

**BASIC APPLICATION FOR EQUIPMENT / AIR POLLUTION PERMIT
OR CERTIFICATE OF OPERATION**

FORM E001
03/2011

1. Name of Company : TVA Sequoyah Nuclear Plant
(If corporation or LLC, name on file with Tennessee Secretary of State Corporate Records Division)
2. NAICS Code: 22113
3. Company Official to Contact: Lynne M. Koby
4. Phone No. 423-843-6713
5. Mailing Address: P.O. Box 2000 OPS 5N Soddy-Daisy, TN 37384
Street or P.O. Box City State Zip Code
6. Physical Location
(If different from line 5) Sequoyah Access Rd. Soddy-Daisy, TN 37379
Street City State Zip Code
7. Application for:
 Installation Permit Initial Certificate of Operation Renewal Certificate of Operation

Previous Installation Permit or Certificate of Operation No.: 4150-30600701-01C

8. Type of equipment for which application is made:
- | | | |
|---|--|-----------------------------------|
| <input checked="" type="checkbox"/> Process Equipment (Form E010 or Form E010A) | <input checked="" type="checkbox"/> Previously Submitted | <input type="checkbox"/> Attached |
| <input type="checkbox"/> Fuel Burning Equipment (Form E011) | <input type="checkbox"/> Previously Submitted | <input type="checkbox"/> Attached |
| <input type="checkbox"/> Incineration Equipment (Form E012) | <input type="checkbox"/> Previously Submitted | <input type="checkbox"/> Attached |
| <input type="checkbox"/> Minor Pollution Source (Form E014)
<i>(Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled contaminant emissions)</i> | <input type="checkbox"/> Previously Submitted | <input type="checkbox"/> Attached |

The following forms are filed with this application:

RECEIVED
CHATTANOOGA/HAMILTON CO.

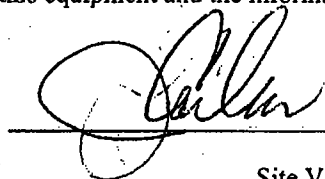
9. Equipment Name:
Cooling Tower for Heat Injection (Unit 1)
10. If application is for a Certificate of Operation (Initial or Renewal), are there any changes since previous application in the equipment or operation which might:
- A. Increase, decrease, or alter process materials, fuel, refuse type, etc.? Yes No
- B. Increase, decrease, or alter emissions or emission points? Yes No
11. Process Weight, lb/hr, (Item 6 on Form E010), Incineration Rate, lb/hr, (Item 3C on Form E012), or Fuel Burning Rate, 1,000 Btu/hr, (Item 7C on Form E011): 279.38 E6 lbs/hour/tower

MAY 25 2012

AIR POLLUTION
CONTROL BUREAU

This is to certify that I am familiar with operations concerning this equipment and the information provided on this application is true and complete to the best of my knowledge:

Mail completed form to:
CHATTANOOGA-HAMILTON COUNTY
AIR POLLUTION CONTROL BUREAU
6125 Preservation Drive, Suite 140
Chattanooga, TN 37416-3638



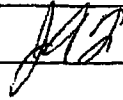
Name
Site Vice President
Title
5/10/2012
Date

This form must be completely filled out before it will be processed

FOR BUREAU USE ONLY

Engineering

Date of Inspection: 8/3/12

Inspection Approval: 

Certificate Fee: \$685.00

Supervisor Review: 

Technical Research &
Computer Time: _____

SEE ATTACHED SPECIAL CONDITIONS

Expiration Date: July 17, 2017

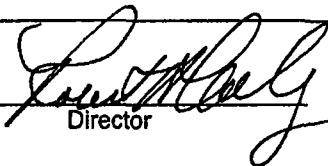
Certificate of Operation No.: 4150-30600701-01C

Operations

Check Received by: JWP

Check Amount: \$2,670.00 Check No.: 4912-80267460 Date: 08/02/2012

Update on Computer: JWP


Director

August 16, 2012
Date

**BASIC APPLICATION FOR EQUIPMENT / AIR POLLUTION PERMIT
OPS 5N OR CERTIFICATE OF OPERATION**

FORM E001
03/2011

1. Name of Company : **TVA Sequoyah Nuclear Plant**
(If corporation or LLC, name on file with Tennessee Secretary of State Corporate Records Division)
2. NAICS Code: 22113
3. Company Official to Contact: **Lynne M. Koby**
4. Phone No. 423-843-6713
5. Mailing Address: **P.O. Box 2000** **OPS 5N Soddy-Daisy, TN 37384**
Street or P.O. Box *City* *State* *Zip Code*
6. Physical Location
(If different from line 5) **Sequoyah Access Rd. Soddy-Daisy, TN 37379**
Street *City* *State* *Zip Code*
7. Application for:
 Installation Permit Initial Certificate of Operation Renewal Certificate of Operation

Previous Installation Permit or Certificate of Operation No.: 4150-30600701-03C

8. Type of equipment for which application is made:

- | | | |
|---|--|-----------------------------------|
| <input checked="" type="checkbox"/> Process Equipment (Form E010 or Form E010A) | <input checked="" type="checkbox"/> Previously Submitted | <input type="checkbox"/> Attached |
| <input type="checkbox"/> Fuel Burning Equipment (Form E011) | <input type="checkbox"/> Previously Submitted | <input type="checkbox"/> Attached |
| <input type="checkbox"/> Incineration Equipment (Form E012) | <input type="checkbox"/> Previously Submitted | <input type="checkbox"/> Attached |
| <input type="checkbox"/> Minor Pollution Source (Form E014)
<i>(Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled contaminant emissions)</i> | <input type="checkbox"/> Previously Submitted | <input type="checkbox"/> Attached |

The following forms are filed with this application:

RECEIVED
CHATTANOOGA-HAMILTON CO.

