



Tennessee Valley Authority, 1101 Market Street, Chattanooga, Tennessee 37402

CNL-15-233

November 2, 2015

10 CFR 50.4  
10 CFR 50.55a

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555-0001

Watts Bar Nuclear Plant, Unit 2  
Facility Operating License No. NPF-96  
NRC Docket No. 50-391

Subject: **Submittal of the American Society of Mechanical Engineers (ASME)  
Section III Form N-3 Owner's Data Report for Nuclear Power Plant  
Components**

The purpose of this letter is to submit the Watts Bar Nuclear Plant (WBN), Unit 2, American Society of Mechanical Engineers (ASME) Section III, Form N-3 Owner's Data Report for Nuclear Power Plant Components. The enclosed Form N-3 Owner's Data Report is provided in accordance with ASME Section III requirements. This document indicates that all ASME Section III activities on WBN Unit 2 have been completed and the jurisdiction of the governing ASME Code for WBN Unit 2 has transferred from ASME Section III to ASME Section XI. The listed documents are available for review at the WBN site in the record management system.

There are no new regulatory commitments contained in this letter. Please contact Gordon Arent at (423) 365-2004 if there are questions regarding this submittal.

Respectfully,

J. W. Shea  
Vice President, Nuclear Licensing

Enclosure:

Form N-3 Owner's Data Report for Nuclear Power Plant Components

cc (Enclosure):

NRC Regional Administrator – Region II  
NRC Senior Resident Inspector – Watts Bar Nuclear Plant, Unit 1  
NRC Senior Resident Inspector – Watts Bar Nuclear Plant, Unit 2  
NRC Project Manager – Watts Bar Nuclear Plant, Unit 1 and Unit 2

**ENCLOSURE**

**WATTS BAR NUCLER PLANT, UNIT 2**

**FORM N-3 OWNER'S DATA REPORT  
FOR NUCLEAR POWER PLANT COMPONENTS**

**FORM N-3 OWNER'S DATA REPORT FOR NUCLEAR POWER PLANT COMPONENTS\***  
As Required by the Provisions of the ASME Code, Section III

1. Name of Owner TVA dba Nuclear Construction (TVA NC)

2. Address of Owner 1270 Nuclear Plant Road, Spring City, Tennessee 37381

3. Name of power plant Watts Bar Nuclear Power Plant Unit 2 2 N/A  
(Unit no.) (National Bd. no.)

4. Location of power plant 1270 Nuclear Plant Road, Spring City, Tennessee 37381

5. NUCLEAR VESSELS (List all nuclear concrete and metallic vessels or core supports and attach copies of all N and NPT Certificate Holders Data Reports. Forms N-1, N-1A, N-2, NCS-1 and C-1.)

Certificate Holder and Serial Number	State No. or CRN	National Bd. No.	Year Built
See Attachment A	N/A	N/A	See Attachment A

Refer to N-5 *Partial* Data Reports Page 1, Item 7 and associated Attachment C (components/appurtenances) for each listed System N-5 *Final* Code Data Report as listed in Attachment A of this N-3 Code Data Report.

WBN Unit 2 N-5 Code Data Reports are available in TVA Electronic Data Management System (EDMS) using the search term "WBN N-5 Code Data Report%"

Attach supplemental pages as required.

6. NUCLEAR PIPING (List all nuclear piping by listing system Identification appearing on Form N-5 and attach copies of all N-5 Data Reports for nuclear piping.)

Certificate Holder and Serial Number	Piping System Identification	National Bd. No.	Year Built
See Attachment A	See Attachment A	N/A	See Attachment A

Refer to N-5 *Partial* Data Reports Page 1, Item 7 and associated Attachment D (piping subassemblies), Attachment E (materials) and Item 8 and associated Attachment F (welds) for each listed System N-5 *Final* Code Data Report listed in Attachment A of this N-3 Code Data Report

WBN Unit 2 N-5 Code Data Reports are available in TVA Electronic Data Management System (EDMS) using the search term "WBN N-5 Code Data Report%"

Attach supplemental pages as required.

\* Supplemental information in the form of lists, sketches, or drawings may be used provided: (1) size is 8 1/2 x 11; (2) information in items 1 and 4 on this Data Report is included on each sheet; and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

7. NUCLEAR PUMPS & VALVES (List all nuclear pumps and valves and attach copies of all N Certificate Holder's Data Reports, Forms NV-1 and NPV-1.)

Certificate Holder	Pump	Valve	Cert. Holder's Serial No.	National Bd. No.	Year Built
See Attachment A	See Attachment A	See Attachment A	See Attachment A	N/A	See Attachment A

Refer to N-5 Partial Data Report Page 1, Item 7 and the associated Attachment C (components/appurtenances) for each System N-5 Final Code Data Report listed in Attachment A of this N-3 Code Data Report.

WBN Unit 2 N-5 Code Data Reports are available in TVA Electronic Data Management System (EDMS) using the search term "WBN N-5 Code Data Report%".

