

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

March 28, 1985

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. 50-390
Tennessee Valley Authority) 50-391

Please refer to TVA's letters dated March 20 and 21, 1985 which transmitted our response to your letter dated February 27, 1985 concerning the proposed Offsite Dose Calculation Manual (ODCM) for Watts Bar Nuclear Plant. Enclosed are several figures that were inadvertently omitted from our previous transmittals as well as a revision of pages 2 and 3 of table 3.1, "Radiological Environmental Monitoring Program."

If you have any questions concerning this matter, please get in touch with K. Mali at FTS 858-2682.

Very truly yours,

TENNESSEE VALLEY AUTHORITY



D. E. McCloud,
Nuclear Engineer

Sworn to and subscribed before me
this 28th day of Mar 1985.

Bryant M. Lowery
Notary Public

My Commission Expires 4/8/86

Enclosure

cc: U.S. Nuclear Regulatory Commission (Enclosure)
Region II
Attn: Dr. J. Nelson Grace, Regional Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

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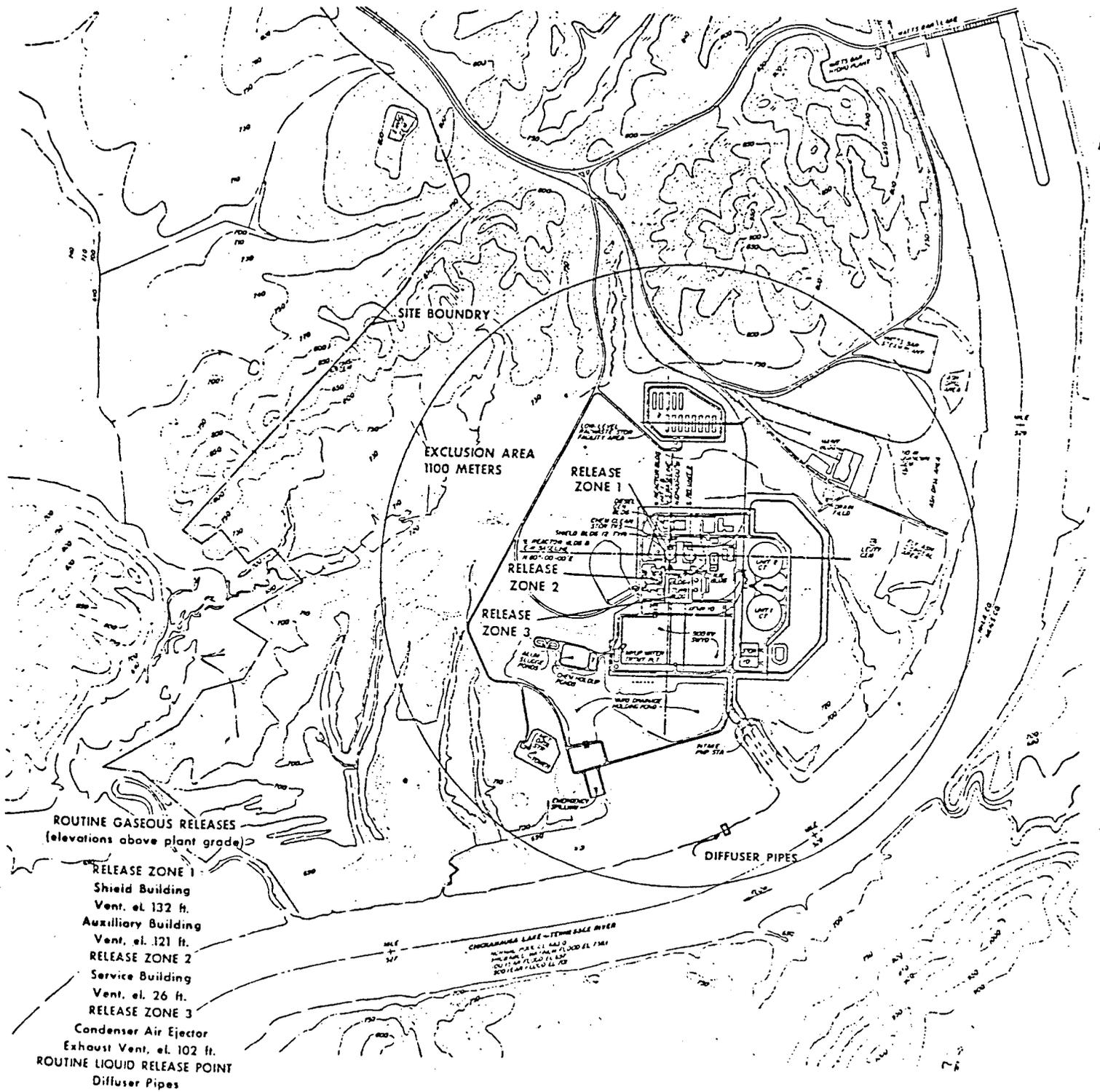