9. Equipment Name:
Cooling Tower for Heat Injection (Unit 2)
10. If application is for a Certificate of Operation (Initial or Renewal), are there any changes since previous application in the equipment or operation which might:

MAY 25 2012

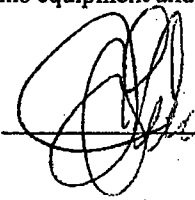
RECEIVED
AIR POLLUTION
CONTROL BUREAU

- A. Increase, decrease, or alter process materials, fuel, refuse type, etc.? Yes No
- B. Increase, decrease, or alter emissions or emission points? Yes No

11. Process Weight, lb/hr, (Item 6 on Form E010), Incineration Rate, lb/hr, (Item 3C on Form E012), or Fuel Burning Rate, 1,000 Btu/hr, (Item 7C on Form E011): **279.38 E6 lbs/hour/tower**

This is to certify that I am familiar with operations concerning this equipment and the information provided on this application is true and complete to the best of my knowledge:

Mail completed form to:
**CHATTANOOGA-HAMILTON COUNTY
AIR POLLUTION CONTROL BUREAU
6125 Preservation Drive, Suite 140
Chattanooga, TN 37416-3638**



Name
Site Vice President
Title
5/10/2012
Date

This form must be completely filled out before it will be processed

FOR BUREAU USE ONLY

Engineering

Date of Inspection: 8/3/12

Inspection Approval: 

Certificate Fee: \$685.00

Supervisor Review: 

Technical Research &
Computer Time: _____

SEE ATTACHED SPECIAL CONDITIONS

Expiration Date: July 17, 2017

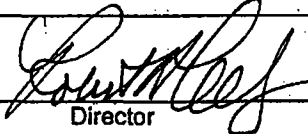
Certificate of Operation No.: 4150-30600701-03C

Operations

Check Received by: JWP

Check Amount: \$2,670.00 Check No.: 4912-80267460 Date: 08/02/2012

Update on Computer: JWP


Director

August 16, 2012
Date

CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU

Tennessee Valley Authority – Sequoyah Nuclear Plant
Special Conditions for
Certificate of Operation No. 4150-30600701-01C
Expiration Date: July 17, 2017

The owner and operator of this source shall adhere to all provisions of the Chattanooga Air Pollution Control Ordinance (the Ordinance) in addition to the following conditions and limitations of this certificate of operation throughout its term. Any violation of the Ordinance or the following conditions and limitations may lead to enforcement action by the Chattanooga-Hamilton County Air Pollution Control Bureau or Board or by the U.S. Environmental Protection Agency. Provided, however, in the event that the following conditions or limitations are more stringent than any provision of the Ordinance, the conditions and limitations of this certificate shall control.

1. The maximum allowable emissions of particulate matter from the Unit #1 cooling tower are 7.2 pounds/hour.
2. Visible emissions from the Unit #1 cooling tower shall not exceed twenty (20) percent opacity for an aggregate of more than five (5) minutes in any period of one hour or more than twenty (20) minutes in any period of twenty-four hours, in accordance with §41, Rule 3, the Hamilton County Air Pollution Control Regulation (the Regulation).
3. Testing of the Unit #1 cooling tower to determine the opacity of the emissions may be required by the Director, the Chattanooga-Hamilton County Air Pollution Control Bureau (the Bureau). If required, this test shall, at a minimum, consist of and be performed in accordance with EPA Test Method 9, Title 40 *Code of Federal Regulations* Part 60, Appendix A and in accordance with §3, the Regulation.
4. If the Unit #1 cooling tower operates in such a manner as to violate any of the requirements contained in these special conditions, the owner or operator shall promptly notify the Bureau Director within twenty-four hours of the onset of the violation, and a written report shall be submitted to the Bureau Director within seven (7) days of the onset, in accordance with §12(e), the Regulation.

CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU

Tennessee Valley Authority – Sequoyah Nuclear Plant
Special Conditions for
Certificate of Operation No. 4150-30600701-03C
Expiration Date: July 17, 2017

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1. The maximum allowable emissions of particulate matter from the Unit #2 cooling tower are 7.2 pounds/hour.
2. Visible emissions from the Unit #2 cooling tower shall not exceed twenty (20) percent opacity for an aggregate of more than five (5) minutes in any period of one hour or more than twenty (20) minutes in any period of twenty-four hours, in accordance with §41, Rule 3, the Hamilton County Air Pollution Control Regulation (the Regulation).
3. Testing of the Unit #2 cooling tower to determine the opacity of the emissions may be required by the Director, the Chattanooga-Hamilton County Air Pollution Control Bureau (the Bureau). If required, this test shall, at a minimum, consist of and be performed in accordance with EPA Test Method 9, Title 40 *Code of Federal Regulations* Part 60, Appendix A and in accordance with §3, the Regulation.
4. If the Unit #2 cooling tower operates in such a manner as to violate any of the requirements contained in these special conditions, the owner or operator shall promptly notify the Bureau Director within twenty-four hours of the onset of the violation, and a written report shall be submitted to the Bureau Director within seven (7) days of the onset, in accordance with §12(e), the Regulation.

