



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

August 14, 2009

Mr. Ashok S. Bhatnagar  
Senior Vice President  
Nuclear Generation Development  
and Construction  
Tennessee Valley Authority  
6A Lookout Place  
1101 Market Street  
Chattanooga, TN 37402-2801

SUBJECT: WATTS BAR NUCLEAR PLANT, UNIT 2 – CONFIRMATION OF SCHEDULE  
FOR SUBMISSION OF INFORMATION TO SUPPORT OPERATING LICENSE  
APPLICATION REVIEW

Dear Mr. Bhatnagar:

The Tennessee Valley Authority (TVA) has recently updated its schedule reflecting the remaining topics to be submitted in support of the operating license application for Watts Bar Nuclear Plant, Unit 2. The schedule provides the anticipated dates that TVA will provide information amending the final safety analysis report to the Nuclear Regulatory Commission (NRC). On the basis of its review of the schedule, the NRC anticipates receiving information on the topic sections listed in the enclosure to this letter before October 31, 2009. Therefore, the NRC staff requests that TVA verifies the Safety Evaluation Report sections to be provided on November 27, 2009, and includes all anticipated items.

If you should have any questions, please contact Ayanna Rice at 301-415-5490.

Sincerely,

A handwritten signature in black ink, appearing to read "Patrick D. Milano", is located below the "Sincerely," text.

Patrick D. Milano, Senior Project Manager  
Plant Licensing Branch III-1  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket No. 50-391

Enclosure:  
Status of Submittal Items for  
September – November 2009

cc w/encl: Distribution via Listserv

Expected Submittal of Topic Items  
Related to the Safety Evaluation Report (SER)  
Between September and November 2009

SER Section	Title	Expected Due Date
1.5.0	SUMMARY OF PRINCIPAL REVIEW MATTERS	11/27/2009
1.9.0	LICENSE CONDITIONS	11/27/2009
2.4.6	ULTIMATE HEAT SINK	11/27/2009
3.0.0	DESIGN OF STRUCT, COMP, EQUIP, & SYS	11/27/2009
3.1.0	INTRODUCTION	11/27/2009
3.1.1	CONFORMANCE W/ GEN DESIGN CRITERIA	11/27/2009
3.1.2	CONFORMANCE W/ INDUST CODES & STAND	11/27/2009
3.2.0	CLASS OF STRUCT, SYS, & COMP	11/27/2009
3.2.1	SEISMIC CLASSIFICATIONS	11/27/2009
3.2.2	SYS QUALITY GROUP CLASSIFICATIONS	11/27/2009
3.5.0	MISSILE PROTECTION	11/27/2009
3.5.1	MISSILE SELECTION & DESCRIPTION	11/27/2009
3.5.2	STRUCT, SYS, COMP TO BE PROTECTED	11/27/2009
3.5.3	BARRIER DESIGN STRUCTURES	11/27/2009
3.6.0	PROTECT AGAINST EFFECTS PIPE RUPTURE	11/27/2009
3.6.1	PLANT DESIGN PROTECT FROM PIPE FAIL	11/27/2009
3.6.2	DETERMINE BRK LOCATION PIPE RUPTURES	11/27/2009
3.6.3	LEAK-BEFORE-BREAK EVALUATION PROCED	11/27/2009
3.10.0	SEISMIC & DYNAMIC QUAL OF EQUIP	11/27/2009
4.0.0	REACTOR	11/27/2009
4.1.0	INTRODUCTION	11/27/2009
4.2.0	FUEL SYSTEM DESIGN	11/27/2009
4.2.1	DESCRIPTION	11/27/2009
4.2.2	THERMAL PERFORMANCE	11/27/2009
4.2.3	MECHANICAL PERFORMANCE	11/27/2009
4.2.4	SURVEILLANCE	11/27/2009
4.2.5	FUEL DESIGN CONSIDERATIONS	11/27/2009
4.3.0	NUCLEAR DESIGN	11/27/2009
4.3.1	DESIGN BASIS	11/27/2009
4.3.2	DESIGN DESCRIPTION	11/27/2009
4.3.3	ANALYTICAL METHODS	11/27/2009
4.3.4	SUMMARY OF EVALUATION FINDINGS	11/27/2009
4.4.0	THERMAL-HYDRAULIC DESIGN	11/27/2009
4.4.1	PERFORMANCE IN SAFETY CRITERIA	11/27/2009
4.4.2	DESIGN BASES	11/27/2009
4.4.3	THERMAL-HYDRAULIC DESIGN METHODOLOGY	11/27/2009
4.4.4	OPERATING ABNORMALITIES	11/27/2009
4.4.6	THERMAL-HYDRAULIC COMPARISON	11/27/2009
4.4.7	N-1 LOOP OPERATION	11/27/2009
4.4.9	SUMMARY & CONCLUSION	11/27/2009
4.6.0	FUNCTIONAL DESIGN OF REACTIVITY SYS	11/27/2009
5.2.1	COMPLIANCE W/ CODES & CODE CASES	11/27/2009
5.4.2	STEAM GENERATORS	11/27/2009

