MEMORANDUM TO: William D. Travers

**Executive Director for Operations** 

William Beecher, Director Office of Public Affairs

Dennis K. Rathbun, Director Office of Congressional Affairs

FROM: Annette Vietti-Cook, Secretary /s/

SUBJECT: STAFF REQUIREMENTS - SECY-99-099 - TRANSMITTAL OF THE STAFF'S SAFETY EVALUATION OF

DOE'S TOPICAL REPORT ON THE TRITIUM PRODUCTION CORE

This is to advise you that the Commission has not objected to the proposed issuance of the safety evaluation as NUREG-1672 and preparation of a *Federal Register* notice to announce the availability of the staff's safety evaluation related to DOE's topical report on the tritium production core.

Given the national importance of the tritium production mission, the staff should prepare for the Chairman's signature, a letter to notify the Secretary of Energy and the appropriate Congressional Committees of the SER's availability and general findings. A proposed draft is attached for the staff's consideration. OPA should prepare a press release for issuance to follow Congressional notification.

(EDO/OPA/OCA) (SECY Suspense: 6/11/99)

Before the SER is issued, the Background discussion on page 1-2 of the SER should be revised to acknowledge the Congressional direction to DOE, NRC, and others regarding policy issue identification and resolution by adding the following insert at the end of the first paragraph of page 1-2 of the SER.

"However, it should be noted that consistent with Congressional direction in the Conference Report on H. R. 1119, the National Defense Authorization Act for Fiscal Year 1998 (House Report 105-340), the Department of Energy involved NRC in the interagency policy discussions which led to the July 1998 report to Congress on the non-proliferation implications of alternative tritium production technologies."

In addition, on page 1-3, at the end of the first full paragraph add:

.... before the conclusion of a hearing). (See Section 4.2, Determination of No Significant Hazards Consideration).

On pages 4-1 and 4-2, amend the last paragraph of Chapter 4 to read as follows:

Before the Commission can reach a **final** determination regarding a no significant hazards consideration on any license amendment request, the staff must complete its plant-specific review. Accordingly, a **generic** no significant hazards determination cannot be made at this time, based wholly on the TPC topical report. However, any licensee who submits a plant specific application for an amendment to use tritium-producing burnable absorber rods may meet the no significant hazards consideration determination (which would allow the amendment to become effective before the conclusion of a hearing), providing that no additional significant issues beyond the scope of the topical report are identified in the license amendment request.

Attachment: As stated

cc: Chairman Jackson

Commissioner Dicus Commissioner Diaz Commissioner McGaffigan Commissioner Merrifield

OGC CIO

CFO OIG

Office Directors, Regions, ACRS, ACNW, ASLBP (via E-Mail)

PDR DCS

PDR

Dear Mr. Secretary/Member of Congress:

I am pleased to inform you that the Nuclear Regulatory Commission (NRC) staff has completed another milestone in its interaction with the Department of Energy's program to produce tritium in a commercial light water reactor. The staff has issued its safety evaluation report (SER) on the Department of Energy's topical report on the tritium production core.

Many technical issues have been satisfactorily addressed in the DOE topical report, according to the staff review. The topical report and the staff's SER should prove to be useful reference documents for a licensee preparing a specific license amendment request for authorization to irradiate a full-core load of tritium-producing burnable absorber rods in a particular reactor facility. In addition, the NRC staff review has identified several plant-specific interface issues and potential technical specification changes to be addressed in the license amendment application.

The NRC intends to continue to provide focused attention to DOE's tritium production needs and intends to carry out an expeditious and thorough review of any license amendments submitted by the Tennessee Valley Authority for production of tritium in the Watts Bar and Sequoyah plants.

[The following is a group of letters that were sent to Congress as a result of the Commission approving SECY-99-099]

May 25, 1999

The Honorable Frank Murkowski, Chairman Committee on Energy and Natural Resources United States Senate Washington, D.C. 20510

Dear Mr. Chairman:

I am pleased to inform you that the U.S. Nuclear Regulatory Commission (NRC) staff has completed another milestone in its interaction with the Department of Energy's (DOE) program to produce tritium in a commercial light water reactor. The staff has issued its safety evaluation report (SER) on the DOE topical report on the tritium production core.

Many technical issues have been satisfactorily addressed in the DOE topical report, according to the staff review. The topical report and the staff's SER should prove to be useful reference documents for a licensee preparing a specific license amendment request for authorization to irradiate a full-core load of tritium-producing burnable absorber rods in a particular reactor facility. In addition, the NRC staff review has identified several plant-specific interface issues and potential technical specification changes to be addressed in the license amendment application.

The NRC intends to continue to provide focused attention to DOE's tritium production needs and intends to carry out an expeditious and thorough review of any license amendments submitted by the Tennessee Valley Authority for production of tritium in the Watts Bar and Sequoyah plants.

