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 Stat		S 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-Da Street or P.O.		State Zip Code
6.	Physical Location (If different from line 5) Sequoyah Access Rd. Soddy-Dais	•	· · · · · ·
	Street	City	State Zip Code
7.	Application for:	ficate of Operation 🛛 Renew	al Certificate of Operation
	Previous Installation Permit or Certificate of Operat	tion No.: 4150-30600701-01C	
8.	Type of equipment for which application is made:		
	Process Equipment (Form E010 or Form E010A)	Previously Submitted	Attached
	Fuel Burning Equipment (Form E011)	Previously Submitted	Attached
	Incineration Equipment (Form E012)	Previously Submitted	Attached
	Minor Pollution Source (Form E014) (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled	Previously Submitted d contaminant emissions)	Attached
i	The following forms are filed with this application:		RECEIVED CHATTA/HAMOLON CO.
•	m		a wegasaa seera keena iya kaadaa ahaa adaa
9.	Equipment Name: Cooling Tower for Heat Injection (Unit 1)		MAY 2 5 2012
10.	If application is for a Certificate of Operation (Initial or Ren equipment or operation which <u>might</u> :	newal), are there any changes since pr	和近期的自己的形
	A. Increase, decrease, or alter process materials, fuel, refuse	type, etc.? 🗌 Yes 🛛 No	的日本1951年,自己将军本国
	B. Increase, decrease, or alter emissions or emission points?	🗌 Yes 🛛 No	
11.	Process Weight, lb/hr, (Item 6 on Form E010), Incineration Rate, 1,000 Btu/hr, (Item 7C on Form E011): 279.38 E6 lbs		or Fuel Burning
	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge:	ng this equipment and the information	n provided on this application
-	Mail completed form to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 6125 Preservation Drive, Suite 140 Chattanooga, TN 37416-3638	Site Vice J	President
	· · · · ·	5/10/2	

Date

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

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Engineering							
Date of Inspection: 8/3/12	Inspection Approval:						
Certificate Fee: \$685.00	V						
Supervisor Review: £22	Technical Research & Computer Time:						
SEE ATTACHED SPECIAL CONDITIONS							
Expiration Date:	Certificate of Operation No.: <u>4150-30600701-01C</u>						

Operations					
Check Re	celved by:JV	<u>VP</u>			
Check Amount:	\$2,670.00	_ Check No.: _	4912-80267460	Date:	08/02/2012
Update on	Computer:JW	<u>/P</u>			
		Director	half		
		August 16, 20 Date)12		

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

	BASIC APPLICATION FOR EQUIPME OPS 5N OR CERTIFICAT			N PERM	ÎT	FORM E001 03/2011
1.	Name of Company : TVA Sequoyah Nuclear Plant (If corporation or LLC, name on file with Tennessee Secretary of State Co	orporate Rccords D	2. ivision)	NAICS C	ode: 22113	· · · ·
3.	Company Official to Contact: Lynne M. Koby		4.	Phone No	. 423-843-6	5713
5.	Mailing Address: P.O. Box 2000 OPS 5N Soddy-Daisy. Street or P.O. Bo		City	· · ·	State	Zip Code
6.	Physical Location (If different from line 5) Sequoyah Access Rd. Soddy-Daisy, 7 Street	TN 37379	City		State	Zip Code
7.	Application for:	te of Operation	\boxtimes	Renewal	Certificate o	f Operation
	Previous Installation Permit or Certificate of Operation	1 No.: 4150-306	500701-030			
8.	Type of equipment for which application is made:					
	Process Equipment (Form E010 or Form E010A)	Previousl	y Submitted	1		Attached
	Fuel Burning Equipment (Form E011)	Previousl	y Submitted	i .		Attached
	Incineration Equipment (Form E012)	Previously	y Submittee	1	ĺ	Attached
	Minor Pollution Source (Form E014) (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled co		y Submitted	3	. 	Attached
	The following forms are filed with this application:		: .			270 MASSIN PO.
9.	Equipment Name: Cooling Tower for Heat Injection (Unit 2)				MAY 2	5 2012
10.	If application is for a Certificate of Operation (Initial or Renew equipment or operation which <u>might</u> :	al), are there an	y changes s	since previ	ous applicat	式行行会社
	A. Increase, decrease, or alter process materials, fuel, refuse typ	pe, 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 Rat Rate, 1,000 Btu/hr, (Item 7C on Form E011): 279.38 E6 lbs/ho		C on Form	E012), or	Fuel Burnin	g
	This is to certify that I am familiar with operations concerning to is true and complete to the best of my knowledge: <i>Mail completed form to:</i> CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 6125 Preservation Drive, Suite 140	this equipment a	Julia.	Name	<u> </u>	nis application
	6125 Preservation Drive, Suite 140 Chattanooga, TN 37416-3638 This form must be completely filled out before it will be processed		Site	e Vice Pre Title 5/10/201 Date	•	· · · · ·