**BASIC APPLICATION FOR EQUIPMENT / AIR POLLUTION PERMIT
OR CERTIFICATE OF OPERATION**

FORM E001
03/2011

1. Name of Company : TVA Sequoyah Nuclear Plant
(If corporation or LLC, name on file with Tennessee Secretary of State Corporate Records Division)
2. NAICS Code: 22113
3. Company Official to Contact: Lynne M. Koby
4. Phone No. 423-843-6713
5. Mailing Address: P.O. Box 2000 OPS 5N Soddy-Daisy, TN 37384
Street or P.O. Box *City* *State* *Zip Code*
6. Physical Location
(If different from line 5) Sequoyah Access Rd. Soddy-Daisy, TN 37379
Street *City* *State* *Zip Code*
7. Application for:
 Installation Permit Initial Certificate of Operation Renewal Certificate of Operation

Previous Installation Permit or Certificate of Operation No.: 4150-30700804-06C

8. Type of equipment for which application is made:

- | | | |
|---|--|-----------------------------------|
| <input checked="" type="checkbox"/> Process Equipment (Form E010 or Form E010A) | <input checked="" type="checkbox"/> Previously Submitted | <input type="checkbox"/> Attached |
| <input type="checkbox"/> Fuel Burning Equipment (Form E011) | <input type="checkbox"/> Previously Submitted | <input type="checkbox"/> Attached |
| <input type="checkbox"/> Incineration Equipment (Form E012) | <input type="checkbox"/> Previously Submitted | <input type="checkbox"/> Attached |
| <input type="checkbox"/> Minor Pollution Source (Form E014)
<i>(Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled contaminant emissions)</i> | <input type="checkbox"/> Previously Submitted | <input type="checkbox"/> Attached |

The following forms are filed with this application:

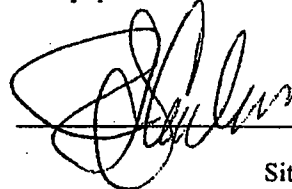
RECEIVED
CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU

9. Equipment Name:
Insulator Saws A and B (Fitting and Block Saws) MAY 25 2012
10. If application is for a Certificate of Operation (Initial or Renewal), are there any changes since previous application in the equipment or operation which might:
CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU
- A. Increase, decrease, or alter process materials, fuel, refuse type, etc.? Yes No
- B. Increase, decrease, or alter emissions or emission points? Yes No

11. Process Weight, lb/hr, (Item 6 on Form E010), Incineration Rate, lb/hr, (Item 3C on Form E012), or Fuel Burning Rate, 1,000 Btu/hr, (Item 7C on Form E011): 80 + 80 = 160 lbs/hour

This is to certify that I am familiar with operations concerning this equipment and the information provided on this application is true and complete to the best of my knowledge:

Mail completed form to:
CHATTANOOGA-HAMILTON COUNTY
AIR POLLUTION CONTROL BUREAU
6125 Preservation Drive, Suite 140
Chattanooga, TN 37416-3638




Name
Site Vice President
Title
5/10/2012
Date

This form must be completely filled out before it will be processed

FOR BUREAU USE ONLY

Engineering

Date of Inspection: 8/3/12

Inspection Approval: 

Certificate Fee: \$200.00

Supervisor Review: 

Technical Research &
Computer Time: _____

SEE ATTACHED SPECIAL CONDITIONS

Expiration Date: July 17, 2017

Certificate of Operation No.: 4150-30700804-06C

Operations

Check Received by: JWP

Check Amount: \$2,670.00 Check No.: 4912-80267460 Date: 08/02/2012

Update on Computer: JWP


Director

August 16, 2012
Date

CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU

Tennessee Valley Authority – Sequoyah Nuclear Plant
Special Conditions for
Certificate of Operation No. 4150-30700804-06C
Expiration Date: July 17, 2017

Page 1 of 2

The owner and operator of this source shall adhere to all provisions of the Chattanooga Air Pollution Control Ordinance (the Ordinance) in addition to the following conditions and limitations of this certificate of operation throughout its term. Any violation of the Ordinance or the following conditions and limitations may lead to enforcement action by the Chattanooga-Hamilton County Air Pollution Control Bureau or Board or by the U.S. Environmental Protection Agency. Provided, however, in the event that the following conditions or limitations are more stringent than any provision of the Ordinance, the conditions and limitations of this certificate shall control.

1. The particulate matter emission sources of Insulation Saw A are two saw blade suction vents, a suction hose, and a ventilation hood. The maximum allowable emissions of particulate matter from all of these emission sources combined are 0.49 pound/hour, in accordance with §41, Rule 10.3, the Hamilton County Air Pollution Control Regulation (the Regulation).
2. The maximum allowable emissions of particulate matter from Insulation Saw A are 0.25 grain per standard cubic foot (gr/scf), in accordance with §41, Rule 10.7, the Regulation.
3. The particulate matter emission sources of Insulation Saw B are two saw blade suction vents and a suction hose. Particulate matter emissions from each of these emission sources shall be vented to and controlled by a settling drum followed by a bag filter or other piece or pieces of control equipment that have an equivalent or greater particulate matter control efficiency. The control equipment shall be used and maintained in accordance with the manufacturers' recommendations. For each of the three emission sources of the saw, the source shall not be operated if its control equipment is not in use. These requirements are reasonable and proper, as determined by the Director, the Chattanooga-Hamilton County Air Pollution Control Bureau (the Bureau), in accordance with §41, Rule 27.3, the Regulation.
4. The maximum allowable emissions of particulate matter from all of the emission sources combined of Insulation Saw B are 0.20 pound/hour. This emission limitation is reasonable and proper, as determined by the Bureau Director, in accordance with §41, Rule 27.3, the Regulation.
5. Visible emissions from Insulation Saw A shall not exceed twenty (20) percent opacity for an aggregate of more than five (5) minutes in any period of one hour or more than twenty (20) minutes in any period of twenty-four hours, in accordance with §41, Rule 3, the Regulation.

