

June 20, 2003

Mr. Atambir S. Rao, ESBWR Project Manager  
Nuclear Plant Projects  
General Electric Company  
175 Curtner Avenue, M/C 365  
San Jose, CA 95125-1014

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 4 RELATED TO  
ESBWR PRE-APPLICATION REVIEW (TAC NOS. MB6283 AND MB6801)

Dear Mr. Rao:

By letters dated August 30 and November 19, 2002, and January 9, 2003, General Electric Company (GE) submitted eight topical reports in support of the ESBWR pre-application review. The Nuclear Regulatory Commission (NRC) staff is performing a detailed review of these topical reports to ensure that the information is sufficiently complete to enable the NRC staff to reach a conclusion on the acceptability of these reports.

The NRC staff has determined that additional information is necessary to continue the review. Enclosure 1 contains requests for additional information (RAIs) regarding NEDC-33080P, "TRACG Qualification for ESBWR," NEDC-33083, "TRACG Application for ESBWR," NEDE-32176P, Rev. 2, "TRACG Model Description," and NEDE-32177P, "TRACG Qualification." These RAIs were sent to you via electronic mail on May 8, 2003, and were discussed with you on May 16 and May 22, 2003. A meeting is planned on June 25, 2003, to discuss these questions in detail. Please provide the requested information by July 31, 2003, so that the review can be completed in a timely manner. Partial submittals would be welcomed to minimize delays.

Pursuant to Title 10 of the *Code of Federal Regulations* (10 CFR) Section 2.790, we have determined that the enclosed RAI does not contain proprietary information. However, we will delay placing the RAI in the public document room for a period of 10 working days from the date of this letter to provide you with the opportunity to comment on the proprietary aspects only. If you believe that any information in the RAI is proprietary, please identify such information line by line and define the basis pursuant to the criteria of 10 CFR 2.790.

If you have any questions or comments concerning this matter, you may contact me at (301) 415-2875 or [aec@nrc.gov](mailto:aec@nrc.gov).

Sincerely,

**/RA/**

Amy E. Cabbage, ESBWR Project Manager  
New Reactor Licensing Project Office  
Office of Nuclear Reactor Regulation

Project No. 717

Enclosure: As stated

cc: See next page

June 20, 2003

Mr. Atambir S. Rao, ESBWR Project Manager  
Nuclear Plant Projects  
General Electric Company  
175 Curtner Avenue, M/C 365  
San Jose, CA 95125-1014

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 4 RELATED TO  
ESBWR PRE-APPLICATION REVIEW (TAC NOS. MB6283 AND MB6801)

Dear Mr. Rao:

By letters dated August 30 and November 19, 2002, and January 9, 2003, General Electric Company (GE) submitted eight topical reports in support of the ESBWR pre-application review. The Nuclear Regulatory Commission (NRC) staff is performing a detailed review of these topical reports to ensure that the information is sufficiently complete to enable the NRC staff to reach a conclusion on the acceptability of these reports.

The NRC staff has determined that additional information is necessary to continue the review. Enclosure 1 contains requests for additional information (RAIs) regarding NEDC-33080P, "TRACG Qualification for ESBWR," NEDC-33083, "TRACG Application for ESBWR," NEDE-32176P, Rev. 2, "TRACG Model Description," and NEDE-32177P, "TRACG Qualification." These RAIs were sent to you via electronic mail on May 8, 2003, and were discussed with you on May 16 and May 22, 2003. A meeting is planned on June 25, 2003, to discuss these questions in detail. Please provide the requested information by July 31, 2003, so that the review can be completed in a timely manner. Partial submittals would be welcomed to minimize delays.

Pursuant to Title 10 of the *Code of Federal Regulations* (10 CFR) Section 2.790, we have determined that the enclosed RAI does not contain proprietary information. However, we will delay placing the RAI in the public document room for a period of 10 working days from the date of this letter to provide you with the opportunity to comment on the proprietary aspects only. If you believe that any information in the RAI is proprietary, please identify such information line by line and define the basis pursuant to the criteria of 10 CFR 2.790.

If you have any questions or comments concerning this matter, you may contact me at (301) 415-2875 or [aec@nrc.gov](mailto:aec@nrc.gov).