Engineering		<u> </u>		P	
Date of Inspection:	8/3/12	Inspection Approval:	Alt		· '.
Certificate Fee:	\$685.00	·	V ···	· · ·	
Supervisor Review:	EXP	Technical Research & Computer Time:	:	. · 	
	<u> </u>		<u> </u>		
<u> </u>					
SEE A1	TACHED	SPECIAL CON	IDITIOI	VS	
Expiration Date: _July 17, 201	17	Certificate of Operation	No.: 4150-:	30600701-03C	
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				• •	
Operations					
Operations Check Received by:					
	JWP		Date:	08/02/2012	
Check Received by:	JWP 00Check N		Date:	08/02/2012	
Check Received by: Check Amount: \$2,670.0	JWP 00Check N		Date:	08/02/2012	······
Check Received by: Check Amount: \$2,670.0	JWP 00Check N		Date:	08/02/2012	······································
Check Received by: Check Amount: \$2,670.0	JWP 00Check N	10.: <u>4912-80267460</u>	_ Date:	08/02/2012	
Check Amount: \$2,670.0	JWP 00Check M _JWP	10.: <u>4912-80267460</u> Mag	Date:	08/02/2012	••••••••••••••••••••••••••••••••••••••

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.

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 $\S12(e)$, the Regulation.

Tennessee Valley Authority – Sequoyah Nuclear Plant Special Conditions for Certificate of Operation No. 4150-30600701-03C 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 #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	
03/2	011	

1.	Name of Company : TVA Sequoyah Nuclear Plant (If corporation or LLC, name on file with Tennessee Secretary of State Corporate Record		. NAICS	Code: 22113	
3.	Company Official to Contact: Lynne M. Koby	4	. Phone	No. 423-843-67	13
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:	Chy		Juic	Zip Coue
7.	Installation Permit Initial Certificate of Operati	ion 🛛	Renewa	al Certificate of C	Operation
	Previous Installation Permit or Certificate of Operation No.: 4150-	30700804-0	6C		· ·
8.	Type of equipment for which application is made:		•		
	Process Equipment (Form E010 or Form E010A)	usly Submi	tted		Attached
-	Fuel Burning Equipment (Form E011) Previou	usly Submit	tted		Attached
	Incineration Equipment (Form E012)	usly Submit	tted		Attached
	Minor Pollution Source (Form E014) Previou (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled contaminant emiss	usly Submit sions)	ted		Attached
	The following forms are filed with this application:			No 199 RESEARCE	
. 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 equipment or operation which <u>might</u> :	any change	es since pro	evious applicatio	
	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, (Iter Rate, 1,000 Btu/hr, (Item 7C on Form E011): 80 + 80 = 160 lbs/hour	m 3C on Fo	rm E012),	or Fuel Burning	•
				· · ·	
	This is to certify that I am familiar with operations concerning this equipment is true and complete to the best of my knowledge:	int and the in $\left(\frac{1}{2} \right)$	nformation	provided on this	s application
	Mail completed form to: CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 6125 Preservation Drive, Suite 140	Egel In	N Nam Site Vice F		
	Chattanooga, TN 37416-3638		Site Vice F Titl 5/10/2	e	

Date

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

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Engineering Date of Inspection: 8/3/12 Inspection Approval: Inspection Approval: Certificate Fee: \$200.00
Supervisor Review: 2222 Technical Research & Computer Time:
SEE ATTACHED SPECIAL CONDITIONS
Expiration Date: July 17, 2017 Certificate of Operation No.: 4150-30700804-06C

Operations					
Check Re	ceived by:JV	<u>NP</u>			
Check Amount:	\$2,670.00	_ Check No.: _	4912-80267460	Date:	08/02/2012
Update on	Computer:JW	<u>VP</u>	^		
		Director	Has -		
		August 16, 20 Date	112		

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.

