



**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-13-0101  
GOV-05-01-01  
ACF-13-0131

May 13, 2013

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 April 2013 as Attachment I. Also included are the Second Quarter 2013 metals and PCE analyses.

Laboratory analyses for required permit parameters were performed on ten (10) 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-13-0101) in any correspondence concerning this letter.

Sincerely,

**NUCLEAR FUEL SERVICES, INC.**

B. Marie Moore, Manager  
Environmental Protection & Industrial Safety

CAH/rmm  
Attachment (1): April 2013 DMR

B.M. Moore to Mr. Patrick Cromer  
May 13, 2013

21G-13-0101  
GOV-05-01-01  
ACF-13-0131

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  
May 13, 2013

21G-13-0101  
GOV-05-01-01  
ACF-13-0131

Attachment I  
April 2013 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)

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  
4/1/2013 TO 4/30/2013

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION		NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	UNITS			
OXYGEN DEMAND, CHEM. (HIGH LEVEL) (COD)	*****	*****	*****	*****	0	10	GRAB
00340 1 0 EFFLUENT GROSS	*****	*****	*****	*****		Monthly	GRAB
pH	*****	*****	*****	*****	0	10	GRAB
00400 1 0 EFFLUENT GROSS	*****	*****	*****	*****	0	10	GRAB
SOLIDS, TOTAL SUSPENDED	*****	*****	*****	*****	0	Once Per Batch	GRAB
00530 1 0 EFFLUENT GROSS	*****	*****	*****	*****	0	10	GRAB
SOLIDS, SETTLEABLE	*****	*****	*****	*****	0	Once Per Batch	GRAB
00545 1 0 EFFLUENT GROSS	*****	*****	*****	*****	0	10	GRAB
NITROGEN, AMMONIA TOTAL (as N)	*****	*****	*****	*****	0	Once Per Batch	GRAB
00610 1 0 EFFLUENT GROSS	*****	*****	*****	*****	0	10	GRAB
NITRITE PLUS NITRATE TOTAL 1 DET. (as N)	*****	*****	*****	*****	0	Once Per Batch	GRAB
00630 1 0 EFFLUENT GROSS	*****	*****	*****	*****	0	10	GRAB
FLUORIDE, TOTAL (as F)	*****	*****	*****	*****	0	Once Per Batch	GRAB
00951 1 0 EFFLUENT GROSS	*****	*****	*****	*****	0	Once Per Batch	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

B. M. Moore, Manager  
Environmental Protection & Industrial Safety

TELEPHONE

423-743-9141

DATE

05/13/2013

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

B. M. Moore, Manager  
Environmental Protection & Industrial Safety

TELEPHONE

423-743-9141

DATE

05/13/2013

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 CALCULATIONS AND REPORT. RQRMENTS.

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  
MM/DD/YYYY TO MM/DD/YYYY  
4/1/2013 TO 4/30/2013