Sincerely,

/s/ Shirley Ann Jackson

Shirley Ann Jackson

cc: Senator Jeff Bingaman

May 25, 1999

The Honorable John Warner, Chairman Committee on Armed Services United States Senate Washington, D.C. 20510

Dear Mr. Chairman:

I am pleased to inform you that the U.S. Nuclear Regulatory Commission (NRC) staff has completed another milestone in its interaction with the Department of Energy's (DOE) program to produce tritium in a commercial light water reactor. The staff has issued its safety evaluation report (SER) on the DOE topical report on the tritium production core.

Many technical issues have been satisfactorily addressed in the DOE topical report, according to the staff review. The topical report and the staff's SER should prove to be useful reference documents for a licensee preparing a specific license amendment request for authorization to irradiate a full-core load of tritium-producing burnable absorber rods in a particular reactor facility. In addition, the NRC staff review has identified several plant-specific interface issues and potential technical specification changes to be addressed in the license amendment application.

The NRC intends to continue to provide focused attention to DOE's tritium production needs and intends to carry out an expeditious and thorough review of any license amendments submitted by the Tennessee Valley Authority for production of

tritium in the Watts Bar and Sequoyah plants.

Sincerely,

/s/ Shirley Ann Jackson

Shirley Ann Jackson

cc: Senator Carl Levin

May 25, 1999

The Honorable Joe L. Barton, Chairman Subcommittee on Energy and Power Committee on Commerce United States House of Representatives Washington, D.C. 20515

Dear Mr. Chairman:

I am pleased to inform you that the U.S. Nuclear Regulatory Commission (NRC) staff has completed another milestone in its interaction with the Department of Energy's (DOE) program to produce tritium in a commercial light water reactor. The staff has issued its safety evaluation report (SER) on the DOE topical report on the tritium production core.

Many technical issues have been satisfactorily addressed in the DOE topical report, according to the staff review. The topical report and the staff's SER should prove to be useful reference documents for a licensee preparing a specific license amendment request for authorization to irradiate a full-core load of tritium-producing burnable absorber rods in a particular reactor facility. In addition, the NRC staff review has identified several plant-specific interface issues and potential technical specification changes to be addressed in the license amendment application.

The NRC intends to continue to provide focused attention to DOE's tritium production needs and intends to carry out an expeditious and thorough review of any license amendments submitted by the Tennessee Valley Authority for production of tritium in the Watts Bar and Sequoyah plants.

Sincerely,

/s/ Shirley Ann Jackson

Shirley Ann Jackson

cc: Representative Ralph M. Hall

May 25, 1999

The Honorable Pete V. Domenici, Chairman Subcommittee on Energy and Water Development Committee on Appropriations United States Senate Washington, D.C. 20510

Dear Mr. Chairman:

I am pleased to inform you that the U.S. Nuclear Regulatory Commission (NRC) staff has completed another milestone in its interaction with the Department of Energy's (DOE) program to produce tritium in a commercial light water reactor. The staff has issued its safety evaluation report (SER) on the DOE topical report on the tritium production core.

Many technical issues have been satisfactorily addressed in the DOE topical report, according to the staff review. The topical report and the staff's SER should prove to be useful reference documents for a licensee preparing a specific license amendment request for authorization to irradiate a full-core load of tritium-producing burnable absorber rods in a particular reactor facility. In addition, the NRC staff review has identified several plant-specific interface issues and potential technical specification changes to be addressed in the license amendment application.

The NRC intends to continue to provide focused attention to DOE's tritium production needs and intends to carry out an expeditious and thorough review of any license amendments submitted by the Tennessee Valley Authority for production of tritium in the Watts Bar and Sequoyah plants.

Sincerely,

/s/ Shirley Ann Jackson

cc: Senator Harry Reid

May 25, 1999

The Honorable Ron Packard, Chairman Subcommittee on Energy and Water Development Committee on Appropriations United States House of Representatives Washington, D.C. 20515

Dear Mr. Chairman:

I am pleased to inform you that the U.S. Nuclear Regulatory Commission (NRC) staff has completed another milestone in its interaction with the Department of Energy's (DOE) program to produce tritium in a commercial light water reactor. The staff has issued its safety evaluation report (SER) on the DOE topical report on the tritium production core.

Many technical issues have been satisfactorily addressed in the DOE topical report, according to the staff review. The topical report and the staff's SER should prove to be useful reference documents for a licensee preparing a specific license amendment request for authorization to irradiate a full-core load of tritium-producing burnable absorber rods in a particular reactor facility. In addition, the NRC staff review has identified several plant-specific interface issues and potential technical specification changes to be addressed in the license amendment application.

The NRC intends to continue to provide focused attention to DOE's tritium production needs and intends to carry out an expeditious and thorough review of any license amendments submitted by the Tennessee Valley Authority for production of tritium in the Watts Bar and Sequoyah plants.

