

Enclosure Q

NFS Current Effluent Monitoring Permits

TENNESSEE AIR POLLUTION CONTROL BOARD
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
NASHVILLE, TENNESSEE 37243-1531



OPERATING PERMIT Issued Pursuant to Tennessee Air Quality Act

Date Issued: **MAR 21 1994**
Date Expires: November 1, 1998

Permit Number:
037723F

Issued To:

Nuclear Fuel Services, Inc.

Installation Address:

1205 Banner Hill Road
Erwin

Installation Description:

250 HP Steam Boiler and
150 HP Steam Boiler
To be Used as a Secondary or Supplement Steam
Source for the Plant

Emission Source Reference No:

86-0002-24
NSPS

The holder of this permit shall comply with the conditions contained in this permit as well as all applicable provisions of the Tennessee Air Pollution Control Regulations.

CONDITIONS:

1. The operating permit application that was utilized in the preparation of this permit is dated August 25, 1993 and signed by Mr. Andrew M. Maxim, Acting Vice President, Safety and Regulatory of the permitted facility. This permit does not cover any air contaminant source that does not conform to the conditions of this permit and the information given in the approved application. This includes compliance with the following operating parameters:

The maximum heat input to this source shall not exceed 11.00 million Btu per hour.

2. Particulate matter emitted from this source shall not exceed 0.57 pounds per million Btu (lbs/MM Btu) [6.27 pounds per hour (lbs/hr)].
3. The sulfur content of the fuel shall not exceed 0.5 percent.
4. Natural gas and No. 2 fuel oil only shall be used as fuels for this source.
5. Sulfur dioxide emitted from this source shall not exceed 0.5 lb/MM Btu (5.5 lbs/hr).

(conditions continue on the next page)

MAR 21 1994

John H. Nelson
TECHNICAL SECRETARY

Authority is Granted by this Permit to Operate, Construct, or Maintain any Installation in Violation of any Law, Statute, Code, or any other regulation of the State of Tennessee or its Political Subdivisions

NON TRANSFERABLE

POST OR FILE AT INSTALLATION ADDRESS

MAR 15 1991

037723F

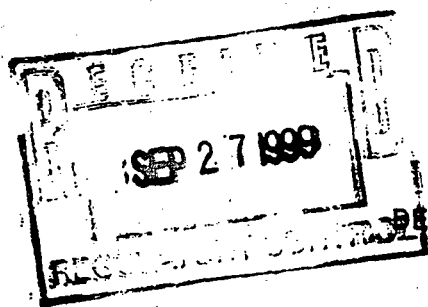
page 2 of 2 Pages

6. After the commencement of operation of the new 250 HP boiler, the relocated 150 HP boiler shall be used as a backup for the new boiler.
7. The new boiler and existing boiler may not be operated simultaneously; should operation of both boilers become necessary this permit will be subject to review. Such review may lead to the setting of additional emission standards.
8. A log of the fuel sampling and analysis results or shipment receipts from the fuel supplier for each shipment of #2 oil delivered certifying that the shipments contain less than 0.5 weight percent sulfur must be maintained at the source location and kept available for inspection by the Technical Secretary or his representative. This log must be retained for a period of not less than two years.
9. Visible emissions from the fuel burning equipment must meet an emission limit of twenty (20) percent opacity except for one six (6) minute period per hour of not more than 27 percent opacity as specified in the Federal Register, Volume 55, No. 177 on September 12, 1990. The opacity is to be measured by EPA method 9, as published in the Federal Register, Volume 39, No. 219 on November 12, 1974.
10. The permittee shall apply for renewal of this permit not less than sixty (60) days prior to the permit's expiration date pursuant to Division Rule 1200-3-9-.02(3).

(End of Conditions)



15N990172
GOV05
PERMIT
040471P(o)
051889P(N)



STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
9TH FLOOR L & C ANNEX
401 CHURCH STREET
NASHVILLE, TENNESSEE 37243-1531

OPERATING PERMIT RENEWAL

RENEWAL OF PERMIT # 040471P

ISSUED: SEP 23 1999
EXPIRES: NOVEMBER 1, 2008
NEW PERMIT #051889P

Dr. Thomas S. Baer, V.P., Safety & Regulatory
Nuclear Fuel Services, Inc.
P. O. Box 337
Erwin, TN 37650-0337

RE: 86-0002-27

Dear Dr. Baer:

This constitutes renewal of your operating permit number 040471P. The new operating permit number, and the issue and expiration date of this renewal are indicated above. The application that was utilized in preparation of this permit was signed and dated August 19, 1999.

The previous permit with issue number 040471P should be retained and posted or filed with this renewal at the installation address. Please remember to apply for an operating permit renewal at least 60 (sixty) days prior to the expiration of this renewal.

If you have potential to emit equal to or above the major source threshold levels of 100 tons per year of any regulated pollutant, or 10 tons per year of any hazardous air pollutant (HAP), or 25 tons per year of any combination of hazardous air pollutants, you must file a Title V (major source) operating permit application within 120 days of discovery of the fact. These terms are defined in Attachments 1 and 2.

If you have any questions concerning this letter please contact Greg Forte or Tupili Reddy at (615)-532-0554.

Thank you for your cooperation.

Sincerely,

Tracy E. Carter
Tracy E. Carter
Technical Secretary

Tennessee Air Pollution Control Board

cc: Johnson city EAC

Enclosures

TENNESSEE AIR POLLUTION CONTROL BOARD
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
NASHVILLE, TENNESSEE 37243-1531



Permit to Construct or Modify an Air Contaminant Source Issued Pursuant to Tennessee Air Quality Act

Date Issued: October 10, 2002

Permit Number:

Date Amended: October 22, 2003

Amendment

955420P

Date Expires: December 31, 2004

Issued To:

Nuclear Fuel Services, Inc.

Installation Address:

1205 Banner Hill Road
Erwin

Installation Description:

Enriched Uranium Processing and
Mercury Mixed Waste Treatment Process
Located in Bldg. 300 Complex and Bldg. 333
Complex with Emissions Controlled by Activated
Carbon, HEPA Filtration, Filters, and Venturi and
Demisting Scrubbers. Unloading System and
Precipitation Column. Modification: Material Input
Changes, Addition of Recovery and Blending Process in Bldg. 333
Removal of Bldg. 200 Complex Process Operations from Permit.

