

- 1205 banner hill road = erwin, tn 37650 = phone 423.743.9141
- www.nuclearfuelservices.com

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

21G-11-0181 GOV-05-01-01 ACF-11-0280

September 14, 2011

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 Monthly Discharge Monitoring Report (DMR), EPA Form 3320-1, for August 2011 as Attachment I.

Laboratory analyses for required permit parameters were performed on eleven (11) 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-11-0181) in any correspondence concerning this letter.

Sincerely,

NUCLEAR FUEL SERVICES, INC.

B. Marie Moore, Manager

Environmental Protection & Industrial Safety

CAH/rrm

Attachment (1): August 2011 DMR

nuclear fuel services, inc., a subsidiary of The Babcock & Wilcox Company

MMS501 RAHZ

Received from Resa

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

## Attachment I

August 2011 DMR

PERMITTEE NAME/ADDRESS

(Include Facility Name/Location if Different)

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

OMB	No.	2040-00

Nuclear Fuel Services NAME ADDRESS P.O. Box 337

Erwin, TN 37650

FACILITY Nuclear Fuel Services LOCATION 1205 Banner Hill Road

Erwin, TN 37650

Ms. B. Marie Moore Attn:

TN0002038 001 G PERMIT NUMBER DISCHARGE NUMBER

MONITORING PERIOD MM/DD/YYYY MM/DD/YYYY FROM 08/01/2011 TO 08/31/2011

DMR Mailing ZIP CODE: 37650 MAJOR

(SUBR 06) EMH TREATED PROCESS WASTEWATER

External Outfall

No Discharge

			B				_				
PARAMETER	,	QUANTITY OR LOADING			QUALITY	QUALITY OR CONCENTRATION			NO.	FREQUENCY OF	SAMPLE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
OXYGEN DEMAND, CHEM. (HIGH LEVEL) (COD)	SAMPLE MEASUREMENT	****	*****	*****	*****	*****	238	mg/L	0	11	GRAB
00340 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	****	****	*****	* * * * *	*****	370 DAILY MX	mg/L		Monthly	GRAB
pH	SAMPLE MEASUREMENT	****	*****	*****	6.97	*****	8.60	SU	0	11	GRAB
00400 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	****	****	*****	6 MINIMUM	*****	9 MAXIMUM	su		Once Per Batch	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	****	****	*****	* * * * *	11.36	26	mg/L	0	11	GRAB
00530 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	****	*****	*****	* * * * *	30 MO AVG	40 DAILY MX	mg/L		Once Per Batch	GRAB
SOLIDS, SETTLEABLE	SAMPLE MEASUREMENT	****	*****	*****	* * * * *	*****	< 0.1	mL/L	0	11	GRAB
00545 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	*****	****	*****	*****	* * * * *	0.5 DAILY MX	mL/L		Once Per Batch	GRAB
NITROGEN, AMMONIA TOTAL (as N)	SAMPLE MEASUREMENT	****	*****	*****	* * * * *	7.55	13	mg/L	0	11	GRAB
00610 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	****	****	*****	* * * * *	20 MO AVG	30 DAILY MX	mg/L		Once Per Batch	GRAB
NITRITE PLUS NITRATE TOTAL 1 DET. (as N)	SAMPLE MEASUREMENT	*****	59.56	lb/d	*****	*****	*****	*****	0	11	GRAB
00630 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	*****	420 DAILY MX	lb/d	* * * * *	*****	*****	*****		Once Per Batch	GRAB
FLUORIDE, TOTAL (as F)	SAMPLE MEASUREMENT	****	*****	*****	* * * * *	< 3.2	< 5	mg/L	0	11	GRAB
00951 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	****	*****	*****	*****	15 MO AVG	20 DAILY MX	mg/L		Once Per Batch	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  I certify under penalty of law that this document and all attachments were prepared under my direction or								TELEPHONE		DATE	
B. Marie Moore, Manager  Environmental Protection & Industrial Safety  Environmental Protection & Industrial Safety  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, 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								423-743-9141		09/14/2011	
TYPED OR PRINTED					OFF	ICER OR AUTHORIZE	AGENT . AF	EA CODE NUMB	ER	MM/DD/	YYY