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	VALUE	VALUE					
CADMIUM, TOTAL (as Cd)	*****	*****	*****	*****	< 0.00011			0	01 / 30	GRAB
01027 1 0 EFFLUENT GROSS	*****	*****	*****	*****	DAILY MX	.01	mg/L		Monthly	GRAB
COPPER, TOTAL (as Cu)	*****	*****	*****	*****	*****	0.00885		0	01 / 30	GRAB
01042 1 0 EFFLUENT GROSS	*****	*****	*****	*****	DAILY MX	1	mg/L		Monthly	GRAB
LEAD, TOTAL (as Pb)	*****	*****	*****	*****	< 0.0005			0	01 / 30	GRAB
01051 1 0 EFFLUENT GROSS	*****	*****	*****	*****	DAILY MX	.1	mg/L		Monthly	GRAB
SILVER, TOTAL (as Ag)	*****	*****	*****	*****	< 0.0002			0	01 / 30	GRAB
01077 1 0 EFFLUENT GROSS	*****	*****	*****	*****	DAILY MX	.05	mg/L		Monthly	GRAB
URANIUM, NATURAL, TOTAL	*****	*****	*****	*****	< 0.90			0	10 / 10	GRAB
22708 1 0 EFFLUENT GROSS	*****	*****	*****	*****	MO AVG	4	mg/L		Once Per Batch	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	0.014474	0.015333	MGD	*****	*****	*****	*****	0	10 / 10	ESTIMA
50050 1 0 EFFLUENT GROSS	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	*****	*****	*****	*****		Once Per Batch	ESTIMA
CHLORINE, TOTAL RESIDUAL	*****	*****	*****	*****	*****	MNR	mg/L	0	0 / 0	GRAB
50060 1 0 EFFLUENT GROSS	*****	*****	*****	*****	DAILY MX	2	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 ensure that qualified personnel properly gather, analyze, and summarize the information submitted. Based on my inquiry of the person or persons who manage this 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 understand that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.										
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
B. M. Moore, Manager Environmental Protection & Industrial Safety						423-743-9141		05/13/2013		
TYPED OR PRINTED			OFFICER OR AUTHORIZED AGENT			AREA CODE NUMBER		MM/DD/YYYY		
						423-743-9141		MM/DD/YYYY		

COMMENTS AND EXPLANATION OF ANY VIOLATION: (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 MGL), THEN ZERO MAY BE USED FOR DMR CALCS AND REPORT. RQRMNTS.

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)


PERMIT NUMBER: TN0002038  
DISCHARGE NUMBER: 001-G

MONITORING PERIOD  
FROM: MM/DD/YYYY TO: MM/DD/YYYY  
4/1/2013 4/30/2013

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	VALUE	UNITS	VALUE	VALUE	VALUE				
MERCURY, TOTAL (as Hg)	*****	*****	*****	MNR	*****	0.00381	mg/L	0	10	GRAB
71900 1 0	*****	*****	*****	.00037	*****	.05	mg/L		Once Per Batch	GRAB
EFFLUENT GROSS	*****	*****	*****	MO AVG	*****	DAILY MX				GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER <b>B. M. Moore, Manager</b> Environmental Protection & Industrial Safety	<small>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 who are 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.</small>		TELEPHONE	DATE
			423-743-9141	5/13/2013
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE 		NUMBER MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATION: (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. RQMNTS. APRIL 2013 DID NOT HAVE MORE THAN 4 CONSECUTIVE DAYS OF DISCHARGE.

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)

001-Q  
 DISCHARGE NUMBER

MONITORING PERIOD  
 FROM 4/1/2013 TO 6/30/2013

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

No Discharge

PARAMETER	QUANTITY OR LOADING			QUALITY AND CONCENTRATION			UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	VALUE	UNITS	VALUE	VALUE	VALUE				
Arsenic, Total (as As)	*****	*****	*****	*****	*****	0.00174	mg/L	0	01 / 90	GRAB
01002 10 Effluent Gross	*****	*****	*****	*****	*****	Req. Mon. DAILY MX	mg/L		QTRLY	GRAB
Chromium, Total (as Cr)	*****	*****	*****	*****	*****	< 0.002	mg/L	0	01 / 90	GRAB
01034 10 Effluent Gross	*****	*****	*****	*****	*****	Req. Mon. DAILY MX	mg/L		QTRLY	GRAB
Nickel, Total (as Ni)	*****	*****	*****	*****	*****	0.0122	mg/L	0	01 / 90	GRAB
01067 10 Effluent Gross	*****	*****	*****	*****	*****	Req. Mon. DAILY MX	mg/L		QTRLY	GRAB
Tetrachloroethylene	*****	*****	*****	*****	*****	< 0.0003	mg/L	0	01 / 90	GRAB
34475 10 Effluent Gross	*****	*****	*****	*****	*****	Req. Mon. DAILY MX	mg/L		QTRLY	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER B. M. Moore, Manager Environmental Protection & Industrial Safety	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	DATE
			423-743-9141	05/13/2013
TYPED OR PRINTED		AREA CODE	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATION: (Reference all attachments here)