6. Visible emissions from Insulation Saw B shall not exceed ten (10) percent opacity for an aggregate of more than five (5) minutes in any period of one hour or more than twenty (20) minutes in any period of twenty-four hours. This limitation is reasonable and proper, as determined by the Bureau Director, in accordance with §41, Rule 27.3, the Regulation.
7. Testing of either Insulation Saw A or B to determine the emissions of particulate matter and to determine the opacity of the emissions may be required by the Director, the Chattanooga-Hamilton County Air Pollution Control Bureau (the Bureau). If required, these tests shall, at a minimum, consist of and be performed in accordance with EPA Test Methods 1, 2, 3, 4, 5, and 9, Title 40 *Code of Federal Regulations* Part 60, Appendix A and in accordance with §3, the Regulation.
8. If Insulation Saw A or B is used in such a manner as to violate any of the requirements contained in these special conditions, the owner or operator shall promptly notify the Bureau Director within twenty-four hours of the onset of the violation, and a written report shall be submitted to the Bureau Director within seven (7) days of the onset, in accordance with §12(e), the Regulation.

APPLICATION FOR EQUIPMENT / FEDERALLY ENFORCEABLE
CERTIFICATE OF OPERATION FOR SYNTHETIC MINOR SOURCES

FORM F001
03/2011

1. Name of Company : TVA Sequoyah Nuclear Plant
(If corporation or LLC, name on file with Tennessee Secretary of State Corporate Records Division)
2. NAICS Code: 22113
3. Company Official to Contact: Lynne M. Koby
4. Phone No. 423-843-6713
5. Mailing Address: P.O. Box 2000 OPS 5N Soddy-Daisy, TN 37384
Street or P.O. Box City State Zip Code
6. Physical Location
(If different from line 5) Sequoyah Access Rd. Soddy-Daisy, TN 37379
Street City State Zip Code
7. Application for:
 Initial Certificate of Operation Renewal Certificate of Operation

Previous Installation Permit or Certificate of Operation No.: 4150-10200501-08C

8. Type of equipment for which application is made:

- | | | |
|---|--|-----------------------------------|
| <input type="checkbox"/> Process Equipment (Form E010 or Form E010A) | <input type="checkbox"/> Previously Submitted | <input type="checkbox"/> Attached |
| <input checked="" type="checkbox"/> Fuel Burning Equipment (Form E011) | <input checked="" type="checkbox"/> Previously Submitted | <input type="checkbox"/> Attached |
| <input type="checkbox"/> Incineration Equipment (Form E012) | <input type="checkbox"/> Previously Submitted | <input type="checkbox"/> Attached |
| <input type="checkbox"/> Minor Pollution Source (Form E014)
<i>(Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled contaminant emissions)</i> | <input type="checkbox"/> Previously Submitted | <input type="checkbox"/> Attached |

The following forms are filed with this application:

9. Equipment Name:
Auxiliary Boilers A and B

MAY 25 2012

10. Are there any changes since previous application in the equipment or operation which might:

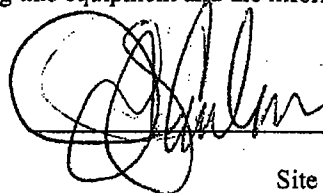
- A. Increase, decrease, or alter process materials, fuel, refuse type, etc.? Yes No
- B. Increase, decrease, or alter emissions or emission points? Yes No

AIR POLLUTION
CONTROL BUREAU

11. Process Weight, lb/hr, (Item 6 on Form E010), Incineration Rate, lb/hr, (Item 3C on Form E012), or Fuel Burning Rate, 1,000 Btu/hr, (Item 7C on Form E011): 2 x 54.5 E6 Btu/hr = 109 E6 Btu/hr

This is to certify that I am familiar with operations concerning this equipment and the information provided on this application is true and complete to the best of my knowledge:

Mail completed form to:
CHATTANOOGA-HAMILTON COUNTY
AIR POLLUTION CONTROL BUREAU
6125 Preservation Drive, Suite 140
Chattanooga, TN 37416-3638



Name
Site Vice President
Title
5/10/2012
Date

This form must be completely filled out before it will be processed

FOR BUREAU USE ONLY

Engineering

Date of Inspection: 8/3/12

Inspection Approval: *JMA*

Certificate Fee: \$415.00

Supervisor Review: *ERL*

Technical Research &
Computer Time: _____

SEE ATTACHED SPECIAL CONDITIONS

Expiration Date: July 17, 2017

Certificate of Operation No.: 4150-10200501-08C

Operations

Check Received by: JWP

Check Amount: \$2,670.00 Check No.: 4912-80267460 Date: 08/02/2012

Update on Computer: JWP

Robert H. G.
Director

August 16, 2012
Date

CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU

Tennessee Valley Authority – Sequoyah Nuclear Plant
Special Conditions for

Page 1 of 4

Federally Enforceable Certificate of Operation No. 4150-10200501-08C
Expiration Date: July 17, 2017

The owner and operator of this source shall adhere to all provisions of the Hamilton County Air Pollution Control Regulation (the Regulation) in addition to the following conditions and limitations of this federally enforceable certificate of operation throughout its term. Any violation of the Regulation or the following conditions and limitations may lead to enforcement action by the Chattanooga-Hamilton County Air Pollution Control Bureau or Board or by the U.S. Environmental Protection Agency. Provided, however, in the event that the following conditions or limitations are more stringent than any provision of the Regulation, the conditions and limitations of this certificate shall control. All sections of both the Regulation and the Code of Federal Regulations cited in this certificate are incorporated herein by reference. Each of the following conditions is federally enforceable for the purpose of synthetic minor source status.