Attach supplemental pages as required.

8. Remarks

Reactor 2-RPV-068-U2 is a Non-ASME Pressure Vessel.

Verification that supporting structures outside the scope of ASME Section III Division 1 are adequate is available in TVA Electronic Data Management System (EDMS) using the search term "T03 150921 001%".

The Overpressure Protection Report (OPPR) is available in In TVA Electronic Data Management System (EDMS) using the search term "%OPPR%".

Verification of Adequacy of ASME Section III, Division 1 Overpressure Protection Analysis and Overpressure Protection Report is available in TVA Electronic Data Management System (EDMS) using the search term "T03 151019 001%".

**OWNER'S CERTIFICATE OF COMPLETED INSTALLATION**

I, the undersigned, certify that the statements made in this report are correct and have checked all nuclear components coming under the scope of the ASME Code, Section III, and state that to the best of my knowledge and belief, each Certificate Holder has met all the rules of construction of the ASME Code, Section III. Attached are copies of Certificate Holder's Data Reports covering all nuclear components.

Owner's Certificate of Authorization No. OWN-178 Expires 5/7/2018

Date 10/22/15 Signature [Signature] (authorized representative) MARCIA COOPER

**CERTIFICATE OF INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by

HSB Global Standards

of CT based on audits of the owner's quality assurance program and supporting documentation for components and/or appurtenances and installation of same described in the Data Report on 10/22/15, state that to the best of my knowledge and belief, the owner, or his designee, as applicable, has complied with the requirements of the ASME Code, Section III.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the components and/or appurtenances and installation of same described in this owner's Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this audit activity.

Date 10/22/15 Signature [Signature] Commissions NR9853 BA, NI, NS, NSI, C  
 (Authorized Nuclear Inspector) (National Board Number and Endorsement)

## ATTACHMENT A (N-5 PARTIAL LISTING) TO N-3 CODE DATA REPORT

WBN-2-N-3

1. Name of Owner	TVA dba Nuclear Construction (TVA NC)		
2. Address of Owner	1270 Nuclear Plant Road, Spring City, Tennessee 37381		
3. Name of power plant	Watts Bar Nuclear Power Plant Unit 2	2 (Unit no.)	N/A (National Bd. no.)
4. Location of power plant	1270 Nuclear Plant Road, Spring City, Tennessee 37381		

Nuclear vessels, nuclear piping, nuclear pumps and nuclear valves coming under the scope of the ASME, Section III, Division 1, are listed and identified in the following ASME N-5 Code Data Reports.

TVA SYSTEM NO.	SYSTEM NAME	N-5 DATA REPORT SERIAL NUMBER	YEAR BUILT
001	MAIN STEAM	B-2-01-2/3-F1	2015
003	FEEDWATER	B-2-03-2/3-F1	2015
015	STEAM GENERATOR BLOWDOWN	B-2-15-2-F1	2015
026	FIRE PROTECTION	B-2-26-2/3-F1	2015
030	VENTILATION AIR FLOW	B-2-30-2/3-F1	2015
031	AIR CONDITIONG CHILLED WATER	B-2-31-2-F1	2015
032	CONTROL AIR	B-2-32-2/3-F1	2015
033	SERVICE AIR	B-2-33-2-F1	2013
040	STATION DRAINAGE	B-2-40-3-F1	2014
043	RADIATION SAMPLING	B-2-43-2/3-F1	2015
059	DEMINERALIZED WATER	B-2-59-2-F1	2014
061	ICE CONDENSER	B-2-61-2/3-F1	2014
062	CHEMICAL AND VOLUME CONTROL	B-2-62-1/2/3-F1	2014
063	SAFETY INJECTION	B-2-63-1/2/3-F1	2015
064	CONTAINMENT PENETRATIONS	B-2-64-MC/2-F1	2015
065	EMERGENCY GAS TREATMENT	B-2-65-3-F1	2015
067	ESSENTIAL RAW COOLING WATER	B-2-67-2/3-F1	2013
068	REACTOR COOLANT	B-2-68-1/2-F1	2014
070	COMPONENT COOLING	B-2-70-2/3-F1	2013
072	CONTAINMENT SPRAY	B-2-72-2-F1	2014
074	RESIDUAL HEAT REMOVAL	B-2-74-1/2-F1	2014
077	WASTE DISPOSAL	B-2-77-2/3-F1	2015
078	FUEL POOL COOLING and CLEANING	B-2-78-2-F1	2015
081	PRIMARY WATER	B-2-81-2-F1	2014
085/087*	CONTROL ROD DRIVE	B-2-85-1-F1	2014
090	RADIATION MONITORING	B-2-90-2/3-F1	2015
094	INCORE FLUX DETECTION	B-2-94-1/2-F1	2014

\* UPPER HEAD INJECTION CAPS INCLUDED IN SYS 085