Tennessee Valley Authority – Sequoyah Nuclear Plant Special Conditions for Certificate of Operation No. 4150-30700804-06C

Page 2 of 2

- 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

1.	Name of Company : TVA Sequoyah Nuclear Plant (If corporation or LLC, name on file with Tennessee Secretary of State C		CS Code: 22113
3.	Company Official to Contact: Lynne M. Koby	4. Phon	e No. 423-843-6713
5.	Mailing Address: P.O. Box 2000 OPS 5N Soddy-Dais Street or P.O. B		State Zip Code
6.	Physical Location (If different from line 5) Sequoyah Access Rd. Soddy-Daisy, Street	, TN 37379 City	State Zip Code
7.	Application for:	Certificate of Operation	
	Previous Installation Permit or Certificate of Operatio	n No.: 4150-10200501-08C	
8.	Type of equipment for which application is made:		
	Process Equipment (Form E010 or Form E010A)	Previously Submitted	Attached
	Fuel Burning Equipment (Form E011)	Previously Submitted	Attached
	Incineration Equipment (Form E012)	Previously Submitted	Attached
	Minor Pollution Source (Form E014) (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled c	Previously Submitted	Attached
	The following forms are filed with this application:	· . · · · ·	and a second sec
9.	Equipment Name: Auxiliary Boilers A and B	•	MAY 2 5 2012
0.	Are there any changes since previous application in the equip	ment or operation which might:	\$14.000000000000000000000000000000000000
	A. Increase, decrease, or alter process materials, fuel, refuse ty	ype, etc.? 🔲 Yes 🛛 No	Guarkia Fuatal
	B. Increase, decrease, or alter emissions or emission points?	🗌 Yes 🛛 No	
1.	Process Weight, lb/hr, (Item 6 on Form E010), Incineration Ra Rate, 1,000 Btu/hr, (Item 7C on Form E011): 2 x 54.5 E6 Btu), or Fuel Burning
	This is to certify that I am familiar with operations concerning is true and complete to the best of my knowledge: <i>Mail completed form to:</i> CHATTANOOGA-HAMILTON COUNTY	Allen	
	AIR POLLUTION CONTROL BUREAU 6125 Preservation Drive, Suite 140 Chattanooga, TN 37416-3638	Site Vice	ame President

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

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Title 5/10/2012 Date FORM F001 03/2011

Engineering		<u>.,,</u>			A 1. 1	· ·		<u> </u>
Date	e of Inspection: <u>8/3</u>	/12	Inspection Ap	oroval:	JAA.	<u> </u>	•	· .
C	Certificate Fee: <u>\$4</u> 1	5.00			V			
Supe	prvisor Review: <u></u>	PR	Technical Rese Computer	arch & ⁻ Time:				
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<u> </u>				<u> </u>		···· ·	·····	· · · · · · · · · · · · · · · · · · ·
	SEE ATTA	CHED	SPECIAL (COND	ITION	S	•	
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Expiration Date	: July 17, 2017		Certificate of Ope	aration No.:	4150-10	0200501	-08C	
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Dperations	· · · · · · · · · · · · · · · · · · ·			<u> </u>	<u></u>			
Checl	Received by:J	NP						
Check Amount	\$2,670.00	Check N	o.: 4912-80267	460 <i>L</i>	Date:	08/02/2	2012	
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		Direct	tor /		· · ·		•	· · · ·
							. •	т.
		August 1 Date	<u>6, 2012</u>	· .			•	•

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.

- 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 × 10⁶ 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 JJJJJJ (§63.11193-112237).