1. Only diesel fuel (No. 2 fuel oil) may be burned in Auxiliary Boilers A and B. The sulfur content of the diesel fuel that is burned in the two boilers shall not exceed 0.06 (zero point zero six) percent by weight. (Each of these boilers has a heat input capacity of 54.5×10^6 Btu/hour.)
2. Boilers A and B are subject to and the permittee shall comply with "Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units," Title 40 *Code of Federal Regulations* Part 60, Subpart Dc (§60.40c-48c), as adopted at §41, Rule 15, the Hamilton County Air Pollution Control Regulation (the Regulation).
3. Boilers A and B are subject to and the permittee shall comply with "National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources," Title 40 *Code of Federal Regulations* Part 63, Subpart JJJJJ (§63.11193-112237).

4. For each shipment of diesel fuel that is received at the facility for combustion in either Boiler A and B, a certification from the supplier shall document its sulfur content and shall verify that it complied with the specifications for No. 2 fuel oil as defined by the American Society for Testing and Materials in ASTM Standard D396. These certifications shall be kept on the premises and be available for inspection by representatives of the Chattanooga-Hamilton County Air Pollution Control Bureau (the Bureau) upon request during normal business hours. Each certification shall be maintained for a period of two (2) years after it is received. In addition, a semiannual report shall be submitted to the Bureau Director that consists of records of the fuel supplier certifications for all of the diesel fuel that was received at the facility for combustion in either boiler during each reporting period of six (6) calendar months. The reporting periods are January 1 through June 30 and July 1 through December 31 of each year. Each semiannual report is due by the 30th day following the end of each reporting period. These requirements are in accordance with "Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units," Title 40 *Code of Federal Regulations* Part 60, Subpart Dc, §60.42c(d) and (h) and §60.48c(d), (e), (f), (i), and (j), as adopted at §41, Rule 15, the Regulation.
5. A log shall be maintained in which the quantity of diesel fuel that is burned in Boilers A and B during each calendar month is recorded. This log shall be kept on the premises and be available for inspection by Bureau representatives upon request during normal business hours. The information in this log shall be maintained for a period of two (2) years after its date of entry. These requirements are in accordance with "Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units," Title 40 *Code of Federal Regulations* Part 60, Subpart Dc, §60.48c(g) and (i), as adopted at §41, Rule 15, the Regulation.
6. Emissions of nitrogen oxides (NO_x) from Boilers A and B combined shall not exceed 9.0 tons during any period of 365 consecutive days. Compliance with this emission limitation shall be accomplished by adherence to the following limitations:
 - a. The maximum allowable emissions of NO_x from each of the two boilers are 9.0 pounds/hour.
 - b. The sum of the total amount of time during which Boiler A is in operation and the total amount of time during which Boiler B is in operation shall not exceed 2,000 hours during any period of 365 consecutive days.

7. A log shall be maintained in which the daily hours of operation for each of Boilers A and B are recorded. This log shall be kept on the premises and be available for inspection by Bureau representatives upon request during normal business hours. The information in this log shall be maintained for a period of two (2) years after its date of entry.
8. A written report shall be submitted by May 17 of each year notifying the Bureau Director of the total number of hours that each of Boilers A and B were operated during the previous calendar year.
9. The maximum allowable emissions of particulate matter from each of Boilers A and B are 0.030 pound per 10^6 Btu. This emission limitation is equivalent to 1.64 pounds/hour for the operation of each boiler at its heat input capacity. This emission limitation is reasonable and proper, as determined by the Bureau Director, in accordance with §41, Rule 27.3, the Regulation.
10. Visible emissions from Boilers A and B shall not exceed ten (10) percent opacity for an aggregate of more than five (5) minutes in any period of one hour or more than twenty (20) minutes in any period of twenty-four hours. This limitation is reasonable and proper, as determined by the Bureau Director, in accordance with §41, Rule 27.3, the Regulation.
11. Visible emissions from Boilers A and B shall not exceed twenty (20) percent opacity on average in any period of six (6) minutes, except for one six (6)-minute period in any period of one hour in which visible emissions shall not exceed twenty-seven (27) percent opacity on average. This limitation is in accordance with "Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units," Title 40 *Code of Federal Regulations* Part 60, Subpart Dc, §60.43c(c), as adopted at §41, Rule 15, the Regulation.
12. Testing of either Boiler A or B to determine the emissions of particulate matter, sulfur dioxide (SO₂), nitrogen oxides (NO_x), and carbon monoxide (CO) and to determine the opacity of the emissions may be required by the Bureau Director. If required, these tests shall, at a minimum, consist of and be performed in accordance with EPA Test Methods 1, 2, 3, 4, 5, 6, 7, 9, and 10, Title 40 *Code of Federal Regulations* Part 60, Appendix A and in accordance with §3, the Regulation.
13. If Boiler A or B operates in such a manner as to violate any of the requirements contained in these special conditions, the owner or operator shall promptly notify the Bureau Director within twenty-four hours of the onset of the violation, and a written report shall be submitted to the Bureau Director within seven (7) days of the onset, in accordance with §12(e), the Regulation.