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

1205 Banner Hill Road

LOCATION Erwin, TN 37650

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

TN0002038 PERMIT NUMBER

001 DISCHARGE NUMBER

MONITORING PERIOD MM/DD/YYYY MM/DD/YYYY

DMR Mailing ZIP CODE: 37650

MAJOR

(SUBR 06) EMH

TREATED PROCESS WASTEWATER

External Outfall

Attn: Ms. B. Marie				08/01/2011	то		1/2011				No Discharge	
PARAMETER		QUAN' VALUE	FITY OR LOADING	G UNITS	Quali VALUE		lity or Concentration	r Concentration VALUE VALUE		NO.	FREQUENCY OF ANALYSIS	SAMPLE
CADMIUM, TOTAL (as Cd)	SAMPLE MEASUREMENT	*****	*****	*****	* * *		*****	< 0.001	UNITS mg/L	0	01 30	GRAB
01027 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	*****	*****	*****	***	* * *	*****	0.01 DAILY MX	mg/L		Monthly	GRAB
COPPER, TOTAL (as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	***	* * *	*****	< 0.003	mg/L	0	01 30	GRAB
01042 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	*****	*****	*****	***	* * *	*****	I DAILY MX	mg/L		Monthly	GRAB
LEAD, TOTAL (as Pb)	SAMPLE MEASUREMENT	*****	*****	*****	***	* * *	*****	< 0.0033	mg/L	0	01	GRAB
01051 I 0 EFFLUENT GROSS	PERMIT REQUIREMENT	*****	*****	*****	***	* * *	*****	0.1 DAILY MX	mg/L		Monthly	GRAB
SILVER, TOTAL (as Ag)	SAMPLE MEASUREMENT	*****	*****	*****	***	* * *	*****	0.00789	mg/L	0	01	GRAB
01077   0 EFFLUENT GROSS	PERMIT REQUIREMENT	*****	*****	*****	***	* * *	*****	0.05 DAILY MX	mg/L		Monthly	GRAB
URANIUM, NATURAL, TOTAL	SAMPLE MEASUREMENT	*****	*****	*****	***	***	< 0.90	< 0.90	mg/L	0	11	GRAB
22708 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	*****	*****	*****	***	* * *	2 MO AVG	4 DAILY MX	mg/L		Once Per Batch	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.014281	0.014698	Mgal/d	***	* * *	*****	* * * * *	*****	0	11	ESTIMA
50050 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	***	* * *	*****	*****	*****		Once Per Batch	ESTIMA
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	*****	*****	*****	***	* * *	*****	N/A	mg/L	0	0/0	GRAB
50060 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	*****	*****	*****	***	* * *	*****	2 DAILY MX	mg/L		Once Per Batch	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OF	TICER Londify under	penalty of law that this docum	neat and all attachments we	re prepared under my	direction or				TELEPHONI	3	DAT	E
B. Marie Moore, Manager  Environmental Protection & Industrial Safety  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 lates information, including the possibility of fine and imprisonment for knowing violations.							EXECUTIVE	423-743-9141		09/14/2011		
TYPED OR PRINTED				OFF	ICER OR AUTHORIZE	D AGENT	REA CODE NUMB	EK	MM/DD/Y	IXXX		

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.

NAME

Attn:

ADDRESS

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

Nuclear Fuel Services

P.O. Box 337

Erwin, TN 37650

Erwin, TN 37650

Ms. B. Marie Moore

FACILITY Nuclear Fuel Services

LOCATION 1205 Banner Hill Road

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

001 G DISCHARGE NUMBER DMR Mailing ZIP CODE: 37650

MAJOR (SUBR 06) **EMH** 

TREATED PROCESS WASTEWATER

External Outfall

F-FINAL

MONITORING PERIOD MM/DD/YYYY MM/DD/YYYY TO 08/31/2011 08/01/2011

No Discharge

			<u> </u>								3
PARAMETER		QUANTITY OR LOADING			Qualit		NO.	FREQUENCY OF	SAMPLE		
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
MERCURY, TOTAL (as Hg)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.000290	mg/L	0	11	GRAB
71900 1 0 EFFLUENT GROSS	PERMIT REQUIREMENT	*****	*****	*****	****	*****	0.05 DAILY MX	mg/L	0	Once Per Batch	GRAB
MERCURY, TOTAL (as Hg)	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.000116	*****	mg/L	0	11	GRAB
71900 2 0 EFFLUENT NET	PERMIT REQUIREMENT	*****	*****	*****	*****	0.00037 MO AVG	*****	mg/L	0	Once Per Batch	GRAB

TN0002038

PERMIT NUMBER

FROM

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER B. Marie Moore, Manager Environmental Protection & Industrial Safety TYPED OR PRINTED

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 property 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 SIGNATURE OF PRINCIPAL EXECUTIVE 423-743-9141 09/14/2011 OFFICER OR AUTHORIZED AGENT AREA CODE NUMBER MM/DD/YYYY

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

The chronic mercury limit shall apply only if the discharge of batches containing mercury occur four (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 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. August 2011 did not have 4 consecutive days of discharge. The TRC limit is only applicable when chlorine is used in the treatment process.

DATE