Emission Source Reference No.

86-0002-08

The holder of this permit shall comply with the conditions contained in this permit as well as all applicable provisions of
Tennessee Air Pollution Control Regulations.

CONDITIONS:

1. The application that was utilized in the preparation of this permit is dated March 27, 2002 and signed by B. Marie Moore, Vice-President of Safety and Regulatory for the permitted facility. If this person terminates his/her employment or is reassigned different duties such that he/she is no longer the responsible person to represent and bind the facility in environmental permitting affairs, the owner or operator of this air contaminant source shall notify the Technical Secretary of the change. Said notification shall be in writing and submitted within thirty (30) days of the change. The notification shall include the name and title of the new person assigned by the source owner or operator to represent and bind the facility in environmental permitting affairs. All representations, agreement to terms and conditions and covenants made by the former responsible person that were used in the establishment of limiting permit conditions on this permit will continue to be binding on the facility until such time that a revision to this permit is obtained that would change said representations, agreements and covenants.

(conditions continued on next page)

TECHNICAL SECRETARY

No Authority is Granted by this Permit to Operate, Construct, or Maintain any Installation in Violation of any Law, Statute, Code, Ordinance, Rule, or Regulation of the State of Tennessee or any of its Political Subdivisions.

NON-TRANSFERABLE

POST AT INSTALLATION ADDRESS

2. Maximum process material input rates shall not exceed the amounts given in the approved application dated March 27, 2002.

Particulate matter emitted from this source shall not exceed 1.0 pound per hour. This limitation is established pursuant to Rule 1200-3-7-.01(5) of the Tennessee Air Pollution Control Regulations and the information contained in the agreement letter dated February 10, 1998 from the permittee.

4. Sulfur dioxide (SO₂) emitted from this source shall not exceed 1.0 pound per hour. This limitation is established pursuant to Rule 1200-3-14-.01(3) of the Tennessee Air Pollution Control Regulations and the information contained in the agreement letter dated October 9, 2002 from the permittee.
 5. Nitrogen oxides (NO_x) emitted from this source shall not exceed 5.282 pound per hour.
 6. Volatile organic compounds (VOC) emitted from this source shall not exceed 0.304 pound per hour.
 7. Carbon monoxide (CO) emitted from this source shall not exceed 0.045 pound per hour.
 8. Hydrogen flouride (HF) emitted from this source shall not exceed 0.061 pound per hour.
 9. Hydrogen Chloride (HCl) emitted from this source shall not exceed 0.213 pound per hour.
 10. Ammonia emitted from this source shall not exceed 2.005 pound per hour.
 11. Silicon tetraflouride (SiF₄) emitted from this source shall not exceed 0.016 pound per hour.
- Nitric acid emitted from this source shall not exceed 0.097 pound per hour.
13. Hydrogen sulfide (H₂S) emitted from this source shall not exceed 0.00559 pound per hour.
 14. Mercury emitted from this source shall not exceed 0.00072 pound per hour.
 15. The owner or the operator of this facility shall use, operate, and maintain all air pollution control equipment associated with this operation in good working condition.
 16. Routine maintenance, as required to maintain specified emission limits, shall be performed on the air pollution control device(s). Maintenance records shall be recorded in a suitable permanent form and kept available for inspection by the Division. These records must be retained for a period of not less than five years.
 17. Upon the malfunction/failure of any emission control device(s) serving this source, the operation of the process(es) served by the device(s) shall be regulated by Chapter 1200-3-20 of the Tennessee Air Pollution Control Regulations.
 18. Visible emissions from the stack(s) shall not exceed twenty percent (20%) or greater opacity as determined by EPA Method 9, as published in the Federal Register, Volume 39, Number 219 on November 12, 1974. (6 minute average)
 19. This permit shall not preclude any requirements promulgated by the Division of Radiological Health, Division of Water Pollution Control, and the Division of Solid Waste Management.

nditions continued on next page)

20. The issuance of this permit supersedes operating permit #950886P previously issued for this air contaminant source.

This permit shall serve as a temporary operating permit for the existing equipment during the installation of the new process equipment and as a temporary operating permit for the entire facility from start-up of modified air contaminant source until the receipt of a standard operating permit, provided the operating permit is applied for within thirty (30) days of start-up of the modified air contaminant source and the conditions of this permit and any applicable emission standards are met.

22. The permittee shall certify the start-up date of the modified air contaminant source regulated by this permit by submitting

A COPY OF ALL PAGES OF THIS PERMIT

with the information required in A) and B) of this condition completed, to the Technical Secretary's representatives listed below:

A) DATE OF START-UP: Sept. / 8 / 2004
month day year

B) Anticipated operating rate: 67 percent of maximum rated capacity

For the purpose of complying with this condition, "start-up" of the modified air contaminant source shall be the date of the setting in operation of the modified source for the production of product for sale or use as raw materials or steam or heat production.

The undersigned represents that he/she has the full authority to represent and bind the permittee in environmental permitting affairs. The undersigned further represents that the above provided information is true to the best of his/her knowledge and belief.

Signature		Date
<i>B. Marie Moore</i>		<i>9/15/04</i>
Signer's name (type or print)	Title	Phone (with area code)
B. Marie Moore	Vice President, Safety & Regulatory	423-743-1737

Note: This certification is not an application for an operating permit. At a minimum, the appropriate application form, usually an APC-20, must be submitted requesting an operating permit. The application must be submitted in accordance with the requirements of this permit.

The completed certification shall be delivered to Compliance Validation Program and the Field Office at the addresses listed below no later than 30 days after the modified air contaminant source is started-up.

Division of Air Pollution Control
Compliance Validation Program
9th Floor, L & C Annex
401 Church Street
Nashville, TN 37243-1531

Division of Air Pollution Control
Johnson City Field Office
2305 Silverdale Road
Johnson City, TN 37601-2162

1 of conditions)

The permit application gives the location of this source as 36°07'50" latitude; 82°26'00" Longitude.

OCT 2 2 2003

955420P

page 4 of 4

October 22, 2003 – This permit is amended in accordance with the permittee request dated September 5, 2003:

Change expiration date from October 10, 2003 to December 31, 2004.