14. The Tennessee Valley Authority and the Bureau mutually agree to reopen this federally enforceable certificate of operation upon promulgation of any new federal requirement that would be applicable to either of the two auxiliary boilers if the effective date of the requirement is not later than the date on which this certificate is due to expire.
15. This federally enforceable certificate of operation is not transferable from one person to another person, or from one air pollutant source to another air pollutant source, or from one location to another location.

**BASIC APPLICATION FOR EQUIPMENT / AIR POLLUTION PERMIT
OR CERTIFICATE OF OPERATION**

FORM E001
03/2011

1. Name of Company : TVA Sequoyah Nuclear Plant
(If corporation or LLC, name on file with Tennessee Secretary of State Corporate Records Division)
2. NAICS Code: 22113
3. Company Official to Contact: Lynne M. Koby
4. Phone No. 423-843-6713
5. Mailing Address: P.O. Box 2000 OPS 5N Soddy-Daisy, TN 37384
Street or P.O. Box City State Zip Code
6. Physical Location
(If different from line 5) Sequoyah Access Rd. Soddy-Daisy, TN 37379
Street City State Zip Code
7. Application for:
 Installation Permit Initial Certificate of Operation Renewal Certificate of Operation

Previous Installation Permit or Certificate of Operation No.: 4150-30703099-09C

8. Type of equipment for which application is made:

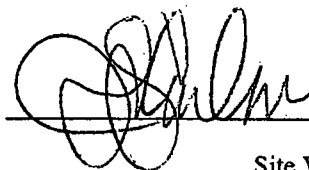
- | | | |
|---|--|-----------------------------------|
| <input checked="" type="checkbox"/> Process Equipment (Form E010 or Form E010A) | <input checked="" type="checkbox"/> Previously Submitted | <input type="checkbox"/> Attached |
| <input type="checkbox"/> Fuel Burning Equipment (Form E011) | <input type="checkbox"/> Previously Submitted | <input type="checkbox"/> Attached |
| <input type="checkbox"/> Incineration Equipment (Form E012) | <input type="checkbox"/> Previously Submitted | <input type="checkbox"/> Attached |
| <input type="checkbox"/> Minor Pollution Source (Form E014)
<i>(Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled contaminant emissions)</i> | <input type="checkbox"/> Previously Submitted | <input type="checkbox"/> Attached |

The following forms are filed with this application:

9. Equipment Name:
Modifications Carpenter Shop
- MAY 25 2012
10. If application is for a Certificate of Operation (Initial or Renewal), are there any changes since previous application in the equipment or operation which might:
(Check one)
- A. Increase, decrease, or alter process materials, fuel, refuse type, etc.? Yes No
- B. Increase, decrease, or alter emissions or emission points? Yes No
11. Process Weight, lb/hr, (Item 6 on Form E010), Incineration Rate, lb/hr, (Item 3C on Form E012), or Fuel Burning Rate, 1,000 Btu/hr, (Item 7C on Form E011): 450 lbs/hour

This is to certify that I am familiar with operations concerning this equipment and the information provided on this application is true and complete to the best of my knowledge:

Mail completed form to:
CHATTANOOGA-HAMILTON COUNTY
AIR POLLUTION CONTROL BUREAU
6125 Preservation Drive, Suite 140
Chattanooga, TN 37416-3638



Name
Site Vice President
Title
5/10/2012
Date

This form must be completely filled out before it will be processed

FOR BUREAU USE ONLY

Engineering

Date of Inspection: 8/3/12

Inspection Approval: JAA

Certificate Fee: \$200.00

Supervisor Review: EJR

Technical Research &
Computer Time: _____

SEE ATTACHED SPECIAL CONDITIONS

Expiration Date: July 17, 2017

Certificate of Operation No.: 4150-30703099-09C

Operations

Check Received by: JWP

Check Amount: \$2,670.00 Check No.: 4912-80267460 Date: 08/02/2012

Update on Computer: JWP


Director

August 16, 2012
Date

CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU

Tennessee Valley Authority – Sequoyah Nuclear Plant
Special Conditions for
Certificate of Operation No. 4150-30703099-09C
Expiration Date: July 17, 2017

The owner and operator of this source shall adhere to all provisions of the Chattanooga Air Pollution Control Ordinance (the Ordinance) in addition to the following conditions and limitations of this certificate of operation throughout its term. Any violation of the Ordinance or the following conditions and limitations may lead to enforcement action by the Chattanooga-Hamilton County Air Pollution Control Bureau or Board or by the U.S. Environmental Protection Agency. Provided, however, in the event that the following conditions or limitations are more stringent than any provision of the Ordinance, the conditions and limitations of this certificate shall control.

1. The particulate matter emission sources of the carpenter shop are two radial-arm saws, a table saw, a band saw, a planer, and two floor vents. The maximum allowable emissions of particulate matter from all of these emission sources combined are 1.42 pounds/hour, in accordance with §41, Rule 10.3, the Hamilton County Air Pollution Control Regulation (the Regulation).
2. Visible emissions from the carpenter shop shall not exceed twenty (20) percent opacity for an aggregate of more than five (5) minutes in any period of one hour or more than twenty (20) minutes in any period of twenty-four hours, in accordance with §41, Rule 3, the Regulation.
3. Testing of any of the emission sources of the carpenter shop to determine the emissions of particulate matter and to determine the opacity of the emissions may be required by the Director, the Chattanooga-Hamilton County Air Pollution Control Bureau (the Bureau). If required, these tests shall, at a minimum, consist of and be performed in accordance with EPA Test Methods 1, 2, 3, 4, 5, and 9, Title 40 *Code of Federal Regulations* Part 60, Appendix A and in accordance with §3, the Regulation.
4. If the carpenter shop is used in such a manner as to violate any of the requirements contained in these special conditions, the owner or operator shall promptly notify the Bureau Director within twenty-four hours of the onset of the violation, and a written report shall be submitted to the Bureau Director within seven (7) days of the onset, in accordance with §12(e), the Regulation.

