



**Nuclear Fuel Services, Inc.**

P.O. Box 337, MS 123  
Erwin, TN 37650

(423) 743-9141

E-Mail :<http://www.atnfs.com>

*CERTIFIED MAIL  
RETURN RECEIPT REQUESTED*

21G-07-0126  
GOV-05-01-01  
ACF-07-0294

October 10, 2007

Mr. Christopher S. Moran  
Enforcement and Compliance Section  
Tennessee Department of Environment and Conservation  
Division of Water Pollution Control  
6<sup>th</sup> Floor, L&C Annex, 401 Church Street  
Nashville, TN 37243-1534

- References:
- 1) Nuclear Fuel Services, Inc. (NFS) NPDES Permit No. TN0002038
  - 2) e-mail from Mr. Brent Lecher, dated 1/31/06 to Joyce Griffith
  - 3) DEEMERs User's Guide, dated 1/06, Section 8.g.i
  - 4) Electronic Reporting System for Submittal of DMRs – "DEEMERs" (letter from C.S. Moran and K. Fowlkes, TDEC to B.M. Moore, NFS), dated June 24, 2002
  - 5) DEEMERs Electronic Application Package (letter from K. Fowlkes and C.S. Moran, TDEC to B.M. Moore, NFS), dated October 25, 2002

Dear Mr. Moran:

As required by Part I, D.1 of NPDES Permit #TN0002038, we hereby submit the Monthly Discharge Monitoring Report (DMR), EPA Form 3320-1, for September 2007 as Attachment 1. As requested in Reference 2 above, NFS is also electronically submitting the September DMR via the DEEMERs system.

Laboratory analyses for required permit parameters were performed on thirteen (13) Waste Water Treatment Facility (WWTF) batches discharged during this reporting period. All values were indicated by these analyses to be within their respective permit conditions.

If you or your staff have any questions, require additional information, or wish to discuss this, please contact me or Ms. Joyce Griffith, Environmental Scientist, at (423) 743-9141. Please reference our unique document identification number (21G-07-0126) in any correspondence concerning this letter.

Sincerely,

**NUCLEAR FUEL SERVICES, INC.**

B. Marie Moore  
Vice President, Safety & Regulatory

CAH/lsn

Attachment

B. Marie Moore to Mr. Christopher S. Moran  
October 10, 2007

21G-07-0126  
GOV-05-01-01  
ACF-07-0294

xc: U.S. Nuclear Regulatory Commission  
Region II, Atlanta Federal Center  
61 Forsyth Street, S. W., Suite 23T85  
Atlanta, GA 30303

Mr. Jeff Horton, Manager  
Johnson City Basin  
TN Division of Water Pollution Control  
2305 Silverdale Road  
Johnson City, TN 37601-2162

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME Nuclear Fuel Services  
 ADDRESS P.O. Box 337  
 MS 123  
 Erwin TN 37650  
 FACILITY Nuclear Fuel Services  
 LOCATION Erwin TN 37650  
 Attn: Ms. B. Marie Moore

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

TN0002038	001 G
PERMIT NUMBER	DISCHARGE NUMBER

MAJOR (SUBR 06)  
 F - FINAL  
 TREATED PROCESS WASTEWATER EFFLUENT  
 EMH

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
07	09	01		07	09	30

\*\*\* NO DISCHARGE \*\*\*  
 NOTE: Read Instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			Quality or Concentration			UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
OXYGEN DEMAND, CHEM. (HIGH LEVEL) (COD) 00340 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	*****	*****	323	( 19)	0	13 / 13	GRAB
		*****	*****	***	*****	*****	370	MG/L		ONCE / MONTH	GRAB
PH 00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	6.69	*****	8.85	( 12)	0	13 / 13	GRAB
		*****	*****	***	6	*****	9	SU		ONCE / BATCH	GRAB
		*****	*****	***	MINIMUM	*****	MAXIMUM				
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	*****	3.85	20	( 19)	0	13 / 13	GRAB
		*****	*****	***	*****	30	40	MG/L		ONCE / BATCH	GRAB
		*****	*****	***	*****	MO AVG	DAILY MX				
SOLIDS, SETTLEABLE 00545 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	*****	*****	0.2	( 25)	0	13 / 13	GRAB
		*****	*****	***	*****	*****	0.5	ML/L		ONCE / BATCH	GRAB
		*****	*****	***	*****	*****	DAILY MX				
NITROGEN, AMMONIA TOTAL (AS N) 00610 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	*****	16.00	26	( 19)	1	13 / 13	GRAB
		*****	*****	***	*****	20	30	MG/L		ONCE / BATCH	GRAB
		*****	*****	***	*****	MO AVG	DAILY MX				
NITRITE PLUS NITRATE TOTAL 1 DET. (AS N) 00630 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	73.03	( 26)	*****	*****	*****		0	13 / 13	GRAB
		*****	558	LBS/DY	*****	*****	*****	***		ONCE / BATCH	GRAB
		*****	DAILY MX		*****	*****	*****	***			
FLUORIDE, TOTAL (AS F) 00951 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	*****	< 10	< 10	( 19)	0	13 / 13	GRAB
		*****	*****	***	*****	15	20	MG/L		ONCE / BATCH	GRAB
		*****	*****	***	*****	MO AVG	DAILY MX				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 B. Marie Moore, Vice President  
 Safety & Regulatory  
 TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