FIGURE 2.1
EXCLUSION AREA (UNRESTRICTED AREA) AND SITE BOUNDARY

TABLE 3.1

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

<u>Exposure Pathway and/or Sample</u>	<u>Sample Locations*</u>	<u>Sampling and Collection Frequency</u>	<u>Type and Frequency of Analysis</u>
c. Fallout	Samples from same locations as air particulates	Heavy particulate fallout collected continuously on gummed acetate paper with paper collection at least once per 31 days	Gross beta following collection
d. Rainwater	Samples from same locations as air particulates	Rainwater collected continuously with composite samples analyzed at least once per 31 days	Gamma scan, 89Sr, 90Sr at least once per 31 days
e. Soil	Samples from same locations as air particulates	Once per 3 years	Gamma scan, 89Sr, 90Sr once each 3 years
2. DIRECT	(Figures 3.2 and 3.3) 35-40 locations with at least 2 dosimeters for continuously measuring and recording dose rate at each location	At least once per 92 days	Gamma dose at least once per 92 days
3. WATERBORNE			
a. Surface	TRM 529.3 TRM 523.1 TRM 517.9 (Figure 3.4)	Collected by automatic sequential-type sampler** with composite sample collected over a period of \leq 31 days	Gamma scan of each composite. Composite for tritium, 89Sr and 90Sr at least once per 92 days
b. Ground	1 sample adjacent to plant (Table 3.2 and Figure 3.3g, Station W-1)	Collected by automatic sequential-type sampler with composite sample collected over a period at \leq 31 days	Gamma scan of each composite. Composite for tritium at least once per 92 days
	1 sample from ground water source upgradient (Table 3.2 and Figure 3.3, Station M-1)	Grab sample once per 31 days	Gamma scan once per 31 days. Composite for tritium at least once per 92 days.

^aThe sample collected at TRM 503.8 is taken from the raw water supply; therefore, the upstream surface water sample will be considered the control sample for drinking water.

Note: All river miles above the location of 527.4, i.e., 529.3, are upstream of the plant site while all below, i.e., 523.1, are downstream.

TABLE 3.1

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

<u>Exposure Pathway and/or Sample</u>	<u>Sample Locations*</u>	<u>Sampling and Collection Frequency</u>	<u>Type and Frequency of Analysis</u>
c. Drinking (Table 3.3) (Figure 3.4)	1 sample at the first pot- able surface water supply downstream from the plant (TRM 503.8, Figure 3.4)	Collected by automatic sequential-type sampler** with composite sample collected over a period of \leq 31 days.	
	1 sample at a control location (TRM 529.3, Figure 3.4)		Gross beta and gamma scan of each composite. Composite for tritium, 89Sr, and 90Sr at least once per 92 days
4. AQUATIC			
a. Sediment	TRM 527.4, Figure 3.4 TRM 532.1, Figure 3.4	At least once per 184 days	Gamma scan 89Sr, and 90Sr analyses of each sample
b. Sediment from shoreline	TRM 513, Figure 3.4 TRM 530, Figure 3.4	At least once per 184 days	Gamma scan on each sample
5. INGESTION			
a. Milk	1 sample from milk producing animals in each of 1-3 areas indicated by the cow census where doses are calculated \leq 0.5 m rem/year. If samples are unavailable from an area, doses to that area will be estimated by projecting the doses from concentrations detected in milk from other areas or by sampling vegetation where milk samples are not available.	At least once per 15 days (Table 3.2 and Figure 3.1)	131I analysis of each sample Gamma scan, 89Sr, and 90Sr at least once per 31 days

Note: All river miles above the location of 527.4, i.e., 529.3, are upstream of the plant site while all below, i.e., 523.1, are downstream.

Figure 3.4

RESERVOIR MONITORING NETWORK