**BASIC APPLICATION FOR EQUIPMENT / AIR POLLUTION PERMIT
OR CERTIFICATE OF OPERATION**

FORM E001
03/2011

1. Name of Company : TVA Sequoyah Nuclear Plant
(If corporation or LLC, name on file with Tennessee Secretary of State Corporate Records Division)
2. NAICS Code: 22113
3. Company Official to Contact: Lynne M. Koby
4. Phone No. 423-843-6713
5. Mailing Address: P.O. Box 2000 OPS 5N Soddy-Daisy, TN 37384
Street or P.O. Box *City* *State* *Zip Code*
6. Physical Location
(If different from line 5) Sequoyah Access Rd. Soddy-Daisy, TN 37379
Street *City* *State* *Zip Code*
7. Application for:
 Installation Permit Initial Certificate of Operation Renewal Certificate of Operation

Previous Installation Permit or Certificate of Operation No.: 4150-30900203-10C

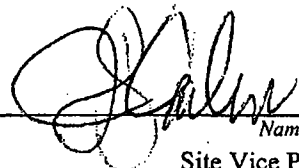
8. Type of equipment for which application is made:
- | | | |
|---|--|-----------------------------------|
| <input checked="" type="checkbox"/> Process Equipment (Form E010 or Form E010A) | <input checked="" type="checkbox"/> Previously Submitted | <input type="checkbox"/> Attached |
| <input type="checkbox"/> Fuel Burning Equipment (Form E011) | <input type="checkbox"/> Previously Submitted | <input type="checkbox"/> Attached |
| <input type="checkbox"/> Incineration Equipment (Form E012) | <input type="checkbox"/> Previously Submitted | <input type="checkbox"/> Attached |
| <input type="checkbox"/> Minor Pollution Source (Form E014)
<i>(Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled contaminant emissions)</i> | <input type="checkbox"/> Previously Submitted | <input type="checkbox"/> Attached |

The following forms are filed with this application:

9. Equipment Name: Abrasive Blasting Operation MAY 25 2012
10. If application is for a Certificate of Operation (Initial or Renewal), are there any changes since previous application in the equipment or operation which might:
- A. Increase, decrease, or alter process materials, fuel, refuse type, etc.? Yes No
- B. Increase, decrease, or alter emissions or emission points? Yes No
11. Process Weight, lb/hr, (Item 6 on Form E010), Incineration Rate, lb/hr, (Item 3C on Form E012), or Fuel Burning Rate, 1,000 Btu/hr, (Item 7C on Form E011): 500 lbs/hour

This is to certify that I am familiar with operations concerning this equipment and the information provided on this application is true and complete to the best of my knowledge:

Mail completed form to:
CHATTANOOGA-HAMILTON COUNTY
AIR POLLUTION CONTROL BUREAU
6125 Preservation Drive, Suite 140
Chattanooga, TN 37416-3638



Name
Site Vice President
Title
5/10/2012
Date

This form must be completely filled out before it will be processed

FOR BUREAU USE ONLY

Engineering

Date of Inspection: 8/3/12

Inspection Approval: JAS

Certificate Fee: \$200.00

Supervisor Review: ERL

Technical Research &
Computer Time: _____

SEE ATTACHED SPECIAL CONDITIONS

Expiration Date: July 17, 2017

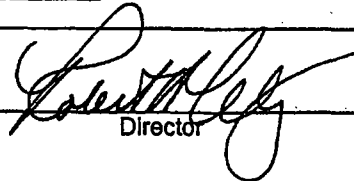
Certificate of Operation No.: 4150-30900203-10C

Operations

Check Received by: JWP

Check Amount: \$2,670.00 Check No.: 4912-80267460 Date: 08/02/2012

Update on Computer: JWP


Director

August 16, 2012
Date

CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU

Tennessee Valley Authority – Sequoyah Nuclear Plant
Special Conditions for
Certificate of Operation No. 4150-30900203-10C
Expiration Date: July 17, 2017

Page 1 of 2

The owner and operator of this source shall adhere to all provisions of the Chattanooga Air Pollution Control Ordinance (the Ordinance) in addition to the following conditions and limitations of this certificate of operation throughout its term. Any violation of the Ordinance or the following conditions and limitations may lead to enforcement action by the Chattanooga-Hamilton County Air Pollution Control Bureau or Board or by the U.S. Environmental Protection Agency. Provided, however, in the event that the following conditions or limitations are more stringent than any provision of the Ordinance, the conditions and limitations of this certificate shall control.