TENNESSEE AIR POLLUTION CONTROL BOARD
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
NASHVILLE, TENNESSEE 37243-1531

15N030030
GOV05
BLEU



Permit to Construct or Modify an Air Contaminant Source Issued Pursuant to Tennessee Air Quality Act

Date Issued: November 1, 2002

Permit Number:

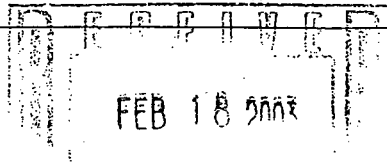
Date Amended: February 13, 2003 (AMENDMENT)

955540P

Date Expires: February 13, 2005

Issued To:

Nuclear Fuel Services, Inc.



Installation Address:

1205 Banner Hill Road
Erwin

Installation Description:

Blended Low Enriched Uranium (BLEU) Complex

Facility Operations, which include:

(1) Oxide Conversion Bldg. (OCB) to process liquid uranyl nitrate solution, natural uranium trioxide, and uranium oxide Emissions Controlled by Wet Scrubbing and HEPA Filtration.

(2) Effluent Processing Bldg. (EPB) to process liquid streams from the OCB Including ammonia recovery, evaporation, and liquid stabilization processes Emissions Controlled by Wet Scrubbing.

(3) 4.1 million Btu/hr boiler (E-69) for steam production for the BLEU Complex
No Controls

Emission Source Reference No.

86-0002-28

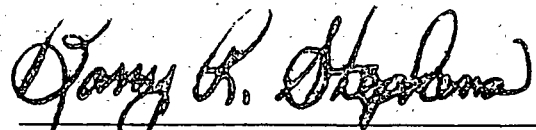
Conditional Major

The holder of this permit shall comply with the conditions contained in this permit as well as all applicable provisions of the Tennessee Air Pollution Control Regulations.

CONDITIONS:

1. The application that was utilized in the preparation of this permit is dated May 23, 2002 and signed by B. Marie Moore, Vice-President of Safety and Regulatory for the permitted facility. If this person terminates his/her employment or is reassigned different duties such that he/she is no longer the responsible person to represent and bind the facility in environmental permitting affairs, the owner or operator of this air contaminant source shall notify the Technical Secretary of the change. Said notification shall be in writing and submitted within thirty (30) days of the change. The notification shall include the name and title of the new person assigned by the source owner or operator to represent and bind the facility in environmental permitting affairs. All representations, agreement to terms and conditions and covenants made by the former responsible person that were used in the establishment of limiting permit conditions on this permit will continue to be binding on the facility until such time that a revision to this permit is obtained that would change said representations, agreements and covenants.

(conditions continued on next page)


TECHNICAL SECRETARY

No Authority is Granted by this Permit to Operate, Construct, or Maintain any Installation in Violation of any Law, Statute, Code, Ordinance, Rule, or Regulation of the State of Tennessee or any of its Political Subdivisions.

NON-TRANSFERABLE

POST AT INSTALLATION ADDRESS

2. The issuance of this permit supersedes any previously issued permit(s) for this process emission source.
3. Maximum process material input rates shall not exceed the amounts given in the approved application dated May 23, 2002.
4. The maximum total heat input capacity for the boiler (E-69) shall not exceed 4.1 million British Thermal Units per hour (MMBTU/Hr), on a monthly average basis. The Technical Secretary may require proof of compliance with this limit.
5. Only natural gas shall be used as fuel for this source.
6. The maximum material throughput rate for the Uranium Oxide Dissolution Process (OCB) shall not exceed the following limit in tons per year in total, on a 12-month moving average basis.

Material	Maximum material throughput Tons per year
Uranium Oxide	60

7. An annual log of Uranium Oxide used, in a form that readily provides the information required in the table(s) below, shall be maintained at the source location and kept available for inspection by the Technical Secretary or his representative. This record shall be retained for a period of not less than five (5) years.

Date	Uranium Oxide (Pounds)	Date	Uranium Oxide (Pounds)	Date	Uranium Oxide (Pounds)
1		12		23	
2		13		24	
3		14		25	
4		15		26	
5		16		27	
6		17		28	
7		18		29	
8		19		30	
9		20		31	
10		21			
11		22			
Total(s) for the month of _____, 20					

Month	Uranium Oxide (Tons)	Month	Uranium Oxide (Tons)	Month	Uranium Oxide (Tons)
January		May		September	
February		June		October	
March		July		November	
April		August		December	
Total(s) for calendar year 20					

8. The permittee has elected to opt-out of being issued a major source operating permit pursuant to Division Rule 1200-3-9-.02 (11)(a). The permittee would be considered a major source because their "potential to emit" value for nitrogen oxides (NO_x) was greater than 100 tons per year at the time of application. The permittee has agreed to be subject to limitations in order to be below the major source applicability threshold for nitrogen oxides (NO_x) of 100 tons per year.

(conditions continued on next page)

