



**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-12-0156  
GOV-05-01-01  
ACF-12-0212

August 8, 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 July 2012 as Attachment I. Also included are the 3rd Quarter 2012 metals and PCE analyses.

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) 735-5584. Please reference our unique document identification number (21G-12-0156) in any correspondence concerning this letter.

Sincerely,

**NUCLEAR FUEL SERVICES, INC.**

B. Marie Moore, Manager  
Environmental Protection & Industrial Safety

CAH/rmm

Attachment (1): July 2012 DMR

B.M. Moore to Mr. Patrick Cromer  
August 8, 2012

21G-12-0156  
GOV-05-01-01  
ACF-12-0212

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  
August 8, 2012

21G-12-0156  
GOV-05-01-01  
ACF-12-0212

Attachment I

July 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  
PERMIT NUMBER

001-G  
DISCHARGE NUMBER

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

MONITORING PERIOD  
FROM MM/DD/YYYY TO MM/DD/YYYY  
07/01/2012 07/31/2012

No Discharge ☐

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
	VALUE	UNITS	VALUE	VALUE	VALUE						
OXYGEN DEMAND, CHEM (HIGH LEVEL) (COD)	*****	*****	*****	*****	*****	*****	mg/L	0	13	GRAB	
00340 1 0 EFFLUENT GROSS	*****	*****	*****	*****	*****	*****	mg/L	0	13	GRAB	
PH	*****	*****	*****	*****	*****	*****	mg/L	0	Monthly	GRAB	
00400 1 0 EFFLUENT GROSS	*****	*****	*****	*****	*****	*****	mg/L	0	13	GRAB	
SOLIDS, TOTAL SUSPENDED	*****	*****	*****	*****	*****	*****	SU	0	ONCE PER BATCH	GRAB	
00530 1 0 EFFLUENT GROSS	*****	*****	*****	*****	*****	*****	mg/L	0	13	GRAB	
SOLIDS, SETTLEABLE	*****	*****	*****	*****	*****	*****	mg/L	0	ONCE PER BATCH	GRAB	
00545 1 0 EFFLUENT GROSS	*****	*****	*****	*****	*****	*****	mL/L	0	13	GRAB	
NITROGEN, AMMONIA TOTAL (as N)	*****	*****	*****	*****	*****	*****	mL/L	0	ONCE PER BATCH	GRAB	
00610 1 0 EFFLUENT GROSS	*****	*****	*****	*****	*****	*****	mg/L	0	13	GRAB	
NITRITE PLUS NITRATE TOTAL 1 DET. (as N)	*****	*****	*****	*****	*****	*****	mg/L	0	ONCE PER BATCH	GRAB	
00630 1 0 EFFLUENT GROSS	*****	*****	*****	*****	*****	*****	*****	0	13	GRAB	
FLUORIDE, TOTAL (as F)	*****	*****	*****	*****	*****	*****	*****	0	ONCE PER BATCH	GRAB	
00951 1 0 EFFLUENT GROSS	*****	*****	*****	*****	*****	*****	mg/L	0	13	GRAB	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	B. M. Moore, Manager			SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE	DATE			
Environmental Protection & Industrial Safety							423 743-9141	08/08/2012			
TYPED OR PRINTED							AREA CODE	NUMBER			

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

THE MERCURY (Hg) LMT APPLIES ONLY IF DISCHARGES CONTAINING Hg OCCUR 4+ CONSECUTIVE DAYS/WK 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: Ms. B. Marie Moore