1. Particulate matter emissions from the abrasive blasting operation shall be contained within an enclosure and vented to and controlled by a filter that completely covers any exhaust intake or by another piece of control equipment that has an equivalent or greater particulate matter control efficiency. The blasting operation shall not be used if the filter for any exhaust intake is not in place. These requirements are reasonable and proper, as determined by the Director, the Chattanooga-Hamilton County Air Pollution Control Bureau (the Bureau), in accordance with §41, Rule 27.3, the Hamilton County Air Pollution Control Regulation (the Regulation).
2. The maximum allowable emissions of particulate matter from the abrasive blasting operation are 0.30 pound/hour. This emission limitation is reasonable and proper, as determined by the Bureau Director, in accordance with §41, Rule 27.3, the Regulation.
3. Visible emissions from any exhaust stack that serves the abrasive blasting operation shall not exceed ten (10) percent opacity for an aggregate of more than five (5) minutes in any period of one hour or more than twenty (20) minutes in any period of twenty-four hours. This limitation is reasonable and proper, as determined by the Bureau Director, in accordance with §41, Rule 27.3, the Regulation.
4. Visible emissions from the building or other enclosure that the abrasive blasting operation is performed in shall not exceed five (5) percent opacity for an aggregate of more than five (5) minutes in any period of one hour or more than twenty (20) minutes in any period of twenty-four hours. This limitation is reasonable and proper, as determined by the Bureau Director, in accordance with §41, Rule 27.3, the Regulation.

5. Testing of the abrasive blasting operation, as controlled, to determine the emissions of particulate matter and to determine the opacity of the emissions may be required by the Director, the Chattanooga-Hamilton County Air Pollution Control Bureau (the Bureau). If required, these tests shall, at a minimum, consist of and be performed in accordance with EPA Test Methods 1, 2, 3, 4, 5, and 9, Title 40 *Code of Federal Regulations* Part 60, Appendix A and in accordance with §3, the Regulation.

6. If the abrasive blasting operation is performed in such a manner as to violate any of the requirements contained in these special conditions, the owner or operator shall promptly notify the Bureau Director within twenty-four hours of the onset of the violation, and a written report shall be submitted to the Bureau Director within seven (7) days of the onset, in accordance with §12(e), the Regulation.

APPLICATION FOR EQUIPMENT / FEDERALLY ENFORCEABLE
CERTIFICATE OF OPERATION FOR SYNTHETIC MINOR SOURCES

FORM F001
03/2011

1. Name of Company : TVA Sequoyah Nuclear Plant
(If corporation or LLC, name on file with Tennessee Secretary of State Corporate Records Division)
2. NAICS Code: 22113
3. Company Official to Contact: Lynne M. Koby
4. Phone No. 423-843-6713
5. Mailing Address: P.O. Box 2000 OPS 5N Soddy-Daisy, TN 37384
Street or P.O. Box City State Zip Code
6. Physical Location
(If different from line 5) Sequoyah Access Rd. Soddy-Daisy, TN 37379
Street City State Zip Code
7. Application for:
 Initial Certificate of Operation Renewal Certificate of Operation

Previous Installation Permit or Certificate of Operation No.: 4150-20200102-11C

8. Type of equipment for which application is made:

- | | | |
|---|--|-----------------------------------|
| <input checked="" type="checkbox"/> Process Equipment (Form E010 or Form E010A) | <input checked="" type="checkbox"/> Previously Submitted | <input type="checkbox"/> Attached |
| <input type="checkbox"/> Fuel Burning Equipment (Form E011) | <input type="checkbox"/> Previously Submitted | <input type="checkbox"/> Attached |
| <input type="checkbox"/> Incineration Equipment (Form E012) | <input type="checkbox"/> Previously Submitted | <input type="checkbox"/> Attached |
| <input type="checkbox"/> Minor Pollution Source (Form E014)
<i>(Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled contaminant emissions)</i> | <input type="checkbox"/> Previously Submitted | <input type="checkbox"/> Attached |

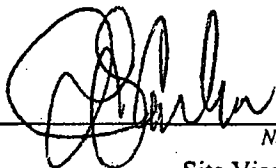
The following forms are filed with this application:

9. Equipment Name:
Emergency Diesel Generators 1A, 1B, 2A, and 2B and Blackout Diesel Generators 1 and 2
10. Are there any changes since previous application in the equipment or operation which might:
- A. Increase, decrease, or alter process materials, fuel, refuse type, etc.? Yes No
- B. Increase, decrease, or alter emissions or emission points? Yes No
11. Process Weight, lb/hr, (Item 6 on Form E010), Incineration Rate, lb/hr, (Item 3C on Form E012), or Fuel Burning Rate, 1,000 Btu/hr, (Item 7C on Form E011): 190.6 E6 Btu/hr x 1 gal/0.137 E6 Btu x 7.05 lbs/gal = 9,808 lbs/hr

MAY 25 2012

This is to certify that I am familiar with operations concerning this equipment and the information provided on this application is true and complete to the best of my knowledge:

Mail completed form to:
CHATTANOOGA-HAMILTON COUNTY
AIR POLLUTION CONTROL BUREAU
6125 Preservation Drive, Suite 140
Chattanooga, TN 37416-3638



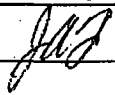
Name
Site Vice President
Title
5/10/2012
Date

This form must be completely filled out before it will be processed

FOR BUREAU USE ONLY

Engineering

Date of Inspection: 8/3/12

Inspection Approval: 

Certificate Fee: \$285.00

Supervisor Review: EYR

Technical Research &
Computer Time: _____

SEE ATTACHED SPECIAL CONDITIONS

Expiration Date: July 17, 2017

Certificate of Operation No.: 4150-20200102-11C

Operations

Check Received by: JWP

Check Amount: \$2,670.00 Check No.: 4912-80267460 Date: 08/02/2012

Update on Computer: JWP


Director

August 16, 2012
Date