9. Any non-compliance with any condition(s) of this permit set to restrain the "potential to emit" below the applicability thresholds of 1200-3-9-.02(11) of the Tennessee Air Pollution Control Regulations shall be reported in writing to the Technical Secretary within three (3) working days of such discovery. This notification, at a minimum, shall include the identification of the source, identification of the permit condition(s) violated, and details of the violation.
10. In the event that it is discovered that this source discharges any federally identified toxic, unlisted emissions and/or emissions in excess of the permitted levels, this permit will be subject to review. Such review may lead to the setting of additional emission standards and/or installation of suitable control equipment if recommended by the Technical Secretary.
11. The issuance of this permit does not exempt the permittee from any requirements of the Environmental Protection Agency pertaining to the emissions from the operation of this source.
12. Particulate matter emitted from this source shall not exceed 1.0 pounds per hour. This limitation is established pursuant to Rule 1200-3-7-.01(5) of the Tennessee Air Pollution Control Regulations and the information contained in the agreement letter dated October 18, 2002 from the permittee.
13. Sulfur dioxide (SO₂) emitted from this source shall not exceed 0.5 pound per hour. This limitation is established pursuant to Rule 1200-3-14-.03(5) of the Tennessee Air Pollution Control Regulations.
14. Nitrogen oxides (NO_x) emitted from this source shall not exceed 17.88 pounds per hour and 21.0 tons per year.
15. The pollution control equipment (wet scrubber) used by this source (86-0002-28) shall be operating when this source is operating, except in accordance with TAPCD Rule 1200-3-20, in order to comply with the emissions limitation of *Condition 14* of this permit. A monthly log of maintenance and problems/repair actions and dates shall be kept for this control equipment. This log must be retained for a period of not less than five years.
16. Ammonia emitted from this source shall not exceed 7.7 pounds per hour.
17. No parts of this source shall operate without the associated pollution control equipment(s).
18. The owner or the operator of this facility shall use, operate, and maintain all air pollution control equipment associated with this operation in good working condition.
19. Routine maintenance, as required to maintain specified emission limits, shall be performed on the air pollution control device(s). Maintenance records shall be recorded in a suitable permanent form and kept available for inspection by the Division. These records must be retained for a period of not less than five years.
20. Upon the malfunction/failure of any emission control device(s) serving this source, the operation of the process(es) served by the device(s) shall be regulated by Chapter 1200-3-20 of the Tennessee Air Pollution Control Regulations.
21. Visible emissions from the stack(s) shall not exceed twenty percent (20%) or greater opacity as determined by EPA Method 9, as published in the Federal Register, Volume 39, Number 219 on November 12, 1974. (6 minute average)

(conditions continued on next page)

22. This permit shall not preclude any requirements promulgated by the Division of Radiological Health, Division of Water Pollution Control, and the Division of Solid Waste Management.
23. The permittee shall apply for an updated Conditional Major operating permit within ninety (90) days of start-up of this new source.
24. The permittee shall certify the start-up date of the air contaminant source regulated by this permit by submitting

A COPY OF ALL PAGES OF THIS PERMIT,

with the information required in A) and B) of this condition completed, to the Technical Secretary's representatives listed below:

A) DATE OF START-UP: 09 / 12 / 04
month day year

B) Anticipated operating rate: 75 percent of maximum rated capacity

For the purpose of complying with this condition, "start-up" of the modified air contaminant source shall be the date of the setting in operation of the modified source for the production of product for sale or use as raw materials or steam or heat production.

The undersigned represents that he/she has the full authority to represent and bind the permittee in environmental permitting affairs. The undersigned further represents that the above provided information is true to the best of his/her knowledge and belief.

Signature <i>B. Marie Moore</i>		Date <i>9/30/04</i>
Signer's name (type or print) B. Marie Moore	Title Vice President Safety & Regulatory	Phone (with area code) 423-743-1737

Note: This certification is not an application for an operating permit. At a minimum, the appropriate application form, usually an APC-20, must be submitted requesting an operating permit. The application must be submitted in accordance with the requirements of this permit.

The completed certification shall be delivered to Compliance Validation Program and the Field Office at the addresses listed below no later than 30 days after the modified air contaminant source is started-up.

Division of Air Pollution Control
Compliance Validation Program
9th Floor, L & C Annex
401 Church Street
Nashville, TN 37243-1531

Division of Air Pollution Control
Johnson City Field Office
2305 Silverdale Road
Johnson City, TN 37601-2162

(end of conditions)

The permit application gives the location of this source as 36°07'44.15" latitude; 82°26'05.60" Longitude.

TENNESSEE AIR POLLUTION CONTROL BOARD
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
NASHVILLE, TENNESSEE 37243-1531



Permit to Construct or Modify an Air Contaminant Source Issued Pursuant to Tennessee Air Quality Act

Date Issued: September 6, 2001

Permit Number:

Date Amended: October 30, 2001 [AMENDMENT]

954441P

2nd Amendment: June 12, 2003

3rd Amendment: April 1, 2004

Date Expires: July 2, 2004

Issued To:

Nuclear Fuel Services, Inc.

Installation Address:

1205 Banner Hill Road
Erwin

Installation Description:

Radioactive Nuclear Waste Water
Treatment Facility. Modification:
Addition of 6 new Process Tanks, 2
Storage Tanks & Stack Extension as
Part of new Oxidation Treatment Process.

Emission Source Reference No.

86-0002-12

The holder of this permit shall comply with the conditions contained in this permit as well as all applicable provisions of the Tennessee Air Pollution Control Regulations.

CONDITIONS:

1. The application that was utilized in the preparation of this permit is dated March 14, 2001 (with June 7, 2001 update) and is signed by B. Marie Moore, Vice President, Safety & Regulatory for the permitted facility. If this person terminates his/her employment or is reassigned different duties such that he/she is no longer the responsible person to represent and bind the facility in environmental permitting affairs, the owner or operator of this air contaminant source shall notify the Technical Secretary of the change. Said notification shall be in writing and submitted within thirty (30) days of the change. The notification shall include the name and title of the new person assigned by the source owner or operator to represent and bind the facility in environmental permitting affairs. All representations, agreement to terms and conditions and covenants made by the former responsible person that were used in the establishment of limiting permit conditions on this permit will continue to be binding on the facility until such time that a revision to this permit is obtained that would change said representations, agreements and covenants.

(conditions continued on next page)

TECHNICAL SECRETARY

No Authority is Granted by this Permit to Operate, Construct, or Maintain any Installation in Violation of any Law, Statute, Code, Ordinance, Rule, or Regulation of the State of Tennessee or any of its Political Subdivisions.