Tennessee Valley Authority – Sequoyah Nuclear Plant Special Conditions for Federally Enforceable Certificate of Operation No. 4150-10200501-08C

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.

Tennessee Valley Authority – Sequoyah Nuclear Plant Special Conditions for Federally Enforceable Certificate of Operation No. 4150-10200501-08C

- 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 10⁶ 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.

Page 4 of 4

Tennessee Valley Authority – Sequoyah Nuclear Plant Special Conditions for Federally Enforceable Certificate of Operation No. 4150-10200501-08C

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

	OR CERTIFICATE OF OPERATI	IOŇ		C	03/2011
1.	Name of Company : TVA Sequoyah Nuclear Plant (If corporation or LLC, name on file with Tennessee Secretary of State Corporate Records	2. Division)	NAICS Code	: 22113	
3.	Company Official to Contact: Lynne M. Koby	4.	Phone No. 4	23-843-671	3
5.	Mailing Address: P.O. Box 2000 OPS 5N Soddy-Daisy, TN 37384 Street or P.O. Box	City		State	Zip Code
<u>6</u> .	Physical Location (If different from line 5) Sequoyah Access Rd. Soddy-Daisy, TN 37379 Street	City		State	Zip Code
7.	Application for:	on 🛛	Renewal Cert	ificate of O _l	peration
	Previous Installation Permit or Certificate of Operation No.: 4150-30	0703099-09	с		
8.	Type of equipment for which application is made:			۰.	
	Process Equipment (Form E010 or Form E010A)	sly Submitte	:d		Attached
-	Fuel Burning Equipment (Form E011) Previous	sly Submitte	d .		Attached
	Incineration Equipment (Form E012)	sly Submitte	d		Attached
	Minor Pollution Source (Form E014) Previous (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled contaminant emission	sly Submitte ons)	d		Attached
	The following forms are filed with this application:		n na h		
9.	Equipment Name: Modifications Carpenter Shop	. · ·	MA	VY 2520)12
10.	If application is for a Certificate of Operation (Initial or Renewal), are there a equipment or operation which <u>might</u> :	any changes		application	
	A. Increase, decrease, or alter process materials, fuel, refuse type, etc.?	Yes [No No		
	B. Increase, decrease, or alter emissions or emission points?	Yes D	🛛 No		
11.	Process Weight, lb/hr, (Item 6 on Form E010), Incineration Rate, lb/hr, (Item Rate, 1,000 Btu/hr, (Item 7C on Form E011): 450 lbs/hour	3C on Form	n E012), or Fue	l Burning	• •
				-	
	This is to certify that I am familiar with operations concerning this equipment is true and complete to the best of my knowledge: Mail completed form to:	t and the inf	ormation provi	ded on this a	application
	CHATTANOOGA-HAMILTON COUNTY AIR POLLUTION CONTROL BUREAU 6125 Preservation Drive, Suite 140 Chattanooga, TN 37416-3638	Str. M si	Name Name te Vice Preside	ent	:

5/10/2012

Date

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

••••

Engineering Date of Inspection: Certificate Fee:		Inspection Approval:	JAA
Supervisor Review:	EVR	Technical Research & Computer Time:	
SEE AT	TACHEL	D SPECIAL CON	DITIONS

Operations					
Check Rei	ceived by:JM	VP			
Check Amount:	\$2,670.00	_ Check No.: _	4912-80267460	Date:	08/02/2012
Update on (Computer:JW	<u>'P</u>			
	(Director	iles		
		August 16, 20 Date)12		

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	É001
03/20	011

1.	Name of Company : TVA Sequoyah Nuclear Plant 2. NAICS Code: 22113 (If corporation or LLC, name on file with Tennessee Secretary of State Corporate Records Division) 2.
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:
	Previous Installation Permit or Certificate of Operation No.: 4150-30900203-10C
8.	Type of equipment for which application is made:
	Process Equipment (Form E010 or Form E010A) Previously Submitted
	Fuel Burning Equipment (Form E011) Previously Submitted Attached
	Incineration Equipment (Form E012)
	Minor Pollution Source (Form E014) Previously Submitted Attached (Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled contaminant emissions) Attached
	The following forms are filed with this application:
9.	Equipment Name: MAY 2 5 2012 Abrasive Blasting Operation
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 <u>might</u> :
	A. Increase, decrease, or alter process materials, fuel, refuse type, etc.? 🗌 Yes 🛛 No
	B. Increase, decrease, or alter emissions or emission points?
1.	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 Site Vice President

