



**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](http://www.nuclearfuelservices.com)

**CERTIFIED MAIL  
RETURN RECEIPT REQUESTED**

21G-12-0231  
GOV-05-01-01  
ACF-12-0300

November 9, 2012

Mr. Patrick Cromer  
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 Mr. Cromer:

As required by Part I, D.1 of NPDES Permit #TN0002038, we hereby submit the original and a copy of the Monthly Discharge Monitoring Report (DMR), EPA Form 3320-1, for October 2012 as Attachment I. Also included are the 4th Quarter 2012 metals and PCE analyses.

Laboratory analyses for required permit parameters were performed on eleven (11) 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-12-0231) in any correspondence concerning this letter.

Sincerely,

**NUCLEAR FUEL SERVICES, INC.**

B. Marie Moore, Manager  
Environmental Protection & Industrial Safety

CAH/rrm  
Attachment (1): October 2012 DMR

B.M. Moore to Mr. Patrick Cromer  
November 9, 2012

21G-12-0231  
GOV-05-01-01  
ACF-12-0300

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 Mr. Patrick Cromer  
November 9, 2012

21G-12-0231  
GOV-05-01-01  
ACF-12-0300

Attachment I

October 2012 DMR

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

NAME Nuclear Fuel Services  
 ADDRESS 1205 Banner Hill Road  
 Erwin, TN 37650  
 FACILITY Nuclear Fuel Services  
 LOCATION 1205 Banner Hill Road  
 Erwin, TN 37650  
 Attn: B. Marie Moore

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

TN0002038	001-G
PERMIT NUMBER	DISCHARGE NUMBER

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

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
FROM 10/01/2012	TO 10/31/2012

No Discharge

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION		UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	UNITS				
OXYGEN DEMAND, CHEM. (HIGH LEVEL) (COD)	*****	*****	*****	*****	mg/L	0	11	GRAB
EFFLUENT GROSS	*****	*****	*****	*****	mg/L		Monthly	GRAB
pH	*****	*****	6.87	*****	SU	0	11	GRAB
00400 1 0	*****	*****	*****	*****	SU		Once Per Batch	GRAB
EFFLUENT GROSS	*****	*****	*****	*****	SU		Once Per Batch	GRAB
SOLIDS, TOTAL, SUSPENDED	*****	*****	*****	*****	mg/L	0	11	GRAB
00530 1 0	*****	*****	8.73	*****	mg/L		Once Per Batch	GRAB
EFFLUENT GROSS	*****	*****	*****	*****	mg/L		Once Per Batch	GRAB
SOLIDS, SETTLEABLE	*****	*****	*****	*****	mL/L	0	11	GRAB
00545 1 0	*****	*****	*****	*****	mL/L		Once Per Batch	GRAB
EFFLUENT GROSS	*****	*****	*****	*****	mL/L		Once Per Batch	GRAB
NITROGEN, AMMONIA TOTAL (as N)	*****	*****	8.45	*****	mg/L	0	11	GRAB
00610 1 0	*****	*****	*****	*****	mg/L		Once Per Batch	GRAB
EFFLUENT GROSS	*****	*****	*****	*****	mg/L		Once Per Batch	GRAB
NITRITE PLUS NITRATE TOTAL	*****	*****	*****	*****	mg/L	0	11	GRAB
1 DET. (as N)	*****	*****	*****	*****	*****		Once Per Batch	GRAB
00630 1 0	*****	*****	*****	*****	*****		Once Per Batch	GRAB
EFFLUENT GROSS	*****	*****	*****	*****	*****		Once Per Batch	GRAB
FLUORIDE, TOTAL (as F)	*****	*****	*****	*****	mg/L	0	11	GRAB
00951 1 0	*****	*****	*****	*****	mg/L		Once Per Batch	GRAB
EFFLUENT GROSS	*****	*****	*****	*****	mg/L		Once Per Batch	GRAB

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.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 B. M. Moore, Manager  
 Environmental Protection & Industrial Safety

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  


TELEPHONE  
 423 743-9141

AREA CODE NUMBER  
 423 743-9141

DATE  
 11/09/2012

TYPED OR PRINTED

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 THE MERCURY (Hg) LMT APPLIES ONLY IF DISCHARGES CONTAINING Hg OCCUR 4+ CONSECUTIVE DAYSWK DURING THE MON. PERIOD. OTHERWISE, ONLY THE DAILY MAX LMT APPLIES. IF ANY TEST RESULT FOR Hg IS < THE MIN QUANT. LEVEL (0.0002 MG/L), THEN ZERO MAY BE USED FOR DMR CALCS AND REPORT. RQRMTS.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)  
 NAME Nuclear Fuel Services  
 ADDRESS 1205 Banner Hill Road  
 Erwin, TN 37650

FACILITY Nuclear Fuel Services  
 LOCATION 1205 Banner Hill Road  
 Erwin, TN 37650  
 Attn: B. Marie Moore

