



**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-13-0240  
GOV-05-01-01  
ACF-13-0270

November 7, 2013

Ms. Dana Waits  
Enforcement and Compliance Section  
Tennessee Department of Environment and Conservation  
Division of Water Pollution Control  
William R. Snodgrass Tennessee Tower, 11<sup>th</sup> Floor  
312 Rosa L. Parks Avenue  
Nashville, TN 37243

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. Waits:

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

Laboratory analyses for required permit parameters were performed on eight (8) 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-13-0240) in any correspondence concerning this letter.

Sincerely,

**NUCLEAR FUEL SERVICES, INC.**

B. Marie Moore, Manager  
Environmental Protection & Industrial Safety

CAH/rrm  
Attachment: October 2013 DMR

B.M. Moore to Ms. Dana Waits  
November 7, 2013

21G-13-0240  
GOV-05-01-01  
ACF-13-0270

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. Dana Waits  
November 7, 2013

21G-13-0240  
GOV-05-01-01  
ACF-13-0270

Attachment I

October 2013 DMR

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

TN0002038  
 PERMIT NUMBER

001-G  
 DISCHARGE NUMBER

MONITORING PERIOD  
 MM/DD/YYYY TO MM/DD/YYYY  
 10/01/2013 TO 10/31/2013

DMR Mailing ZIP Code: 37650  
 MAJOR TREATED PROCESS WASTEWATER  
 External Outfall


No Discharge

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	VALUE	UNITS	VALUE			
OXYGEN DEMAND, CHEM. (HIGH LEVEL) (COD)	*****	*****	*****	*****	*****	*****	0	8	GRAB
00340 1 0 EFFLUENT GROSS pH	*****	*****	*****	*****	*****	370 DAILY MX	0	Monthly	GRAB
00400 1 0 EFFLUENT GROSS	*****	*****	6.75	*****	*****	8.22	0	8	GRAB
SOLIDS, TOTAL SUSPENDED	*****	*****	MINIMUM	*****	*****	9 MAXIMUM	0	Once Per Batch	GRAB
00530 1 0 EFFLUENT GROSS	*****	*****	*****	*****	*****	15	0	8	GRAB
SOLIDS, SETTLEABLE	*****	*****	*****	*****	*****	40 DAILY MX	0	Once Per Batch	GRAB
00545 1 0 EFFLUENT GROSS	*****	*****	*****	*****	*****	BDL< 0.1	0	8	GRAB
NITROGEN, AMMONIA TOTAL (as N)	*****	*****	*****	*****	*****	BDL< 5 DAILY MX	0	Once Per Batch	GRAB
00610 1 0 EFFLUENT GROSS	*****	*****	*****	*****	*****	21	0	8	GRAB
NITRITE PLUS NITRATE TOTAL 1 DET. (as N)	*****	*****	*****	*****	*****	30 DAILY MX	0	Once Per Batch	GRAB
00630 1 0 EFFLUENT GROSS	*****	*****	*****	*****	*****	*****	0	8	GRAB
FLUORIDE, TOTAL (as F)	*****	*****	*****	*****	*****	*****	0	Once Per Batch	GRAB
00951 1 0 EFFLUENT GROSS	*****	*****	*****	*****	*****	5	0	8	GRAB
00951 1 0 EFFLUENT GROSS	*****	*****	*****	*****	*****	20 DAILY MX	0	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 and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, I believe that these persons are duly 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

TELEPHONE  
 423 743-9141

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  


DATE  
 11/07/2013

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 THE MERCURY (Hg) LMT APPLIES ONLY IF DISCHARGES CONTAINING Hg OCCUR 4+ CONSECUTIVE DAYS/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. RGRMNTS.

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

MONITORING PERIOD  
 MM/DD/YYYY TO MM/DD/YYYY  
 10/01/2013 TO 10/31/2013

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	UNITS	VALUE	VALUE				
CADMIUM, TOTAL (as Cd)	*****	*****	*****	BDL<	mg/L	0	01 / 30	GRAB
01027 1 0 EFFLUENT GROSS REQUIREMENT	*****	*****	*****	DAILY MX	mg/L		Monthly	GRAB
COPPER, TOTAL (as Cu)	*****	*****	*****	0.0152	mg/L	0	01 / 30	GRAB
01042 1 0 EFFLUENT GROSS REQUIREMENT	*****	*****	*****	DAILY MX	mg/L		Monthly	GRAB
LEAD, TOTAL (as Pb)	*****	*****	*****	BDL<	mg/L	0	01 / 30	GRAB
01051 1 0 EFFLUENT GROSS REQUIREMENT	*****	*****	*****	DAILY MX	mg/L		Monthly	GRAB
SILVER, TOTAL (as Ag)	*****	*****	*****	BDL<	mg/L	0	01 / 30	GRAB
01077 1 0 EFFLUENT GROSS REQUIREMENT	*****	*****	*****	DAILY MX	mg/L		Monthly	GRAB
URANIUM, NATURAL, TOTAL	*****	*****	BDL<	0.90	mg/L	0	8 / 8	GRAB
22708 1 0 EFFLUENT GROSS REQUIREMENT	*****	*****	2	MO AVG	mg/L		Once Per Batch	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	0.014346	MGD	*****	*****	*****	0	8 / 8	ESTIMA
50050 1 0 EFFLUENT GROSS REQUIREMENT	Req. Mon. MO AVG	MGD	*****	*****	*****		Once Per Batch	ESTIMA
CHLORINE, TOTAL RESIDUAL	*****	*****	*****	MNR	mg/L	0	0 / 0	GRAB
50060 1 0 EFFLUENT GROSS REQUIREMENT	*****	*****	*****	DAILY MX	mg/L	0	Once Per Batch	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	B. M. Moore, Manager		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	DATE		
Environmental Protection & Industrial Safety			423 743-8141		AREA CODE NUMBER	11/07/2013		
TYPED OR PRINTED					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 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.

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

PERMIT NUMBER  
 TN0002038

MONITORING PERIOD  
 FROM 10/1/2013 TO 10/31/2013

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	8	GRAB
71900 1 0 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	TELEPHONE	DATE
TYPED OR PRINTED	423 743-9141 AREA CODE NUMBER	11/07/2013 MM/DD/YYYY
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <i>BMM</i>		

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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
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 Erwin, TN 37650  
 Attn: B. Marie Moore

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

TN0002038 PERMIT NUMBER  
 001-Q DISCHARGE NUMBER


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

Form Approved  
 CRB No. 3042-004

MONITORING PERIOD  
 MM/DD/YYYY TO MM/DD/YYYY  
 10/1/2013 TO 12/31/2013

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 / 90	GRAB
01002 1 0 EFFLUENT GROSS	*****	*****	*****	*****	mg/L	0	Quarterly	GRAB
CHROMIUM, TOTAL (as Cr)	*****	*****	*****	*****	mg/L	0	01 / 90	GRAB
01034 1 0 EFFLUENT GROSS	*****	*****	*****	*****	mg/L	0	Quarterly	GRAB
NICKEL, TOTAL (as Ni)	*****	*****	*****	*****	mg/L	0	01 / 90	GRAB
01067 1 0 EFFLUENT GROSS	*****	*****	*****	*****	mg/L	0	Quarterly	GRAB
TETRACHLOROETHYLENE	*****	*****	*****	*****	mg/L	0	01 / 90	GRAB
34475 1 0 EFFLUENT GROSS	*****	*****	*****	*****	mg/L	0	Quarterly	GRAB

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	DATE 11/07/2013
TYPED OR PRINTED		AREA CODE NUMBER	MM/DD/YYYY

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

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