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

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

001-G  
DISCHARGE NUMBER

MONITORING PERIOD  
MM/DD/YYYY TO MM/DD/YYYY  
07/01/2012 TO 07/31/2012

No Discharge ☐

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE								
	VALUE	VALUE	UNITS	VALUE	VALUE	UNITS												
CADMIUM, TOTAL (as Cd)	SAMPLE MEASUREMENT	*	*	*	*	*	*****	*	*	*	*	BDL<	0.001	mg/L	0	01	30	GRAB
01027 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	*	*	*	*	*	*****	*	*	*	*	DAILY MX	.01	mg/L		Monthly		GRAB
COPPER, TOTAL (as Cu)	SAMPLE MEASUREMENT	*	*	*	*	*	*****	*	*	*	*	0.00728	mg/L	0	01	30	GRAB	
01042 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	*	*	*	*	*	*****	*	*	*	*	DAILY MX	1	mg/L		Monthly		GRAB
LEAD, TOTAL (as Pb)	SAMPLE MEASUREMENT	*	*	*	*	*	*****	*	*	*	*	BDL<	0.033	mg/L	0	01	30	GRAB
01051 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	*	*	*	*	*	*****	*	*	*	*	DAILY MX	.1	mg/L		Monthly		GRAB
SILVER, TOTAL (as Ag)	SAMPLE MEASUREMENT	*	*	*	*	*	*****	*	*	*	*	BDL<	0.001	mg/L	0	01	30	GRAB
01077 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	*	*	*	*	*	*****	*	*	*	*	DAILY MX	.05	mg/L		Monthly		GRAB
URANIUM, NATURAL, TOTAL	SAMPLE MEASUREMENT	*	*	*	*	*	*****	*	*	*	*	BDL<	0.90	mg/L	0	13	13	GRAB
22708 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	*	*	*	*	*	*****	*	*	*	*	MO AVG	4	mg/L		Once Per Batch		GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.014383	0.014769	MGD				*	*	*	*	*	*	*	*	13	13	ESTIMA
50050 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD				*	*	*	*	*	*	*	*	Once Per Batch		ESTIMA
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	*	*	*	*	*	*****	*	*	*	*	MNR		mg/L	0	0	0	GRAB
50060 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	*	*	*	*	*	*****	*	*	*	*	DAILY MX	2	mg/L		Once Per Batch		GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER											TELEPHONE		DATE					
B. M. Moore, Manager Environmental Protection & Industrial Safety											423 743-9141		08/08/2012					
TYPED OR PRINTED											AREA CODE NUMBER		MM/DD/YYYY					

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

THE MERCURY (Hg) LMT APPLIES ONLY IF DISCHARGES CONTAINING Hg OCCUR 4+ CONSECUTIVE DAYS/WK 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.

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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)

001-G
DISCHARGE NUMBER
TN0002038
PERMIT NUMBER

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

MONITORING PERIOD	
MM/DD/YYYY	TO
7/1/2012	7/31/2012

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	VALUE	VALUE					
MERCURY, TOTAL (as Hg)	*****	*****	MNR	0.00032	mg/L	13	0	13	Once Per Batch	GRAB
71900 1 0 EFFLUENT GROSS	*****	*****	.00037 MO AVG	.05 DAILY MX	mg/L	13		13		GRAB

No Discharge ☐

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER B. M. 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 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.	TELEPHONE	DATE
TYPED OR PRINTED	COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)	423 743-9141	08/08/2012
		AREA CODE NUMBER	MM/DD/YYYY

THE MERCURY (Hg) LMT APPLIES ONLY IF DISCHARGES CONTAINING Hg OCCUR 4+ CONSECUTIVE DAYS/WK 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. JULY 2012 DID NOT HAVE MORE THAN 4 CONSECUTIVE DAYS OF DISCHARGE.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)  
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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-Q
PERMIT NUMBER	DISCHARGE NUMBER

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

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
FROM 07/01/2012	TO 09/30/2012

No Discharge ☐

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	VALUE	UNITS	VALUE	VALUE	VALUE				
ARSENIC, TOTAL (as As)	* * * * *	* * * * *	*****	* * * * *	* * * * *	BDL<	mg/L	0	01	GRAB
01002 1 0 EFFLUENT GROSS	* * * * *	* * * * *	*****	* * * * *	* * * * *	Req. Mon. DAILY MX	mg/L		Quarterly	GRAB
CHROMIUM, TOTAL (as Cr)	* * * * *	* * * * *	*****	* * * * *	* * * * *	BDL<	mg/L	0	01	GRAB
01034 1 0 EFFLUENT GROSS	* * * * *	* * * * *	*****	* * * * *	* * * * *	Req. Mon. DAILY MX	mg/L		Quarterly	GRAB
NICKEL, TOTAL (as Ni)	* * * * *	* * * * *	*****	* * * * *	* * * * *	0.00288	mg/L	0	01	GRAB
01067 1 0 EFFLUENT GROSS	* * * * *	* * * * *	*****	* * * * *	* * * * *	Req. Mon. DAILY MX	mg/L		Quarterly	GRAB
TETRACHLOROETHYLENE	* * * * *	* * * * *	*****	* * * * *	* * * * *	BDL<	mg/L	0	01	GRAB
34475 1 0 EFFLUENT GROSS	* * * * *	* * * * *	*****	* * * * *	* * * * *	Req. Mon. DAILY MX	mg/L		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER B. M. 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 ensure 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
TYPED OR PRINTED			423 743-9141	08/08/2012
COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)			AREA CODE	NUMBER
			423	MM/DD/YYYY