



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-10-0001
GOV-05-01-01
ACF-10-0001

January 13, 2010

Ms. Stephanie Fisher
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 Ms. Fisher:

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 December 2009 as Attachment I.

Laboratory analyses for required permit parameters were performed on nine (9) 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-10-0001) in any correspondence concerning this letter.

Sincerely,

NUCLEAR FUEL SERVICES, INC.

B. Marie Moore
Director, Safety & Regulatory

CAH/rrm
Attachment (1)

B.M. Moore to Ms. Stephanie Fisher
January 13, 2010

21G-10-0001
GOV-05-01-01
ACF-10-0001

cc: ✓ U.S. Nuclear Regulatory Commission
Region II, Atlanta Federal Center
61 Forsyth Street, S. W., Suite 23T85
Atlanta, GA 30303

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. Stephanie Fisher
January 13, 2010

21G-10-0001
GOV-05-01-01
ACF-10-0001

Attachment I

December 2009 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
 LOCATION 1205 Banner Hill Road
 Erwin, TN 37650
 Attn: Ms. B. Marie Moore

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)
 TNO002038
 PERMIT NUMBER

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

MONITORING PERIOD
 FROM 12/01/2009 TO 12/31/2009

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)	*****	*****	*****	*****	mg/L	0	9	GRAB
00340 1 0 EFFLUENT GROSS	*****	*****	*****	*****	mg/L	0	9	GRAB
pH	*****	*****	7.31	8.41	mg/L	0	9	GRAB
00400 1 0 EFFLUENT GROSS	*****	*****	MINIMUM	MAXIMUM	SU	0	Once Per Batch	GRAB
SOLIDS, TOTAL SUSPENDED	*****	*****	*****	12.56	mg/L	0	9	GRAB
00530 1 0 EFFLUENT GROSS	*****	*****	MO AVG	40	mg/L	0	Once Per Batch	GRAB
SOLIDS, SETTLEABLE	*****	*****	*****	< 0.1	mg/L	0	9	GRAB
00545 1 0 EFFLUENT GROSS	*****	*****	*****	0.5	mg/L	0	Once Per Batch	GRAB
NITROGEN, AMMONIA TOTAL (as N)	*****	*****	*****	17.4	mg/L	0	9	GRAB
00610 1 0 EFFLUENT GROSS	*****	*****	MO AVG	30	mg/L	0	Once Per Batch	GRAB
NITRITE PLUS NITRATE TOTAL 1 DET. (as N)	*****	*****	*****	*****	*****	0	9	GRAB
00630 1 0 EFFLUENT GROSS	*****	*****	*****	*****	*****	0	Once Per Batch	GRAB
FLUORIDE (as F)	*****	*****	*****	< 10	mg/L	0	9	GRAB
00951 1 0 EFFLUENT GROSS	*****	*****	MO AVG	20	mg/L	0	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 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.		TELEPHONE		DATE		
B. M. Moore, Director Safety & Regulatory				423-743-9141		01/13/2010		
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE 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 result for mercury is less than the minimum qualification level (0.0002 mg/l), then a value of zero (0) may be used for DMR calculations and reporting requirements. 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)
 TNO002038
 PERMIT NUMBER 001 G
 DISCHARGE NUMBER

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

MONITORING PERIOD
 FROM MM/DD/YYYY 12/01/2009 TO MM/DD/YYYY 12/31/2009

No Discharge

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
	VALUE	UNITS	VALUE	VALUE	VALUE	VALUE					
CADMIUM, TOTAL (as Cd)	*****	*****	*****	*****	*****	*****	mg/L	0	01	GRAB	
01027 1 0 EFFLUENT GROSS	*****	*****	*****	*****	*****	*****	mg/L	0	01	GRAB	
COPPER, TOTAL (as Cu)	*****	*****	*****	*****	*****	*****	mg/L	0	01	GRAB	
01042 1 0 EFFLUENT GROSS	*****	*****	*****	*****	*****	*****	mg/L	0	01	GRAB	
LEAD, TOTAL (as Pb)	*****	*****	*****	*****	*****	*****	mg/L	0	01	GRAB	
01051 1 0 EFFLUENT GROSS	*****	*****	*****	*****	*****	*****	mg/L	0	01	GRAB	
SILVER, TOTAL (as Ag)	*****	*****	*****	*****	*****	*****	mg/L	0	01	GRAB	
01077 1 0 EFFLUENT GROSS	*****	*****	*****	*****	*****	*****	mg/L	0	01	GRAB	
URANIUM, NATURAL, TOTAL	*****	*****	*****	*****	*****	*****	mg/L	0	01	GRAB	
22708 1 0 EFFLUENT GROSS	*****	*****	*****	*****	*****	*****	mg/L	0	01	GRAB	
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	0.014486	Mgal/d	0.015544	MO AVG	0.20	0.96	mg/L	0	9	GRAB	
50050 1 0 EFFLUENT GROSS	REPORT MO AVG	Mgal/d	REPORT DAILY MX	*****	*****	*****	mg/L	0	Once Per Batch	GRAB	
CHLORINE, TOTAL RESIDUAL	*****	*****	*****	*****	*****	*****	mg/L	0	9	ESTIMA	
50060 1 0 EFFLUENT GROSS	*****	*****	*****	*****	*****	*****	mg/L	0	Once Per Batch	ESTIMA	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	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, 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.			SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE	DATE			
B. M. Moore, Director Safety & Regulatory							423-743-9141	01/13/2010			
TYPED OR PRINTED							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 result for mercury is less than the minimum qualification level (0.0002 mg/l), then a value of zero (0) may be used for DMR calculations and reporting requirements. The TRC Limit is only applicable when chlorine is used in the treatment process.

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 NAME Nuclear Fuel Services
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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				
MERCURY, TOTAL (as Hg)	*****	*****	*****	*****	mg/L	0	9	GRAB
71900 1 0 EFFLUENT GROSS	*****	*****	*****	*****	mg/L		Once Per Batch	GRAB
MERCURY, TOTAL (as Hg)	*****	*****	*****	*****	mg/L	0	9	GRAB
71900 2 0 EFFLUENT NET	*****	*****	*****	*****	mg/L		Once Per Batch	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER B. M. Moore, Director Safety & Regulatory	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 review of the information submitted and 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	DATE
		423 743-9141 AERA CODE NUMBER	01/13/2010 MM/DD/YYYY
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		

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 result for mercury is less than the minimum qualification level (0.0002 mg/L), then a value of zero (0) may be used for DMR calculations and reporting requirements. December 2009 did not have more than 4 consecutive days of discharge. The TRC Limit is only applicable when chlorine is used in the treatment process.