NON-TRANSFERABLE

POST AT INSTALLATION ADDRESS

2. The maximum waste water/chemical input rate (PWR) for this source (per batch) shall not exceed 4967 pounds per hour (lbs/hr), 48-hr average (batch time).
3. Ammonia emitted from this source shall not exceed 14.5 lbs/hr.
4. Visible emissions from this source shall not exceed 20 percent or greater opacity as determined by EPA Method 9, as published in the Federal Register, Volume 39, Number 219 on November 12, 1974. (6 minute average)
5. If visible emissions exceed the limits specified in Condition 5 of this permit, a stack test may be required.
6. A monthly log of the process waste/other chemicals input rates, in a form that readily shows compliance with Condition #2, shall be maintained at the source location and kept available for inspection by the Technical Secretary or his representative. The log shall be retained for a period of not less than two years. This source shall be considered to have demonstrated compliance with the emission limit in condition #3 as long as the limit in condition #2 is not exceeded..
7. The issuance of this permit does not exempt the permittee from any requirements of the Environmental Protection Agency pertaining to the emissions from the operation of this new source.
8. The issuance of this construction permit supersedes any previously issued permit for this air contaminant source.
9. The permittee shall certify the start-up date of the air contaminant source regulated by this permit by submitting

A COPY OF ALL PAGES OF THIS PERMIT, with the information required in A) and B) of this condition completed, to the Technical Secretary's representatives listed below:

A) DATE OF START-UP: _____ / _____ / _____
month day year

B) Anticipated operating rate: _____ percent of maximum rated capacity

For the purpose of complying with this condition, "start-up" of the air contaminant source shall be the date of the setting in operation of the source for the production of product for sale or use as raw materials or steam or heat production.

The undersigned represents that he/she has the full authority to represent and bind the permittee in environmental permitting affairs. The undersigned further represents that the above provided information is true to the best of his/her knowledge and belief.

Signature		Date
Signer's name (type or print)	Title	Phone (with area code)

Note: This certification is not an application for an operating permit. At a minimum, the appropriate application form(s) must be submitted requesting an operating permit. The application must be submitted in accordance with the requirements of this permit.

The completed certification shall be delivered to the Compliance Validation Program and the Environmental Assistance Center at the addresses listed below, no later than thirty (30) days after the air contaminant source is started-up.

Compliance Validation Program
Division of Air Pollution Control
9th Floor, L & C Annex
401 Church Street
Nashville, TN 37243-1531

Johnson City Environmental Assistance Center
Division of Air Pollution Control
2305 Silverdale Road
Johnson City, TN 37601-2162

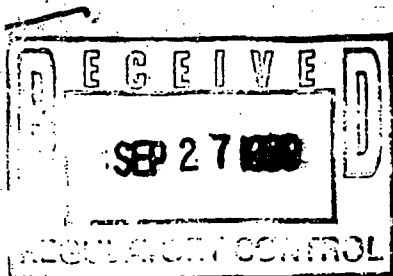
(end of conditions)

The permit application gives the location of this source as 36°07'50" N Latitude and 82°25'57.5" W Longitude.

This permit is amended per company's letter dated October 4, 2001. Then amendments are as follows: deletion of original condition 4, revise condition 2 to include batch average and modify the condition for log requirements (condition 6).

This permit is amended per company's letter dated April 30, 2003 to extend the permit expiration date to April 30, 2004.

This permit is amended per company's letter dated March 19, 2004 to extend the permit expiration date to July 2, 2004.



15N990173
GOV05
PERMIT
042347P(o)
051893P(n)

STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
9TH FLOOR L & C ANNEX
401 CHURCH STREET
NASHVILLE, TENNESSEE 37243-1531

OPERATING PERMIT RENEWAL

RENEWAL OF PERMIT # 042347P

ISSUED: **SEP 23 1999**
EXPIRES: **NOVEMBER 1, 2008**
NEW PERMIT #051893P

Dr. Thomas S. Baer, V.P., Safety & Regulatory
Nuclear Fuel Services, Inc.
P. O. Box 337
Erwin, TN 37650-0337

RE: 86-0002-21

Dear Dr. Baer:

This constitutes renewal of your operating permit number 042347P. The new operating permit number, and the issue and expiration date of this renewal are indicated above. The application that was utilized in preparation of this permit was signed and dated August 19, 1999.

The previous permit with issue number 042347P should be retained and posted or filed with this renewal at the installation address. Please remember to apply for an operating permit renewal at least 60 (sixty) days prior to the expiration of this renewal.

If you have potential to emit equal to or above the major source threshold levels of 100 tons per year of any regulated pollutant, or 10 tons per year of any hazardous air pollutant (HAP), or 25 tons per year of any combination of hazardous air pollutants, you must file a Title V (major source) operating permit application within 120 days of discovery of the fact. These terms are defined in Attachments 1 and 2.

If you have any questions concerning this letter please contact Greg Forte or Tupili Reddy at (615)-532-0554.

Thank you for your cooperation.

Sincerely,

Tracy E. Carter

Tracy E. Carter
Technical Secretary
Tennessee Air Pollution Control Board

cc: Johnson city EAC

Enclosures

FEB 19 1999

REGULATORY CONTROL



STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
9TH FLOOR L & C ANNEX
401 CHURCH STREET
NASHVILLE, TENNESSEE 37243-1531

OPERATING PERMIT RENEWAL

RENEWAL OF PERMIT # 037723P

ISSUED: FEB 17 1999
EXPIRES: NOVEMBER 1, 2008
NEW PERMIT #050434F

Dr. Thomas S. Baer, V.P., Safety & Regulatory
Nuclear Fuel Services, Inc.
P. O. Box 337
Erwin, TN 37650-9301

RE: 86-0002-24

Dear Dr. Baer:

This constitutes renewal of your operating permit number 037723P. The new operating permit number, and the issue and expiration date of this renewal are indicated above. The application that was utilized in preparation of this permit was signed and dated August 14, 1998.

The previous permit with issue number 037723P should be retained and posted or filed with this renewal at the installation address. Please remember to apply for an operating permit renewal at least 60 (sixty) days prior to the expiration of this renewal.

If you have potential to emit equal to or above the major source threshold levels of 100 tons per year of any regulated pollutant, or 10 tons per year of any hazardous air pollutant (HAP), or 25 tons per year of any combination of hazardous air pollutants, you must file a Title V (major source) operating permit application within 120 days of discovery of the fact. These terms are defined in Attachments 1 and 2.

If you have any questions concerning this letter please contact Greg Forte or Tupili Reddy at (615)-532-0554.

Thank you for your cooperation.

Sincerely,

for Greg Forte

Tracy R. Carter
Technical Secretary
Tennessee Air Pollution Control Board

cc: Johnson city EAC

Enclosures

TENNESSEE AIR POLLUTION CONTROL BOARD
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
NASHVILLE, TENNESSEE 37243-1531



OPERATING PERMIT Issued Pursuant to Tennessee Air Quality Act

Date Issued: **MAY 25 1995**

Permit Number:
040471P

Date Expires: November 1, 1999

Issued To:
Nuclear Fuel Services, Inc.

