



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION II  
SAM NUNN ATLANTA FEDERAL CENTER  
61 FORSYTH STREET, SW, SUITE 23T85  
ATLANTA, GEORGIA 30303-8931

October 12, 2006

Tennessee Valley Authority  
ATTN: Mr. Karl W. Singer  
Chief Nuclear Officer and  
Executive Vice President  
6A Lookout Place  
1101 Market Street  
Chattanooga, TN 37402-2801

SUBJECT: NOTIFICATION OF WATTS BAR NUCLEAR POWER PLANT - COMPONENT  
DESIGN BASES INSPECTION - NRC INSPECTION REPORT  
05000390/2007006

Dear Mr. Singer:

The purpose of this letter is to notify you that the U.S. Nuclear Regulatory Commission (NRC) Region II staff will conduct a component design bases inspection at your Watts Bar Nuclear Power Plant during the weeks of February 12-16, 2007, February 26-March 2, 2007, and March 5-9, 2007. The inspection team will be led by Steve Rose, a Senior Reactor Inspector from the NRC's Region II Office. This inspection will be conducted in accordance with the baseline inspection procedure, Procedure 71111.21, Component Design Bases Inspection, issued June 22, 2006.

The inspection will evaluate the capability of risk significant / low margin components to function as designed and support proper system operation. The inspection will also include a review of selected operator actions, operating experience, and modifications.

During a telephone conversation on October 11, 2006, Mr. Moore of the Region II staff confirmed with Mr. Brian Thomas of your staff, arrangements for an information gathering site visit and the three-week onsite inspection. The schedule is as follows:

- Information gathering visit: Week of January 29-February 2, 2007.
- Onsite weeks: February 12-16, 2007, February 26-March 2, 2007, and March 5-9, 2007.

The purpose of the information gathering visits is to meet with members of your staff to identify risk-significant components and operator actions. Information and documentation needed to support the inspection will also be identified. Mr. Rudy Bernhard, a Region II Senior Reactor Analyst, may accompany Mr. Rose during the information gathering visit to review probabilistic risk assessment data and identify risk significant components which will be examined during the inspection.

The enclosure lists documents that will be needed prior to the information gathering visit. Please provide this information to the Atlanta office by January 15, 2007. Please contact Mr. Moore or Mr. Rose prior to preparing copies of the materials listed in the enclosure.

The inspectors will try to minimize your administrative burden by specifically identifying only those documents required for the inspection preparation.

During the information gathering visit, the team leader will also discuss the following inspection support administrative details: office space, supplemental documents requested to be made available to the team in the Region II office prior to the inspection preparation week of February 5, 2007; arrangements for site access; and the availability of knowledgeable plant engineering and licensing personnel to serve as points of contact during the inspection.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Thank you for your cooperation in this matter. Should you have any questions concerning this information requested or the inspection, please contact Mr. Randy Moore at (404) 562-4628, Mr. Steve Rose (404) 562 4609, or me at (404) 562-4605.

Sincerely,

**/RA/**

Scott Freeman, Acting Chief  
Engineering Branch 1  
Division of Reactor Safety

Docket Nos. 50-390  
License No. NPF-90

Enclosure: Information Request for Watts Bar Nuclear Power Plant  
Component Design Bases Inspection

cc w/encl - See page 3

cc w/encl:

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Component Design Bases Inspection

cc w/encl - See page 3

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E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

## **INFORMATION REQUEST FOR WATTS BAR NUCLEAR POWER PLANT COMPONENT DESIGN BASES INSPECTION**

Please provide the information electronically in “.pdf” files, Excel, or other searchable format on CDROM. The CDROM should be indexed and hyperlinked to facilitate ease of use. Information in “lists” should contain enough information to be easily understood to someone who has a knowledge of pressurized water reactor technology.

1. Risk ranking of components from your site specific probabilistic safety analysis (PSA) sorted by Risk Achievement Worth (RAW) and sorted separately by Birnbaum Importance. If possible, please provide a correlation between actual plant components in plain language, and RAW values.
2. Provide a list of the top 500 cut sets from your PSA.
3. Risk ranking of operator actions from your site specific PSA sorted by RAW. Provide copies of your human reliability worksheets for these items.
4. If you have an External Event or Fire PSA Model, provide the information requested in Items 1 and 2 for external events and fire.
5. Any pre-existing evaluation or list of components and calculations with low design margins (i.e., pumps closest to the design limit for flow or pressure, diesel generator close to design required output, heat exchangers close to rated design heat removal, MOV risk-margin rankings, etc.).
6. A list of the last two years of operating experience evaluations, modifications, and corrective actions sorted by component or system. (Safety related systems only)
7. Information of any common cause failure of components experienced in the last 5 years at your facility.
8. Contact person to discuss PRA information prior to bag man trip: phone number and e-mail address.
9. List of equipment on “Station Equipment Problem List”, list of equipment in GL 91-18 status, list of equipment in MR(a)(1) status, list of equipment for which operability evaluation was required in past 2 years.
10. A list of failed or missed Technical specification required surveillance for past 2 years (via PER, work order, etc.)

Enclosure