Title 5/10/2012 Date

Chattanooga, TN 37416-3638

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

Engineering	of Inspection: <u>8/3/1</u>	2	Inspection	Approval:	Jar		
Ce	ertificate Fee: <u>\$200</u>	.00	, ·	· · ·			
Super	visor Review:	RR	Technical Re Compu	esearch & iter Time:			
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Expiration Date:	July 17, 2017		Certificate of C	peration N	p.: <u>4150</u> -:	30900203-	100
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Operations			<u></u>				
Check I	Received by:JW	<u>P</u>					· ·
Check Amount:	\$2,670.00	Check No.	: 4912-802	67460	Date:	08/02/2	012
Update o	n Computer:JWI	<u>,</u>				_	· · ·
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		Director	7	· .		÷.,	

Page 1 of 2

Tennessee Valley Authority – Sequoyah Nuclear Plant Special Conditions for Certificate of Operation No. 4150-30900203-10C 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. 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.

Tennessee Valley Authority – Sequoyah Nuclear Plant Special Conditions for Certificate of Operation No. 4150-30900203-10C

6.

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.

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 Corpor	ate Records Division)	2. NAICS	Code: 22113	
3.	Company Official to Contact: Lynne M. Koby		4. Phone N	No. 423-843-67	13
5.	Mailing Address: P.O. Box 2000 OPS 5N Soddy-Daisy, TN Street or P.O. Box	37384 City		State	Zip Code
6.	Physical Location (If different from line 5) Sequoyah Access Rd. Soddy-Daisy, TN 3 Street	37379 City		State	Zip Code
7.	Application for:	ficate of Operation	1	•	
	Previous Installation Permit or Certificate of Operation No	.: 4150-20200102	-11C		
8.	Type of equipment for which application is made:				
	Process Equipment (Form E010 or Form E010A)	Previously Subn	nitted		Attached
	Fuel Burning Equipment (Form E011)	Previously Subn	nitted		Attached
	Incineration Equipment (Form E012)	Previously Subr	nitted		Attached
	(Less than 1000 lbs/yr and less than 10 lbs/day total uncontrolled contain	Previously Subminant emissions)	nitted		Attached
	The following forms are filed with this application:				
		·		f. Carl	• • • •
9.	Equipment Name: Emergency Diesel Generators 1A, 1B, 2A, and 2B and Blackou	t Diesel Generator	rs 1 and 2	MAY 2	5 2012
0.	Are there any changes since previous application in the equipment	or operation which	h <u>might</u> :		
	A. Increase, decrease, or alter process materials, fuel, refuse type, e	etc.? 🗌 Yes	No No	in an	na an taon Na tao Ag
	B. Increase, decrease, or alter emissions or emission points?	🗌 Yes	No No		
1.	Process Weight, lb/hr, (Item 6 on Form E010), Incineration Rate, lk Rate, 1,000 Btu/hr, (Item 7C on Form E011): 190.6 E6 Btu/hr x 1	o/hr, (Item 3C on I gal/0.137 E6 Btu :	Form E012), x 7.05 lbs/gal	or Fuel Burning = 9,808 lbs/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: $(X) \land A$

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

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

Name

Site Vice President Title 5/10/2012 Date

Engineering			
Date of Inspection: Certificate Fee:		Inspection Approval:	
Supervisor Review:	EXP	Technical Research & Computer Time:	
· · ·			
SEE AT	TACHED	SPECIAL CONDITION	IS
Expiration Date: July 17, 201	7	Certificate of Operation No.: <u>4150-2</u>	0200102-11C

Check Re	ceived by:	VP			
Check Amount:	\$2,670.00	Check No.: _	4912-80267460	_ Date:	08/02/2012
Update on	Computer:JM	/P			
	4	Director	£		
. ·		August 16, 20 Date)12	· .	