

January 24, 2008

Mr. William R. Campbell, Jr.  
Chief Nuclear Officer and  
Executive Vice President  
Tennessee Valley Authority  
6A Lookout Place  
1101 Market Street  
Chattanooga, TN 37402-2801

SUBJECT: TENNESSEE VALLEY AUTHORITY- REQUEST FOR ADDITIONAL  
INFORMATION REGARDING CHANGES TO THE NUCLEAR RADIOLOGICAL  
EMERGENCY PLAN (TAC NOS. MD7302 THROUGH MD7307)

Dear Mr. Campbell:

By letter dated November 2, 2007, the Tennessee Valley Authority (TVA), requested approval of a proposed change to the consolidated TVA Nuclear Radiological Emergency Plan. The proposed change would remove the provision for a mobile radioanalytical laboratory and would use only a fixed radioanalytical laboratory.

In order for the staff to complete its review of the information provided, we request that TVA provide responses to the enclosed request for additional information (RAI). Based on discussions with your staff, we understand that you plan to respond to the enclosed RAI by February 29, 2008. If you have any questions about this material, please contact me at (301) 415-3974.

Sincerely,

**/RA/**

Brendan T. Moroney, Project Manager  
Plant Licensing Branch II-2  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket Nos. 50-259, 50-260, 50-296  
50-327, 50-328 and 50-390

Enclosure: Request for Additional Information

cc: See next page

Mr. William R. Campbell, Jr.  
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Executive Vice President  
Tennessee Valley Authority  
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Chattanooga, TN 37402-2801

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Dear Mr. Campbell:

By letter dated November 2, 2007, the Tennessee Valley Authority (TVA), requested approval of a proposed change to the consolidated TVA Nuclear Radiological Emergency Plan. The proposed change would remove the provision for a mobile radioanalytical laboratory and would use only a fixed radioanalytical laboratory.

In order for the staff to complete its review of the information provided, we request that TVA provide responses to the enclosed request for additional information (RAI). Based on discussions with your staff, we understand that you plan to respond to the enclosed RAI by February 29, 2008. If you have any questions about this material, please contact me at (301) 415-3974.

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Brendan T. Moroney, Project Manager  
Plant Licensing Branch II-2  
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Office of Nuclear Reactor Regulation

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NRR-088

OFFICE	LPL2-2/PM	LPL2-2/LA	NSIR/BC	LPLwb/BC	LPL2-2/BC
NAME	BMoroney	RSola	KWilliams By e-mail dated	JWilliams	TBoyce
DATE	01/22/08	01/18/08	1/16/08	01/23/08	01/23/08/

REQUEST FOR ADDITIONAL INFORMATION  
CHANGES TO RADIOLOGICAL EMERGENCY PLAN

TENNESSEE VALLEY AUTHORITY

DOCKET NOS. 50-259, 50-260, 50-296, 50-327, 50-328 and 50-390

By letter dated November 2, 2007, Tennessee Valley Authority (TVA) requested U.S. Nuclear Regulatory Commission (NRC) approval of changes to the TVA Nuclear consolidated Radiological Emergency Plan, which is applicable to the Browns Ferry, Sequoyah and Watts Bar nuclear plants. The proposed change would remove the provision for a mobile radioanalytical laboratory and would use only a fixed radioanalytical laboratory.

In order for the NRC staff to complete its review of the information provided, we request that TVA provide responses to the following:

1. a. With relation to Browns Ferry, Sequoyah, and Watts Bar, where is the fixed lab located?
  - b. With relation to Browns Ferry, Sequoyah, and Watts Bar, where is the mobile lab located or normally stationed?
2. Explain how the removal of the mobile lab will influence the timeliness of radiological results for all durations of events. This should encompass augmentation times from the start of a release as well as the later hours and days of a postulated release.
3. a. Provide a description of the current staffing (number, qualifications, etc.) of the fixed and mobile radioanalytical labs.
  - b. Describe any staffing changes resulting from the proposed revision and justify any effects on the ability to perform radiological analyses.
4. a. Provide any documentation validating the "higher efficiency" and "better resolution" of the samples analyzed at the fixed radioanalytical lab.
  - b. The request indicated that the facilities in the fixed radioanalytical lab are capable of handling more active samples than the mobile radioanalytical lab. Please quantify the difference in capability.
  - c. Describe and justify any changes in the requirements of the currently-approved plan regarding the ability to maintain sampling capability.
5. a. What isotopes can the fixed radioanalytical lab detect?
  - b. What isotopes can the mobile radioanalytical lab detect?

Enclosure

6. What are the capabilities and quantities of each facility's other onsite radiological monitoring vehicles, i.e., number of radiological monitoring vehicles per site and what these vehicles can handle?
7. With regards to chemical and radiological laboratories or facilities, please explain their roles as they may pertain to interactions with either the fixed or mobile radioanalytical labs' duties during a radiological emergency?
8. Describe the interaction with local, state, and federal officials with regards to these facilities and any additional laboratories, fixed or mobile, which they will be committing to an event. Provide copies of any Letters of Agreement, Memoranda of Understanding, or any state/federal plans which may be applicable.
9. Describe and justify the impact that the proposed removal of the mobile radiological laboratory will have on the determination of each site's Emergency Action Levels and Protective Action Recommendations.
10. Provide copies of the revised Radiological Emergency Plan sections that are affected by the proposed change and are used to justify the responses to Questions 1 – 9 above.

William R. Campbell, Jr.  
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cc:

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**BROWNS FERRY NUCLEAR PLANT  
SEQUOYAH NUCLEAR PLANT  
WATTS BAR NUCLEAR PLANT**

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