Installation Address:
1205 Banner Hill Road
Erwin

Installation Description:
Groundwater Treatment Process
with an Activated Carbon Filter Control

Emission Source Reference No.
86-0002-27

The holder of this permit shall comply with the conditions contained in this permit as well as all applicable provisions of the Tennessee Air Pollution Control Regulations.

CONDITIONS:

1. The application that was utilized in the preparation of this permit is dated September 8, 1994 and signed by Andrew M. Maxin, Vice President, Safety & Regulatory of the permitted facility. If this person terminates his/her employment or is reassigned different duties such that he/she is no longer the responsible person to represent and bind the facility in environmental permitting affairs, the owner or operator of this air contaminant source shall notify the Technical Secretary of the change. Said notification shall be in writing and submitted within thirty (30) days of the change. The notification shall include the name and title of the new person assigned by the source owner or operator to represent and bind the facility in environmental permitting affairs. All representations, agreement to terms and conditions and covenants made by the former responsible person that were used in the establishment of limiting permit conditions on this permit will continue to be binding on the facility until such time that a revision to this permit is obtained that would change said representations, agreements and covenants.

(continued on the next page)

John W. Walton

TECHNICAL SECRETARY

No Authority is Granted by this Permit to Operate, Construct, or Maintain any Installation in Violation of any Law, Statute, Code, Ordinance, Rule, or Regulation of the State of Tennessee or any of its Political Subdivisions.

NON TRANSFERABLE

POST AT INSTALLATION ADDRESS

MAY 25 1985

040471P
page 2 of 2

This permit does not cover any air contaminant source that does not conform to the conditions of this permit and the information given in the approved application. This includes compliance with the following operating parameters:

Volatile Organic Compounds (VOC) emitted from this source shall not exceed 0.6 pounds per hour.

3. The activated carbon filter shall be utilized any time vinyl chloride is detected by sampling of the incoming groundwater.
4. The contaminated groundwater shall be tested every month for toxic concentrations and types of contamination. The test procedures shall be determined according to methods recommended by the Environmental Protection Agency.
5. Should the test results required by condition 4 of this permit indicate that vinyl chloride and other hazardous air contaminants are non-detectable for the first three months, then the test may be conducted every quarter during the course of the treatment. The results of any non-compliance which would result in an emissions increase and/or type of contamination must be reported to the Technical Secretary within fifteen (15) days of completion of the test.
6. Visible emissions from this source shall not exceed 20 percent or greater opacity as determined by EPA Method 9, as published in the Federal Register, Volume 39, Number 219 on November 12, 1974. (6 minute average)
7. Sixty (60) days prior to the expiration of this permit, the permittee shall apply for permit renewal.

(END OF CONDITIONS)

TENNESSEE AIR POLLUTION CONTROL BOARD
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
NASHVILLE, TENNESSEE 37243-1531



OPERATING PERMIT Issued Pursuant to Tennessee Air Quality Act

Date Issued: May 21, 1995

Permit Number:
042347P

Date Expires: November 1, 1999

Issued To:
Nuclear Fuel Services, Inc.

Installation Address:
1205 Banner Hill Road
Erwin

Installation Description:
Research and Development Laboratory
and Soil Treatment Pilot Plant
Wet Scrubber Control (Building 110 A/B)

Emission Source Reference No.
86-0002-21

The holder of this permit shall comply with the conditions contained in this permit as well as all applicable provisions of the Tennessee Air Pollution Control Regulations.

CONDITIONS:

The application that was utilized in the preparation of this permit is dated May 25, 1995 and signed by Andrew M. Maxin, Vice President Safety and Regulatory of the permitted facility. If this person terminates his/her employment or is reassigned different duties such that he/she is no longer the responsible person to represent and bind the facility in environmental permitting affairs, the owner or operator of this air contaminant source shall notify the Technical Secretary of the change. Said notification shall be in writing and submitted within thirty (30) days of the change. The notification shall include the name and title of the new person assigned by the source owner or operator to represent and bind the facility in environmental permitting affairs. All representations, agreement to terms and conditions and covenants made by the former responsible person that were used in the establishment of limiting permit conditions on this permit will continue to be binding on the facility until such time that a revision to this permit is obtained that would change said representations, agreements and covenants.

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John W. Maxin

TECHNICAL SECRETARY

No Authority is Granted by this Permit to Operate, Construct, or Maintain any Installation in Violation of any Law, Statute, Code, Ordinance, Rule, or Regulation of the State of Tennessee or any of its Political Subdivisions.

NON TRANSFERABLE

POST AT INSTALLATION ADDRESS

This permit does not cover any air contaminant source that does not conform to the conditions of this permit and the information given in the approved application. This includes compliance with the following operating parameters:

Maximum process material input rate shall not exceed 540 pounds per hour.

3. Particulate matter emitted from this source shall not exceed 0.1 pounds per hour (0.07 tons per year). This emission limitation is established pursuant to Rule 1200-3-7-.01(5) of the Tennessee Air Pollution Control Regulations and the information contained in the agreement letter dated August 4, 1994 from the permittee.
4. Nitrogen oxides emitted from this source shall not exceed 2.7 pounds per hour (5.72 tons per year). This emission limitation is established pursuant to the information contained in the agreement letter dated August 4, 1994 from the permittee.
5. Mercury emitted from this source shall not exceed 0.004 pounds per hour (0.004 tons per year). This emission limitation is established pursuant to the information contained in the agreement letter dated August 4, 1994 from the permittee.
6. Visible emissions from this source shall not exceed 20 percent or greater opacity as determined by EPA Method 9, as published in the Federal Register, Volume 39, Number 219 on November 12, 1974. (6 minute average)
7. The issuance of this permit does not exempt the permittee from any requirements of the Environmental Protection Agency pertaining to the emissions from the operation of this source.
8. Sixty (60) days prior to the expiration of this permit, the permittee shall apply for permit renewal.