**Enclosure**

5.4.4	PRESSURIZER RELIEF TANK	11/27/2009
6.2.5	COMBUSTIBLE GAS CONTROL SYSTEMS	11/27/2009
6.2.7	FRACTURE PREVENTION OF CONTAINMENT	11/27/2009
6.3.0	EMERGENCY CORE COOLING SYSTEM	11/27/2009
6.3.1	SYSTEM DESIGN	11/27/2009
6.3.2	EVALUATION	11/27/2009
6.3.3	TESTING	11/27/2009
6.3.4	PERFORMANCE EVALUATION	11/27/2009
6.3.5	CONCLUSIONS	11/27/2009
6.6.0	INSERVICE INSPECT OF CLASS 2 & 3 COMP	11/27/2009
7.3.0	ENGINEERED SAFETY FEATURES SYSTEM	11/27/2009
7.3.1	SYSTEM DESCRIPTION	11/27/2009
7.3.2	CONTAINMENT SUMP LEVEL MEASUREMENT	11/27/2009
7.3.3	AUX FEEDWATER INITIAION & CONTROL	11/27/2009
7.3.4	FAILURE MODES & EFFECTS ANALYSIS	11/27/2009
7.3.5	IE BULLETIN 80-06	11/27/2009
7.3.6	CONCLUSIONS	11/27/2009
7.4.0	SYSTEMS REQUIRED FOR SAFE SHUTDOWN	11/27/2009
7.4.1	SYSTEM DESCRIPTION	11/27/2009
7.4.2	SAFE SHUTDOWN FROM AUX CONTROL ROOM	11/27/2009
7.4.3	CONCLUSIONS	11/27/2009
7.7.3	VOLUME CONTROL TANK LVL CONTROL SYS	11/27/2009
8.1.0	GENERAL	11/27/2009
8.2.1	COMPLIANCE WITH GDC 5	11/27/2009
8.2.2	COMPLIANCE WITH GDC 17	11/27/2009
8.2.3	COMPLIANCE WITH GDC 18	11/27/2009
8.2.4	EVALUATION FINDINGS	11/27/2009
8.3.0	ONSITE POWER SYSTEMS	11/27/2009
8.3.1	ONSITE AC PWR SYS COMPLIANCE W/ GDC17	11/27/2009
8.3.2	ONSITE DC SYS COMPLIANCE WITH GDC 17	11/27/2009
8.3.3	EVALUATION FINDINGS	11/27/2009
8.4.0	STATION BLACKOUT	11/27/2009
9.1.1	NEW FUEL STORAGE	11/27/2009
9.1.2	SPENT FUEL STORAGE	11/27/2009
9.2.0	WATER SYSTEMS	11/27/2009
9.2.1	ERCW & RCWS	11/27/2009
9.2.2	COMPONENT COOLING SYSTEM	11/27/2009
9.2.3	DEMINERALIZED WATER MAKEUP SYSTEM	11/27/2009
9.2.4	POTABLE & SANITARY WATER SYSTEMS	11/27/2009
9.2.5	ULTIMATE HEAT SINK	11/27/2009
9.2.6	CONDENSATE STORAGE FACILITIES	11/27/2009
9.3.3	EQUIP & FLOOR DRAINAGE SYSTEM	11/27/2009
9.4.4	TURBINE BUILDING ARE VENT SYS	11/27/2009
9.5.2	COMMUNICATIONS SYSTEM	11/27/2009
9.5.3	LIGHTING SYSTEMS	11/27/2009
9.5.4	EMERG DIESEL GEN FUEL OIL STORAGE	11/27/2009
9.5.5	EMERG DIESEL GEN COOLING WATER SYS	11/27/2009