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

TN0002038  
 PERMIT NUMBER

001-G  
 DISCHARGE NUMBER

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

MONITORING PERIOD  
 FROM 10/01/2012 TO 10/31/2012

No Discharge

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION		UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	UNITS				
CADMIUM, TOTAL (as Cd)	*****	*****	*****	*****	mg/L	0	01 / 30	GRAB
01027 1 0 EFFLUENT GROSS	*****	*****	*****	*****	mg/L	0	Monthly	GRAB
COPPER, TOTAL (as Cu)	*****	*****	*****	*****	mg/L	0	01 / 30	GRAB
01042 1 0 EFFLUENT GROSS	*****	*****	*****	*****	mg/L	0	Monthly	GRAB
LEAD, TOTAL (as Pb)	*****	*****	*****	*****	mg/L	0	01 / 30	GRAB
01051 1 0 EFFLUENT GROSS	*****	*****	*****	*****	mg/L	0	Monthly	GRAB
SILVER, TOTAL (as Ag)	*****	*****	*****	*****	mg/L	0	01 / 30	GRAB
01077 1 0 EFFLUENT GROSS	*****	*****	*****	*****	mg/L	0	Monthly	GRAB
URANIUM, NATURAL, TOTAL	*****	*****	*****	*****	mg/L	0	11 / 11	GRAB
22708 1 0 EFFLUENT GROSS	*****	*****	*****	*****	mg/L	0	Once Per Batch	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	0.014041	MGD	*****	*****	*****	0	11 / 11	ESTIMA
50050 1 0 EFFLUENT GROSS	Req. Mon. MO AVG	MGD	*****	*****	*****	0	Once Per Batch	ESTIMA
CHLORINE, TOTAL RESIDUAL	*****	*****	*****	*****	mg/L	0	0 / 0	GRAB
50060 1 0 EFFLUENT GROSS	*****	*****	*****	*****	mg/L	0	Once Per Batch	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER					TELEPHONE		DATE	
B. M. Moore, Manager Environmental Protection & Industrial Safety					423 743-9141		11/09/2012	
TYPED OR PRINTED					AREA CODE NUMBER		MM/DD/YYYY	
					423 743-9141			

*B. M. Moore*  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 THE MERCURY (Hg) LMT APPLIES ONLY IF DISCHARGES CONTAINING Hg OCCUR 4+ CONSECUTIVE DAYS/MK DURING THE MON. PERIOD. OTHERWISE, ONLY THE DAILY MAX LMT APPLIES. IF ANY TEST RESULT FOR Hg IS < THE MIN QUANT. LEVEL (0.0002 MG/L), THEN ZERO MAY BE USED FOR DMR CALCS AND REPORT. RQRMTS.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

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


DISCHARGE MONITORING REPORT (DMR)

TN0002038	001-G
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
FROM 10/1/2012	TO 10/31/2012

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

No Discharge

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION		UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	UNITS				
MERCURY, TOTAL (as Hg)	*****	*****	MNR	*****	mg/L	0	11	GRAB
EFFLUENT GROSS	*****	*****	0.00037 MO AVG	*****	mg/L		Once Per Batch	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER B. M. Moore, Manager Environmental Protection & Industrial Safety	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE
TYPED OR PRINTED		423 743-9141	11/09/2012
		AREA CODE NUMBER	MM/DD/YYYY

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 analyze the information submitted for gathering the information, the information submitted is, to the best of my knowledge and belief, true and accurate, and that there are no significant omissions or violations in submitting false information, including the possibility of fine and imprisonment for knowing violations.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 THE MERCURY (Hg) LMT APPLIES ONLY IF DISCHARGES CONTAINING Hg OCCUR 4+ CONSECUTIVE DAYS/SWK DURING THE MON. PERIOD. OTHERWISE, ONLY THE DAILY MAX LMT APPLIES. IF ANY TEST RESULT FOR Hg IS < MIN. QUANT. LEVEL (0.0002 MG/L), THEN ZERO MAY BE USED FOR DMR CALC'S AND REPORT. RGRMNTS. OCTOBER 2012 DID NOT HAVE MORE THAN 4 CONSECUTIVE DAYS OF DISCHARGE.

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

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

DMR Mailing ZIP Code: 37650  
 MAJOR (SUBR 06)  
 QUARTERLY REPORTING  
 External Outfall

TN0002038  
 PERMIT NUMBER  
 001-Q  
 DISCHARGE NUMBER

MONITORING PERIOD  
 FROM 10/1/2012 TO 12/31/2012

No Discharge

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION		UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	VALUE				
ARSENIC, TOTAL (as As)	*****	*****	*****	*****	mg/L	0	01	GRAB
01002 1 0 EFFLUENT GROSS	*****	*****	*****	*****	mg/L	0	Quarterly	GRAB
CHROMIUM, TOTAL (as Cr)	*****	*****	*****	*****	mg/L	0	01	GRAB
01034 1 0 EFFLUENT GROSS	*****	*****	*****	*****	mg/L	0	Quarterly	GRAB
NICKEL, TOTAL (as Ni)	*****	*****	*****	*****	mg/L	0	01	GRAB
01067 1 0 EFFLUENT GROSS	*****	*****	*****	*****	mg/L	0	Quarterly	GRAB
TETRACHLOROETHYLENE	*****	*****	*****	*****	mg/L	0	01	GRAB
34475 1 0 EFFLUENT GROSS	*****	*****	*****	*****	mg/L	0	Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER B. M. Moore, Manager Environmental Protection & Industrial Safety	TELEPHONE	DATE
TYPED OR PRINTED	423 743-9141 AREA CODE NUMBER	11/09/2012 MM/DD/YYYY
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		

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