately 40 locations Collection quarterly	2 or more dosimeters at approximately 40 locations Collection quarterly

1. Nuclear Regulatory Commission (NRC) Branch Technical Position suggests sampling this medium for six months prior to plant operation.
2. Sampling of this medium not included in NRC Branch Technical Position.

COMPARISON OF CURRENT AND PROPOSED INTERIM
ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM AT BELLEFONTE NUCLEAR PLANT
(Continued)

<u>Exposure Pathway and/or Sample</u>	<u>Monitoring Program</u>	
	<u>Current Program</u>	<u>Proposed Interim Program</u>
WATERBORNE		
Surface	3 grab samples taken quarterly	3 grab samples taken quarterly
Ground	8 locations, samples collected monthly	8 locations, samples collected quarterly ³
Drinking	4 locations, samples collected monthly	4 locations, samples collected quarterly
AQUATIC		
Sediment and Benthos	3 samples semiannually	3 samples semiannually
Shoreline Sediment ⁴	None	2 samples semiannually
Plankton and Aquatic Macrophytes	3 samples semiannually	3 samples semiannually
INGESTION		
Milk	1-4 samples monthly, depending on availability	1-4 samples monthly, depending on availability
Fish	9 samples semiannually (collected as part of Browns Ferry (BFN) and Sequoyah Nuclear Plants (SQN) monitoring programs)	9 samples semiannually (collected as part of BFN and SQN monitoring programs)

3. Operating License Environmental Report specifies sample collection quarterly from 2 locations.

4. Based on NRC Branch Technical Position.

COMPARISON OF CURRENT AND PROPOSED INTERIM
ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM AT BELLEFONTE NUCLEAR PLANT
(Continued)

<u>Exposure Pathway and/or Sample</u>	<u>Monitoring Program</u>	
	<u>Current Program</u>	<u>Proposed Interim Program</u>
Vegetation (pasturage and grass)	Samples taken quarterly from 12 locations	Samples taken monthly from 4 locations
Fruits and vegetables	2-12 samples annually depending on availability	2-12 samples annually depending on availability
Poultry or meat	2 samples of poultry or meat annually	2 samples of poultry or meat annually