(END OF CONDITIONS)

TENNESSEE AIR POLLUTION CONTROL BOARD
NASHVILLE, TENNESSEE 37219



Permit issued pursuant to Tennessee Air Quality Act

Date Issued: APR 12 1982

Permit Number:

Expires:

017604P

Issued to:

Nuclear Fuel Services, Inc.

Installation Address:

Carolina Avenue
Erwin

Installation Description:

B-234AC Nuclear Reactor Fuels
Plutonium Nitrate to Oxide, Pellets, Rods
& Assembly with HEPA Filters and Wet Scrubber
38.5 lbs/hr PWR

Emission Source Reference No.:

86-0002-06

The holder of this permit shall comply with the conditions contained in this permit as well as all applicable provisions of the Tennessee Air Pollution Control Regulations.

CONDITIONS:

1. This installation is to operate within the applicable visible emission limits as stated in Chapter 1200-3-5, 1200-3-11, and/or 1200-3-16 of the Tennessee Air Pollution Control Regulations.
2. This permit does not cover any air contaminant source that does not conform to the conditions of this permit and the information given in the approved application.

A handwritten signature in cursive script, reading "Harold E. Hodges".

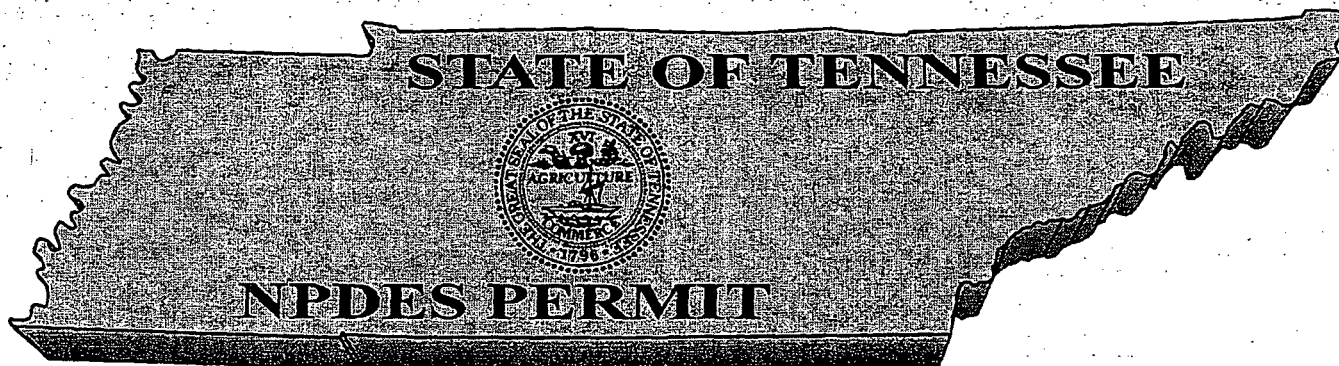
HAROLD E. HODGES, P. E.
TECHNICAL SECRETARY

authority is granted by this permit to operate, construct, or maintain any installation in violation of any law, rule, regulation, or order of the State of Tennessee or any of its political subdivisions.

NON TRANSFERABLE

POST OR FILE AT INSTALLATION ADDRESS

PH-0423



No. TN0002038

Authorization to discharge under the
National Pollutant Discharge Elimination System (NPDES)

Issued By

**Tennessee Department of Environment and Conservation
Division of Water Pollution Control
401 Church Street
6th Floor, L & C Annex
Nashville, Tennessee 37243-1534**

Under authority of the Tennessee Water Quality Control Act of 1977 (T.C.A. 69-3-101 et seq.) and the delegation of authority from the United States Environmental Protection Agency under the Federal Water Pollution Control Act, as amended by the Clean Water Act of 1977 (33 U.S.C. 1251, et seq.)

Discharger: **Nuclear Fuel Services**

is authorized to discharge: **wastewater from fenton's treatment process, laboratory facilities, laundry facility, fuel production facilities, low enriched radioactive operation, high enriched radioactive recovery operations, fuel development, and miscellaneous activities through Outfall 001**

from a facility located: **in Erwin, Unicoi County, Tennessee**

to receiving waters named: **Nolichucky River at mile 94.6**

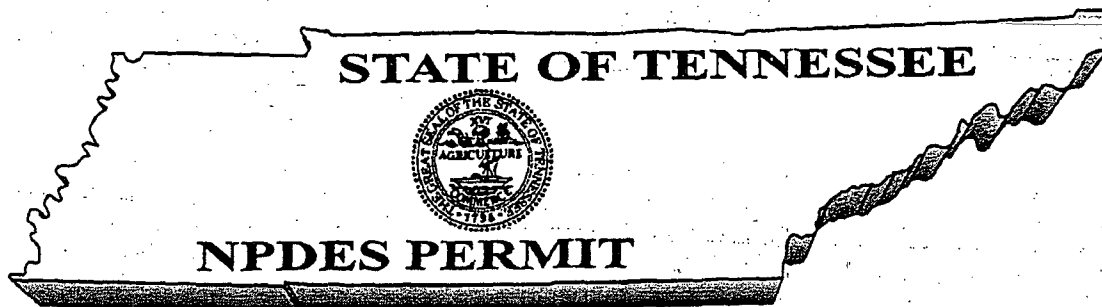
in accordance with effluent limitations, monitoring requirements and other conditions set forth herein.

This permit shall become effective on: **August 1, 2006**

This permit shall expire on: **August 31, 2010**

Issuance date: **June 30, 2006**

Paul E. Davis, Director
Division of Water Pollution Control



Tracking No. TNR050873

General NPDES Permit for
**STORM WATER DISCHARGES ASSOCIATED WITH
INDUSTRIAL ACTIVITY (TMSP)**

Tennessee Department of Environment and Conservation
Division of Water Pollution Control
401 Church Street
6th Floor, L&C Annex
Nashville, Tennessee 37243-1534

Under authority of the Tennessee Water Quality Control Act of 1977 (T.C.A. 69-3-101 et seq.) and the delegation of authority from the United States Environmental Protection Agency under the Federal Water Pollution Control Act, as amended by the Clean Water Act of 1977 (33 U.S.C. 1251, et seq.):

Discharger: **Nuclear Fuel Services, Inc.**
is authorized to discharge: storm water associated with industrial activity
from a facility located at: **1205 Banner Hill Road in Erwin, Unicoi County**
to receiving waters named: **Martins Creek (mile marker N/A), and Nolichucky River (mile marker 95)**
in accordance with effluent limitations, monitoring requirements and other conditions set forth herein.

