



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-12-0115
GOV-05-01-01
ACF-12-0166

June 12, 2012

Mr. Patrick Cromer
Enforcement and Compliance Section
Tennessee Department of Environment and Conservation
Division of Water Pollution Control
6th 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 May 2012, as Attachment I.

Laboratory analyses for required permit parameters were performed on fifteen (15) 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-12-0115) in any correspondence concerning this letter.

Sincerely,

NUCLEAR FUEL SERVICES, INC.

B. Marie Moore, Manager
Environmental Protection & Industrial Safety

CAH/rrm
Attachment (I): May 2012 DMR

B.M. Moore to Mr. Patrick Cromer
June 12, 2012

21G-12-0115
GOV-05-01-01
ACF-12-0166

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
June 12, 2012

21G-12-0115
GOV-05-01-01
ACF-12-0166

Attachment I

May 2012 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
1205 Banner Hill Road
LOCATION Erwin, TN 37650
Attn: Ms. B. Marie Moore

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


001 G
DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
05/01/2012	05/31/2012

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

No Discharge ☐

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	15 / 15	GRAB
00340 1 0 EFFLUENT GROSS	*****	*****	*****	*****		Monthly	GRAB
pH	*****	*****	6.97	*****	0	15 / 15	GRAB
00400 1 0 EFFLUENT GROSS	*****	*****	*****	*****		Once Per Batch	GRAB
SOLIDS, TOTAL SUSPENDED	*****	*****	*****	*****	0	15 / 15	GRAB
00530 1 0 EFFLUENT GROSS	*****	*****	8.13	*****		Once Per Batch	GRAB
SOLIDS, SETTLEABLE	*****	*****	*****	*****	0	15 / 15	GRAB
00545 1 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****		Once Per Batch	GRAB
NITROGEN, AMMONIA TOTAL (as N)	*****	*****	*****	*****	0	15 / 15	GRAB
00610 1 0 EFFLUENT GROSS	*****	*****	*****	*****		Once Per Batch	GRAB
NITRITE PLUS NITRATE TOTAL 1 DET. (as N)	*****	*****	*****	*****	0	15 / 15	GRAB
00630 1 0 EFFLUENT GROSS	*****	*****	*****	*****		Once Per Batch	GRAB
FLUORIDE, TOTAL (as F)	*****	*****	*****	*****	0	15 / 15	GRAB
00951 1 0 EFFLUENT GROSS	*****	*****	*****	*****		Once Per Batch	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER B. Marie Moore, Manager Environmental Protection & Industrial Safety	SIGNATURE OF PRINCIPAL EXECUTIVE 	TELEPHONE	DATE
		423-743-9141	06/12/2012

TYPED OR PRINTED	OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	MM/DD/YYYY
		423-743-9141		MM/DD/YYYY

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

MON AVG ONLY APPLIES IF MERCURY IS OCCURS FOUR OR MORE DAYS A WEEK. IF ANY INDIVIDUAL ANALYTICAL TEST RESULT FOR MERCURY IS LESS THAN THE MIN (0.0002 MG/L) A VALUE OF ZERO MAY BE USED. 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)

001 G	DISCHARGE NUMBER
001 G	DISCHARGE NUMBER

MM/DD/YYYY	TO
MM/DD/YYYY	TO

DMR Mailing ZIP CODE: 37650
MAJOR (SUBR 06) EMH
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				
CADMIUM, TOTAL (as Cd)	*****	*****	*****	*****	mg/L	0	01 / 30	GRAB
01027 1 0 EFFLUENT GROSS	*****	*****	*****	*****	mg/L		Monthly	GRAB
COPPER, TOTAL (as Cu)	*****	*****	*****	*****	mg/L	0	01 / 30	GRAB
01042 1 0 EFFLUENT GROSS	*****	*****	*****	*****	mg/L		Monthly	GRAB
LEAD, TOTAL (as Pb)	*****	*****	*****	*****	mg/L	0	01 / 30	GRAB
01051 1 0 EFFLUENT GROSS	*****	*****	*****	*****	mg/L		Monthly	GRAB
SILVER, TOTAL (as Ag)	*****	*****	*****	*****	mg/L	0	01 / 30	GRAB
01077 1 0 EFFLUENT GROSS	*****	*****	*****	*****	mg/L		Monthly	GRAB
URANIUM, NATURAL, TOTAL	*****	*****	*****	*****	mg/L	0	15 / 15	GRAB
22708 1 0 GROSS EFFLUENT	*****	*****	*****	*****	mg/L		Once Per Batch	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	*****	*****	*****	*****	mg/L	0	15 / 15	ESTIMA
50050 1 0 EFFLUENT GROSS	*****	*****	*****	*****	mg/L		Once Per Batch	ESTIMA
CHLORINE, TOTAL RESIDUAL	*****	*****	*****	*****	mg/L	0	0 / 0	GRAB
50060 1 0 EFFLUENT GROSS	*****	*****	*****	*****	mg/L		Once Per Batch	GRAB

NAME/TITLE: PRINCIPAL EXECUTIVE OFFICER

B. Marie Moore, Manager
Environmental Protection & Industrial Safety

TYPED OR PRINTED

TELEPHONE

DATE

423-743-9141

06/12/2012

MM/DD/YYYY

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

MON AVG ONLY APPLIES IF MERCURY IS OCCURS FOUR OR MORE DAYS A WEEK. IF ANY INDIVIDUAL ANALYTICAL TEST RESULT FOR MERCURY IS LESS THAN THE MIN (0.0002 MG/L) A VALUE OF ZERO MAY BE USED. 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)

IN0002038

PERMIT NUMBER

001 G

DISCHARGE NUMBER

MONITORING PERIOD

MM/DD/YYYY

MM/DD/YYYY

05/01/2012

TO

05/31/2012

DMR Mailing ZIP CODE: 37650

MAJOR

(SUBR 06)

EMH

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)	*****	*****	*****	*****	*****	0.00027	mg/L	0	15 / 15	GRAB
71900 10 EFFLUENT GROSS	*****	*****	*****	*****	*****	0.05 DAILY MX	mg/L		Once Per Batch	GRAB
MERCURY, TOTAL (as Hg)	*****	*****	*****	*****	*****	*****	mg/L	0	15 / 15	GRAB
71900 20 EFFLUENT NET	*****	*****	*****	*****	*****	*****	mg/L		Once Per Batch	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE	
B. Marie Moore, Manager Environmental Protection & Industrial Safety					
TYPED OR PRINTED		423-743-9141		06/12/2012	
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA CODE NUMBER		MM/DD/YY	
<p>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.</p>					

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

The chronic mercury limit shall apply only if the discharge of batches containing mercury occurs 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 the DMR calculations and reporting requirements. May 2012 did not have 4 consecutive days of discharge. The TRC limit is only applicable when chlorine is used in the treatment process.