9.5.6	EMERG DIESEL GEN STARTING SYS	11/27/2009
9.5.8	EMERG DIESEL GEN INTAKE & EXHAUST SYS	11/27/2009
10.1.0	SUMMARY DESCRIPTION	11/27/2009
10.2.0	TURBINE GENERATOR	11/27/2009
10.2.1	TURBINE GENERATOR DESIGN	11/27/2009
10.2.2	TURBINE DISC INTEGRITY	11/27/2009
10.3.0	MAIN STEAM SUPPLY SYSTEM	11/27/2009
10.3.1	MAIN STEAM SUPPLY SYS INCLUDE VALVES	11/27/2009
10.3.2	MAIN STEAM SUPPLY SYS	11/27/2009
10.3.3	STEAM & FEEDWATER SYS MATERIALS	11/27/2009
10.3.4	SECONDARY WATER CHEMISTRY	11/27/2009
10.4.1	MAIN CONDENSER	11/27/2009
10.4.2	MAIN CONDENSER EVACUATION SYS	11/27/2009
10.4.4	TURBINE BYPASS SYSTEM	11/27/2009
11.0.0	RADIOACTIVE WASTE MANAGEMENT	11/27/2009
11.1.0	SUMMARY DESCRIPTION	11/27/2009
11.2.0	LIQUID WASTE MANAGEMENT	11/27/2009
11.3.0	GASEOUS WASTE MANAGEMENT	11/27/2009
11.4.0	SOLID WASTE MANAGEMENT	11/27/2009
11.5.0	PROCESS & EFFLUENT RADIOLOGICAL MON	11/27/2009
11.6.0	EVALUATION FINDINGS	11/27/2009
11.7.0	NUREG-0737 ITEMS	11/27/2009
11.7.1	WIDE RANGE NOBLE GAS & IODINE	11/27/2009
11.7.2	PRIMARY COOLANT OUTSIDE CONTAINMENT	11/27/2009
12.0.0	RADIATION PROTECTION	11/27/2009
12.1.0	GENERAL	11/27/2009
12.2.0	ASSURING THAT OCCUP RADIATION EXPOSE	11/27/2009
12.3.0	RADIATION SOURCES	11/27/2009
12.4.0	RADIATION PROTECT DESIGN FEATURES	11/27/2009
12.5.0	DOSE ASSESSMENT	11/27/2009
12.6.0	HEALTH PHYSICS PROGRAM	11/27/2009
12.7.0	NUREG-0737 ITEMS	11/27/2009
12.7.1	PLANT SHIELDING	11/27/2009
12.7.2	HIGH RANGE INCONTAINMENT MONITOR	11/27/2009
12.7.3	INPLANT RADIOIODINE MONITOR	11/27/2009
13.1.0	ORG STRUCTURE OF THE APPLICANT	11/27/2009
13.1.1	MANAGEMENT & TECHNICAL ORG	11/27/2009
13.1.2	CORPORATE ORG & TECH SUPPORT	11/27/2009
13.1.3	PLANT STAFF ORGANIZATION	11/27/2009
13.2.0	TRAINING	11/27/2009
13.2.1	LICENSED OPERATOR TRAINING PROGRAM	11/27/2009
13.2.2	TRAINING FOR NONLICENSED PERSONNEL	11/27/2009
13.3.0	EMERGENCY PREPAREDNESS EVALUATION	11/27/2009
13.3.1	INTRODUCTION	11/27/2009
13.3.2	EVALUATIONS OF THE EMERGENCY PLAN	11/27/2009
13.3.3	CONCLUSIONS	11/27/2009
13.4.0	REVIEW & AUDIT	11/27/2009
15.3.6	ANTICIPATED TRANSIENT WITHOUT SCRAM	11/27/2009

Mr. Ashok S. Bhatnagar  
Senior Vice President  
Nuclear Generation Development  
and Construction  
Tennessee Valley Authority  
6A Lookout Place  
1101 Market Street  
Chattanooga, TN 37402-2801

SUBJECT: WATTS BAR NUCLEAR PLANT, UNIT 2 – CONFIRMATION OF SCHEDULE  
FOR SUBMISSION OF INFORMATION TO SUPPORT OPERATING LICENSE  
APPLICATION REVIEW

Dear Mr. Bhatnagar:

The Tennessee Valley Authority (TVA) has recently updated its schedule reflecting the remaining topics to be submitted in support of the operating license application for Watts Bar Nuclear Plant, Unit 2. The schedule provides the anticipated dates that TVA will provide information amending the final safety analysis report to the Nuclear Regulatory Commission (NRC). On the basis of its review of the schedule, the NRC anticipates receiving information on the topic sections listed in the enclosure to this letter before October 31, 2009. Therefore, the NRC staff requests that TVA verifies the Safety Evaluation Report sections to be provided on November 27, 2009, and includes all anticipated items.

If you should have any questions, please contact Ayanna Rice at 301-415-5490.

Sincerely,  
/RA/

Patrick D. Milano, Senior Project Manager  
Plant Licensing Branch III-1  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket No. 50-391

Enclosure:  
Status of Submittal Items for  
September – November 2009

cc w/encl: Distribution via Listserv

<u>DISTRIBUTION:</u>	RidsOgcRp Resource	A. Rice
PUBLIC	RidsNrrDorLPwb Resource	RidsNrrDorIDpr Resource
LPWB Reading File	RidsNrrLABClayton Resource	RidsAcrsAcnw_MailCTR Resource
RidsNrrPMWattsBar2 Resource	RidsRgn2MailCenter Resource	

ADAMS Accession No.: ML092170587

OFFICE	DORL/CPA/PPM	LW/LA	LPWB/PM	LPWB/PM	LPWB/BC
NAME	ARice	BClayton	PMilano	JWiebe	LRaghavan
DATE	08/14 /09	08/ 13 /09	08/ 14 /09	08/ 14 /09	08/ 14 /09

OFFICIAL AGENCY RECORD