Sincerely,

/s/ Shirley Ann Jackson

Shirley Ann Jackson

cc: Representative Peter J. Visclosky

May 25, 1999

The Honorable Floyd Spence, Chairman Committee on Armed Services United States House of Representatives Washington, D.C. 20515

Dear Mr. Chairman:

I am pleased to inform you that the U.S. Nuclear Regulatory Commission (NRC) staff has completed another milestone in its interaction with the Department of Energy's (DOE) program to produce tritium in a commercial light water reactor. The staff has issued its safety evaluation report (SER) on the DOE topical report on the tritium production core.

Many technical issues have been satisfactorily addressed in the DOE topical report, according to the staff review. The topical report and the staff's SER should prove to be useful reference documents for a licensee preparing a specific license amendment request for authorization to irradiate a full-core load of tritium-producing burnable absorber rods in a particular reactor facility. In addition, the NRC staff review has identified several plant-specific interface issues and potential technical specification changes to be addressed in the license amendment application.

The NRC intends to continue to provide focused attention to DOE's tritium production needs and intends to carry out an expeditious and thorough review of any license amendments submitted by the Tennessee Valley Authority for production of tritium in the Watts Bar and Sequoyah plants.

Sincerely,

/s/ Shirley Ann Jackson

Shirley Ann Jackson

cc: Representative Ike Skelton

The Honorable James M. Inhofe, Chairman Subcommittee on Clean Air, Wetlands, Private Property and Nuclear Safety Committee on Environment and Public Works United States Senate Washington, D.C. 20510

Dear Mr. Chairman:

I am pleased to inform you that the U.S. Nuclear Regulatory Commission (NRC) staff has completed another milestone in its interaction with the Department of Energy's (DOE) program to produce tritium in a commercial light water reactor. The staff has issued its safety evaluation report (SER) on the DOE topical report on the tritium production core.

Many technical issues have been satisfactorily addressed in the DOE topical report, according to the staff review. The topical report and the staff's SER should prove to be useful reference documents for a licensee preparing a specific license amendment request for authorization to irradiate a full-core load of tritium-producing burnable absorber rods in a particular reactor facility. In addition, the NRC staff review has identified several plant-specific interface issues and potential technical specification changes to be addressed in the license amendment application.

The NRC intends to continue to provide focused attention to DOE's tritium production needs and intends to carry out an expeditious and thorough review of any license amendments submitted by the Tennessee Valley Authority for production of tritium in the Watts Bar and Sequoyah plants.

Sincerely,

/s/ Shirley Ann Jackson

Shirley Ann Jackson

cc: Senator Bob Graham

May 25, 1999

The Honorable Bill Richardson Secretary of Energy Washington, D.C. 20585

Dear Mr. Secretary:

I am pleased to inform you that the U.S. Nuclear Regulatory Commission (NRC) staff has completed another milestone in its interaction with the Department of Energy's (DOE) program to produce tritium in a commercial light water reactor. The staff has issued its safety evaluation report (SER) on the DOE topical report on the tritium production core.

Many technical issues have been satisfactorily addressed in the DOE topical report, according to the staff review. The topical report and the staff's SER should prove to be useful reference documents for a licensee preparing a specific license amendment request for authorization to irradiate a full-core load of tritium-producing burnable absorber rods in a particular reactor facility. In addition, the NRC staff review has identified several plant-specific interface issues and potential technical specification changes to be addressed in the license amendment application.

The NRC intends to continue to provide focused attention to DOE's tritium production needs and intends to carry out an expeditious and thorough review of any license amendments submitted by the Tennessee Valley Authority for production of tritium in the Watts Bar and Sequoyah plants.

Sincerely,

/s/ Shirley Ann Jackson

Shirley Ann Jackson

cc: Stephen M. Sohinki

May 25, 1999

The Honorable John Chafee, Chairman Committee on Environment and Public Works United States Senate Washington, D.C. 20510

Dear Mr. Chairman:

I am pleased to inform you that the U.S. Nuclear Regulatory Commission (NRC) staff has completed another milestone in its interaction with the Department of Energy's (DOE) program to produce tritium in a commercial light water reactor. The staff has issued its safety evaluation report (SER) on the DOE topical report on the tritium production core.

Many technical issues have been satisfactorily addressed in the DOE topical report, according to the staff review. The topical report and the staff's SER should prove to be useful reference documents for a licensee preparing a specific license amendment request for authorization to irradiate a full-core load of tritium-producing burnable absorber rods in a particular reactor facility. In addition, the NRC staff review has identified several plant-specific interface issues and potential technical specification changes to be addressed in the license amendment application.

The NRC intends to continue to provide focused attention to DOE's tritium production needs and intends to carry out an expeditious and thorough review of any license amendments submitted by the Tennessee Valley Authority for production of tritium in the Watts Bar and Sequoyah plants.

Sincerely,

/s/ Shirley Ann Jackson

Shirley Ann Jackson

cc: Senator Max Baucus