



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-14-0083
GOV-05-01-01
ACF-14-0112
May 8, 2014

Ms. Dana Waits
Enforcement and Compliance Section
Tennessee Department of Environment and Conservation
Division of Water Pollution Control
William R. Snodgrass Tennessee Tower, 11th 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 April 2014, as an Attachment. Also included are the Second Quarter 2014 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-14-0083) in any correspondence concerning this letter.

Sincerely,

NUCLEAR FUEL SERVICES, INC.

B. Marie Moore, Manager
Environmental Protection & Industrial Safety

CAH/pdj

Attachment: April 2014 DMR

Copy:

✓ 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
May 8, 2014

21G-14-0083
GOV-05-01-01
ACF-14-0112

Attachment

April 2014 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)
 TNO002038
 PERMIT NUMBER

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

MONITORING PERIOD
 FROM 4/1/2014 TO 4/30/2014

No Discharge

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION		UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	VALUE				
OXYGEN DEMAND, CHEM. (HIGH LEVEL) (COD)	*****	*****	*****	263		0	10 / 10	GRAB
00340 1 0 EFFLUENT GROSS	*****	*****	*****	370 DAILY MX	mg/L		Monthly	GRAB
pH	*****	*****	6.54	8.97		0	10 / 10	GRAB
00400 1 0 EFFLUENT GROSS	*****	*****	6 MINIMUM	9 MAXIMUM	SU		Once Per Batch	GRAB
SOLIDS, TOTAL SUSPENDED	*****	*****	*****	15.20		0	10 / 10	GRAB
00530 1 0 EFFLUENT GROSS	*****	*****	30 MO AVG	40 DAILY MX	mg/L		Once Per Batch	GRAB
SOLIDS, SETTLEABLE	*****	*****	*****	BDL<		0	10 / 10	GRAB
00545 1 0 EFFLUENT GROSS	*****	*****	*****	.5 DAILY MX	mL/L		Once Per Batch	GRAB
NITROGEN, AMMONIA TOTAL (as N)	*****	*****	*****	12.90		0	10 / 10	GRAB
00610 1 0 EFFLUENT GROSS	*****	*****	*****	20 MO AVG	mg/L		Once Per Batch	GRAB
NITRITE PLUS NITRATE TOTAL I DET. (as N)	*****	49.00	*****	*****	*****	0	10 / 10	GRAB
00630 1 0 EFFLUENT GROSS	*****	420 DAILY MX	*****	*****	*****		Once Per Batch	GRAB
FLUORIDE, TOTAL (as F)	*****	*****	*****	BDL<		0	10 / 10	GRAB
00951 1 0 EFFLUENT GROSS	*****	*****	*****	15 MO AVG	mg/L		Once Per Batch	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 assure that qualified personnel properly gather and evaluate the information included in this report. 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
 [Signature]

TELEPHONE NUMBER
 423-743-9141

DATE
 05/08/2014

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.

TYPED OR PRINTED

EPA Form 3320-1 (Rev. 01/06) Previous editions may be used

07/12/2012

PAGE 1

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

MONITORING PERIOD
 FROM 4/1/2014 TO 4/30/2014

Form Approved
 OMB No. 2010-0044

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				
CADMIUM, TOTAL (as Cd)	*****	*****	*****	BDL<	0.00055	0	01 / 30	GRAB
01027 1 0 EFFLUENT GROSS	*****	*****	*****	DAILY MX	.01		Monthly	GRAB
COPPER, TOTAL (as Cu)	*****	*****	*****	*****	0.04630	0	01 / 30	GRAB
01042 1 0 EFFLUENT GROSS	*****	*****	*****	DAILY MX	1		Monthly	GRAB
LEAD, TOTAL (as Pb)	*****	*****	*****	BDL<	0.0025	0	01 / 30	GRAB
01051 1 0 EFFLUENT GROSS	*****	*****	*****	DAILY MX	.1		Monthly	GRAB
SILVER, TOTAL (as Ag)	*****	*****	*****	BDL<	0.0002	0	01 / 30	GRAB
01077 1 0 EFFLUENT GROSS	*****	*****	*****	DAILY MX	.05		Monthly	GRAB
URANIUM, NATURAL, TOTAL	*****	*****	*****	BDL<	1.00	0	10 / 10	GRAB
22708 1 0 EFFLUENT GROSS	*****	*****	*****	MO AVG	4		Once Per Batch	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	0.014095	MGD	*****	*****	*****	0	10 / 10	ESTIMA
50050 1 0 EFFLUENT GROSS	Req. Mon. MO AVG	MGD	*****	*****	*****		Once Per Batch	ESTIMA
CHLORINE, TOTAL RESIDUAL	*****	*****	*****	MNR		0	0 / 0	GRAB
50060 1 0 EFFLUENT GROSS	*****	*****	*****	DAILY MX	2		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 the requirements of the law. 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
 AREA CODE NUMBER

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT


DATE
 05/08/2014
 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. RQRMENTS.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
 Nuclear Fuel Services
 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-G
 DISCHARGE NUMBER
 PERMIT NUMBER
 TN0002038

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

MONITORING PERIOD
 MM/DD/YYYY TO MM/DD/YYYY
 4/1/2014 TO 4/30/2014

No Discharge

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION		UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	VALUE				
MERCURY, TOTAL (as Hg)	*****	*****	MNR	*****	mg/L	0	10	GRAB
71900 1 0 EFFLUENT GROSS	*****	*****	.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	5/8/2014
SIGNATURE OF PRINCIPAL EXECUTIVE <i>B. M. Moore</i>		MM/DD/YYYYY
OFFICER OR AUTHORIZED AGENT		

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 reported hereon. 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 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. RQRMNTS. APRIL 2014 DID NOT HAVE MORE THAN 4 CONSECUTIVE DAYS OF DISCHARGE.

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

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

DISCHARGE MONITORING REPORT (DMR)
 001-Q
 DISCHARGE NUMBER

MONITORING PERIOD
 FROM 4/1/2014 TO 6/30/2014

No Discharge

PARAMETER	QUANTITY OR LOADING		QUALITY AND CONCENTRATION		UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	VALUE				
Arsenic, Total (as As)	*****	*****	*****	0.00201	mg/L	0	01 / 90	GRAB
01002 10 Effluent Gross	*****	*****	*****	Req. Mon. DAILY MX	mg/L		QTRLY	GRAB
Chromium, Total (as Cr)	*****	*****	*****	BDL <	mg/L	0	01 / 90	GRAB
01034 10 Effluent Gross	*****	*****	*****	Req. Mon. DAILY MX	mg/L		QTRLY	GRAB
Nickel, Total (as Ni)	*****	*****	*****	0.0176	mg/L	0	01 / 90	GRAB
01067 10 Effluent Gross	*****	*****	*****	Req. Mon. DAILY MX	mg/L		QTRLY	GRAB
Tetrachloroethylene	*****	*****	*****	BDL <	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	TELEPHONE	DATE
TYPED OR PRINTED	AREA CODE NUMBER 423-743-9141	MM/DD/YYYY 05/08/2014
SIGNATURE OF PRINCIPAL EXECUTIVE <i>B. M. Moore</i>		OFFICER OR AUTHORIZED AGENT MM/DD/YYYY

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