Sincerely,

*/RA/*

Amy E. Cabbage, ESBWR Project Manager  
New Reactor Licensing Project Office  
Office of Nuclear Reactor Regulation

Project No. 717

Enclosure: As stated

cc: See next page

Distribution: See next page

DOCUMENT NAME: C:\ORPCheckout\FileNET\ML031610516.wpd

ACCESSION NO. ML031610505-Pkg. \* See previous concurrence

OFFICE	NRLPO/PM	SRXB/SC	NRLPO/DD
NAME	ACabbage	FAkstulewicz*	JWilliams
DATE	6/18/2003	6/11/2003	6/19/2003

**OFFICIAL RECORD COPY**

Distribution for Request For Additional Information dated June 20, 2003

Hard Copy

PUBLIC

NRLPO R/F

ACabbage

MGamberoni

E-Mail

NRLPO Grp. BBorchardt

ACRS OGC

JWermiel RLandry

SColpo GThomas

MRazzaque EThrom

ADrozd RMcIntyre

JHan JStaudenmeier

JKelly DBesette

WKrotiuk ANotafrancesco

ESBWR

cc:

C. J. Deacon  
Manager, Advanced Reactor Programs  
GE Nuclear Energy  
175 Curtner Avenue, MC 365  
San Jose, CA 95125 USA

J. Alan Beard  
GE Nuclear Energy  
13113 Chestnut Oak Drive  
Darnestown, MD 20878-3554

Atambir Rao  
Project Manager, ESBWR  
GE Nuclear Energy  
175 Curtner Avenue, MC 365  
San Jose, CA 95125 USA

Mr. Kelly R. Fletcher, Manager  
Business Development and Advanced  
Technologies  
GE Nuclear Energy  
175 Curtner Avenue, MC 784  
San Jose, CA 95125

Mr. David Lochbaum, Nuclear Safety Engineer  
Union of Concerned Scientists  
1707 H Street, NW., Suite 600  
Washington, DC 20006-3919

Dr. Gail H. Marcus  
U.S. Department of Energy  
Office of Nuclear Energy, Science  
& Technology  
1000 Independence Avenue, SW  
Washington, DC 20585

Mr. Paul Gunter  
Nuclear Information & Resource Service  
1424 16th Street, NW, Suite 404  
Washington, DC 20036

Mr. James Riccio  
Greenpeace  
702 H Street, Suite 300  
Washington, DC 20001

Mr. Ron Simard  
Nuclear Energy Institute  
Suite 400  
1776 I Street, NW  
Washington, DC 20006-3708

Mr. Thomas P. Miller  
U.S. Dept. of Energy, NE-20, Rm. A286  
Headquarters - Germantown  
19901 Germantown Road  
Germantown, MD 20874-1290

Mr. Paul Leventhal  
Nuclear Control Institute  
1000 Connecticut Avenue, NW  
Suite 410  
Washington, DC 20036

Mr. Jack W. Roe  
SCIENTECH, INC.  
910 Clopper Road  
Gaithersburg, MD 20878

Mr. David Ritter  
Research Associate on Nuclear Energy  
and Environmental Program  
215 Pennsylvania Avenue, SE  
Washington, DC 20003

Mr. Tom Clements  
6703 Gude Avenue  
Takoma Park, MD 20912

Patricia Campbell  
Winston & Strawn  
1400 L Street, NW  
Washington, DC 20005

Mr. James F. Mallay, Director  
Regulatory Affairs  
FRAMATOME, ANP  
3315 Old Forest Road  
Lynchburg, VA 24501

Mr. Vince Langman  
Licensing Manager  
Atomic Energy of Canada Limited  
2251 Speakman Drive  
Mississauga, Ontario  
Canada L5K 1B2

Mr. Gary Wright, Manager  
Office of Nuclear Facility Safety  
Illinois Department of Nuclear Safety  
1035 Outer Park Drive  
Springfield, IL 62704

Mr. Charles Brinkman  
Westinghouse Electric Co.  
Washington Operations  
12300 Twinbrook Pkwy., Suite 330  
Rockville, MD 20852

Mr. Michael M. Corletti  
Passive Plant Projects & Development  
AP600 & AP1000 Projects  
Westinghouse Electric Company  
Post Office Box 355  
Pittsburgh, Pennsylvania 15230-0355

Mr. Ed Rodwell, Manager  
Advanced Nuclear Plants' Systems  
Electric Power Research Institute  
3412 Hillview Avenue  
Palo Alto, CA 94304-1395