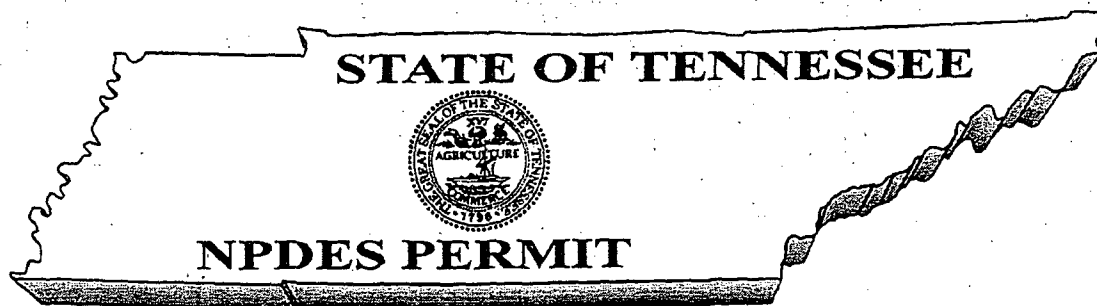
Coverage under this general permit shall become effective on **August 4, 2009** and shall expire on **May 14, 2014**.

Notice of Coverage Issuance date: **August 4, 2009**

Paul E. Davis, Director
Division of Water Pollution Control

Applicable Sector(s): **C P**

TMSP Requirements and Sectors are located at <http://www.state.tn.us/environment/permits/strmh2o.shtml>



Tracking No. TNR056583

General NPDES Permit for
**STORM WATER DISCHARGES ASSOCIATED WITH
INDUSTRIAL ACTIVITY (TMSP)**

Tennessee Department of Environment and Conservation
Division of Water Pollution Control
401 Church Street
6th Floor, L&C Annex
Nashville, Tennessee 37243-1534

Under authority of the Tennessee Water Quality Control Act of 1977 (T.C.A. 69-3-101 et seq.) and the delegation of authority from the United States Environmental Protection Agency under the Federal Water Pollution Control Act, as amended by the Clean Water Act of 1977 (33 U.S.C. 1251, et seq.):

Discharger: **AREVA NP**
is authorized to discharge: storm water associated with industrial activity
from a facility located at: **200 Oxide Lane in Erwin, Unicoi County**
to receiving waters named: **Martins Creek to Nolichucky River at mile 95**

in accordance with effluent limitations, monitoring requirements and other conditions set forth herein.

Coverage under this general permit shall become effective on **August 4, 2009** and shall expire on **May 14, 2014**.

Notice of Coverage Issuance date: **August 4, 2009**

Paul E. Davis

Paul E. Davis, Director
Division of Water Pollution Control

Applicable Sector(s): **C**

TMSP Requirements and Sectors are located at <http://www.state.tn.us/environment/permits/strmh2o.shtml>

ERWIN UTILITIES
AMENDMENT NO. 1
WASTEWATER DISCHARGE PERMIT
NUCLEAR FUEL SERVICES, INC.

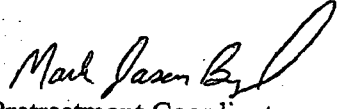
Permit # 13
Effective Date: July 1, 2008
Expiration Date: June 30, 2010
Effective Date of Amendment: July 1, 2009

WHEREAS, Nuclear Fuel Services, Inc. located at 1205 Banner Hill Road, Erwin, Tennessee 37650, is authorized to discharge from their facility into the publicly-owned treatment works (POTW) of the Town of Erwin under Permit #13 issued by Erwin Utilities on July 1, 2008; and

WHEREAS, the expiration date of the discharge permit for Nuclear Fuel Services, Inc. needs to be extended due to the pending sewer ordinance being approved by the Tennessee Division of Water Pollution Control Pretreatment Coordinator;

NOW, THEREFORE, effective July 1, 2009, Permit #13 is amended by mutual agreement to allow the expiration date for Nuclear Fuel Services, Inc. to be extended for an additional year to June 30, 2010, and all requirements and limitations set forth in said Permit shall remain in full force and effect.

Signed this 8th day of June, 2009.


Pretreatment Coordinator
Erwin Utilities

ERWIN UTILITIES
AMENDMENT NO. 2
WASTEWATER DISCHARGE PERMIT
NUCLEAR FUEL SERVICES, INC./AREVA NP, INC.

Permit # 19
Effective Date: July 1, 2008
Expiration Date: June 30, 2010
Effective Date of Amendment: October 1, 2009

WHEREAS, Nuclear Fuel Services, Inc./AREVA NP, Inc. located at 200 Oxide Lane, P. O. Box 337, Erwin, Tennessee 37650-0337, is authorized to amend section 7.2 of permit #19 as follows. Nuclear Fuels, Inc./AREVA NP, Inc. currently collects a 24 hour composite sample daily when processing operations are in progress and treated process effluent is discharged to the sanitary sewer. When processing operations are not in progress and no treated effluent is discharged to the sanitary sewer, the 24-hour composite sample shall be collected weekly. Samples shall be analyzed by Nuclear Fuel Services, Inc./AREVA NP, Inc. for gross alpha and gross beta radioactivity. The composite sample shall be held at a temperature of < 4 degrees Celsius but above freezing.

WHEREAS, Nuclear Fuel Services, Inc./AREVA NP, is authorized to amend section 8.2 of permit #19 as follows. The flow meter must be inspected daily, Monday-Friday, when processing operations are in progress and treated process effluent is discharged to the sanitary sewer. When processing operations are not in progress and no treated process effluent is discharged to the sanitary sewer, the flow meter must be

inspected weekly. Holidays are excluded only when there is no process effluent being discharged.

NOW, THEREFORE, effective October 1, 2009, Permit #19 is amended by mutual agreement to allow a variance to sections 7.2 and 8.2, and all other requirements and limitations set forth in said Permit shall remain in full force and effect.

Signed this 29th day of September, 2009.

Pretreatment Coordinator
Erwin Utilities