*BMM Moore*  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
423	743-9141	07	10	10
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

The chronic mercury limit shall apply only if the discharge of batches containing mercury occur four (4) or more consecutive days/week during the monitoring period; otherwise, only the daily maximum limit for batches containing mercury shall apply. If any individual analytical test result for mercury is less than the minimum qualification level (0.002 mg/l), then a value of zero (0) may be used for DMR calculations and reporting requirements. The TRC Limit is only applicable when chlorine is used in the treatment process.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME Nuclear Fuel Services  
 ADDRESS P.O. Box 337  
 MS 123  
 Erwin TN 37650  
 FACILITY Nuclear Fuel Services  
 LOCATION Erwin TN 37650  
 Attn: Ms. B. Marie Moore

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

TN0002038	001 G
PERMIT NUMBER	DISCHARGE NUMBER

MAJOR (SUBR 06)  
 F - FINAL  
 TREATED PROCESS WASTEWATER  
 EFFLUENT

EMH

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
07	09	01		07	09	30

\*\*\* NO DISCHARGE  \*\*\*  
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PARAMETER		QUANTITY OR LOADING			Quality or Concentration			UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
CADMIUM, TOTAL (AS CD)	SAMPLE MEASUREMENT	*****	*****		*****	*****	0.00115	( 19)	0	01 / 30	GRAB
01027 1 0 0	PERMIT REQUIREMENT	*****	*****	***	*****	*****	0.01	MG/L		ONCE / MONTH	GRAB
EFFLUENT GROSS VALUE				***							
COPPER, TOTAL (AS CU)	SAMPLE MEASUREMENT	*****	*****		*****	*****	0.00819	( 19)	0	01 / 30	GRAB
01042 1 0 0	PERMIT REQUIREMENT	*****	*****	***	*****	*****	1.0	MG/L		ONCE / MONTH	GRAB
EFFLUENT GROSS VALUE				***			DAILY MX				
LEAD, TOTAL (AS PB)	SAMPLE MEASUREMENT	*****	*****		*****	*****	< 0.00250	( 19)	0	01 / 30	GRAB
01051 1 0 0	PERMIT REQUIREMENT	*****	*****	***	*****	*****	0.1	MG/L		ONCE / MONTH	GRAB
EFFLUENT GROSS VALUE				***			DAILY MX				
SILVER, TOTAL (AS AG)	SAMPLE MEASUREMENT	*****	*****		*****	*****	< 0.00100	( 19)	0	01 / 30	GRAB
01077 1 0 0	PERMIT REQUIREMENT	*****	*****	***	*****	*****	0.05	MG/L		ONCE / MONTH	GRAB
EFFLUENT GROSS VALUE				***							
URANIUM, NATURAL, TOTAL	SAMPLE MEASUREMENT	*****	*****		*****	0.13	0.60	( 19)	0	13 / 13	GRAB
22708 1 0 0	PERMIT REQUIREMENT	*****	*****	***	*****	2	4	MG/L		ONCE / BATCH	GRAB
GROSS EFFLUENT VALUE				***		MO AVG	DAILY MX				
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.014136	0.015403	( 03)	*****	*****	*****		0	13 / 13	ESTIMA
50050 1 0 0	PERMIT REQUIREMENT	REPORT	REPORT	MGD	*****	*****	*****	***		ONCE / BATCH	ESTIMA
EFFLUENT GROSS VALUE		MO AVG	DAILY MX					***			
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	*****	*****		*****	*****	N/A	( 19)	0	0 / 0	GRAB
50060 1 0 0	PERMIT REQUIREMENT	*****	*****	***	*****	*****	2	MG/L		ONCE / BATCH	GRAB
EFFLUENT GROSS VALUE				***			DAILY MX				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER B. Marie Moore, Vice President Safety & Regulatory	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 	TELEPHONE		DATE		
			423	743-9141	07	10	10
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

The chronic mercury limit shall apply only if the discharge of batches containing mercury occur four (4) or more consecutive days/week during the monitoring period; otherwise, only the daily maximum limit for batches containing mercury shall apply. If any individual analytical test result for mercury is less than the minimum qualification level (0.0002 mg/l), then a value of zero (0) may be used for DMR calculations and reporting requirements. The TRC Limit is only applicable when chlorine is used in the treatment process.

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PARAMETER		QUANTITY OR LOADING			Quality or Concentration				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
MERCURY, TOTAL (AS HG) 71900 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****		*****	0.00091	0.00353	( 19)	0	13 / 13	GRAB
	PERMIT REQUIREMENT	*****	*****	***	*****	0.00037	0.05	MG/L		ONCE / BATCH	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
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B. Marie Moore, Vice President Safety & Regulatory						423   743-9141		07	10	10	
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT				AREA CODE	NUMBER	YEAR	MO	DAY	

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

The chronic mercury limit shall apply only if the discharge of batches containing mercury occur four (4) or more consecutive days/week during the monitoring period; otherwise, only the daily maximum limit for batches containing mercury shall apply. If any individual analytical test result for mercury is less than the minimum qualification level (0.0002 mg/l), then a value of zero (0) may be used for DMR calculations and reporting requirements. **September 2007 did not have 4 consecutive days of discharge.** The TRC Limit is only applicable when chlorine is used in the treatment process.