



**NUCLEAR FUEL SERVICES, INC.**  
a subsidiary of The Babcock & Wilcox Company

■ 1205 banner hill road ■ erwin, tn 37650 ■ phone 423.743.9141  
■ www.nuclearfuelservices.com

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

21G-10-0196  
GOV-05-01-01  
ACF-10-0281

October 12, 2010

Ms. Stephanie Fisher  
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) Letter from Stephanie Fisher to permittee, received on 10-27-08

Dear Ms. Fisher:

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 2010 as Attachment I.

Laboratory analyses for required permit parameters were performed on twelve (12) 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) 735-5584. Please reference our unique document identification number (21G-10-0196) in any correspondence concerning this letter.

Sincerely,

**NUCLEAR FUEL SERVICES, INC.**

B. Marie Moore, Manager  
Environmental Protection & Industrial Safety

CAH/rmm  
Attachment I – September 2010 DMR

B.M. Moore to Ms. Stephanie Fisher  
October 12, 2010

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GOV-05-01-01  
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cc: U.S. Nuclear Regulatory Commission  
Region II  
245 Peachtree Center Ave., NE  
Suite 1200  
Atlanta, GA 30303-1257

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

B.M. Moore to Ms. Stephanie Fisher  
October 12, 2010

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Attachment I

September 2010 DMR



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)  
 NAME Nuclear Fuel Services  
 ADDRESS P.O. Box 337  
 Erwin, TN 37650  
 FACILITY Nuclear Fuel Services  
 LOCATION 1205 Banner Hill Road  
 Erwin, TN 37650  
 Attn: Ms. B. Marie Moore

DMR Mailing ZIP CODE: 37650  
 MAJOR (SUBR 06) EMH  
 TREATED PROCESS WASTEWATER  
 External Outfall

TN0002038  
 PERMIT NUMBER

001 G  
 DISCHARGE NUMBER

MONITORING PERIOD  
 FROM MM/DD/YYYY TO MM/DD/YYYY  
 9/1/2010 TO 9/30/2010

No Discharge

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION		UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	VALUE				
CADMIUM, TOTAL (as Cd)	*****	*****	*****	*****	mg/L	0	02 / 30	GRAB
01027 1 0 EFFLUENT GROSS	*****	*****	*****	DAILY MX	mg/L		Monthly	GRAB
COPPER, TOTAL (as Cu)	*****	*****	*****	*****	mg/L	0	02 / 30	GRAB
01042 1 0 EFFLUENT GROSS	*****	*****	*****	1.0 DAILY MX	mg/L		Monthly	GRAB
LEAD, TOTAL (as Pb)	*****	*****	*****	< 0.00330	mg/L	0	02 / 30	GRAB
01051 1 0 EFFLUENT GROSS	*****	*****	*****	0.1 DAILY MX	mg/L		Monthly	GRAB
SILVER, TOTAL (as Ag)	*****	*****	*****	< 0.00100	mg/L	0	02 / 30	GRAB
01077 1 0 EFFLUENT GROSS	*****	*****	*****	0.05 DAILY MX	mg/L		Monthly	GRAB
URANIUM, NATURAL, TOTAL	*****	*****	0.41	*****	mg/L	0	12 / 12	GRAB
22708 1 0 EFFLUENT GROSS	*****	*****	MO AVG	*****	mg/L		Once Per Batch	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	0.013970	Mgal/d	*****	*****	*****	0	12 / 12	ESTIMA
50050 1 0 EFFLUENT GROSS	Req. Mon. MO AVG	Mgal/d	*****	*****	*****		Once Per Batch	ESTIMA
CHLORINE, TOTAL RESIDUAL	*****	*****	*****	N/A	mg/L	0	0	GRAB
50060 1 0 EFFLUENT GROSS	*****	*****	*****	2 DAILY MX	mg/L		Once Per Batch	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER					TELEPHONE	DATE		
B. Marie Moore, Manager Environmental Protection & Industrial Safety					423 743-9141	10/12/2010		
TYPED OR PRINTED					423 743-9141	MM/DD/YYYY		
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT					423 743-9141	MM/DD/YYYY		

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision with a system designed to ensure that qualified personnel properly gather and analyze 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.

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.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)  
 NAME Nuclear Fuel Services  
 ADDRESS P.O. Box 337  
 Erwin, TN 37650  
 FACILITY Nuclear Fuel Services  
 LOCATION 1205 Banner Hill Road  
 Erwin, TN 37650  
 Attn: Ms. B. Marie Moore

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

DMR Mailing ZIP CODE: 37650  
 MAJOR (SUBR.06) EMH  
 TREATED PROCESS WASTEWATER  
 External Outfall

TN0002038	001G
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
9/1/2010	9/30/2010

No Discharge

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION		UNITS	NO. EX OF ANALYSIS	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	UNITS				
MERCURY, TOTAL (as Hg)	*****	*****	*****	*****	mg/L	0	12	GRAB
71900 1 0 EFFLUENT GROSS	*****	*****	*****	*****	mg/L		Once Per Batch	GRAB
MERCURY, TOTAL (as Hg)	*****	*****	*****	<	mg/L	0	12	GRAB
71900 2 0 EFFLUENT NET	*****	*****	0.00037 MO AVG	*****	mg/L		Once Per Batch	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER B. Marie Moore, Manager Environmental Protection & Industrial Safety	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 report 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.	TELEPHONE	DATE
		423.743-9141 AREA CODE NUMBER	10/12/2010 MM/DD/YYYY
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	

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 2010 did not have 4 consecutive days of discharge. The TRC Limit is only applicable when chlorine is used in the treatment process.